

TM 9-4931-586-30&P

TECHNICAL MANUAL

**DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)**

FOR

**TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)**

NSN 4931-01-120-0764 (EIC 4WQ)

DISTRIBUTION STATEMENT C - Distribution authorized to U.S. Government Agencies and their contractors. This publication is required for administrative and operational purposes, as determined on 22 October 1990. Other requests for this document must be referred to U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL/MPP, 1 Rock Island Arsenal, Rock Island, IL 61299-7630.

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* Supersedes TM 9-4931-586-30&P, 08 April 1988.

HEADQUARTERS, DEPARTMENT OF THE ARMY

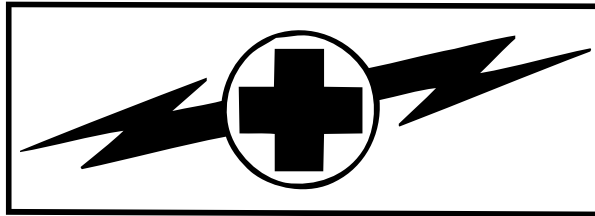
April 1998

WARNING SUMMARY

First aid for electrical shock: Refer to First Aid FM 4-25.11 paragraphs 2-5 (Artificial Respiration) and 3-9.a (2) (First Aid for Burns).

First aid for chemicals used during maintenance: Consult the chemical warnings on the label, and/or the "First Aid" section of the Material Safety Data Sheet (MSDS) (see appendix X).

WARNING



HIGH VOLTAGE is used in the operation of this equipment.
DEATH ON CONTACT may result if personnel fail to observe safety precautions.

Never work on electronic equipment unless there is at least one other person nearby who is familiar with the operation and hazards of that equipment. That person should also be competent in giving first aid. When operators help technicians, they must be warned about dangerous areas.

Whenever possible, shut off the power supply to equipment before beginning work. When working inside the equipment with power off, take special care to ground capacitors likely to hold a dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

Whenever possible keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

Do not be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

WARNING

Adhesives, cleaning solvents, sealing compounds and dry cleaning solvent are toxic and flammable. Use in a well ventilated area. Avoid breathing the vapors. Keep away from ignition sources. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

WARNING

To avoid injury, disconnect thermal sight collimator from 115 vac source before replacing faulty parts.

For first aid for soldiers, refer to FM 4-25.11.

WARNING

ELECTRICAL SHOCK

High voltage present, to avoid hazard always use caution when performing PMCS with power applied.

WARNING

ELECTRICAL SHOCK

High voltage present, death on contact can result if proper handling procedure is not followed.

WARNING

HAZARDOUS VAPORS

Solvents, isopropyl alcohol, and methanol burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

CHANGE
NO. 13

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 01 MARCH 2010

TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
FOR

TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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TM 9-4931-586-30&P, 14 April 1998, is updated as follows:

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2. This revision is the result of the DSESTS OPTS 3.0 update and miscellaneous changes.
3. New or updated text is indicated by a vertical bar in the outer margin of the page.
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Remove Pages

Insert Pages

List of Effective Pages/Work Packages
DA Form 2028s
None

List of Effective Pages/Work Packages
DA Form 2028s
Pin

5. Replace the following work packages with their revised version.

Work Package Number

WP 0175 00	WP 0179 00	WP 0189 00	WP 0207 00
WP 0176 00	WP 0180 00	WP 0205 00	WP 0208 00
WP 0178 00	WP 0188 00	WP 0206 00	WP 0209 00

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large initial "J" and "M".

JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*

0927911

GEORGE W. CASEY, JR.
*General, United States Army
Chief of Staff*

DISTRIBUTION: To be distributed in accordance with the initial distribution number (IDN) 410225, requirements for TM 9-4931-586-30&P.

TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS
LIST (INCLUDING DEPOT MAINTENANCE REPAIR
PARTS) FOR

TEST SET, ELECTRONIC
AN/USM 615 (DSESTS-
M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages

List of Effective Pages/Work Packages

5. Replace the following work packages with their revised version.

Work Package Number

WP 0035 00	WP 0190 00	WP 0200 00	WP 0207 00
WP 0185 00	WP 0191 00	WP 0201 00	WP 0208 00
WP 0188 00	WP 0198 00	WP 0205 00	WP 0209 00
WP 0189 00	WP 0199 00		

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large, prominent initial "J".

JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*

0828807

GEORGE W. CASEY, JR.
*General, United States Army
Chief of Staff*

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CHANGE
NO. 11

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 October 2007

TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
FOR

TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages
Title

List of Effective Pages/Work Packages
Title

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00	WP 0114 00	WP 0182 00	WP 0192 00
WP 0004 00	WP 0174 00	WP 0183 00	WP 0195 00
WP 0055 00	WP 0176 00	WP 0185 00	WP 0205 00
WP 0056 00	WP 0177 00	WP 0186 00	WP 0206 00
WP 0064 00	WP 0178 00	WP 0187 00	WP 0207 00
WP 0073 00	WP 0179 00	WP 0188 00	WP 0208 00
WP 0102 00	WP 0181 00	WP 0189 00	WP 0209 00

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive, flowing style.

JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*

0726808

GEORGE W. CASEY, JR.
*General, United States Army
Chief of Staff*

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CHANGE
NO. 10

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 OCTOBER 2006

TECHNICAL MANUAL

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(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
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TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

Insert Pages

a and b

List of Effective Pages/Work Packages

Title

ix and x

Index 7 and 8

a and b

List of Effective Pages/Work Packages

Title

ix and x

Index 7 and 8

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00	WP 0184 00	WP 0196 00
WP 0042 00	WP 0185 00	WP 0197 00
WP 0043 00	WP 0186 00	WP 0203 00
WP 0176 00	WP 0187 00	WP 0204 00
WP 0180 00	WP 0188 00	WP 0205 00
WP 0181 00	WP 0189 00	WP 0206 00
WP 0182 00	WP 0190 00	WP 0207 00
WP 0183 00	WP 0195 00	WP 0208 00
		WP 0209 00

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large, stylized initial "J".

JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*

0628607

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

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CHANGE
NO. 9

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 04 AUGUST 2006

TECHNICAL MANUAL

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages

List of Effective Pages/Work Packages

5. Replace the following work packages with their revised version.

Work Package Number

WP 0175 00	WP 0185 00	WP 0196 00	WP 0204 00
WP 0176 00	WP 0188 00	WP 0197 00	WP 0205 00
WP 0179 00	WP 0189 00	WP 0199 00	WP 0206 00
WP 0180 00	WP 0191 00	WP 0200 00	WP 0207 00
WP 0181 00	WP 0192 00	WP 0201 00	WP 0208 00
WP 0183 00	WP 0193 00	WP 0202 00	WP 0209 00
WP 0184 00	WP 0195 00	WP 0203 00	

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large initial "J".

JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*
0620002

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

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CHANGE
NO. 8

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 JUNE 2006

TECHNICAL MANUAL

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(DSESTS-M1/FVS)

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Remove Pages

Insert Pages

a/b blank
List of Effective Pages/Work Packages

a and b
List of Effective Pages/Work Packages

5. Replace the following work packages with their revised version.

Work Package Number

WP 0159 00	WP 0178 00	WP 0185 00	WP 0189 00	WP 0205 00
WP 0174 00	WP 0182 00	WP 0186 00	WP 0192 00	WP 0207 00
WP 0176 00	WP 0183 00	WP 0187 00	WP 0200 00	WP 0208 00
				WP 0209 00

By Order of the Secretary of the Army:

Official:



JOYCE E. MORROW

*Administrative Assistant to the
Secretary of the Army*

0615610

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

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CHANGE
NO. 7

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 SEPTEMBER 2005

TECHNICAL MANUAL

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AN/USM 615
(DSESTS-M1/FVS)

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TM 9-4931-586-30&P, 14 April 1998, is updated as follows:

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages
i and ii
Index 7 and 8

List of Effective Pages/Work Packages
i and ii
Index 7 and 8

5. Replace the following work packages with their revised version.

Work Package Number

WP 0040 00 WP 0181 00 WP 0188 00 WP 0189 00 WP 0208 00

6. Remove the following work package from your manual.

Work Package Number

WP 0041 00

By Order of the Secretary of the Army:

Official:



SANDRA R. RILEY

*Administrative Assistant to the
Secretary of the Army*

€ Gã FF

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

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NO. 6

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TECHNICAL MANUAL

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(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages
v and vi

List of Effective Pages/Work Packages
v and vi

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00	WP 0045 00	WP 0182 00	WP 0188 00	WP 0192 00	WP 0205 00	WP 0209 00
WP 0031 00	WP 0176 00	WP 0186 00	WP 0189 00	WP 0193 00	WP 0207 00	
WP 0035 00	WP 0181 00	WP 0187 00	WP 0190 00	WP 0200 00	WP 0208 00	

6. Add the following work packages to your manual.

Work Package Number

None

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*

0306726

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

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CHANGE
NO. 5

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WASHINGTON, D.C., 15 MAY 2002

TECHNICAL MANUAL

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Remove Pages

Insert Pages

Cover
List of Effective Pages/Work Packages
Title page
vii and viii
Foldout pages, WP4, Figures 2 and 4

Cover
List of Effective Pages/Work Packages
Title page
vii and viii
Foldout pages, WP4, Figures 2 and 4

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00 WP 0031 00 WP 0035 01 WP 0036 00 WP 0043 00

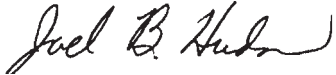
6. Add the following work packages to your manual.

Work Package Number

None

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*

0205005

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

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CHANGE
NO. 4

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 01 OCTOBER 2001

TECHNICAL MANUAL

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TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

Insert Pages

List of Effective Pages/Work Packages
i and ii
Index 7 and 8

List of Effective Pages/Work Packages
i and ii
Index 7 and 8

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00 WP 0035 00 WP 0036 00 WP 0037 00

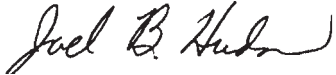
6. Add the following work packages to your manual.

Work Package Number

WP 0035 01
WP 0036 01

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*

0121905

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

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CHANGE
NO. 3

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 03 JULY 2001

TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
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(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
FOR

TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

List of Effective Pages/Work Packages
 Title page
 i thru vi
 Index 3 and 4
 Foldout #6
 2028 forms
 Front Cover

Insert Pages

List of Effective Pages/Work Packages
 Title page
 i thru vi
 Index 3 and 4
 Foldout #6
 2028 forms
 Front Cover

5. Replace the following work packages with their revised version.

Work Package Number

WP 0001 00	WP 0176 00	WP 0189 00	WP 0196 00	WP 0207 00
WP 0035 00	WP 0181 00	WP 0190 00	WP 0198 00	WP 0208 00
WP 0051 00	WP 0188 00	WP 0195 00	WP 0203 00	WP 0209 00
WP 0174 00				

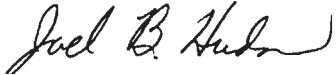
6. Remove the following deleted work packages from your manual.

Work Package Number

WP 0134 00

By Order of the Secretary of the Army:

Official:



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*Administrative Assistant to the
Secretary of the Army*

0108514

ERIC K. SHINSEKI
*General, United States Army
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REVISION
NO. 2

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 27 JUNE 2000

TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS)
FOR

TEST SET, ELECTRONIC
AN/USM 615
(DSESTS-M1/FVS)

NSN 4931-01-120-0764 (EIC 4WQ)

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Remove Pages

None
Title page
v and vi
Index 5 and 6
Index 9 and 10
2028-2 sample page & backup

Insert Pages

List of Effective Pages/Work Packages
Title page
v and vi
Index 5 and 6
Index 9 and 10
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5. Replace the following work packages with their revised version.

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WP 0001 00	WP 0145 00	WP 0157 00	WP 0159 00	WP 0172 00
WP 0178 00	WP 0181 00	WP 0182 00	WP 0188 00	WP 0189 00
WP 0190 00	WP 0191 00	WP 0192 00	WP 0193 00	WP 0196 00
WP 0198 00	WP 0201 00	WP 0203 00	WP 0205 00	WP 0206 00
WP 0207 00	WP 0208 00	WP 0209 00		

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WP 0171 00

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v and vi

v and vi

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WP 0011 00	WP 0178 00	WP 0184 00	WP 0190 00	WP 0196 00	WP 0203 00	WP 0209 00
WP 0035 00	WP 0179 00	WP 0185 00	WP 0191 00	WP 0197 00	WP 0204 00	
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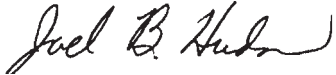
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DA FORMS 2028

METRIC CONVERSION CHART

HOW TO USE THIS MANUAL

This manual tells you how to set up, operate, and perform direct support maintenance procedures for the Direct Support Electrical System Test Set (DSESTS) OIU, Memory Modules and Thermal Sight Collimator.

Before starting a task or procedure, read HOW TO USE THIS MANUAL and WP 0043 00, GENERAL MAINTENANCE INSTRUCTIONS.

WHAT'S IN THE MANUAL – FRONT TO BACK

FRONT COVER INDEX lists information you need most often.

WARNINGS in front of the manual are a summary of the warnings in this manual. The warnings cover hazards that could hurt or kill personnel. Shorter versions of the warnings may appear in the task.

TABLE OF CONTENTS tells you where each chapter and work package can be found.

This manual is divided into five chapters, and each chapter is divided into work packages.

CHAPTER 1 covers general information. It gives a brief description of the test equipment, and describes how it operates.

CHAPTER 2 covers troubleshooting procedures and supplementary troubleshooting data.

CHAPTER 3 covers preventive and corrective maintenance procedures.

CHAPTER 4 covers troubleshooting and corrective maintenance procedures for the Transfer Standards Adapter (TSA).

CHAPTER 5 covers supporting information, including:

- References to publications used to operate and maintain equipment.
- Repair parts and special tools list (RPSTL).
- Expendable supplies and materials list (ESML).
- Illustrated list of manufactured items.

ALPHABETICAL INDEX lists test set information, parts, and procedures as well as the work package number where the information may be found.

FOLDOUTS provide wire diagrams, component locations, and other diagrams which serve as an aid in troubleshooting procedures.

DA FORM 2028 is used to report errors and to recommend improvements for any procedures in the manual.

METRIC CONVERSION CHART converts U.S. measurements to metric equivalents.

USING YOUR MANUAL ON THE JOB

The best way to learn about this manual is to practice using it. Knowing how to use this manual will save both time and energy.

Which type of task do you use?

There are three different types of tasks in this manual. They are operation tasks, troubleshooting tasks, and maintenance tasks. Decide which type of task you need to use.

TROUBLESHOOTING TASKS

Troubleshooting tasks are tasks that help you locate faulty parts and direct you to the maintenance task for correcting faults. Chapter 2 troubleshooting work packages contain details on how to troubleshoot equipment. Read the troubleshooting introduction work package (WP 0004 00) before doing any troubleshooting tasks.

MAINTENANCE TASKS

How do you find the correct task?

Pick a key assembly from the test set that contains the part you want to repair or replace. Look in the ALPHABETICAL INDEX for this key assembly. Go to the indicated work package.

The ALPHABETICAL INDEX lists each assembly under one or more headings. For example, if you wanted to replace the power supply in the Operators Interface Unit (OIU), you could look either under "O" for "OIU" or under "M" for "maintenance procedures," as follows:

Under "O"

Operator Interface Unit (OIU)	
Maintenance Procedures	
Replace OIU Power Supply	WP 0046 00

Under "M"

Maintenance Procedures	
Replace OIU Power Supply	WP 0046 00

How do you read the maintenance tasks?

Be sure to read and follow all warnings, cautions, and notes. These are in all types of tasks. They help you avoid harm to yourself, other personnel, and equipment. They also tell you things you should know about the task.

Before starting, get all of the tools and supplies listed on the setup page needed to do the task. Be sure to read the task before performing the maintenance. If any other tasks are referenced, you must go to the setup page for each of those tasks to find out what tools, parts, and materials will be needed.

Start with step 1 and do each step in the order given. Numbered or primary steps tell you WHAT to do. Lettered substeps tell you HOW to do it.

Look at the drawings. These show where equipment and parts are located in the test set. Drawings in this manual may show closeups of equipment, parts, and other helpful information.

The following samples show what to look for when reading a maintenance task.

Maintenance Tasks – Doing maintenance tasks will keep the test equipment in shape to operate. Maintenance tasks are used to present maintenance instructions. Each maintenance task details steps which you need to perform. If the test equipment or parts need maintenance that is not in any task in the manual, report this to your supervisor.

Maintenance tasks use a standard format. Look at the sample below.

Sample of Setup Items – The sample below shows the DESCRIPTION and INITIAL SETUP sections on the first page of a task. Items to watch for are listed in the legend. Match them with the sample.

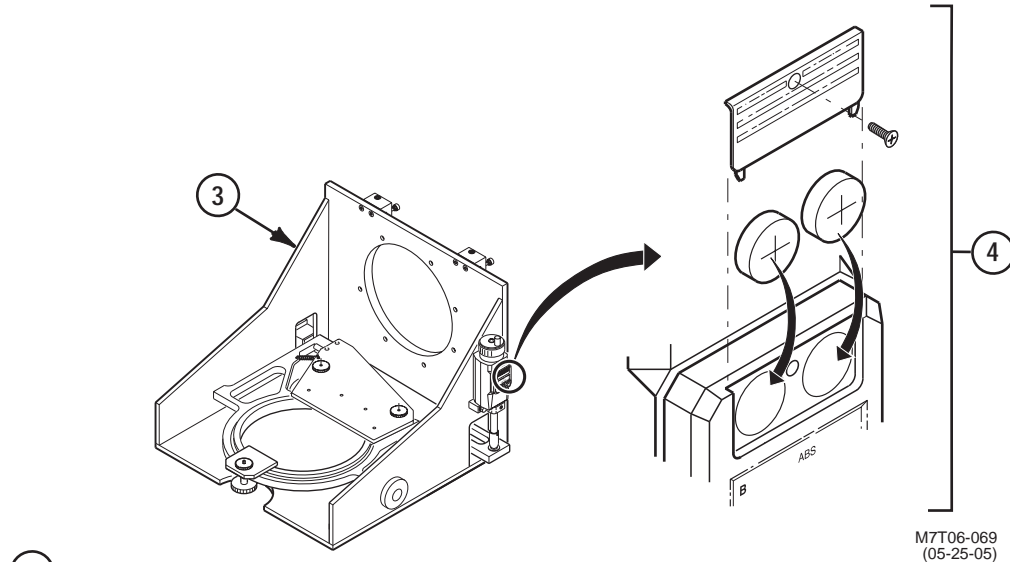
①	REPLACE MODULE INTERFACE ASSEMBLY	0030 00
②	THIS WORK PACKAGE COVERS: Removal, Installation	
③	INITIAL SETUP	
	Tools: Tool Kit, Electronic System Maintenance SC 5180-95-CL-B29	⑤ Equipment Conditions: Remove all CCAs and load plate from module; refer to WP 0037 00,
④	Materials/Parts: Interface Assembly Lockwashers (3) Anti-seize Compound (Item 2, WP 0142 00) Viscous Coating (Item 17, WP 0142 00)	Remove bottom cover; refer to WP 0032 00. Remove front panel; refer to WP 0028 00.

Legend to Sample Above –

- ① **TITLE** This is the name of the task.
- ② **DESCRIPTION** This describes the overall actions you will perform.
- ③ **TOOLS** These are the tools and equipment you will need to do the task.
- ④ **MATERIALS/PARTS** These are the supplies and parts you will need to do the task. Use the Expendable and Durable Items List, or Repair Parts and Special Tools List (RPSTL) to order materials or parts you need for the task. If the material/part has an item number, use Work Package 0142 00 to locate the National Stock Number (NSN) and requisition the item. If the material/part does not have an item number, use the RPSTL Work Package to locate the part number and requisition the item.
- ⑤ **EQUIPMENT CONDITIONS** These are the conditions equipment must be in before you start the task. You will be referred to the task or technical publication needed to meet each equipment condition. This reference will be given after each equipment condition. After you have completed the maintenance task, reverse each equipment condition task listed. For example, if you remove the load plate assembly (WP 0037 00) as an equipment condition, after completing the task, again refer to WP 0037 00 to install the load plate assembly.

Some tasks will include all of the above items. Other tasks will include only some of the above items.

Sample of Task Steps – The sample below shows you some things to watch for when doing a task. Read all steps, substeps, warnings, cautions, and notes before starting the task. Some items to watch for are listed in the legend. Match them with the sample.



NOTE

If replacing a damaged micrometer head with a new micrometer head, discard the batteries which are packaged with the new micrometer head and install fresh batteries.

REMOVE

1. REMOVE BATTERY COVER (1) FROM MICROMETER HEAD (2).
 - a. Remove the screw (3) securing battery cover (1) to battery compartment (4).
 - b. Slide battery cover (1) off of battery compartment (4).
2. REMOVE TWO BATTERIES (5) FROM BATTERY COMPARTMENT (4).

Legend to Sample Above –

- | | | |
|---|----------------|---|
| ① | STEP | This tells you WHAT to do. |
| ② | SUBSTEP | This tells you HOW to do it. |
| ③ | LOCATOR | This helps you locate equipment. |
| ④ | CLOSEUP | This shows you a closeup of the equipment. |
| ⑤ | NOTE | This contains information that helps you understand what to do. |

Each task includes a series of illustrated instructions. The numbered steps in capital letters tell you **WHAT** to do. The lettered substeps tell **HOW** to do it. Each numbered part in the instructions matches the same number in the drawings of the task. When they are needed, warnings, cautions, and notes appear just above the task steps to which they apply.

Read all steps, substeps, warnings, cautions, and notes before starting to do the task. Do each step in the order given. The words **END OF TASK** will tell you when you have finished the task.

DEFINITION OF TASK TERMS

WARNINGS, CAUTIONS, AND NOTES

Be sure to read and follow all warnings and cautions in the task. Ignoring a warning could cause death or injury to yourself or other personnel. Ignoring a caution could cause damage to equipment. Notes contain facts to make the task easier. Warnings, cautions, and notes always appear just above the task steps to which they apply.

WARNINGS: Call attention to things that could kill or injure personnel. Warnings are also listed at the front of the manual.

WARNING

Adhesives and solvents burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

CAUTIONS: Call attention to actions or materials that could damage equipment.

CAUTION

Use low wattage soldering iron when replacing wires, connectors, plugs, and receptacles. Connectors, plugs, or receptacles may be damaged if high wattage soldering iron is used.

NOTES: Contain information you should know.

NOTE

Use this task to replace any slotted type turnlock stud assembly in either stowage module assembly in the GPIA case cover. The FST adapter stowage module is shown.

MATERIALS/PARTS

For all tasks, the following comments apply:

Parts which are discarded or turned in will be referred to as "new" in the task step when installed.

Examples are:

- gaskets
- lockwashers
- circuit card assembly

Only these and other new parts are listed under Materials/Parts in the INITIAL SETUP.

EQUIPMENT CONDITIONS

Equipment conditions in a task tell you what must be done to the equipment before you can proceed to perform the task you want to perform.

If nothing needs to be done to the equipment before you begin a task, no equipment conditions will be identified.

If something must be removed from the equipment before you begin a task, you will be told what is to be removed and where to go to find the procedure or procedures to remove the item or items. Perform the referenced tasks in the order listed.

Samples of Equipment Conditions –

Equipment Conditions:

Remove CCAs from module; refer to WP 0037 00.

Remove bottom cover; refer to WP 0032 00.

Remove front panel; refer to WP 0028 00.

Each task will tell you what tools are required to perform that task. Some referenced tasks will be REMOVE/INSTALL tasks, and some referenced tasks will be REPLACE tasks. If you are sent to a REPLACE task, perform only those steps which remove the item. Do not discard the item when performing the task for access.

When a task is completed, you will find the words END OF TASK. At this point, reverse each equipment condition listed in the INITIAL SETUP. For example, if you had performed the three equipment condition tasks listed in the sample above, you would now:

- Install the front panel (WP 0028 00).
- Install the bottom cover (WP 0032 00).
- Install CCAs in the module (WP 0037 00).

CHAPTER 1
INTRODUCTORY INFORMATION
WITH
THEORY OF OPERATION

GENERAL INFORMATION

0001 00**SCOPE**

This manual contains the direct support maintenance instructions covering the operator interface unit (OIU), memory modules, and the thermal sight collimator for the Direct Support Electrical System Test Set (DSESTS). The manual tells you how to troubleshoot and repair the OIU, memory modules, and thermal sight collimator.

The manual also contains instructions for repairing the transfer standards adapter (TSA) which is a special tool used to verify calibration of DSESTS test resources.

Type of manual: Direct Support Maintenance

Equipment Name and Part Number: 12354501 OIU, 12309755 Memory Module (MI), 12309756 Memory Module (FVS), SM-D-969722/12951595 Thermal Sight Collimator, 12972150 Transfer Standards Adapter.

MAINTENANCE FORMS AND RECORDS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS). The DA PAM is published in the Maintenance Management UPDATE. Units may subscribe to Maintenance Management UPDATE by submitting a completed DA Form 12 to: Commander, USAAG Publications Center, ATTN: AGDM-OD, 2800 Eastern Boulevard, Baltimore, MD 21220-2896.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your test set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your test set. Let us know why you do not like the design or performance. Put it on a SF 368 (Product Quality Deficiency Report). Mail the SF 368 to us at: USA TACOM, ATTN: AMSRD-TAR-E/PQDR, 6501 E. 11 Mile Road, Warren, MI 48397-5000 (email: tacomdrs@tacom.army.mil or FAX: DSN 786-6637, Commercial (586) 574-6637. We will send you a reply.

CORROSION PREVENTION AND CONTROL

Corrosion prevention and control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problem with this item be reported so that the problem can be corrected and improvements can be made to prevent problems in the future.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Quality Deficiency Report. Use of key words such as corrosion, rust, deterioration, or cracking will assure that the information is identified as a CPC problem. The form should be submitted to: USA TACOM, ATTN: AMSRD-TAR-E/PQDR, 6501 E. 11 Mile Road, Warren, MI 48397-5000 (email: tacomdrs@tacom.army.mil or FAX: DSN 786-6637, Commercial (586) 574-6637.

DESTRUCTION OF EQUIPMENT TO PREVENT ENEMY USE

Procedures for destruction to prevent enemy use are given in TM 750-244-2, Procedures for Destruction of Electronics Materiel to Prevent Enemy Use. The test set does not contain self destructive devices. Mechanical destruction and destruction by the use of weapons fire, followed by burning, are recommended as the easiest and quickest methods.

PREPARATION FOR STORAGE OR SHIPMENT

To prepare the test equipment for storage or shipment, place the equipment in proper case assembly and secure case assembly covers.

GENERAL INFORMATION - CONTINUED**0001 00****WARRANTY INFORMATION**

For information on warranties in TACOM-RI contracts, see the section on the TACOM-RI Warranty Program in the latest issue of the Equipment Improvement Report and Maintenance Digest, which is published quarterly.

CALIBRATION

The thermal sight collimator requires calibration. TB 9-5855-1892-35 describes the calibration procedure.

LIST OF ABBREVIATIONS

This section provides a list of abbreviations which are used in this technical manual.

CCA	Circuit Card Assembly
DIAG	Diagonal
DSESTS	Direct Support Electrical System Test Set
DSPS	DSESTS Software Program Status
DSTA	DSESTS Shop Replaceable Unit Test Assembly
EIA	ECA Interface Assembly
EIR	Equipment Improvement Recommendation
ESD	Electrostatic Discharge
ESML	Expendable/Durable Supplies & Materials List
FSCM	Federal Supply Code for Manufacturers
FST	Functional Self Test
GPIA	General Purpose Interface Assembly
IDS	Intermediate Direct Support
IGS	Intermediate General Support
LRU	Line Replaceable Unit
MRT	Minimum Resolvable Temperature
MTF	Modulation Transfer Function
NSN	National Stock Number
OIU	Operator Interface Unit
OPTS	Off Platform Test System
PCM	Power Control Module
PMC	Power Monitor Controller
QTY	Quantity
RFI	Radio Frequency Interference
RPSTL	Repair Parts and Special Tools List
RTN	Return
SRU	Shop Replaceable Unit
TIS	Thermal Imaging System
TSA	Transfer Standards Adapter
UOC	Usable On Code
W/O	Without

SAFETY, CARE, AND HANDLING

Always power down test equipment before connecting or disconnecting power cables or removing or installing components. When connecting power cables, observe correct polarity, black to negative side, white to positive side, and green to chassis ground. Do not power up the OIU with any test cables connected to the OIU.

WARNING**ELECTRICAL SHOCK**

High voltage present, death on contact can result if proper handling procedure is not followed.

EQUIPMENT DESCRIPTION AND DATA**0002 00****EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

This section provides equipment description and data for the OIU, MI/FVS memory modules and thermal sight collimators. See the following manuals for description and data for the M1 and FVS equipment support group:

- OIU and GPIA Equipment Support Group - TM 9-4931-586-12-1&P
- M1 Equipment Support Group - TM 9-4931-586-12-2&P
- FVS Equipment Support Group - TM 9-4931-586-12-3&P
- TIS Equipment Support Group - TM 9-4931-586-12-4&P
- M1A2 Equipment Support Group - TM 9-4931-586-12-5&P
- TOW Equipment Support Group - TM 9-4931-586-12-6&P

OIU

The OIU is used with the M1/M1A1, FVS, and TIS DSESTS support equipment. It provides connector sites for the power source, memory module or DSTA, and the LRU under test. It also provides a display window for operator test messages.

MI/FVS Memory Modules

The memory module is used to store memory for all LRU testing. The M1 is for M1 LRU's and the FVS is for FVS LRU's.

Thermal Sight Collimator (P/N SM-D-969722) Functions (Figure 1)

The thermal collimator is used to provide a 58 inch focal length for thermal imaging system testing and alinement. The thermal sight collimator radiates infrared energy from the temperature controller assembly. The energy is reflected from a collimating mirror to present a collimated beam of infrared rays. These rays can be viewed with the thermal imaging system under test. The target source is placed near the focal point of the collimating mirror. The target source provides images of target patterns to the thermal imaging system. The focal length of the collimating mirror is 58 inches. The infrared energy from the target source is reflected from a folding mirror to the collimating mirror. The folding mirror is used to achieve the 58 inch focal length in a shorter actual length. The temperature controller assembly and target source assembly provide a controlled temperature differential between target source and ambient temperature. The temperature differential (4.5°C) is maintained by sensing the target source and ambient temperature then regulating the current through a heater. Input power of 115 vac and 0.5 ampere is applied through circuit breaker CB1. Transformer T1 steps the voltage down to 24 vac. The 24 vac is fullwave rectified by the temperature comparator to produce 24 vdc, causing POWER ON indicator DS2 to illuminate. Temperature sensor A2A1 monitors the temperature of the target and temperature sensor A2A2 monitors the ambient temperature. The voltage differential of the sensors is applied to the temperature comparator A1A1, which supplies heater current to A2R1. The temperature comparator provides heater A2R1 current as required to maintain a 4.5°C temperature differential.

Thermal Sight Collimator (P/N 12951545) Functions (Figure 2)

The thermal collimator is used to provide a calibrated infrared target source for thermal imaging system testing and alinement. The infrared target is produced by a heater located in the spindle and drum assembly. The infrared target energy is reflected by a folding mirror and a collimating mirror. The collimating mirror shapes the infrared energy into a collimated infrared beam. This beam is used as a target for testing thermal imaging system units. The focal length established by the use of the two mirrors is 58 inches. The temperature of the target source (heater) is controlled and monitored by the temperature controller assembly. The temperature at which the target (heater) is regulated is determined by temperature control switch S3. The temperature control switch may be set to the 1°C, 4.5 °C, or 10°C setting. For this description, the 4.5°C setting will be used. This means that the target (heater) temperature is maintained at 4.5°C above the ambient temperature. The temperature control assembly operates as follows: Input power of 115 vac and 0.5 ampere is applied through circuit breaker CB1. Transformer T1 steps the voltage down to 24 vac. The 24 vac is rectified by a fullwave rectifier located in the power supply CCA to produce operating voltage (24 vdc, +15 vdc, -15 vdc, -5.9 vdc, and +5 vdc) for the temperature controller assembly. The 24 vdc is used to illuminate POWER ON indicator DS1. A 24 volt heater drive pulse is also produced from the 24 vdc. If the bar target is

Thermal Sight Collimator (P/N 12951545) Functions (Figure 2) (Continued)

selected, the ambient temperature sensed by the bar target sensor is routed to the logic control CCA through sensitive switch S2, where it is compared with the temperature sensed by the target temperature sensor located near heater A2R1. If the heater temperature is not 4.5°C above that sensed by the bar target ambient temperature sensor, the logic control CCA provides a heater drive control pulse to the power supply CCA. This control pulse turns the heater drive circuit on and off applying a 24 vdc pulse to heater A2R1. The wider the pulse, the longer the time that current is flowing through the heater, causing the temperature of the heater to increase. Once the heater temperature reaches 4.5°C above the ambient temperature, the comparator output causes the heater drive pulse width to be reduced, thus, the heater temperature is regulated by increasing or decreasing the pulse width of the heater drive pulse. The ready indicator provides a visual indication that heater temperature has reached and is being regulated at the 4.5°C difference. The MRT target temperature is regulated at the 4.5°C difference. The MRT target temperature is regulated in the same manner, except that the heater temperature is compared with ambient temperature sensor A2A2 located near the MRT target.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**OIU (Figure 3)**

The OIU consists of the following:

- (1) Case assembly (1) - Contains electronics assembly (2).
- (2) Electronics assembly (2) - Provides connector sites for power source, three OIU cables, support equipment cables, and LRU's to be tested.
- (3) Storage module (3) - Stowage site for extender card (4).
- (4) Extender card (4) - Used for troubleshooting the OIU.
- (5) Storage module (5) - Stowage site for 10 FST adapters (6).
- (6) FST adapters (6) - Used to perform FST on OIU.
- (7) Cable compartment (7) - Stowage site for FST cables (8), memory cable (9), power cable (10), and test probe (11).

M1/FVS Memory Module (Figure 4)

The memory modules are located in equipment specific cable storage units.

Thermal Sight Collimator (Figure 5)

The thermal sight collimator consists of the following:

- (1) Container (1) - houses thermal sight collimator.
- (2) Shroud (2) - protects thermal sight collimator from temperature variations and air currents which could affect target temperature.
- (3) Collimator (3) - provides target thermal source and six target plates for thermal imaging system testing.
- (4) Power cable W1 (4) - connects thermal sight collimator to 115 vac, 50 to 60 Hz, single phase power source.
- (5) Communication cable (collimator P/N 12951545 only) (5) - not used.

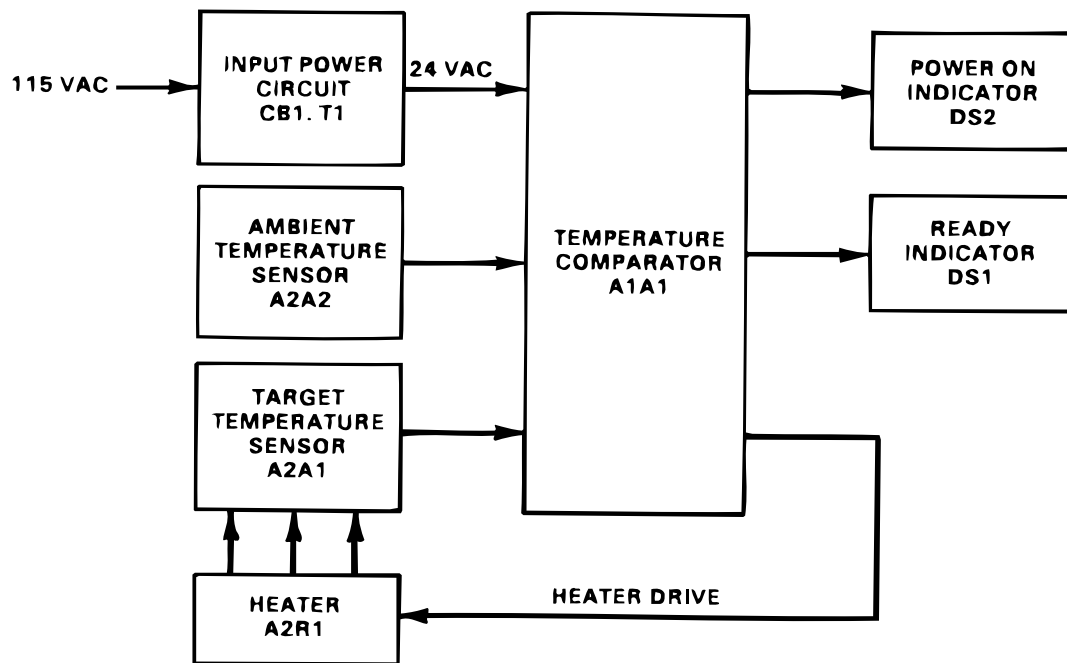
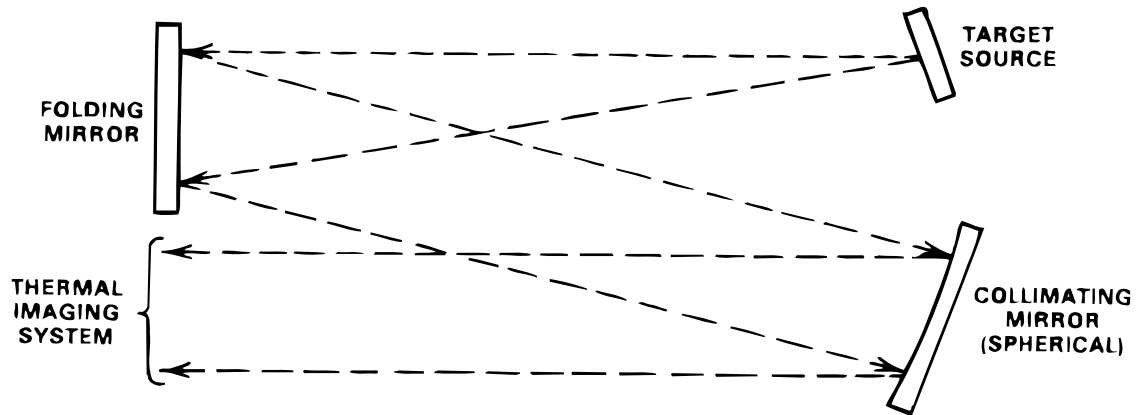


Figure 1. Thermal Sight Collimator (SM-D-969722) Functions

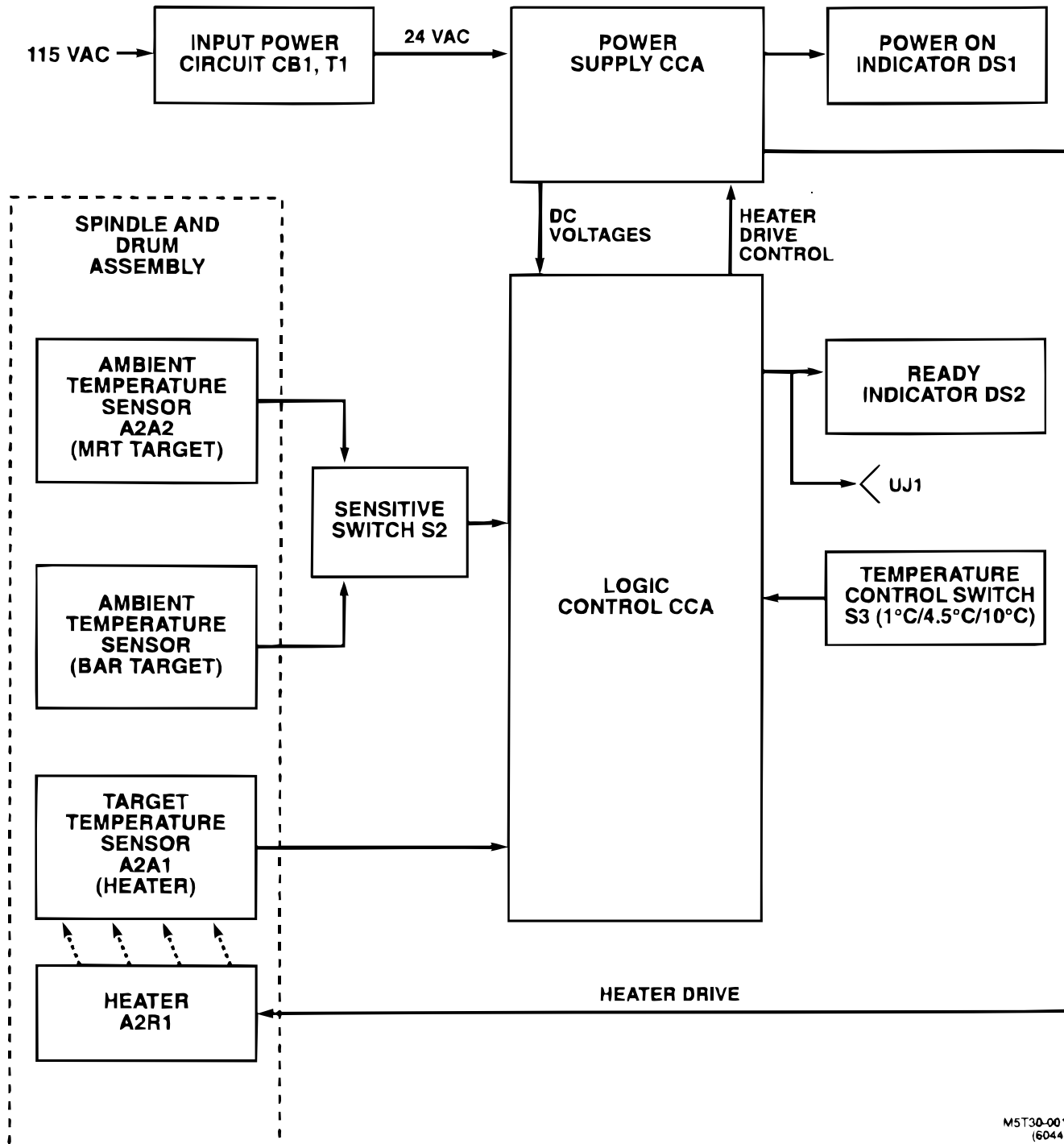


Figure 2. Thermal Sight Collimator (12951545) Functions

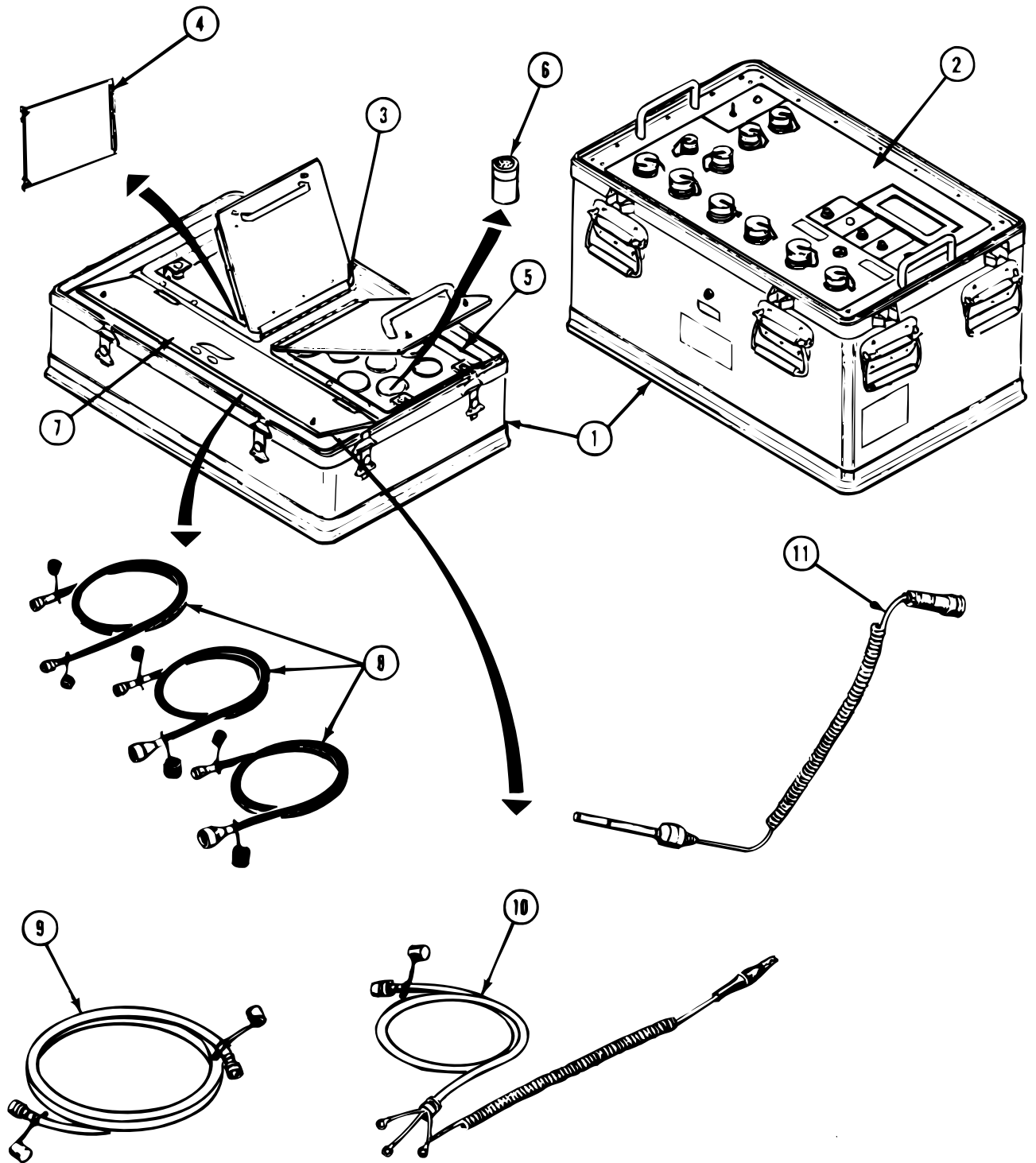
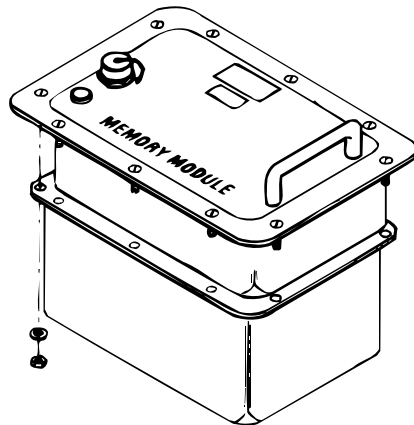
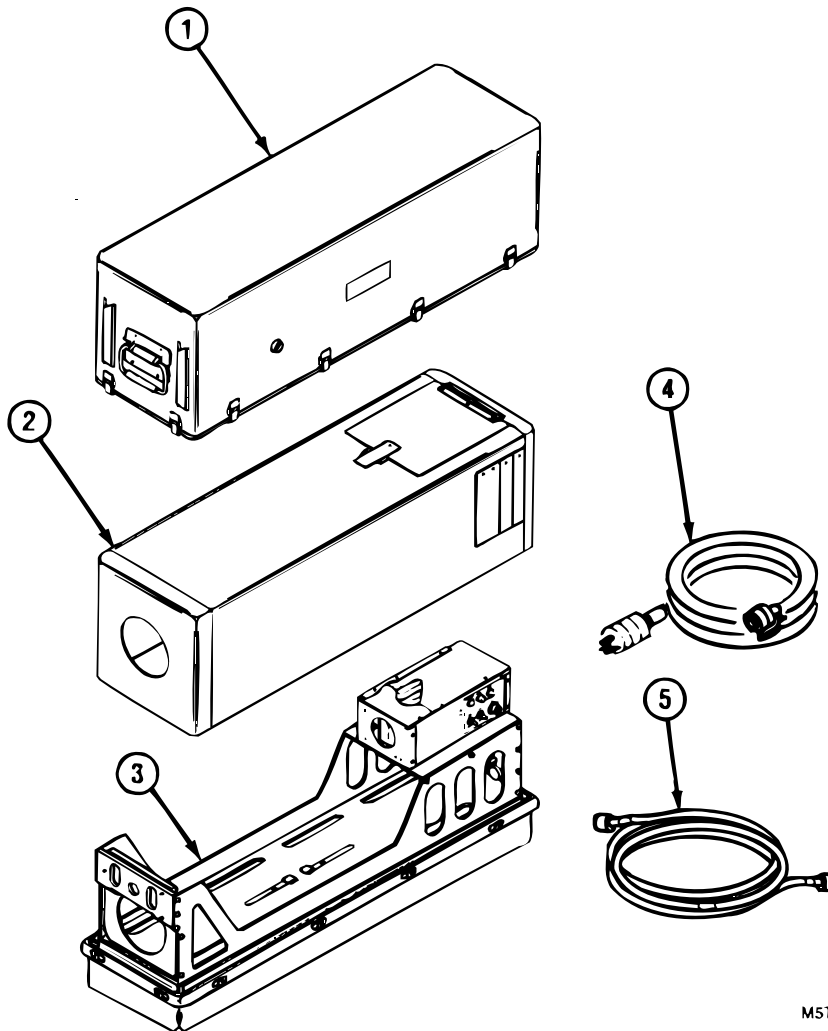


Figure 3. Operator Interface Unit



MST30-070
(6109)

Figure 4. M1/FVS Memory Module



MST30-069
(6110)

Figure 5. Thermal Sight Collimator

DIFFERENCES BETWEEN MODELS**OIU**

The front panel wire harness routing has been changed on 1984 and subsequent OIU production units. This change was made to help the repairer gain access for some difficult maintenance tasks. The newer units are wired in a manner that provides service loops in all wire bundles connected to the front panel. These service loops allow the front panel to separate from the OIU, providing access to all front panel mounted components. The newer units are easily identified by looking at the wire bundle between the display assembly and the power supply. The modified units have a large wire bundle running between the display and power supply across the top of the power supply. Refer to Figure 6 for identification of the modified OIU's with the front panel removal capacity. Work Package WP 0092 00 is the maintenance task that has to be performed to gain access to the front panel mounted components. Each electronics assembly maintenance task that can be improved by removing the front panel is identified on the task page under preliminary procedures.

THERMAL SIGHT COLLIMATOR

There are two different part numbers associated with the thermal sight collimator. Part number SM-D-969722 is associated with the older version of collimator. The newer collimator is part number 12951545. There are also different versions of thermal sight collimator SM-D-969722.

Thermal sight collimator 12951545 (Figure 7). The visible lamps and diagonal target were eliminated altogether. The sensitive switch has been relocated onto a new bracket located between the spindle and drum assembly and transformer T1. New features include: connector UJ1 which provides the capability for DSESTS to monitor collimator status; temperature control switch S3, which provides a selectable 1°C, 4.5°C, or 10°C temperature difference between ambient temperature and target (heater) temperature; extensive redesign of the temperature control circuitry; and a new wiring harness.

Thermal sight collimator SM-D-969722. There are two major differences between the older and newer versions of thermal sight collimator SM-D-969722.

Visible lamps (Figure 8). The visible lamps are detrimental to the performance of some thermal imaging system tests using the thermal target. Therefore, the lamps have been removed from some older thermal sight collimators. On later production units, a sensitive switch and actuating cam have been added to control illumination of the lamps. Lamps are only illuminated when the thermal target is not in use. There is no reason to remove lamps from these later production units. Because of the sensitive switch, the wiring harness differs between the older and new version thermal sight collimator.

Diagonal and X targets (Figure 9). Older version thermal sight collimators are equipped with a diagonal target while newer units have the X target. Either target is acceptable for thermal imaging system testing. However, the two targets are not interchangeable because the drum inside of temperature controller assembly is indented to accept either the diagonal or the X target. If the diagonal target must be changed to an X target, the complete spindle and drum assembly must be changed.

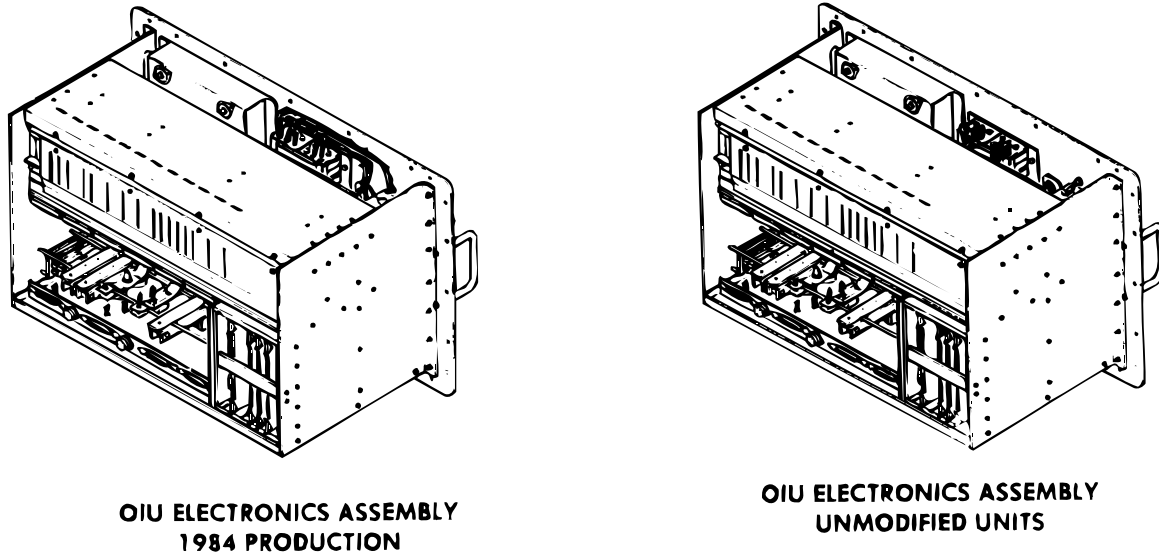


Figure 6. Identification of 1984 OIU Production Units

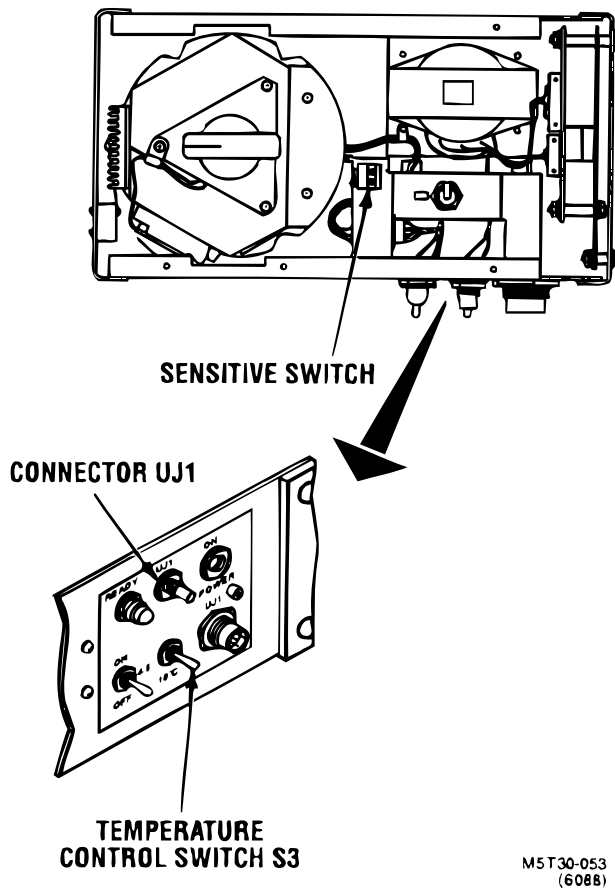


Figure 7. Temperature Controller Assembly

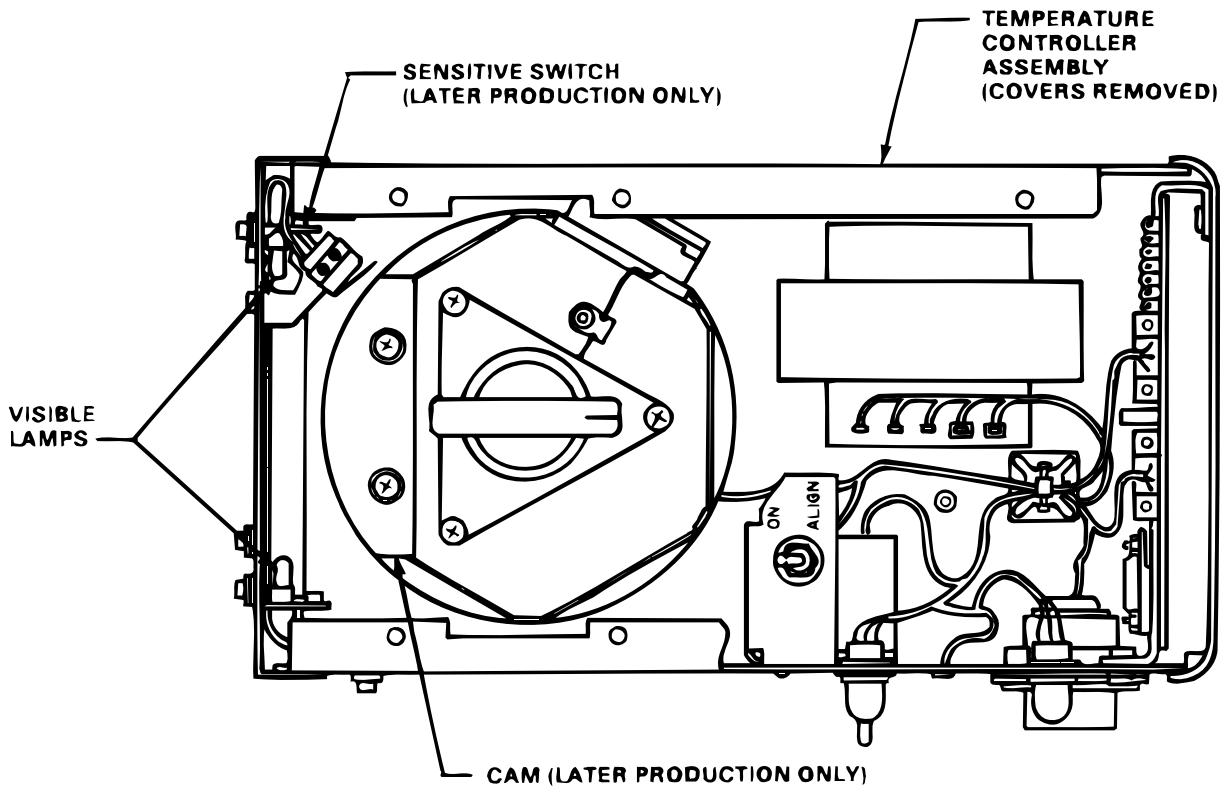
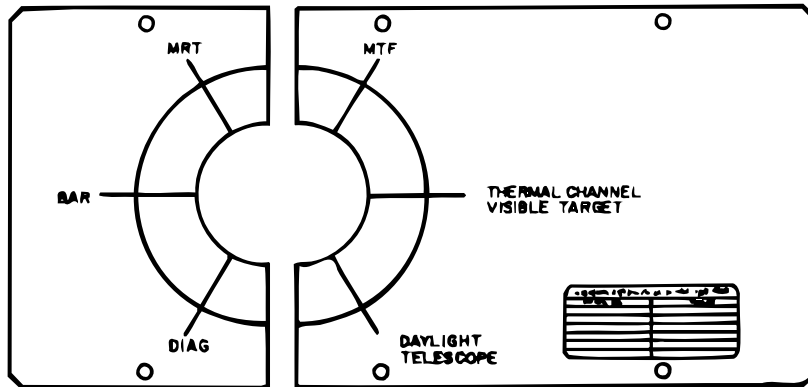
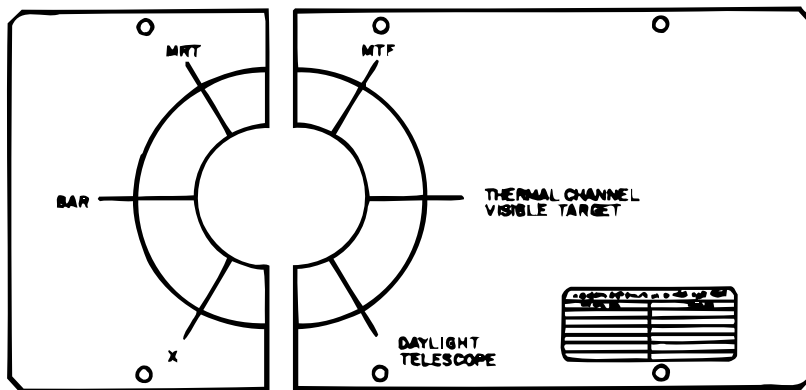


Figure 8. Visible Lamps, Sensitive Switch and Cam



DIAGONAL TARGET COVER MARKINGS



X TARGET COVER MARKINGS

Figure 9. Temperature Controller Cover with Diagonal or X Target

EQUIPMENT DESCRIPTION AND DATA- CONTINUED

0002 00

EQUIPMENT DATA

Operating Characteristics

OIU Power Input	Variable, 0 to 40 vdc regulated, 50 amperes
OIU Display	3 lines, 20 characters per line
Thermal Sight Collimator Power Input	115 vac, 50 to 60 Hz, single phase

Environmental Characteristics

Operating Temperature Range	32 to 131°F (0 to 55°C)
Storage Temperature Range	-80 to 185°F (-62 to 85°C)

Physical Data

OIU

Length	26.50 inches (67.31 cm)
Width	18 inches (45.72 cm)
Height	20.50 inches (52.07 cm)
Weight	145 pounds (65.77 kg)

Thermal Sight Collimator

Length	38 inches (96.52 cm)
Width	16.50 inches (41.91 cm)
Height	10.50 inches (26.67 cm)
Volume	3.85 cu feet (0.11 m ³)
Weight	63.25 pounds (28.72 kg)

OIU Power Cable, Memory Cable and Test Probe

M1/FVS Power Cable PWR-W1

Length: 86 inches
 Test set connector: DSESTS UJ1, 4 contacts
 Power supply connections:
 1. White wire with terminal lug, positive
 2. Black wire with thermal lug, negative
 3. Green wire with terminal lug, ground
 Unit under test connection: Ground wire crocodile clip.

MEM Test Cable MEM-W60

Length: 73 inches
 Test connectors:
 1. OIU UJ3, 26 contacts
 2. Memory Module J1, 26 contacts

Test Probe TPC-W50

Length: 63 inches
 Test set connectors:
 1. OIU UJ2, 37 contacts
 2. EIA TJ1, 37 contacts

OIU FST Test Cables and Test Plugs

OIU FST Test Plug FST-TJ10	Connector and backshell, 61 contacts
OIU FST Test Plug FST-TJ4	Connector and backshell 61 contacts
OIU FST Test Plug FST-TJ5-1	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ5-2	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ6	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ7-1	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ7-2	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ8	Connector and backshell, 128 contacts
OIU FST Test Plug FST-TJ9-1	Connector and backshell, 100 contacts
OIU FST Test Plug FST-TJ9-2	Connector and backshell, 100 contacts
OIU FST Test Cable FST-W86	Length: 60 inches Connector J1, 26 contacts Connector UJ2, 37 contacts
OIU FST Test Cable FST-W87	Length: 18 inches Connector TJ4, 61 contacts Connector TJ6, 128 contacts
OIU FST Test Cable FST-W88	Length: 24 inches Connector TJ8, 128 contacts Connector TJ10, 61 contacts

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) CTA 50-970, Expendable/Durable Items (Except: Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8- 100, Army Medical Department Expendable/Durable Items, as applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

All special tools required are listed in the Repair Parts and Special Tools List (RPSTL) in WP 0207 00. TMDE items required are listed in the Maintenance Allocation Chart (MAC) in TM 9-4931-586-12-1&P.

REPAIR PARTS

Repair parts are listed and illustrated in supporting information work packages WP 0173 00 thru WP 0209 00 of this manual.

CHAPTER 2
TROUBLESHOOTING PROCEDURES

TROUBLESHOOTING INTRODUCTION - CONTINUED

SCOPE**0004 00**

This section contains troubleshooting information that will help you find out why the OIU or thermal sight collimator is not working properly. Problems may be found during PMCS or by the operator during test set operation. The troubleshooting procedures contained in this section are authorized for direct support level maintenance. Unit level troubleshooting procedures for the OIU are contained in TM 9-4931-586-12-1&P.

TROUBLESHOOTING APPROACH**Functional Self Test (FST) Fault Message Diagnosis**

The FST is composed of the following four parts:

- Testing internal OIU functions without the use of any external adapters or cables.
- Testing internal OIU functions using the first set of adapters (TJ4, TJ5-1, TJ6, TJ7-1, TJ8, TJ9-1 and TJ10).
- Testing internal OIU functions and test probe TCP-W50 using the second set of adapters and cables (TJ5-2, TJ7-2, TJ9-2, FST-W87 and FST-W88).
- Testing connectors UJ2 and UJ3 and circuit card assemblies A5, A34, and A38 using cables FST-W86 and MEM-W60 to download.

Fault Symptom Index

When a fault occurs in the OIU during PMCS or normal test equipment operation, perform the checkout procedure in WP 0040 00. The checkout procedure will identify most faults and will refer you to the fault symptom index for follow-on troubleshooting authorized at the direct support level. If the thermal sight collimator is suspected, perform WP 0030 00 or WP 0032 00.

Troubleshooting Procedures**NOTE**

The automatic "RERUN TEST?" option at the end of each test has been eliminated. The "RERUN TEST?" message will no longer appear on screen.

Work packages WP 0006 00 thru WP 0032 00 contain the individual troubleshooting procedures. There is one procedure for each symptom listed in the fault symptom index. The troubleshooting procedures take you through the fault isolation process in a step-by-step manner. The procedures are arranged as blocks of instructions followed by a YES/NO question. A typical troubleshooting block will first direct you to perform an action (e.g., replacing a circuit card or making a resistance measurement) and then ask a question about the observed results of your action. You follow through the sequence of blocks until you have isolated the faulty component and returned the equipment item to full serviceability. When necessary, the troubleshooting procedure will refer you to the appropriate work package to replace a faulty part or to perform wiring continuity checks (see following paragraphs).

TROUBLESHOOTING SUPPORT DATA

This manual includes several types of troubleshooting support data to aid in fault isolation and verification of repairs. The different types of support data are described below.

Test Set and Pin Face Diagrams (WP 0033 00)

To assist in locating cable/adaptor pins for continuity checks, diagrams of connector pin faces are provided.

TROUBLESHOOTING SUPPORT DATA (Continued)**Cable, Adapter, OIU and Collimator Wire Lists (WP 0034 00 thru WP 0039 00)**

To aid in fault isolation and verification of wiring repairs, wire lists are provided for each cable, adapter, OIU, and collimator.

Foldouts (WP 0004 00, Figures 1 thru 9)

To aid in the location and identification of parts and connector pins, nine foldout illustrations are provided at the rear of the manual. These nine are:

Operator Interface Unit Component Locations (Figure 1)

OIU Power Input Wiring Diagram (Figure 2)

Load Plate Assembly Wiring Diagram (Figure 3)

Memory Module Wiring Diagram (Figure 4)

Circuit Card and Backplane Connector Locations (Figure 5)

OIU Backplane Power Distribution (Figure 6)

Temperature Controller Assembly (Collimator SM-D-969722) Schematic Diagram (Without Sensitive Switch)
(Figure 7)

Temperature Controller Assembly (Collimator SM-D-969722) Schematic Diagram (With Sensitive Switch)
(Figure 8)

Temperature Controller Assembly (Collimator 12951545) Schematic Diagram (Figure 9)

SCOPE

This work package provides a troubleshooting fault symptom index for the OIU, memory module and thermal sight collimator. When a failure occurs during equipment operation, find the observed fault symptom in the left hand column of Table 1 and then perform the troubleshooting procedure listed in the right hand column.

Table 1. Fault Symptom Index

	Symptom	TS Procedure Work Package No.
1.	No power to OIU with ON/OFF circuit breaker ON (All lamps off, display dark or scrambled, display unreadable).	WP 0006 00
2.	OIU ON/OFF circuit breaker trips when power is applied and ON/OFF circuit breaker is set to ON.	WP 0007 00
3.	Display still reads - SELF TEST?- after pressing YES pushbutton.	WP 0008 00
4.	Self test fail lamp is ON and display reads one of the messages in Table 1.	WP 0009 00
5.	Display reads - SELF TEST FAILURE	WP 0009 01-1
6.	Display reads - REPLACE A24	WP 0009 02-1
7.	Display reads - TEST S2 BEFORE REPLACING DISPLAY.	WP 0010 00
8.	Display reads - TEST S3 BEFORE REPLACING DISPLAY.	WP 0011 00
9.	Display reads - TEST S1 BEFORE REPLACING DISPLAY.	WP 0012 00
10.	Display is dark or unreadable when power is applied to OIU.	WP 0013 00
11.	Power lamp OFF with OIU ON/OFF circuit breaker ON. Display lit.	WP 0014 00
12.	Display continuously reads - SELF TEST IN PROGRESS.	WP 0015 00
13.	Suspected OIU wiring fault.	WP 0016 00
14.	OIU fails part one of the Functional Self Test, no FST adapters or FST cables connected to OIU.	WP 0017 00

Table 1. Fault Symptom Index (Continued)

	Symptom	TS Procedure Work Package No.
15.	OIU fails part two of Functional Self Test, FST adapters TJ4, TJ5-1, TJ6, TJ7-1, TJ-8, TJ9-1, and TJ10 connected to OIU.	WP 0018 00
16.	OIU fails part three of Functional Self Test, FST adapters TJ5-2, TJ7-2, TJ9-2, and FST cables W87 and W88 connected to OIU.	WP 0019 00
17.	OIU fails part four of Functional Self Test, memory module connected to OIU.	WP 0020 00
18.	OIU fails Functional Self Test and display reads - FAULTY HARNESS.	WP 0021 00
19.	OIU cooling fan not running with ON/OFF circuit breaker ON.	WP 0022 00
20.	Probe found faulty during Functional Self Test or LRU testing.	WP 0023 00
21.	Display reads- WARNING TEMP LIMITS EXCEEDED XXX.X DEGS F.	WP 0024 00
22.	OIU fails LRU test download and display reads- FAULTY MEMORY MODULE A1*AX.	WP 0025 00
23.	OIU fails Functional Self Test and display reads - FAULTY UNIT INPUT OVERLOAD GEN 100.	WP 0026 00
24.	Display goes blank when ground clip is connected to LRU, or OIU ON/OFF circuit breaker trips when ground clip is connected to LRU or OIU fails functional self test and display reads - FAULTY DSESTS POWER DISTRIBUTION.	WP 0027 00
25.	Display reads -WARNING FAULTY FAN* A38*A10 GEN 200.	WP 0028 00

Table 1. Fault Symptom Index (Continued)

	Symptom	TS Procedure Work Package No.
26.	Display reads - ADJ VOLTS TO 18-30V VOLTS IS 0.0000 PUSH YES WHEN OK.	WP 0029 00
27.	Suspected faulty thermal sight collimator P/N SM-D-969722.	WP 0030 00
28.	During OIU FST or LRU test display changes to- OIU DSPTS XX.X SELF TEST IN PROGRESS.	WP 0031 00
29.	Suspected faulty thermal sight collimator P/N 12951545.	WP 0032 00

SYMPTOM

NO POWER TO OIU WITH ON/OFF CIRCUIT BREAKER ON (ALL LAMPS OFF, DISPLAY DARK OR SCRAMBLED, DISPLAY UNREADABLE).

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

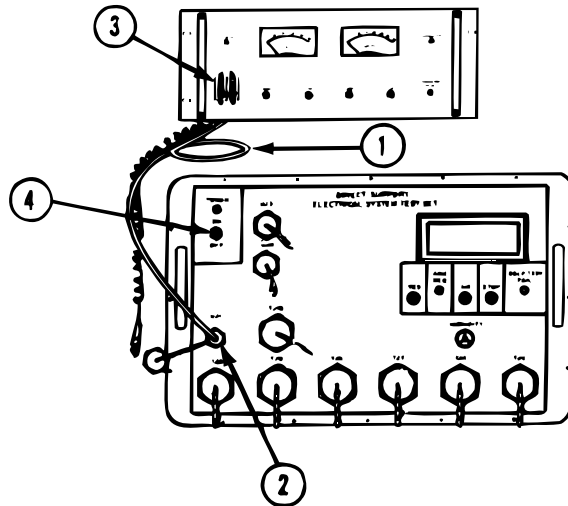
CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.



- 1
- Preliminary checks:
 - Check that power cable PWR-W1 (1) connector P1 is plugged into OIU connector UJ1 (2). Make sure connector is tight.
 - Check that power cable lugs are tight in power supply terminals. Refer to WP 0033 00 for proper connections.
 - Check that power supply ON/OFF switch (3) is ON.
 - Check that ON/OFF circuit breaker (4) is set to ON.

- 2
- Set OIU ON/OFF circuit breaker (4) to OFF.
 - Set power supply ON/OFF switch (3) to OFF.
 - Remove the OIU electronics assembly.
 - Refer to WP 0044 00.
 - Connect cable PWR-W1 (1) plug P1 to OIU connector UJ1 (2).

- 3
- Set power supply ON/OFF switch (3) to ON.
 - Set OIU ON/OFF circuit breaker (4) to ON.
 - Look at OIU cooling fan.

Is cooling fan running?

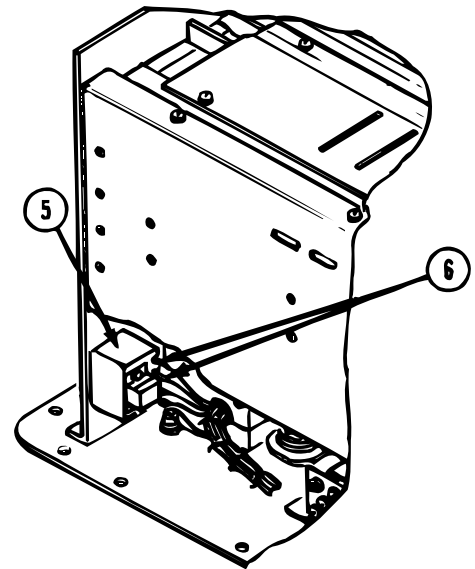
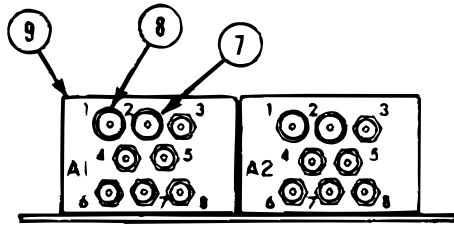
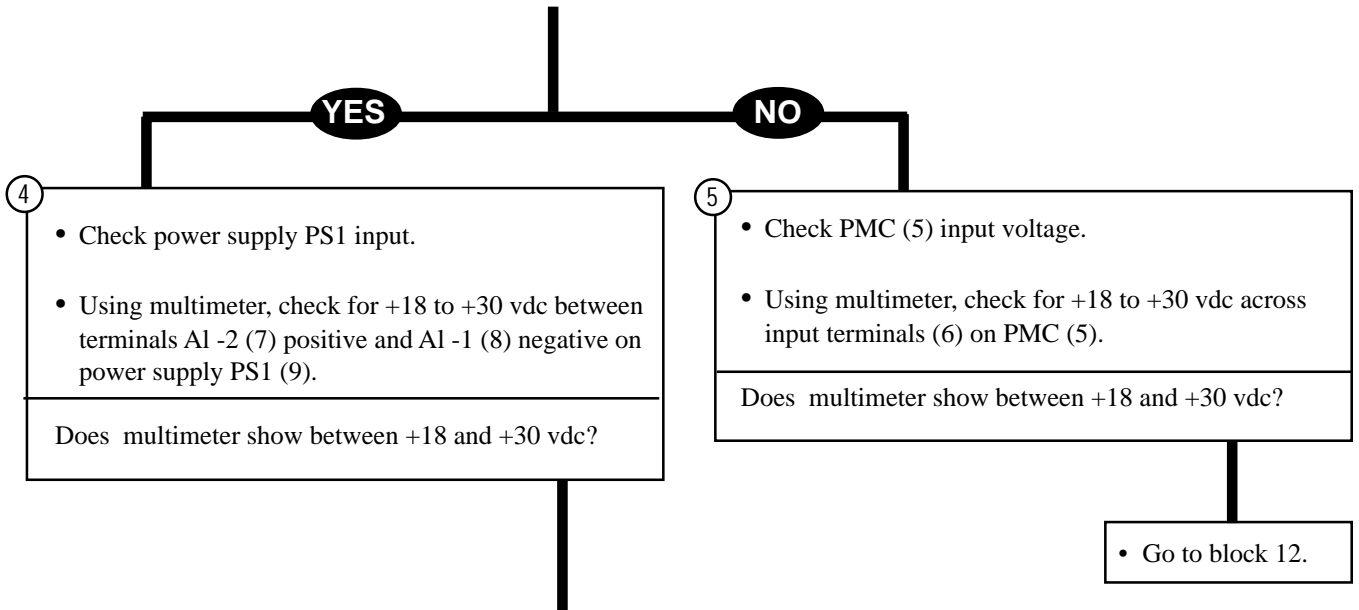
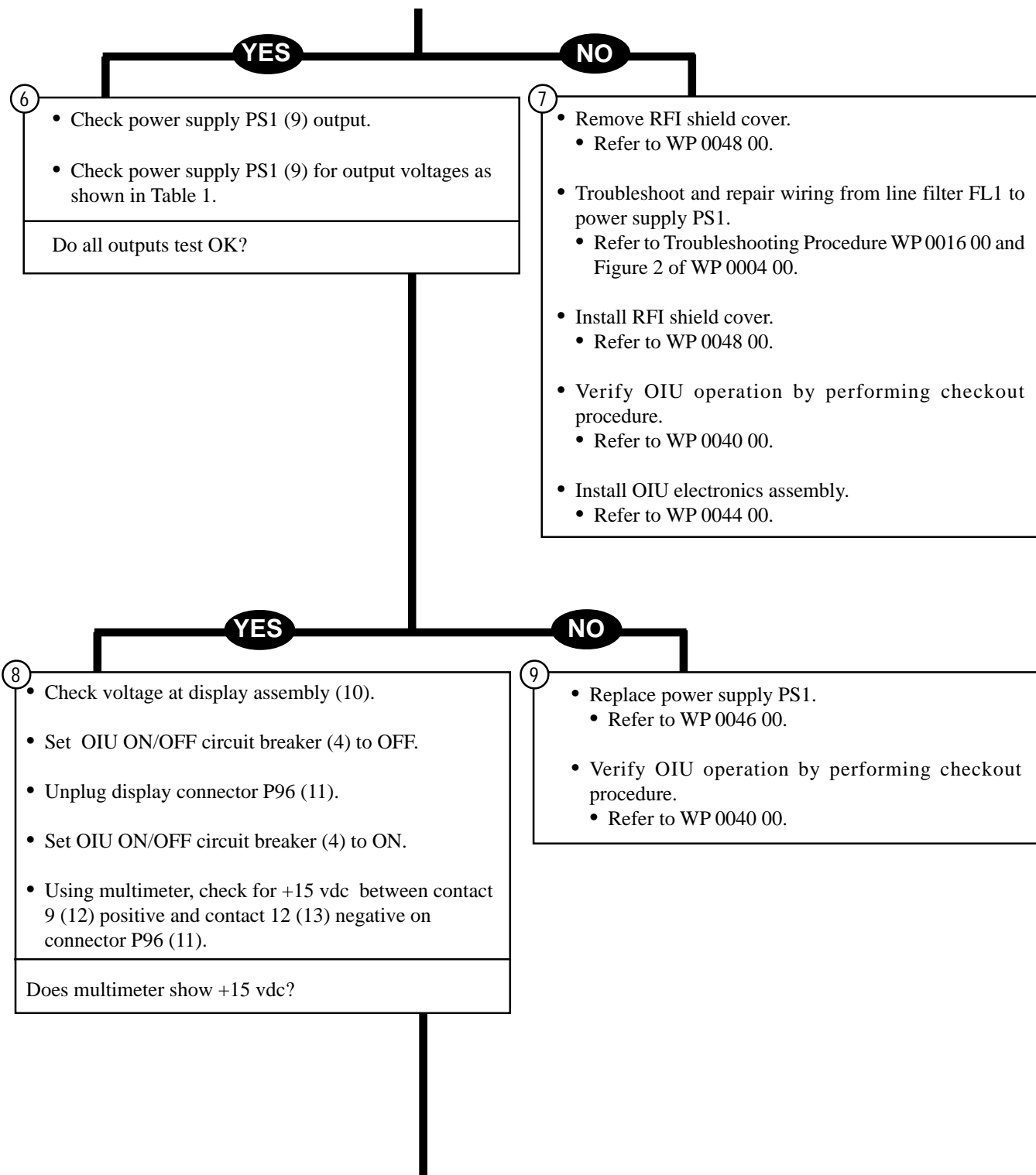
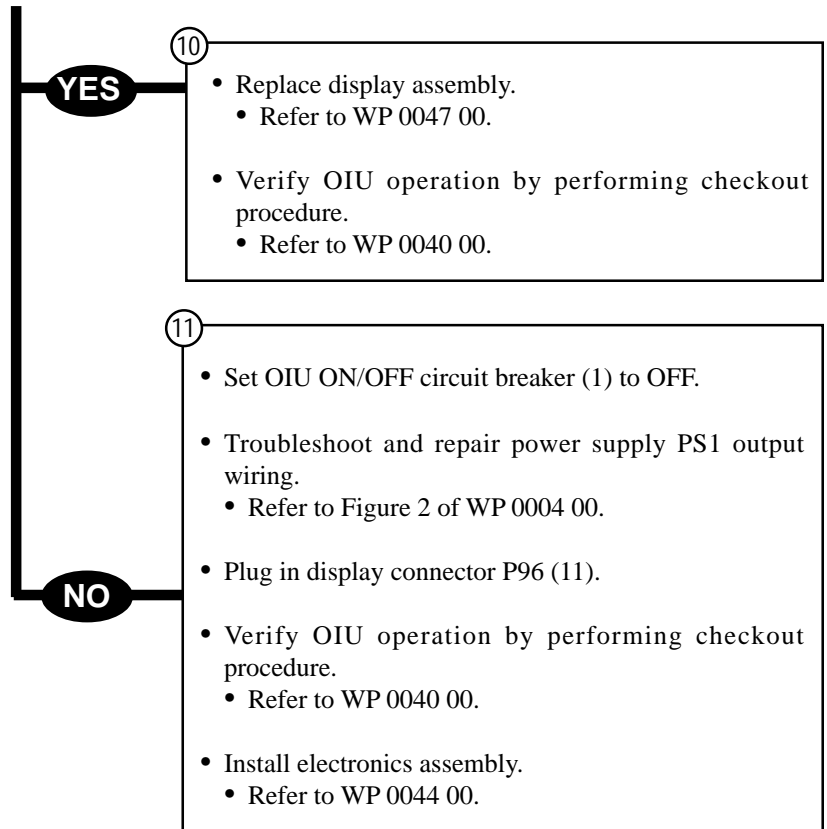
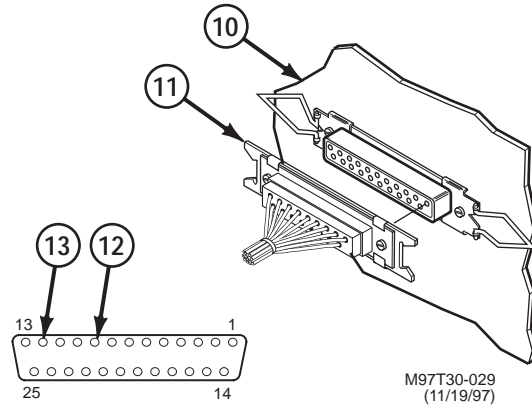
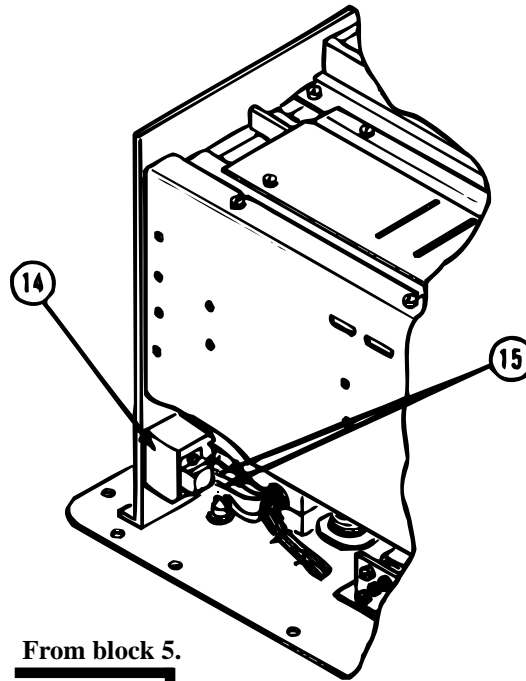


Table 1.

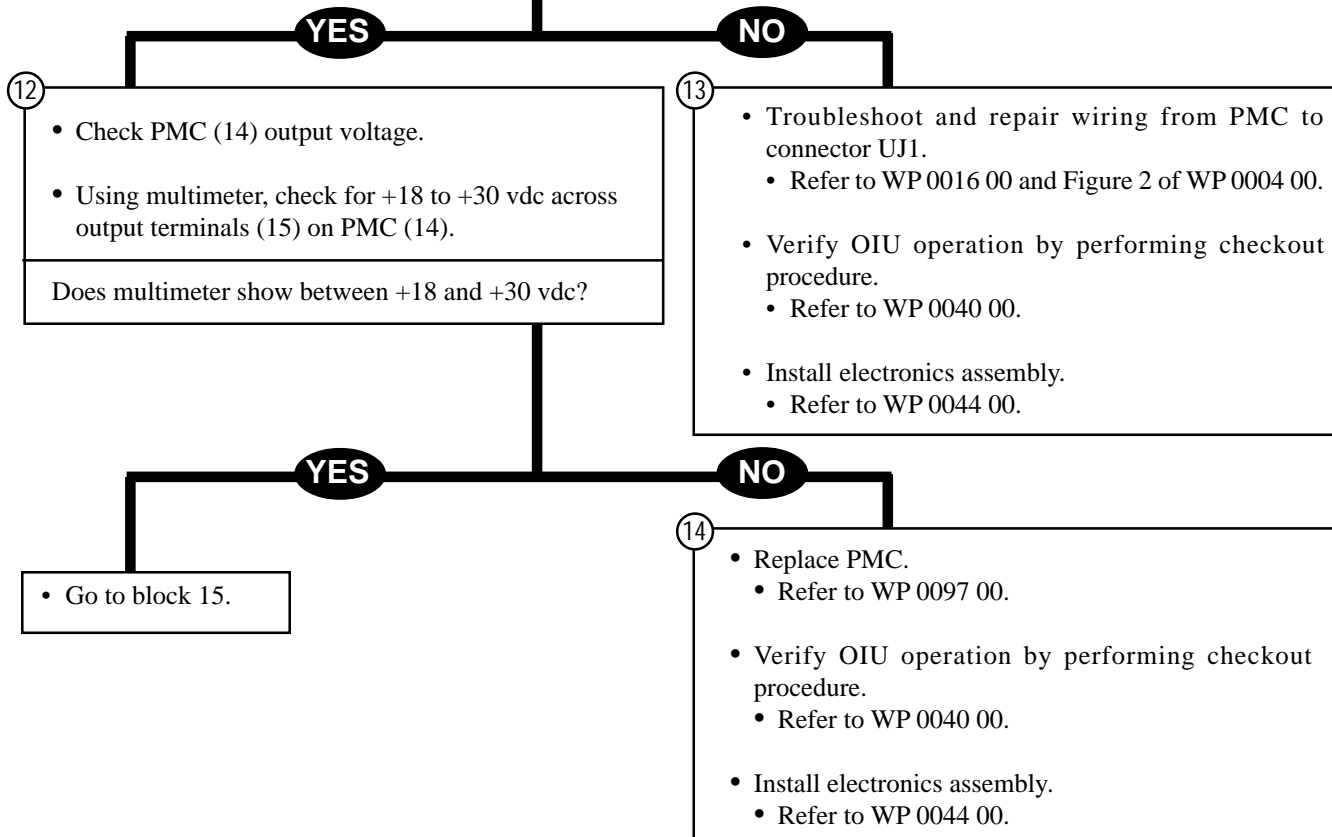
Terminal to Terminal		Voltage (vdc)
A2-7 (+)	A2-6 (-)	+14.5 to +16 vdc
A2-3 (-)	A2-6 (+)	+14.5 to +16 vdc
A2-4 (+)	A2-5 (-)	+14.5 to +16 vdc
A1-3 (+)	A1-4 (-)	+ 4.5 to +5.5 vdc







From block 5.

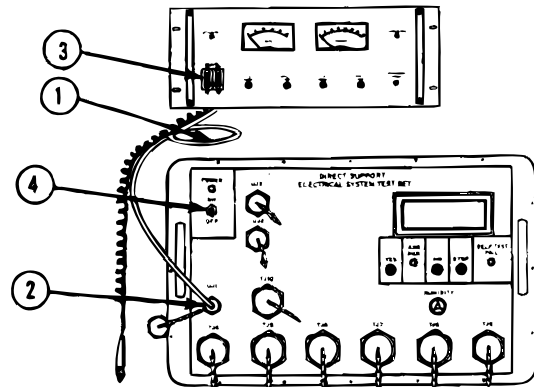


TROUBLESHOOTING PROCEDURE - CONTINUED

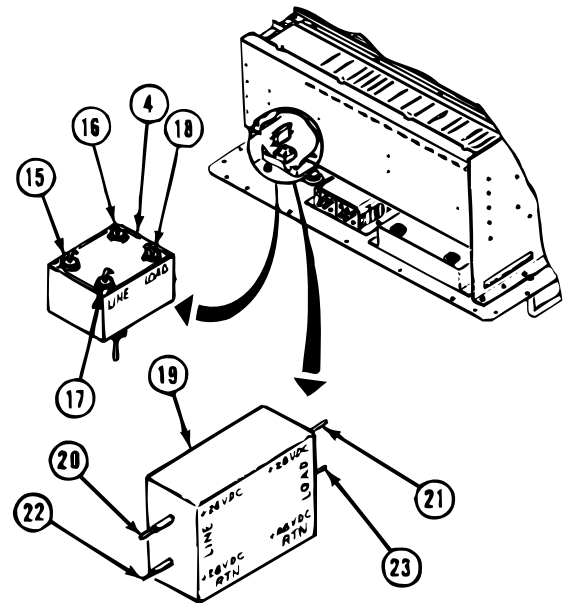
0006 00

From block 12.

- 15
- Set OIU ON/OFF circuit breaker (4) to OFF.
 - Set power supply ON/OFF switch (3) to OFF.
 - Unplug cable PWR-W1 (1) plug P1 from OIU connector UJ1 (2).
 - Remove RFI shield cover.
 - Refer to WP 0048 00.



- 16
- Check continuity across LINE and LOAD terminals of ON/OFF circuit breaker (4).
 - Set ON/OFF circuit breaker (4) to ON.
 - Using multimeter, check continuity from LINE terminal (15) to LOAD terminal (16) of ON/OFF circuit breaker (4).
 - Using multimeter, check continuity from LINE terminal (17) to LOAD terminal (18) of ON/OFF circuit breaker (4).

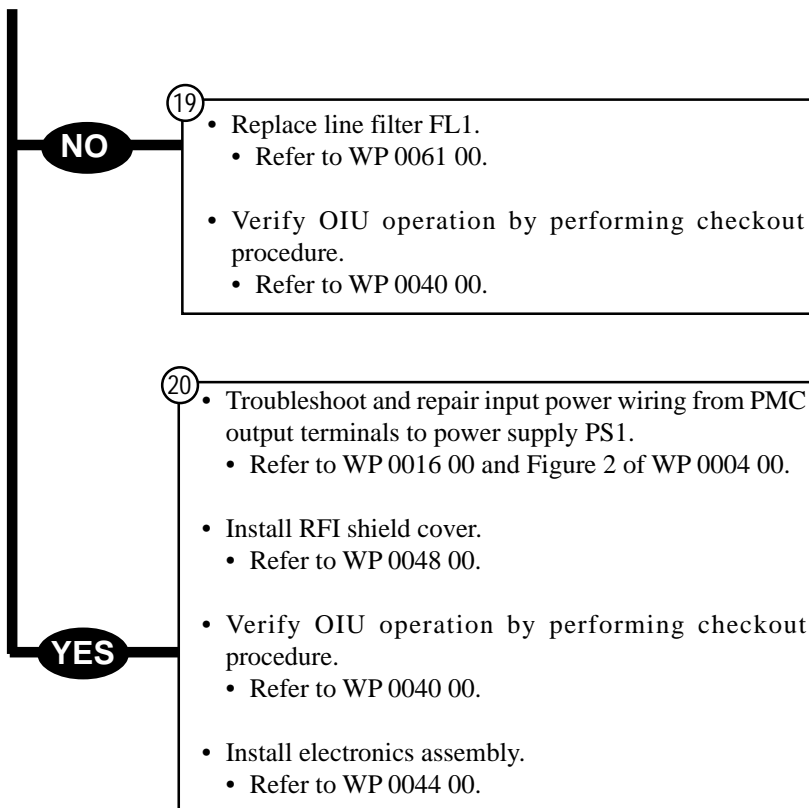


Does multimeter show continuity across both poles of ON/OFF circuit breaker?

- YES
- 17
- Check continuity across LINE and LOAD terminals of line filter (19).
 - Using multimeter, check continuity from +28 VDC LINE terminal (20) to +28 VDC LOAD terminal (21).
 - Using multimeter, check continuity from 28 VDC RTN LINE terminal (22) to 28 VDC RTN LOAD terminal (23).

- NO
- 18
- Replace ON/OFF circuit breaker (4).
 - Refer to WP 0059 00.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

Does multimeter show continuity for both measurements?



SYMPTOM

OIU ON/OFF CIRCUIT BREAKER TRIPS WHEN POWER IS APPLIED AND ON/OFF CIRCUIT BREAKER IS SET TO ON.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

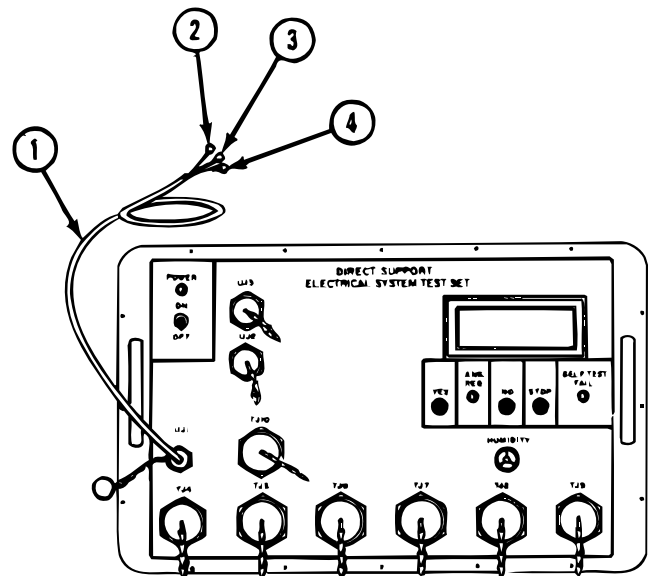
Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

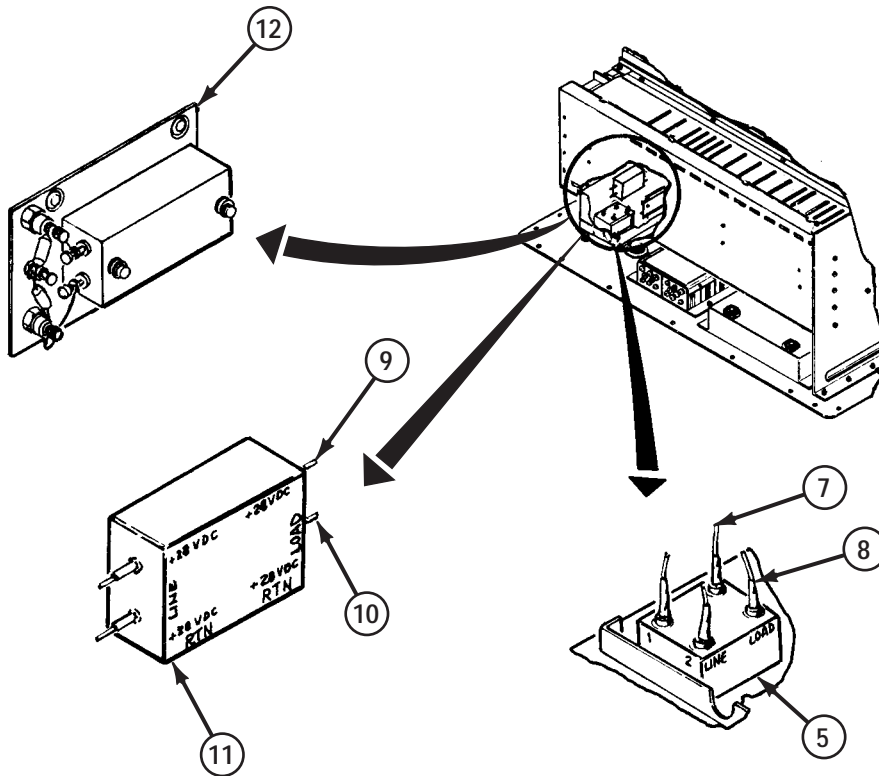
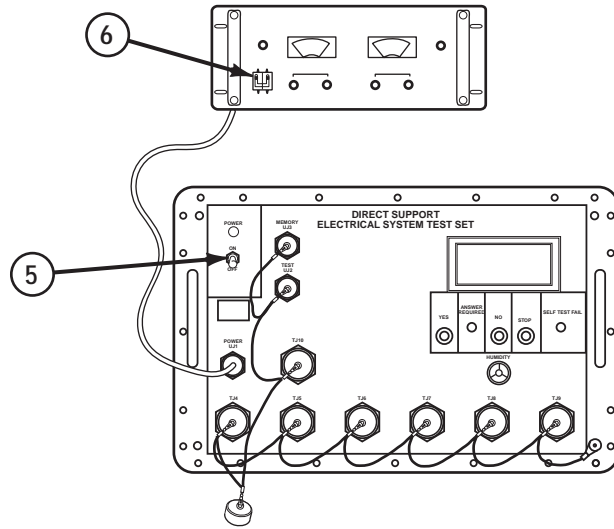
For location of parts, see Figure 1 of WP 0004 00. For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

①

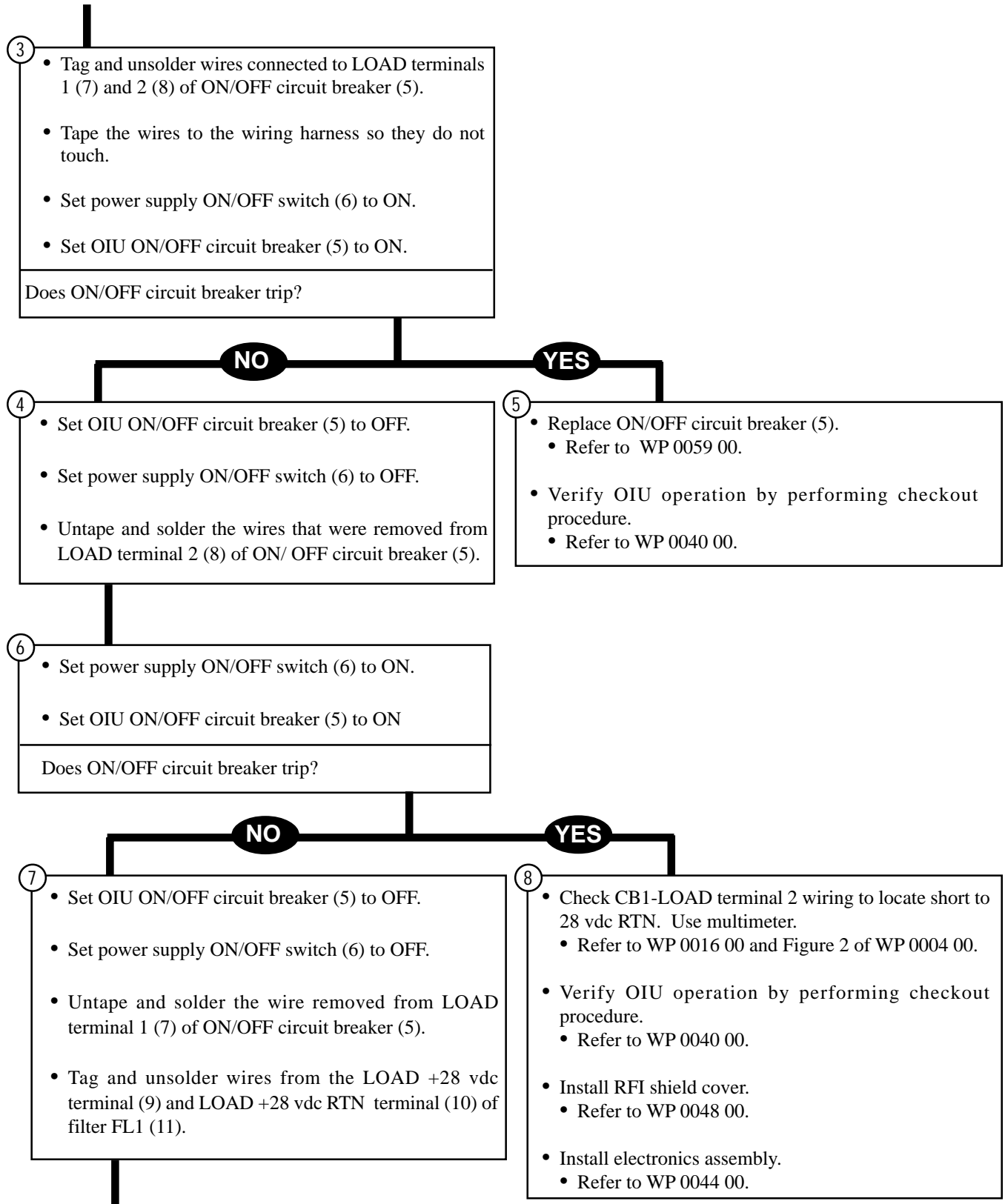
- Preliminary checks:
- Connect cable PWR-W1 (1) leads to power supply output terminals as follows:
 - White lead (2) to positive terminal on power supply.
 - Black lead (3) to negative terminal on power supply.
 - Green lead (4) to ground terminal (power supply chassis).

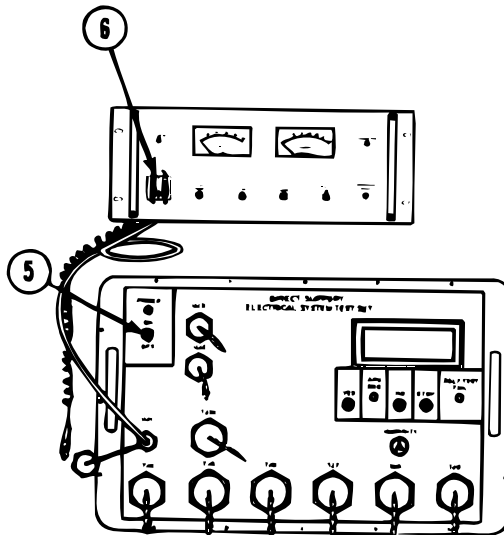
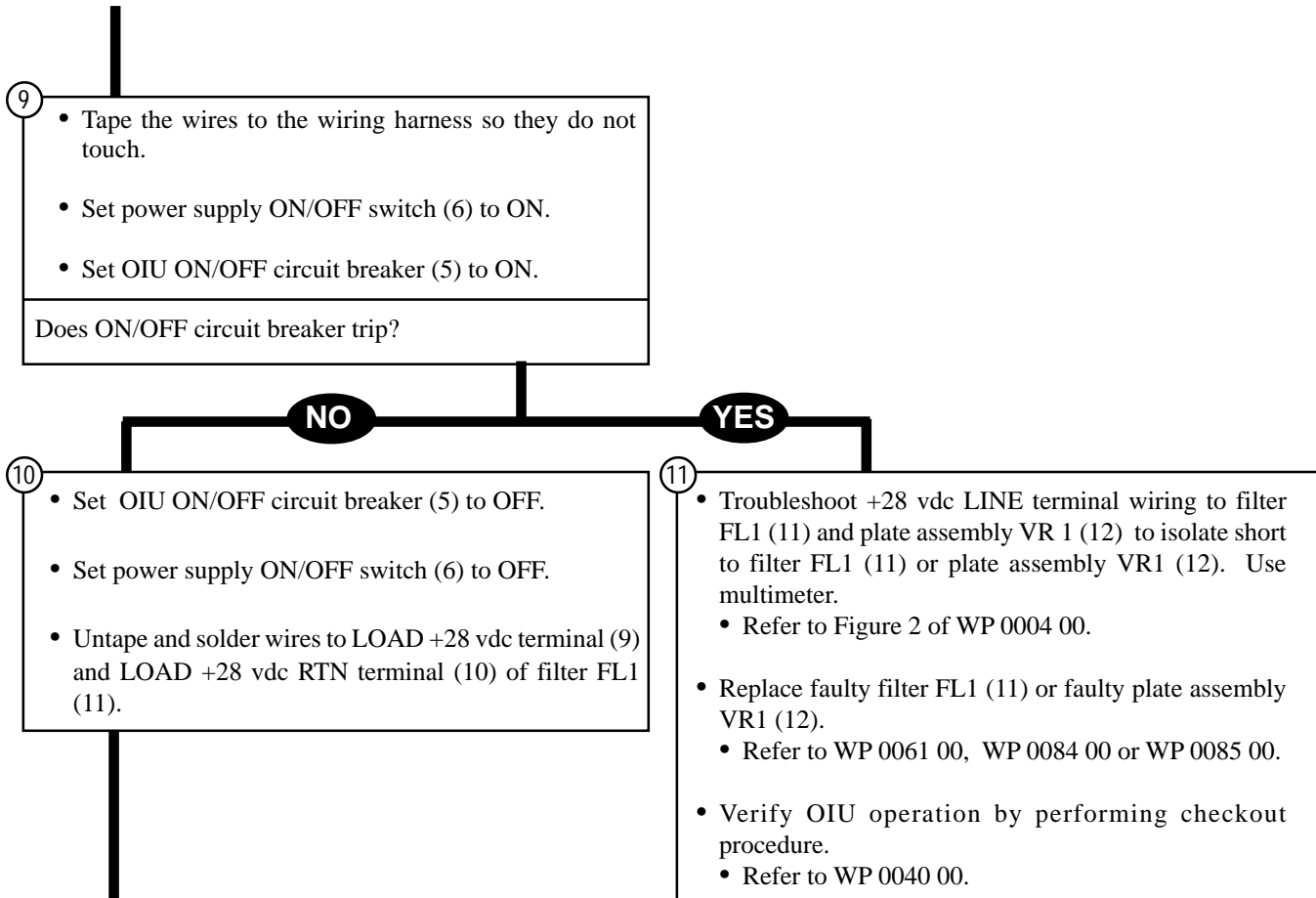


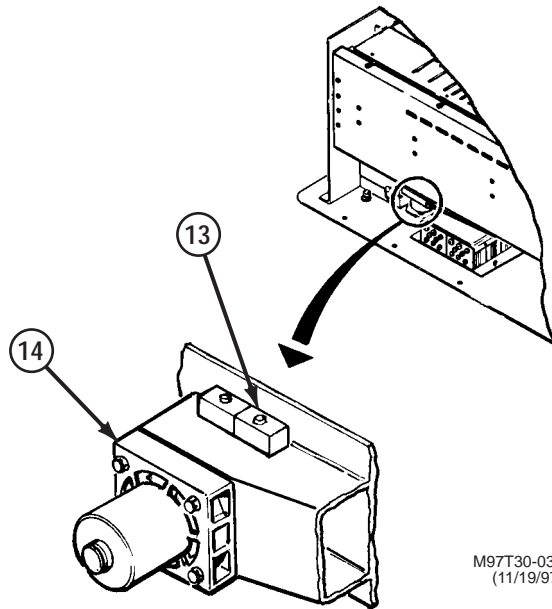
- 2
- Set OIU ON/OFF circuit breaker (5) to OFF.
 - Set power supply ON/OFF switch (6) to OFF.
 - Remove electronics assembly from case.
 - Refer to WP 0044 00.
 - Remove RFI shield cover.
 - Refer to WP 0048 00.



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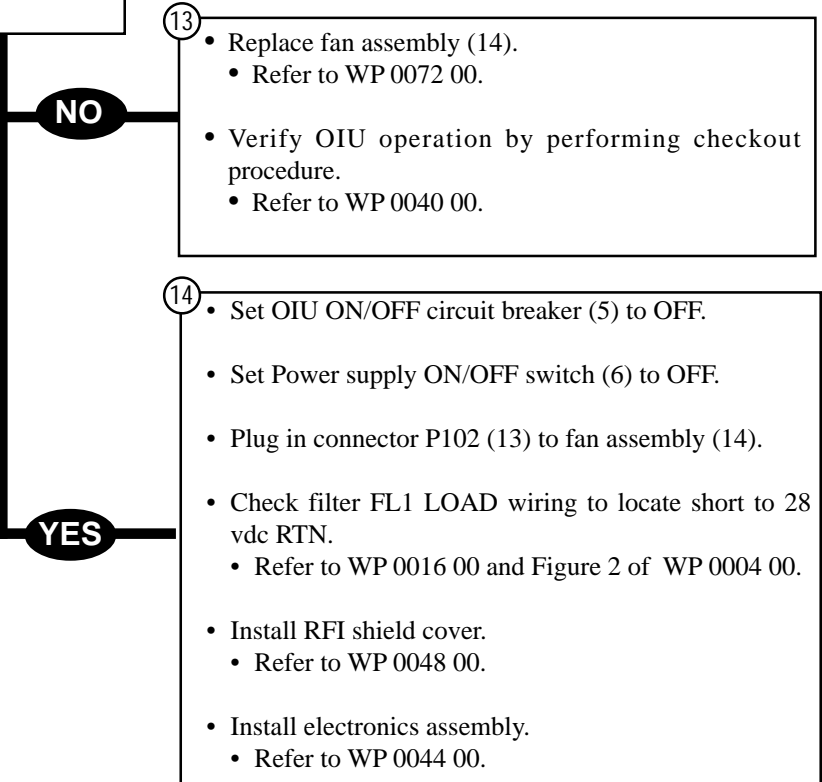




12

- Unplug connector P102 (13) from fan assembly (14).
- Set power supply ON/OFF switch (6) to ON.
- Set OIU ON/OFF circuit breaker (5) to ON.

Does OIU ON/OFF circuit breaker trip?



SYMPTOM

DISPLAY STILL READS - SELF TEST? - AFTER PRESSING YES PUSHBUTTON.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

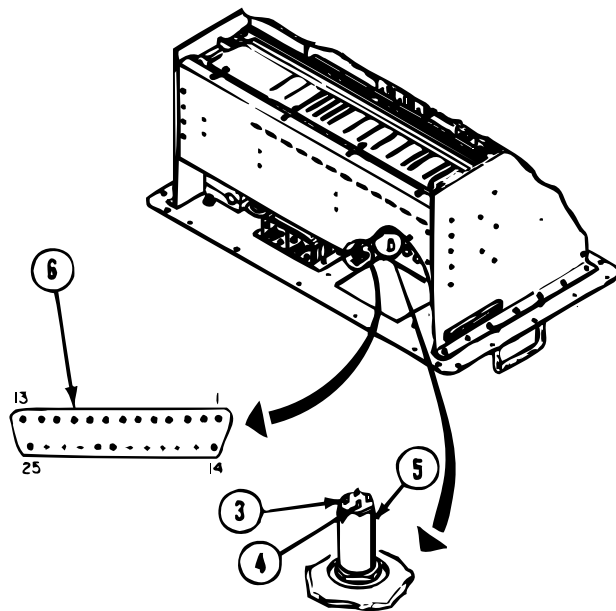
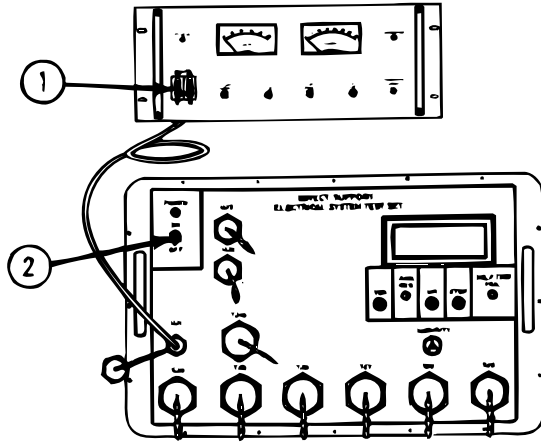
Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

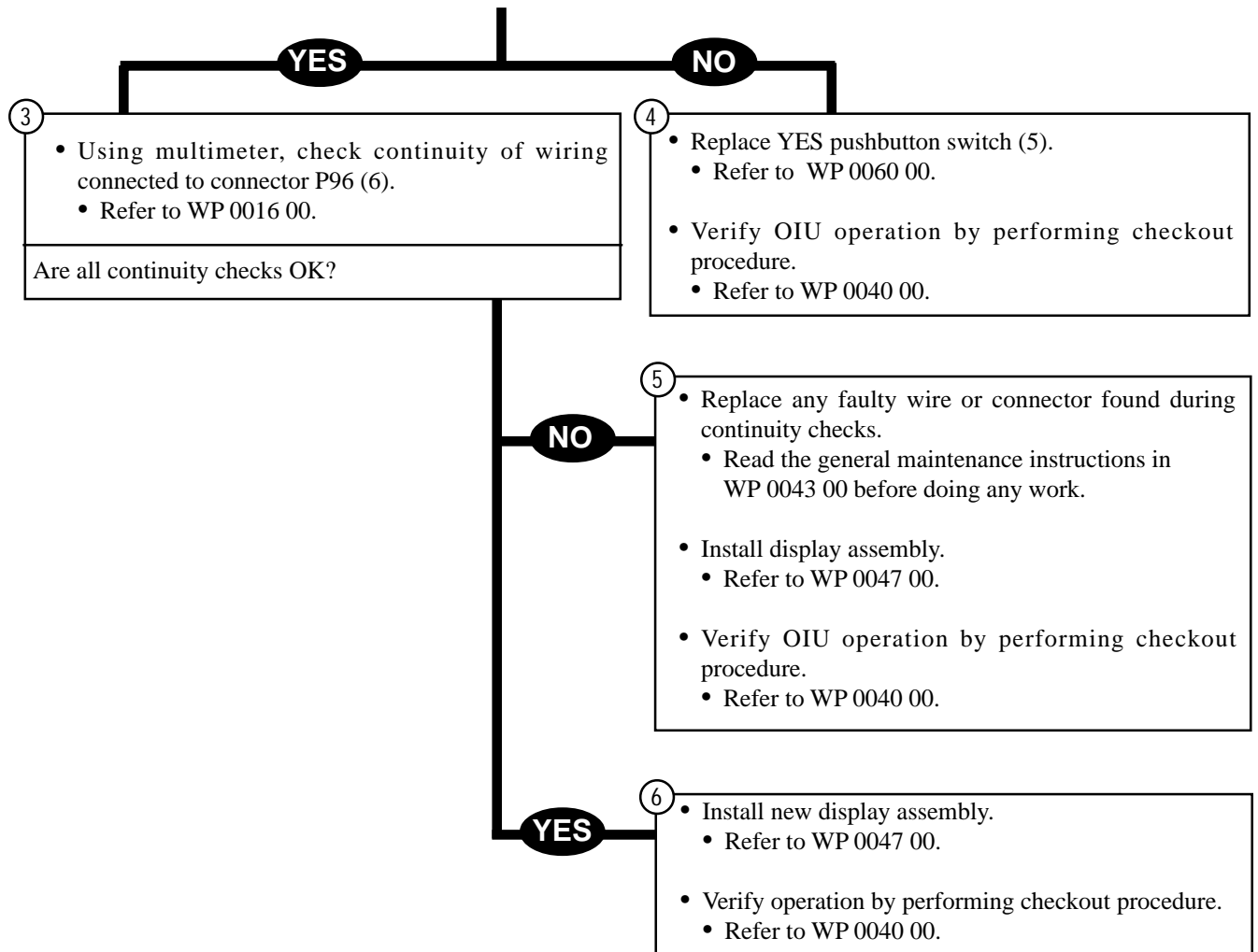
NOTE

For location of parts, see Figure 1 of WP 0004 00.

- ①
- Set power supply ON/OFF switch (1) to OFF.
 - Set OIU ON/OFF circuit breaker (2) to OFF.
 - Remove electronics assembly from case.
 - Refer to WP 0044 00.

- ②
- Remove display assembly.
 - Refer to WP 0047 00.
 - Using multimeter, check continuity between terminal 3 (3) and terminal 4 (4) of YES pushbutton (5) with button pushed in.
- Does multimeter show continuity?





TROUBLESHOOTING PROCEDURE

0009 00

SYMPTOM

SELF TEST FAIL LAMP IS ON AND DISPLAY READS ONE OF THE MESSAGES IN TABLE 1.

Test Equipment/Special Tools:

- Digital Voltmeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

When replacing circuit card assembly A20, A21, A35 or A36 (Active Terminator), use preferred circuit card assembly, part number 12322192.

①

- Look in the first column of Table 1 and find the message displayed on the OIU display.
- Look in the second column of Table 1 on the same line as the message and find the Work Package number.
- Go to applicable work package and perform the Work Package requirements.

NOTE

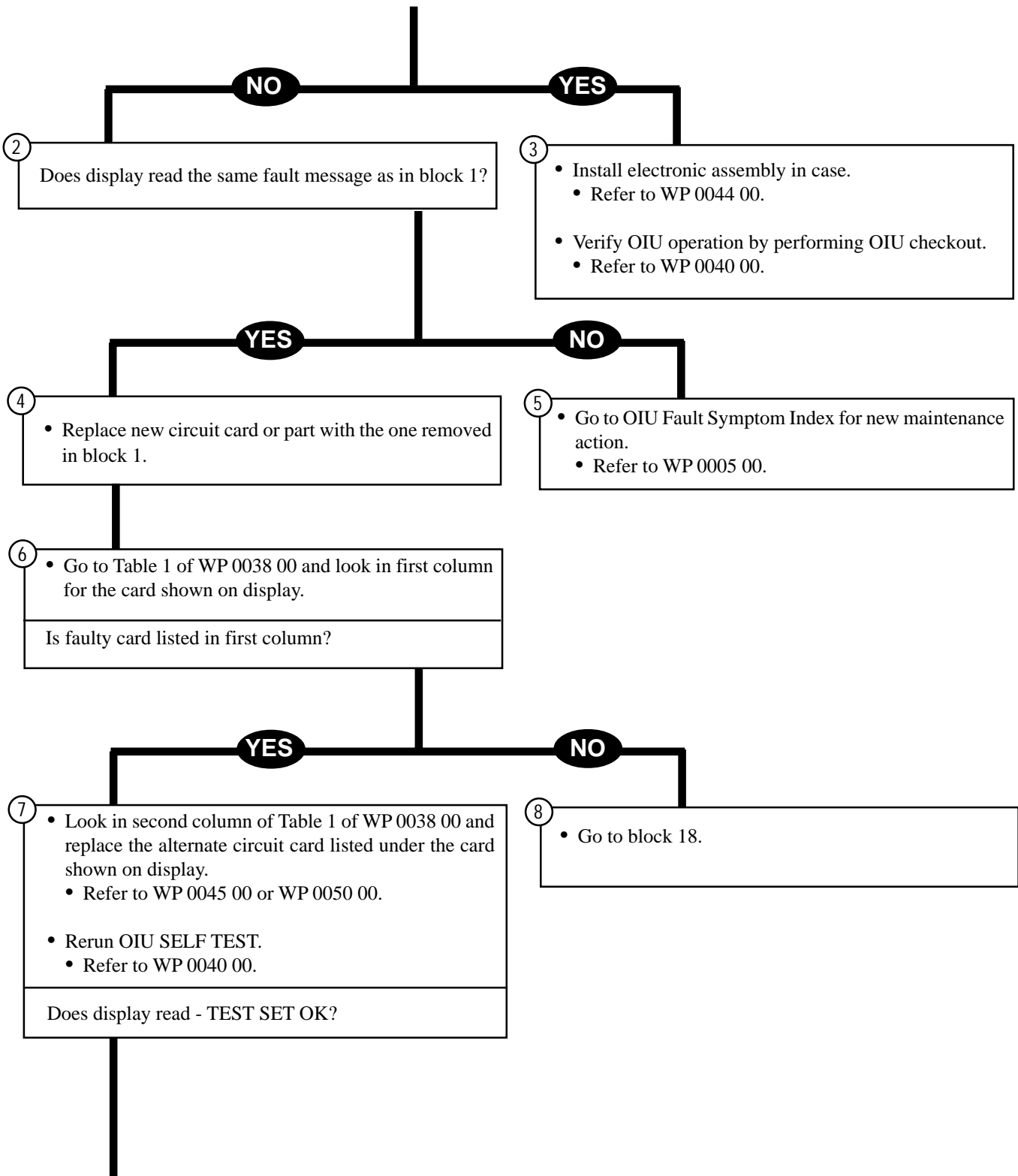
Do not install OIU in case until test is complete.

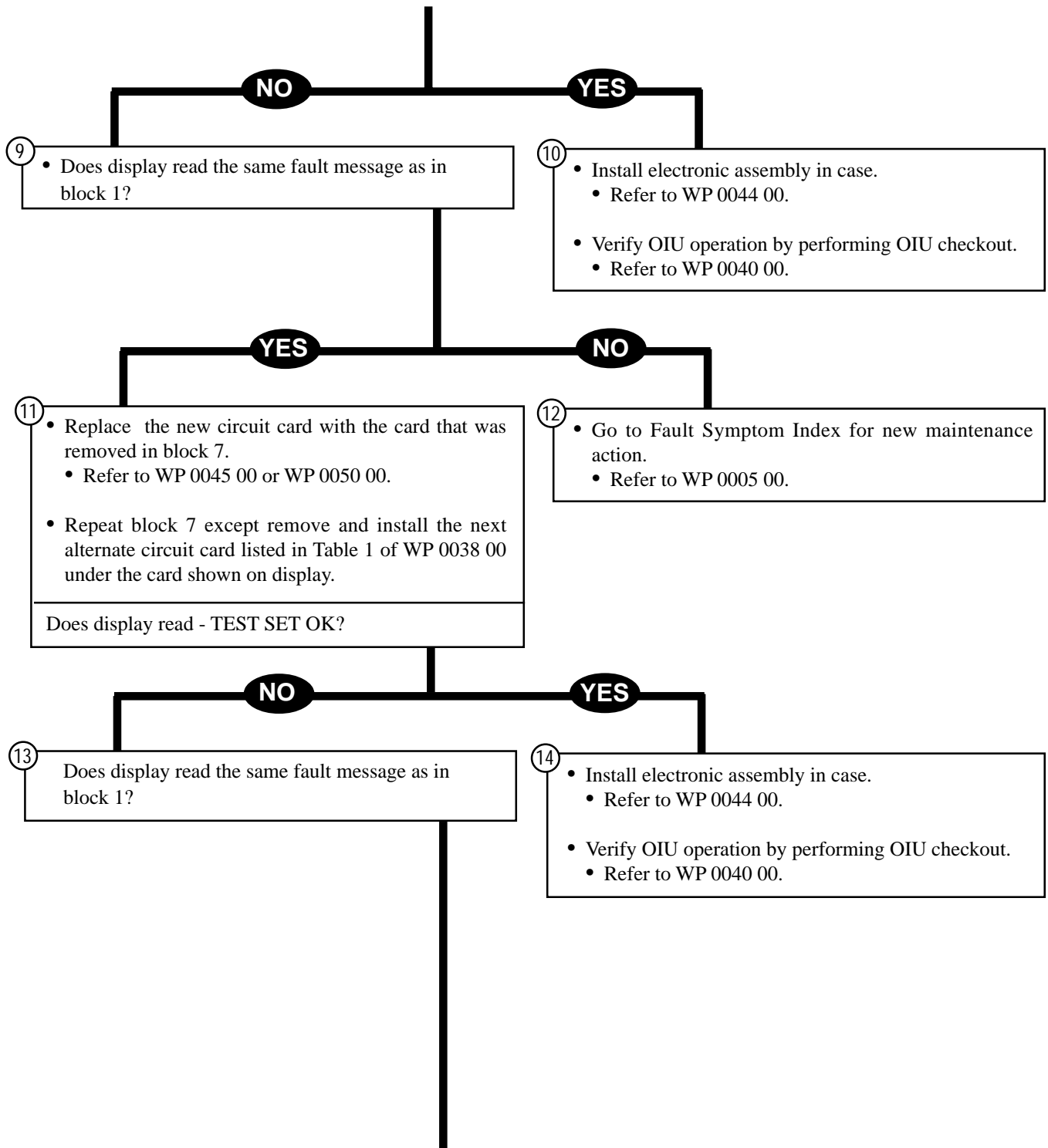
- Rerun OIU SELF TEST.
 - Refer to WP 0040 00.

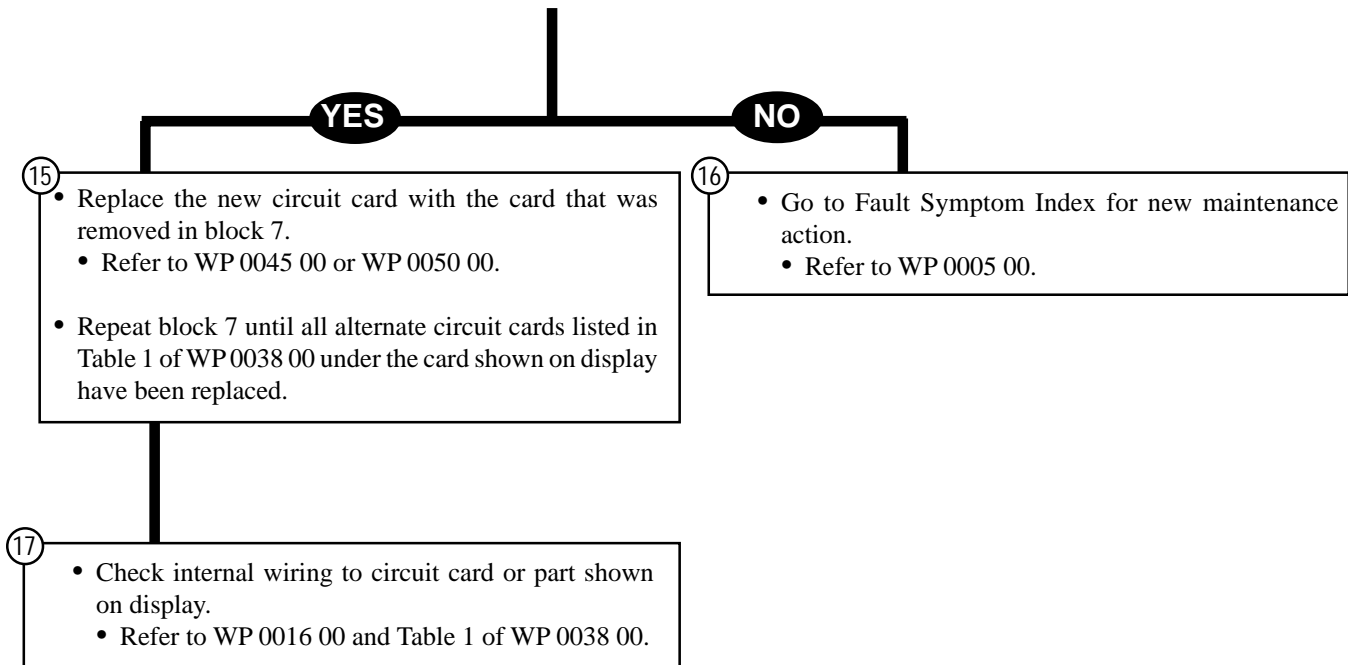
Does display read - DSESTS OK?

Table 1. Displayed Message for Self Test Faults

Message	Work Package
REPLACE A5	WP 0045 00
REPLACE A6	WP 0045 00
REPLACE A7	WP 0045 00
REPLACE A8	WP 0045 00
REPLACE A9	WP 0045 00
REPLACE A10	WP 0045 00
REPLACE A12	WP 0045 00
REPLACE A13	WP 0045 00
REPLACE A14	WP 0045 00
REPLACE A15	WP 0045 00
REPLACE A16	WP 0045 00
REPLACE A17	WP 0045 00
REPLACE A18	WP 0045 00
REPLACE A19	WP 0045 00
REPLACE A20	WP 0045 00
REPLACE A21	WP 0045 00
REPLACE A22	WP 0045 00
REPLACE A23	WP 0045 00
REPLACE A24	WP 0009 02
REPLACE A25	WP 0045 00
REPLACE A26	WP 0045 00
REPLACE A27	WP 0045 00
REPLACE A28	WP 0045 00
REPLACE A29	WP 0045 00
REPLACE A30	WP 0045 00
REPLACE A31	WP 0045 00
REPLACE A32	WP 0045 00
REPLACE A33	WP 0045 00
REPLACE A34	WP 0050 00
REPLACE A35	WP 0050 00
REPLACE A36	WP 0050 00
REPLACE A38	WP 0050 00
REPLACE LAMP THAT IS OFF	See TM 9-4931-586-12-1&P
SELF TEST FAILURE	WP 0009 01
REPLACE DISPLAY	WP 0047 00
OIU RAM TEST FAILURE	(Replace A5) WP 0045 00
OIU FAILED EXECUTIVE SOFTWARE HEALTH CHECK	(Replace A5) WP 0045 00
OIU FAILED FST SOFTWARE PART X HEALTH CHECK	(Replace A5) WP 0045 00







From block 8.

18

- Check relay K2.
- Install circuit card extender in A11 slot.
 - Refer to WP 0045 00.
- Connect jumper wire from Pin 18 to Pin 25 on extender card.
- Rerun OIU SELF TEST.
 - Refer to WP 0040 00.

Does display read - TEST SET OK?

NO

19

NOTE

When checking input power to circuit cards, voltage readings must be within the following limits:

- +5 vdc input: +4.95 to +5.45 vdc.
- +15 vdc input: +14.8 to +15.2 vdc.
- 15 vdc input: -14.8 to -15.2 vdc.

- Check internal wiring to circuit card or part shown on display.
- Using digital voltmeter, check power input to card shown on display.
 - Refer to WP 0016 00, Figure 5 and 6 of WP 0004 00.

YES

20

- Replace relay K2.
 - Refer to WP 0053 00.
- Verify OIU operational by performing OIU checkout.
 - Refer to WP 0040 00.

TROUBLESHOOTING PROCEDURE**0009 01****SYMPTOM**

DISPLAY READS - SELF TEST FAILURE.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

NOTE

Do not turn in or get rid of parts until test has been completed.

①

- Set OIU ON/OFF circuit breaker to OFF.
- Set power supply ON/OFF switch to OFF.

②

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Remove circuit card assembly A8.
 - Refer to WP 0045 00.

NOTE

Do not install OIU electronics assembly until test is completed.

- Install new circuit card assembly A8.
 - Refer to WP 0045 00.
- Rerun OIU SELF TEST.
 - Refer to WP 0040 00.

Does display read - TEST SET OK?

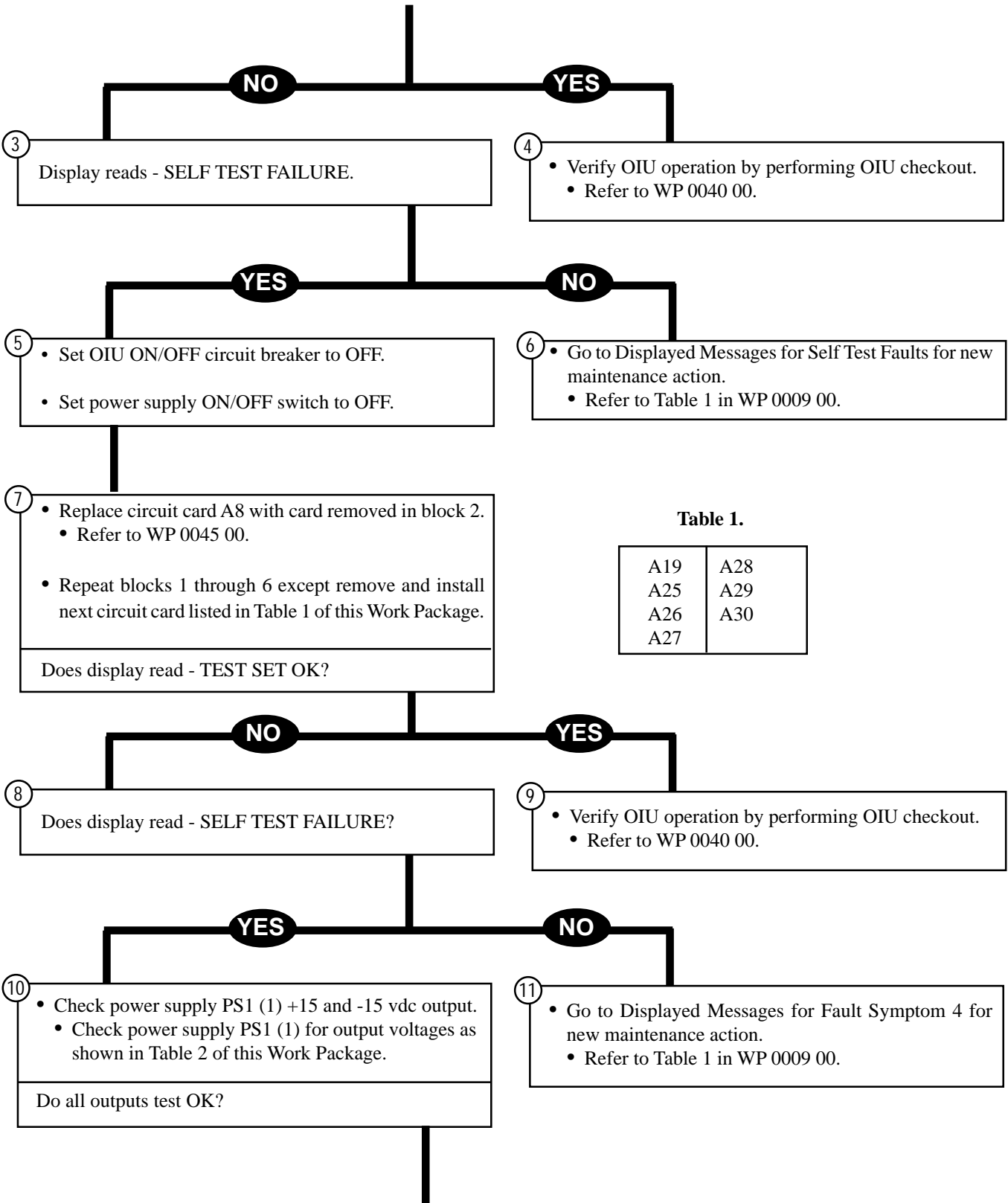


Table 1.

A19	A28
A25	A29
A26	A30
A27	

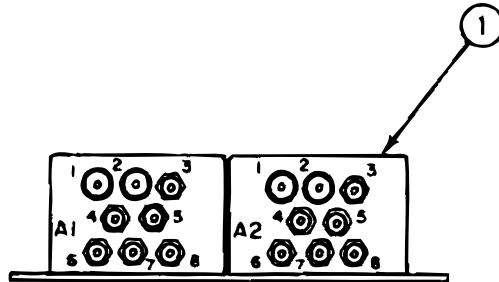
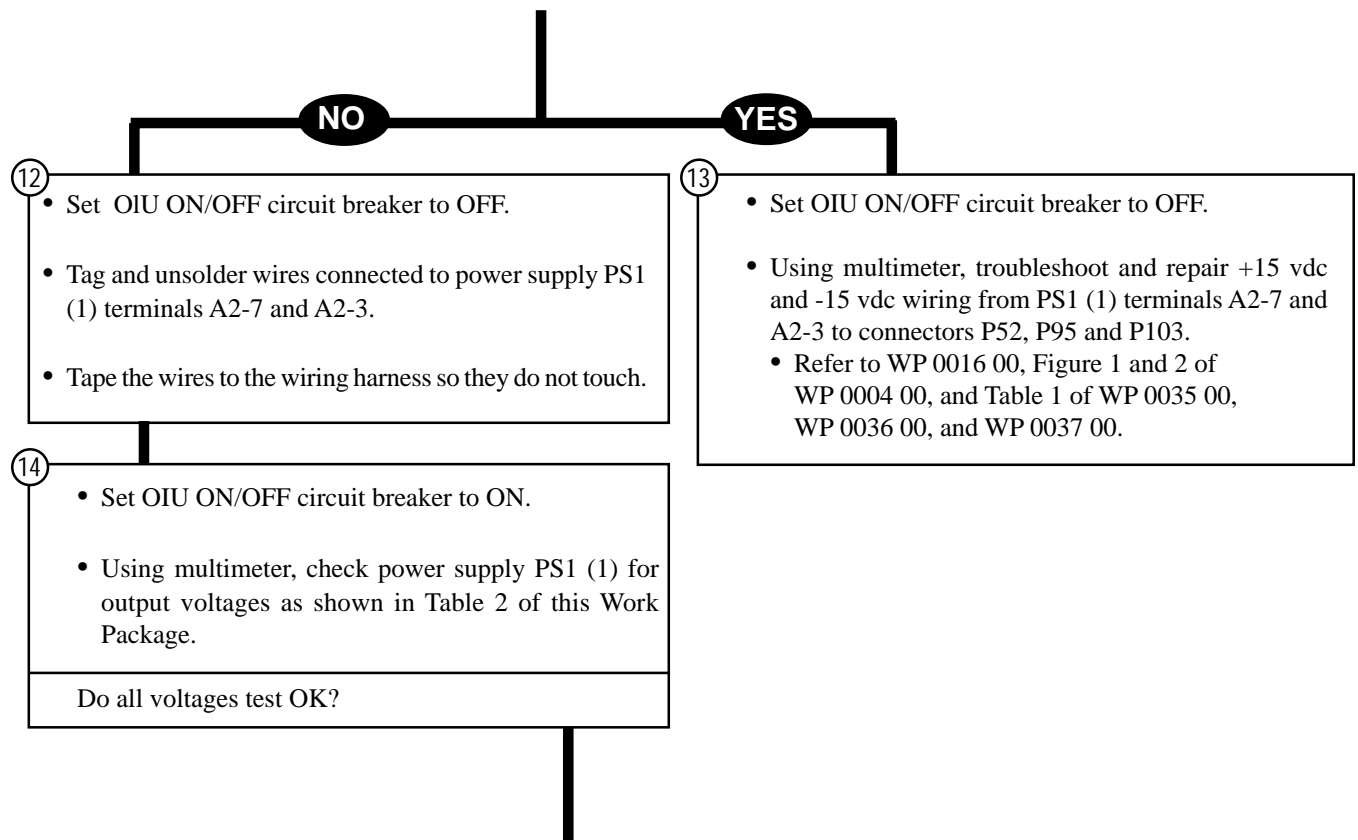
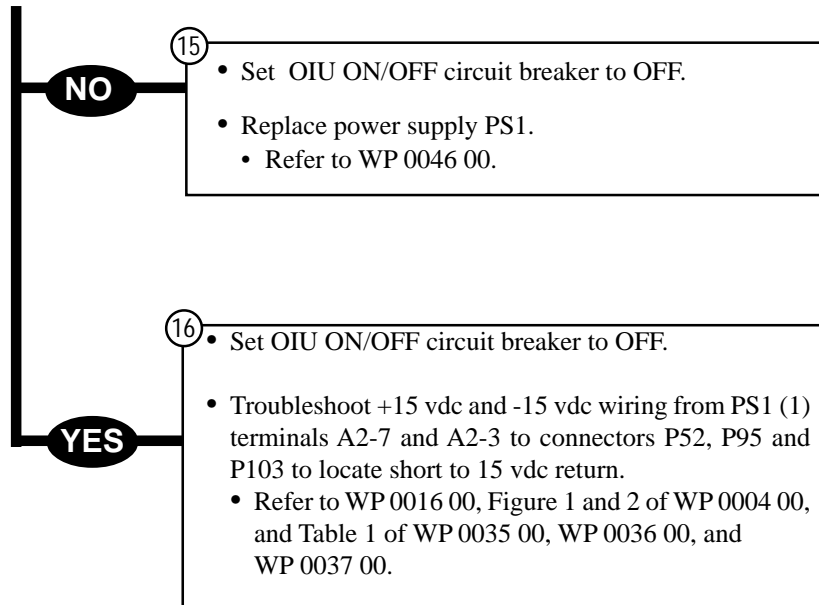


Table 2

Terminal to Terminal		Voltage (vdc)
A2-7 (+)	A2-6 (-)	+14.5 to +16 vdc
A2-3 (-)	A2-6 (+)	-14.5 to -16 vdc





SYMPTOM

DISPLAY READS - REPLACE A24.

Test Equipment/Special Tools:

- Circuit Card Extender
- Multimeter

Equipment Conditions:

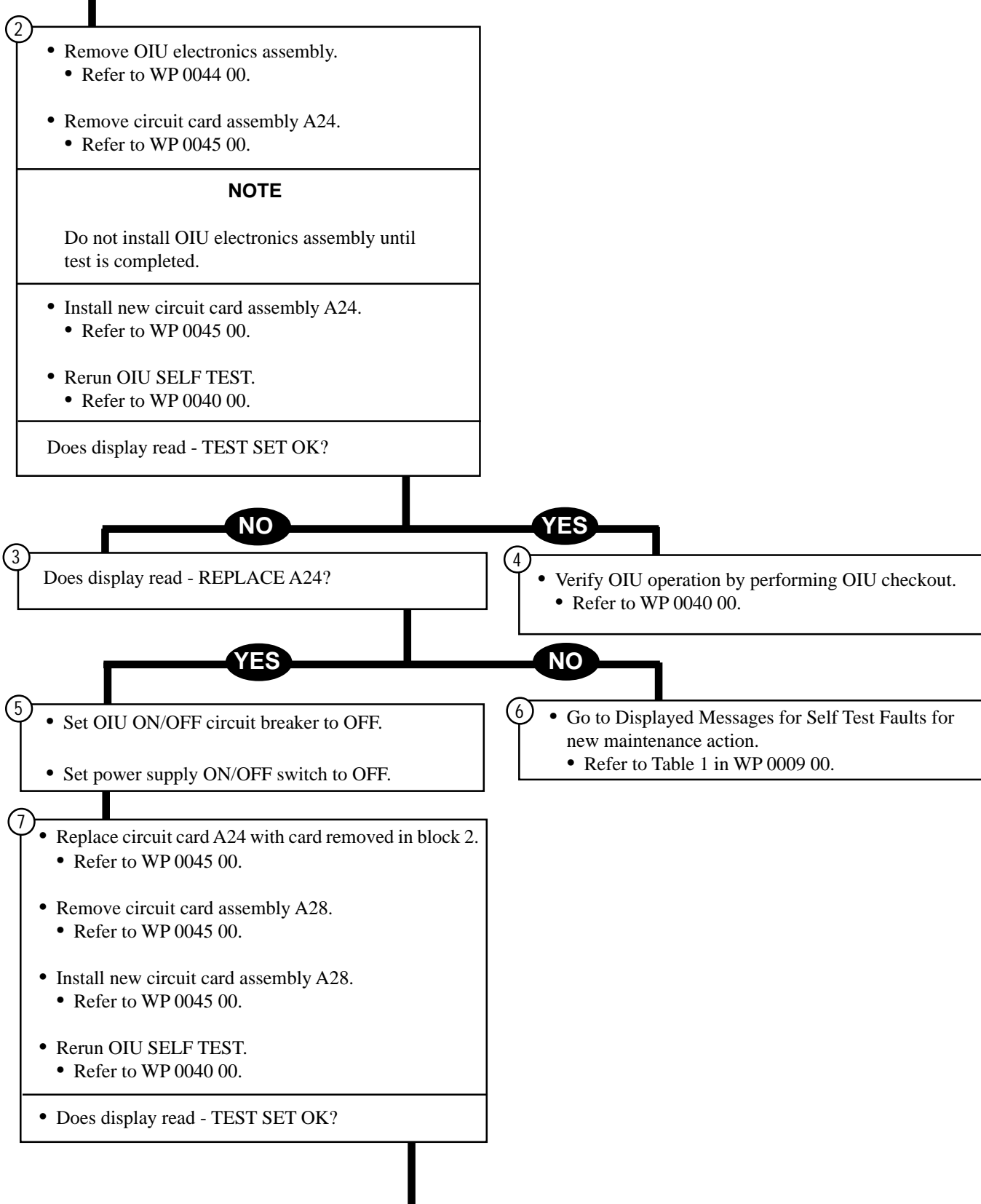
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

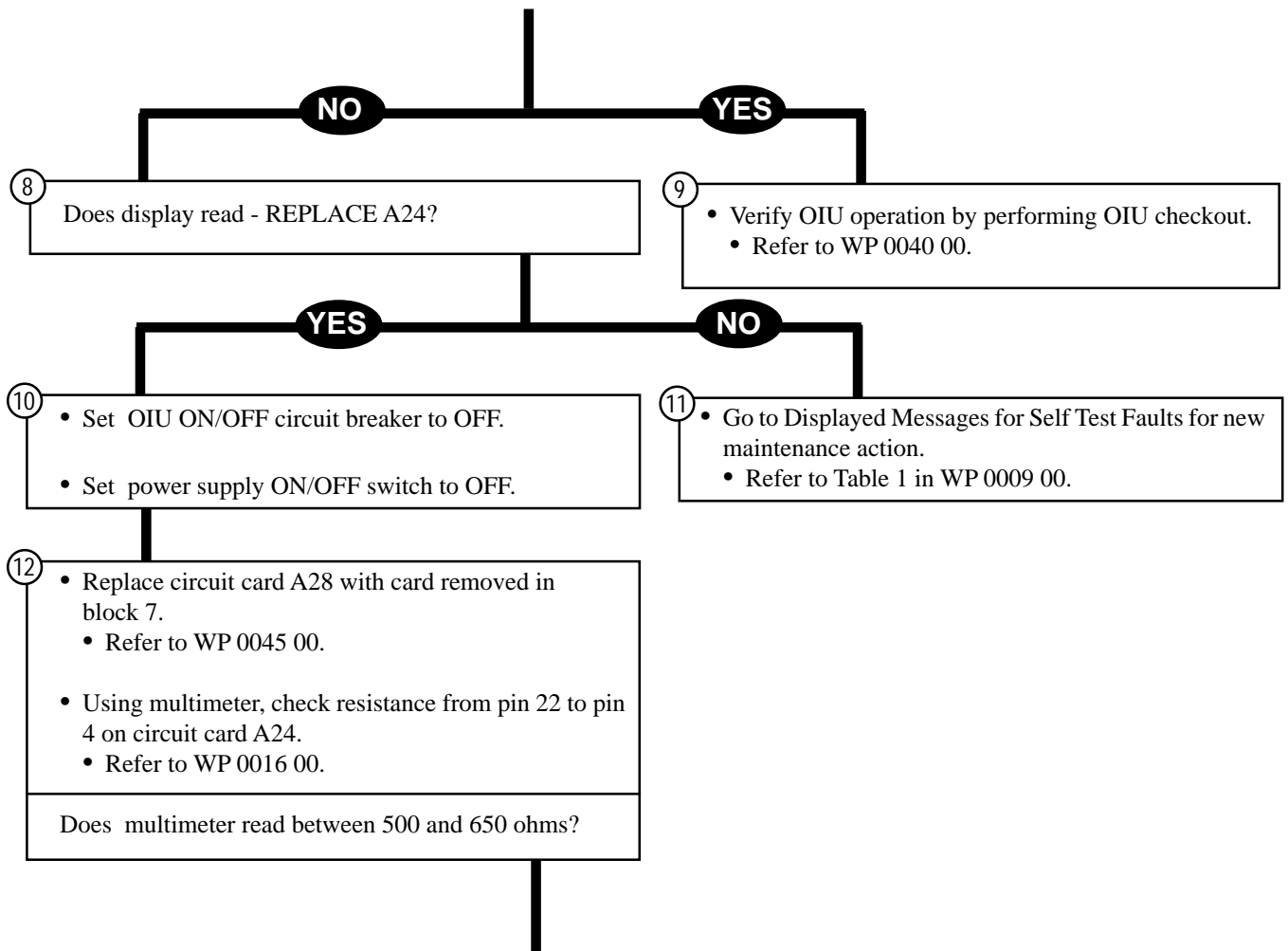
NOTE

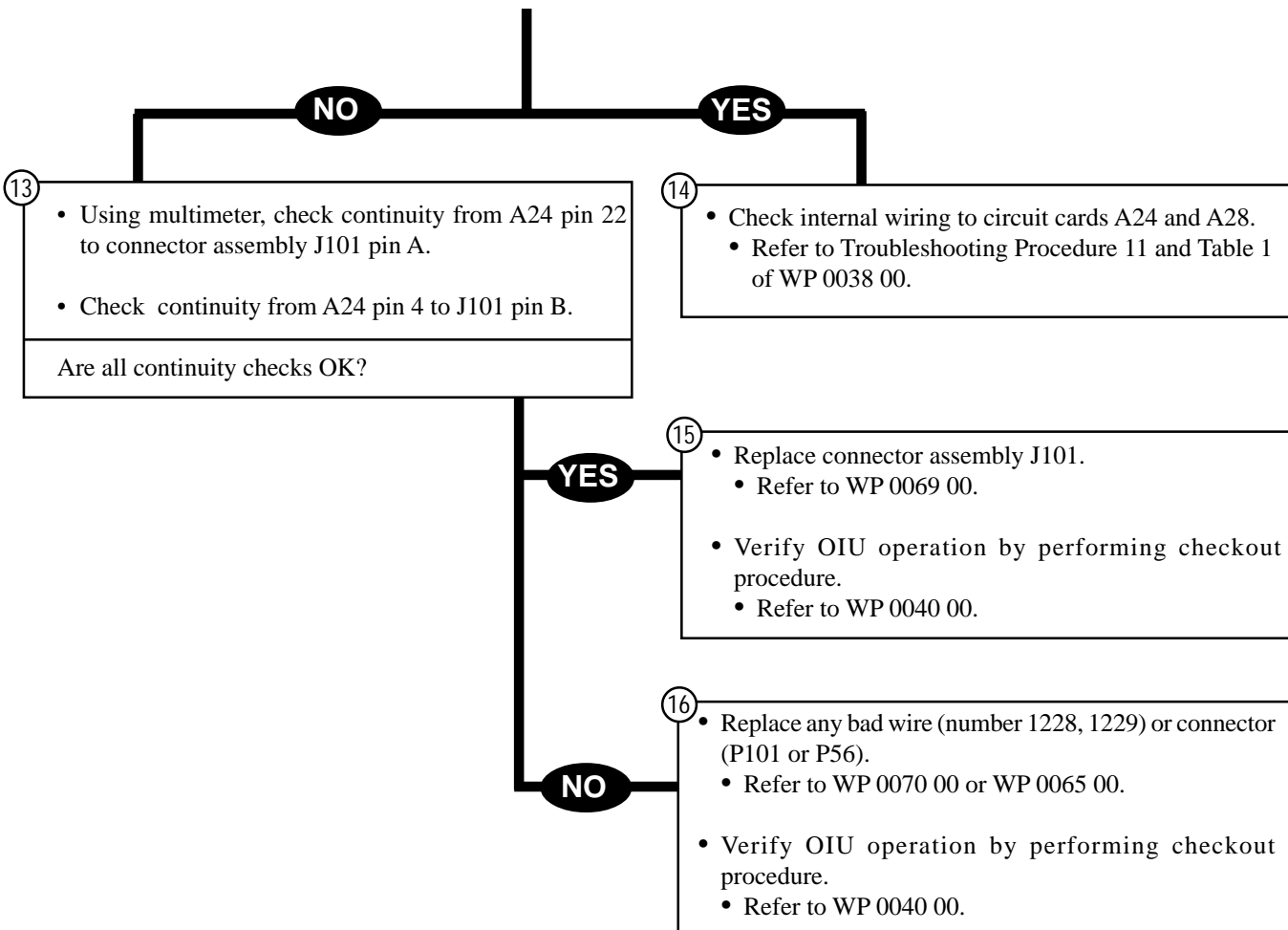
Do not turn in or get rid of parts until test has been completed.

①

- Set OIU ON/OFF circuit breaker to OFF.
- Set power supply ON/OFF switch to OFF.







TROUBLESHOOTING PROCEDURE**0010 00****SYMPTOM**

DISPLAY READS - TEST S2 BEFORE REPLACING DISPLAY.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

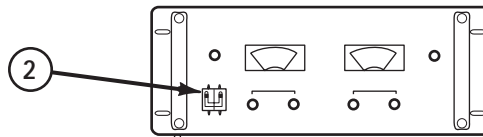
NOTE

For location of parts, see Figure 1 of WP 0004 00.

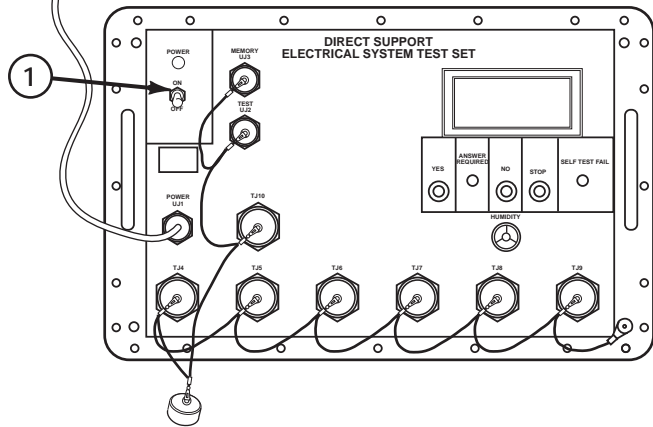
TROUBLESHOOTING PROCEDURE - CONTINUED

0010 00

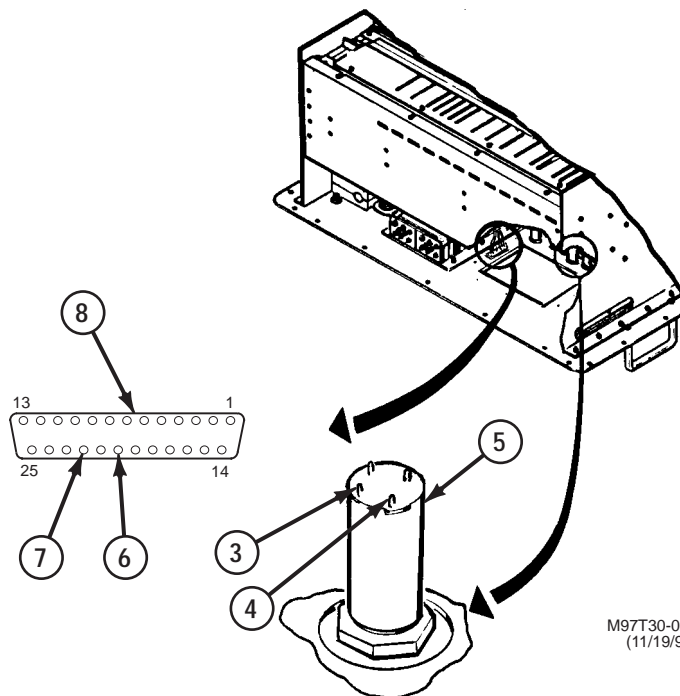
- 1
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.
 - Remove electronics assembly from case.
 - Refer to WP 0044 00.



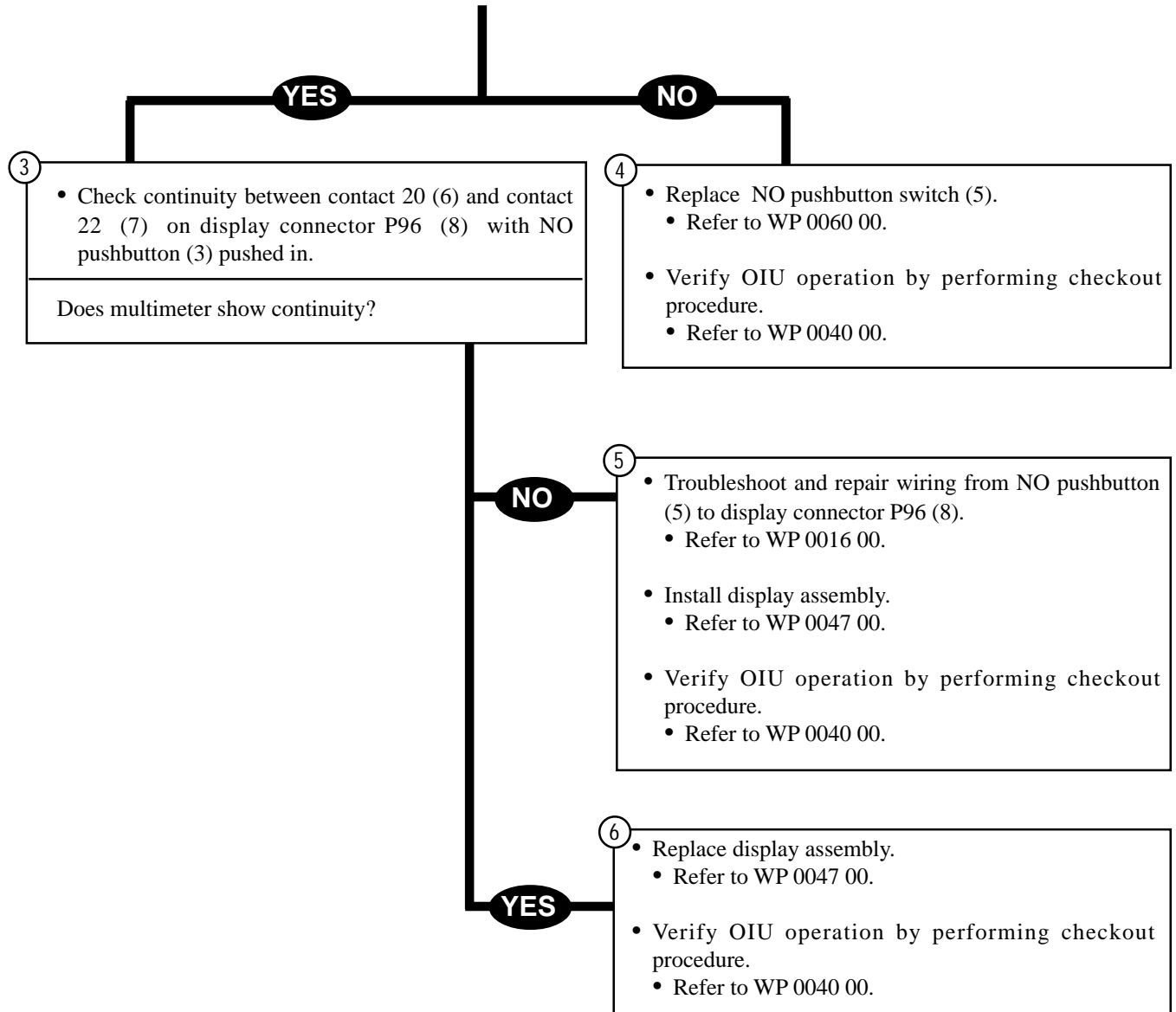
- 2
- Remove display assembly.
 - Refer to WP 0047 00.
 - Using multimeter, check continuity between terminal 3 (3) and terminal 4 (4) of NO pushbutton (5) with button pushed in.

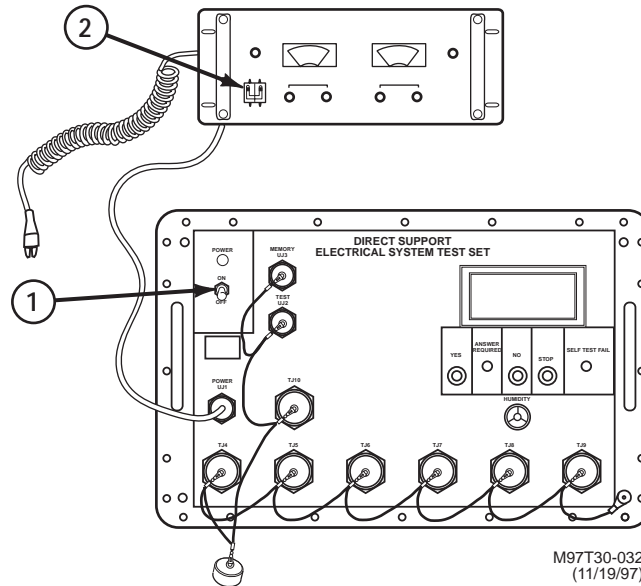


Does multimeter show continuity?



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(11/19/97)

SYMPTOM

DISPLAY READS - TEST S3 BEFORE REPLACING DISPLAY.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

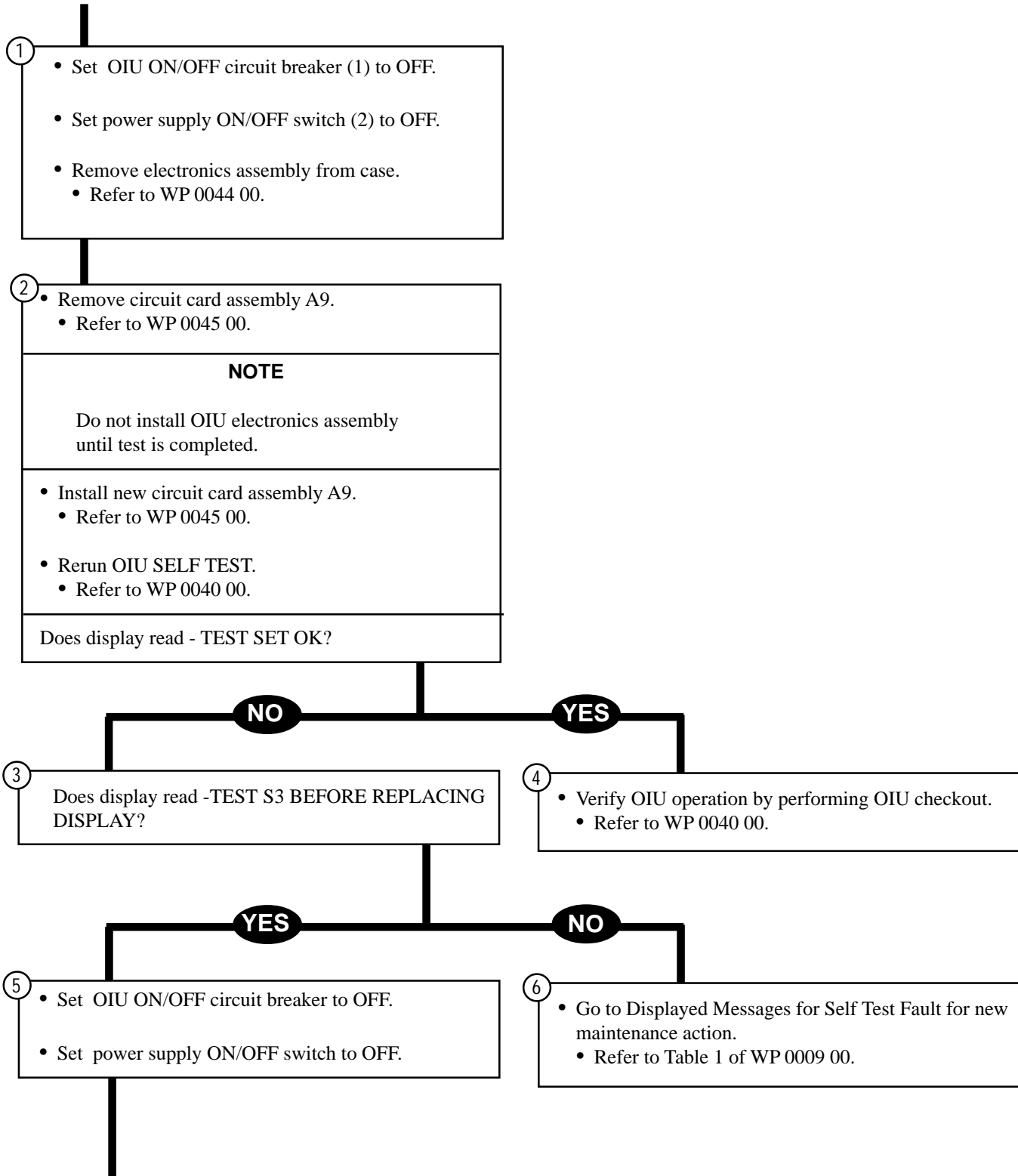
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

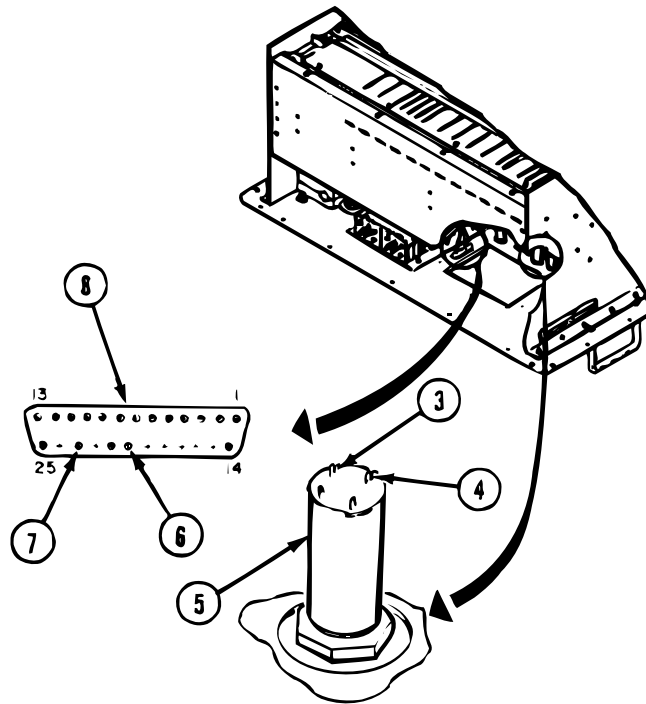
CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

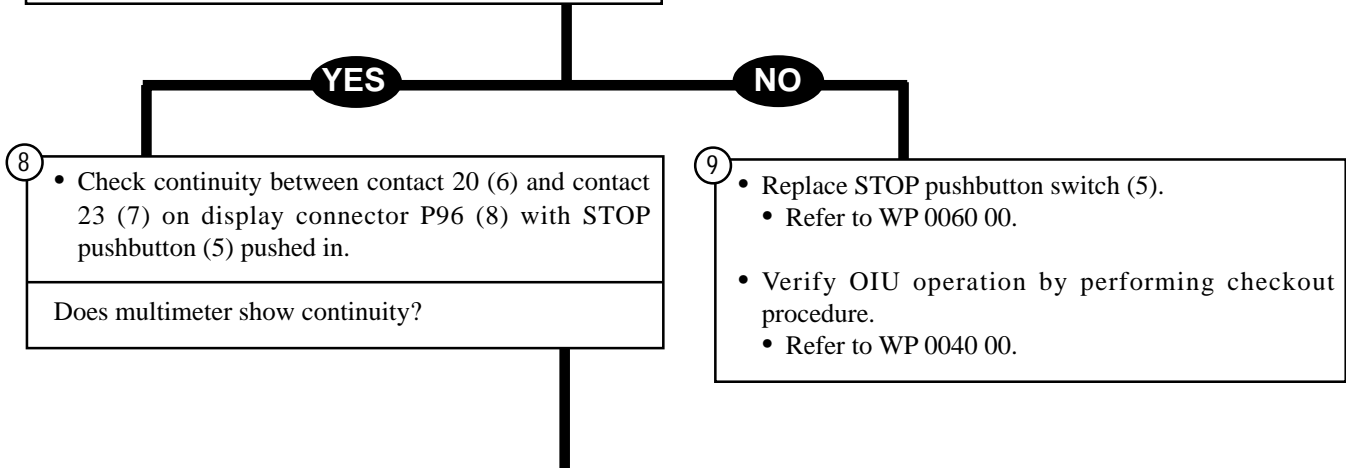


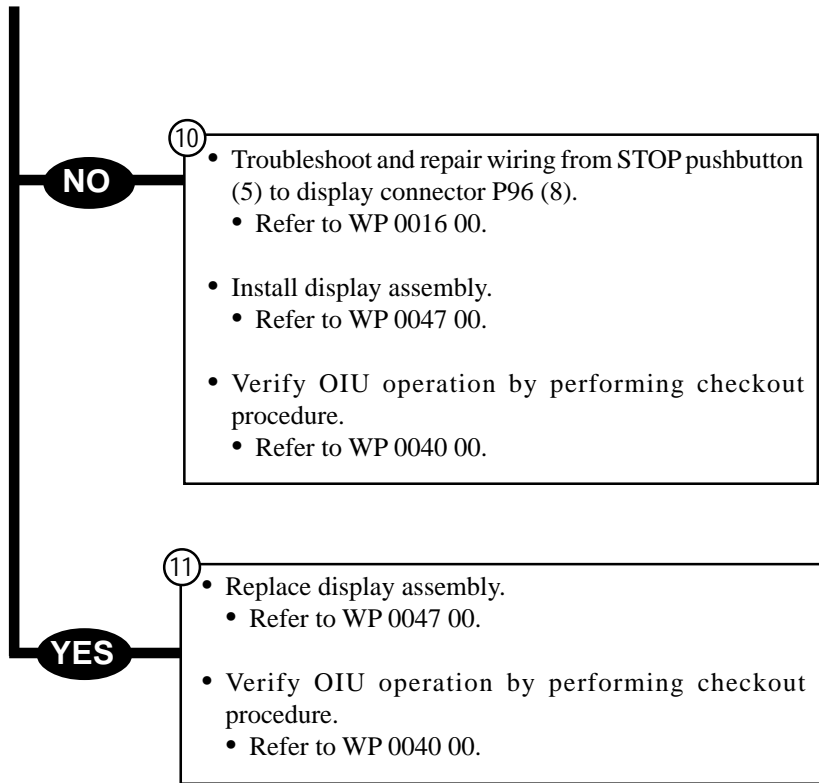


7

- Replace circuit card A9 with card removed in block 2.
 - Refer to WP 0045 00.
- Remove display assembly.
 - Refer to WP 0047 00.
- Using multimeter, check continuity between terminal 3 (3) and terminal 4 (4) of STOP pushbutton (5) with button pushed in.

Does multimeter show continuity?





SYMPTOM

DISPLAY READS - TEST S1 BEFORE REPLACING DISPLAY.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

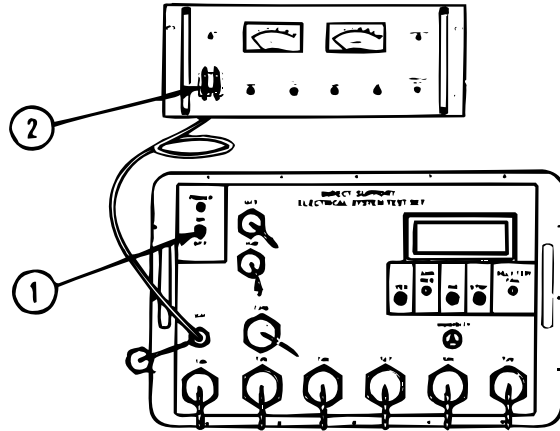
CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

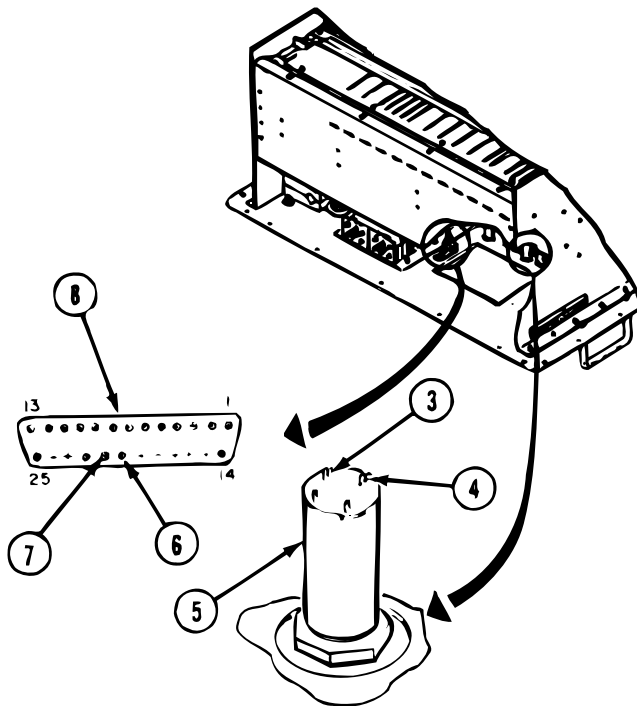
NOTE

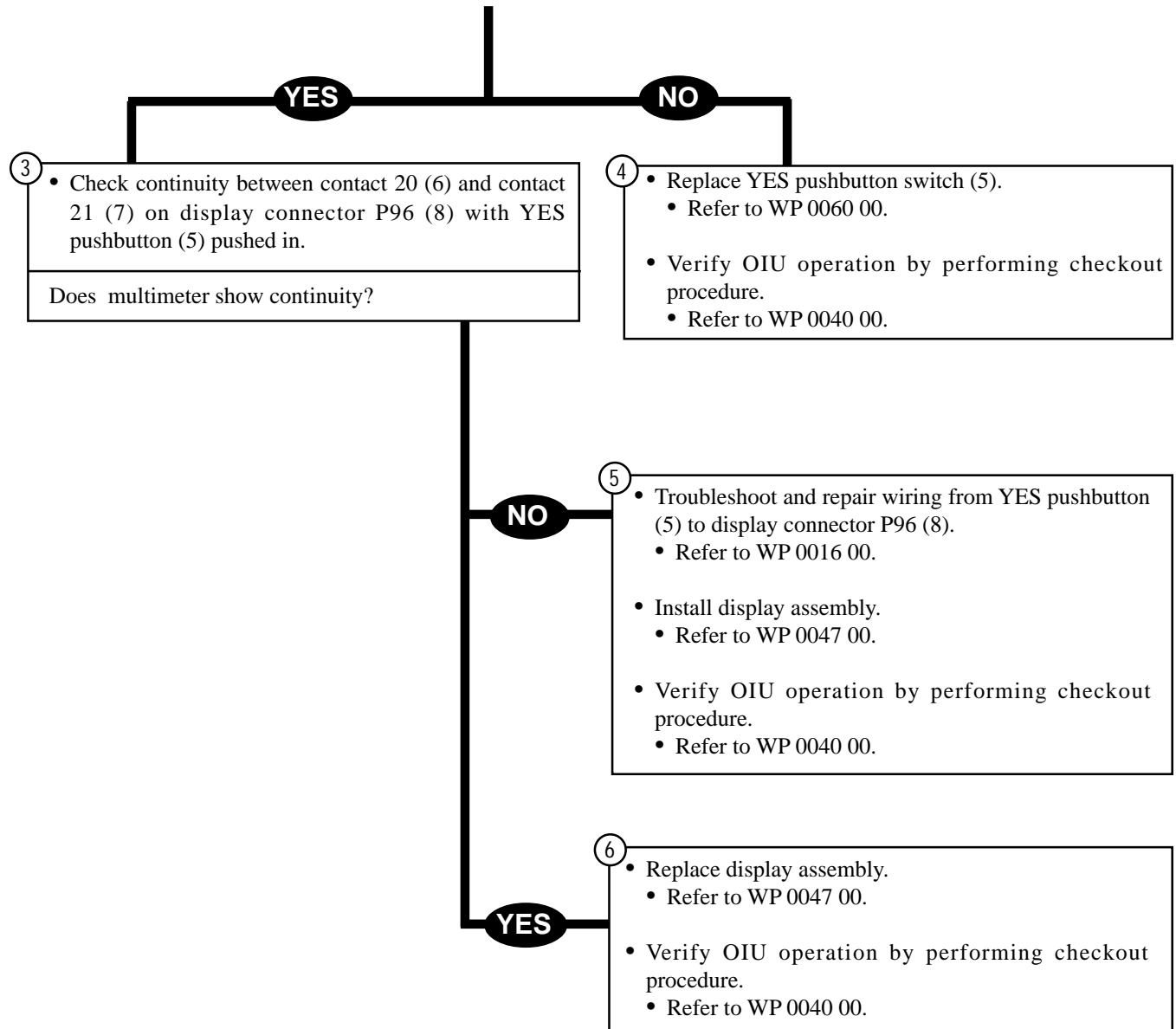
For location of parts, see Figure 1 of WP 0004 00.

- ①
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.
 - Remove electronics assembly from case.
 - Refer to WP 0044 00.



- ②
- Remove display assembly.
 - Refer to WP 0047 00.
 - Using multimeter, check continuity between terminal 3 (3) and terminal 4 (4) of YES pushbutton (5) with button pushed in.
- Does multimeter show continuity?





TROUBLESHOOTING PROCEDURE

0013 00

SYMPTOM

DISPLAY IS DARK OR UNREADABLE WHEN POWER IS APPLIED TO OIU.

Test Equipment/Special Tools:

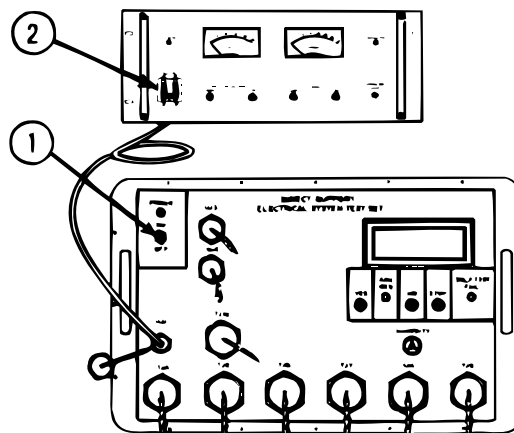
- Decade Resistance Box 240C
- Multimeter
- Test leads (two required)

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

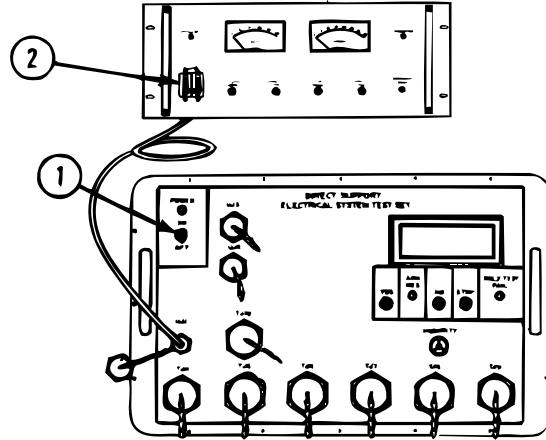


NOTE

For location of parts, see Figure 1 of WP 0004 00. For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

- ①
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.
 - Remove electronics assembly from case.
 - Refer to WP 0044 00.

- ②
- Remove circuit card assembly A7.
 - Refer to WP 0045 00.
 - Install new circuit card assembly A7.
 - Refer to WP 0045 00.



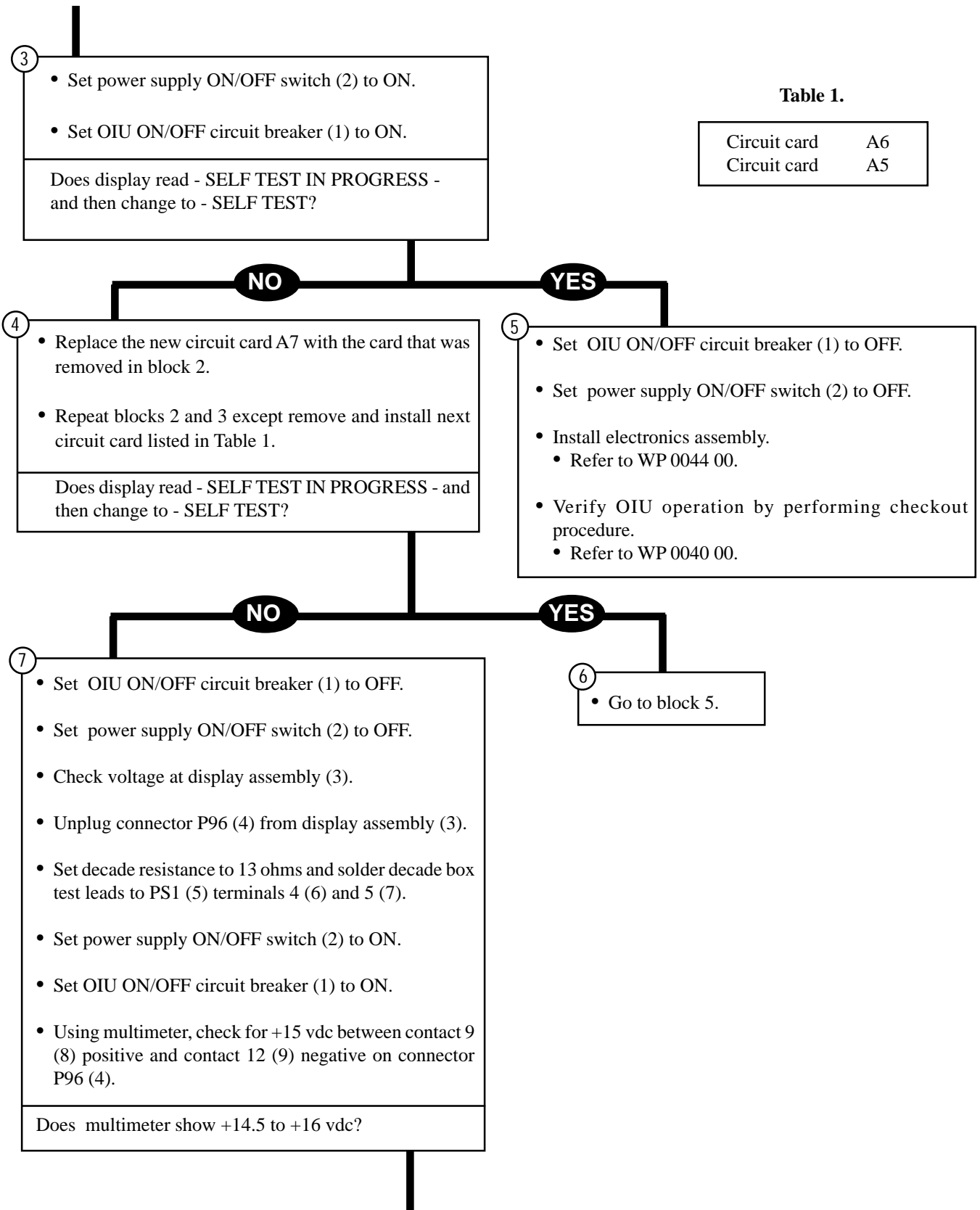
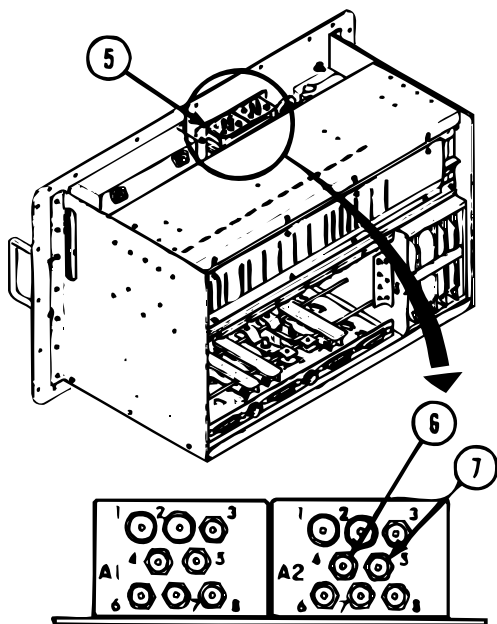
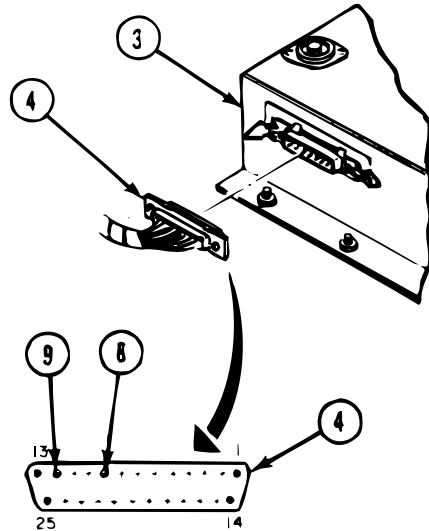
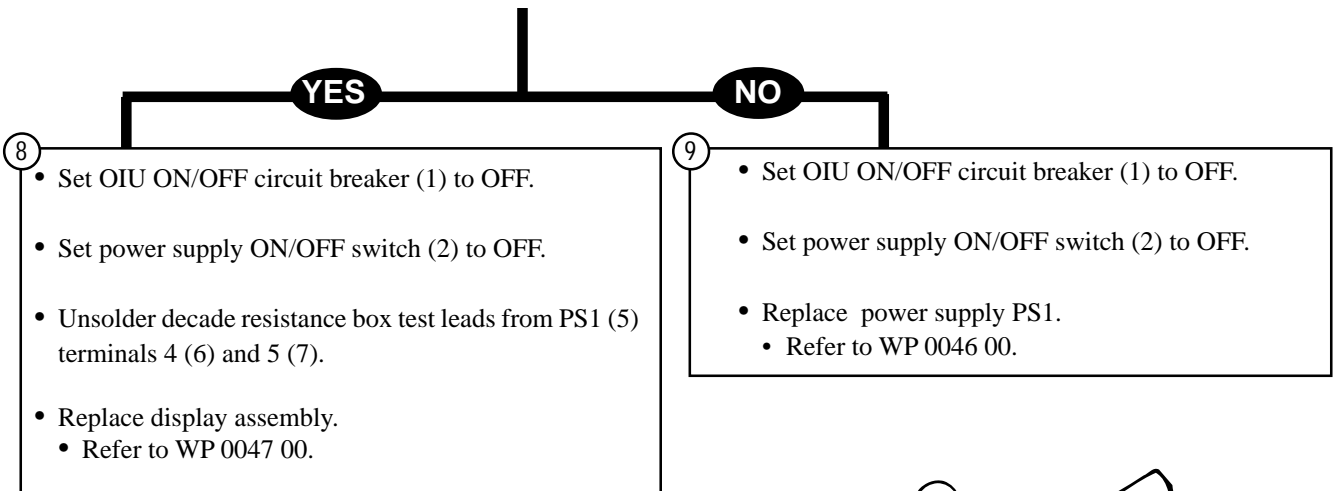


Table 1.

Circuit card	A6
Circuit card	A5



SYMPTOM

POWER LAMP OFF WITH OIU ON/OFF
CIRCUIT BREAKER ON. DISPLAY LIT.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

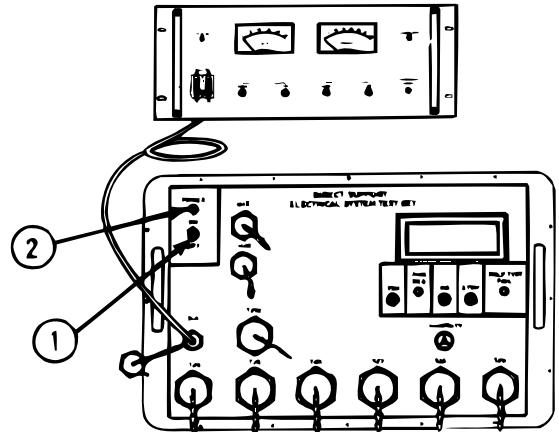
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00. For OIU power input wiring diagram, see Figure 2 of WP 0004 00.



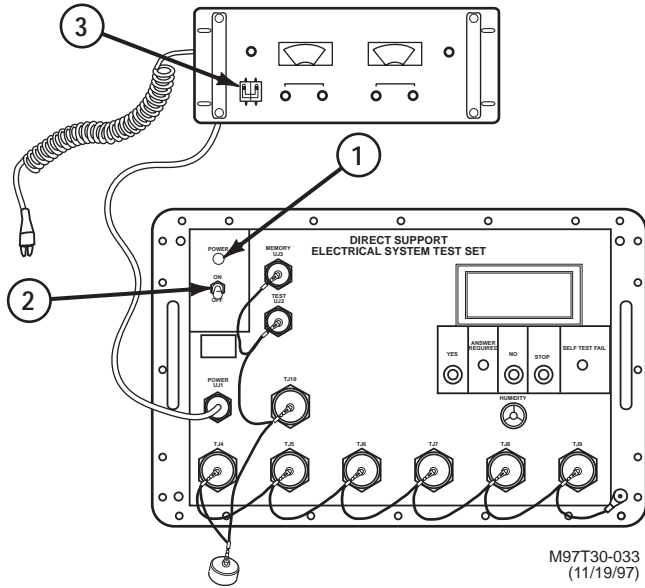
TROUBLESHOOTING PROCEDURE - CONTINUED

0014 00

- 1
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Remove POWER lens and lamp (2).
 - Refer to WP 0057 00.
 - Replace lamp with new lamp.

- 2
- Install POWER lamp and lens (1).
 - Refer to WP 0057 00.
 - Set OIU ON/OFF circuit breaker (2) to ON.

Does POWER lamp light?



NO

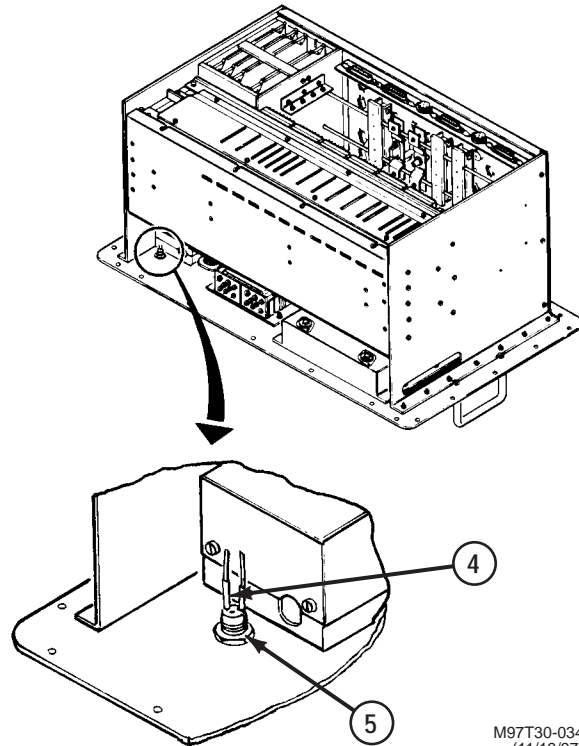
YES

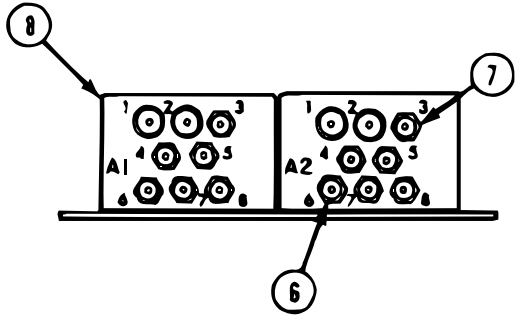
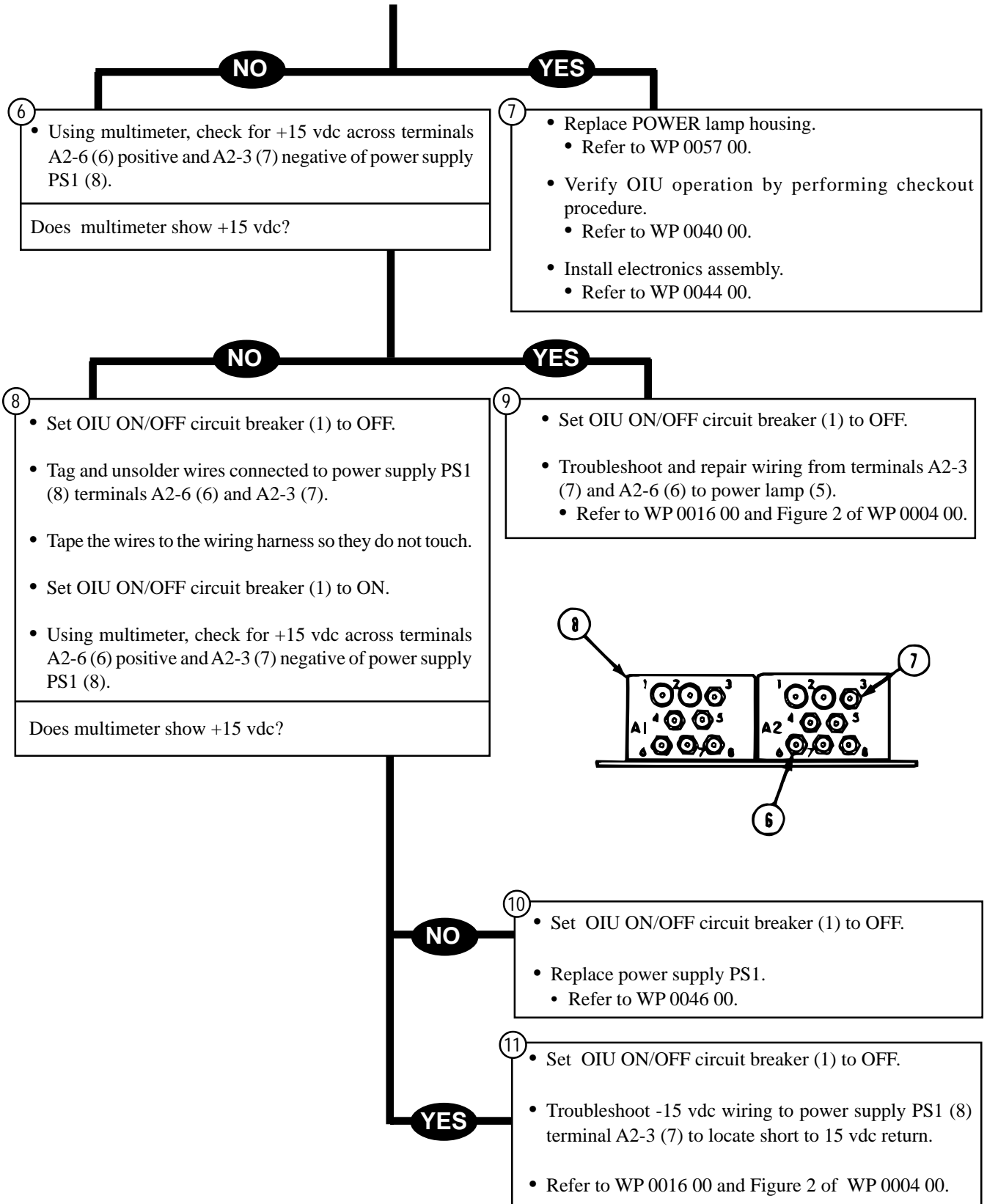
- 3
- Set OIU ON/OFF circuit breaker (2) to OFF.
 - Set power supply ON/OFF switch (3) to OFF.
 - Remove electronics assembly.
 - Refer to WP 0044 00.

- 4
- Throw away bad lamp.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

- 5
- Set power supply ON/OFF switch (3) to ON.
 - Set OIU ON/OFF circuit breaker (2) to ON.
 - Using multimeter, check for 15 vdc across the terminals (4) of POWER lamp housing (5).

Does multimeter show 15 vdc?





SYMPTOM

DISPLAY CONTINUOUSLY READS - SELF TEST
IN PROGRESS.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

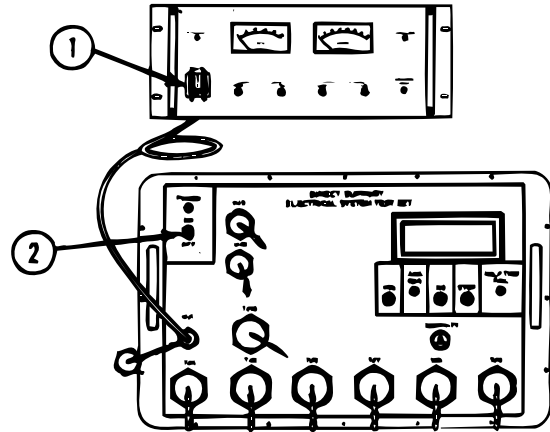
Set power supply ON/OFF switch to OFF before replacing
faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00. For OIU
input power wiring diagram, see Figure 2 of WP 0004 00.

1

- Set power supply ON/OFF switch (1) to OFF.
- Set OIU ON/OFF circuit breaker (2) to OFF.
- Remove electronics assembly.
 - Refer to WP 0044 00.



2

- Remove circuit card A7.
 - Refer to WP 0045 00.
- Install new circuit card A7.
 - Refer to WP 0045 00.

3

- Set power supply ON/OFF switch (1) to ON.
- Set OIU ON/OFF circuit breaker (2) to ON.

Does display read - SELF TEST IN PROGRESS - and then change to - SELF TEST?

Table 1.

Circuit card	A6
Circuit card	A5

NO

YES

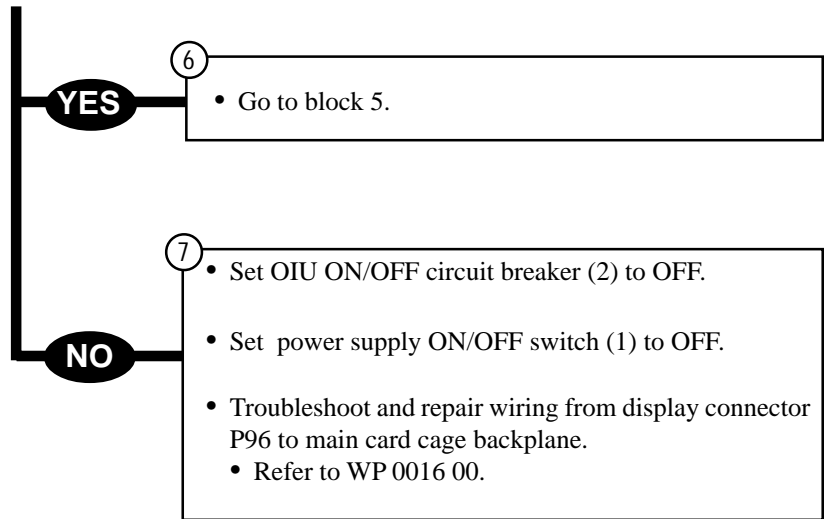
4

- Replace the new circuit card that was installed in block 2 with the circuit card that was removed in block 2.
- Repeat blocks 1 through 3 except remove and install next circuit card listed in Table 1.

Does display read - SELF TEST IN PROGRESS - and then change to - SELF TEST?

5

- Set OIU ON/OFF circuit breaker (2) to OFF.
- Set power supply ON/OFF switch (1) to OFF.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.



TROUBLESHOOTING PROCEDURE**0016 00****SYMPTOM**

SUSPECTED OIU WIRING FAULT.

Test Equipment/Special Tools:

- Circuit card extender
- Multimeter
- Digital Voltmeter

Equipment Conditions:

- OIU resting on clean workbench.
- OIU electronics assembly removed from case.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or doing any continuity checks to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

For load plate assembly wiring diagram, see Figure 3 of WP 0004 00.

For OIU self test circuit card assembly wiring list, see Table 1 in WP 0038 00.

For circuit card and backplane connector locations, see Figure 5 of WP 0004 00.

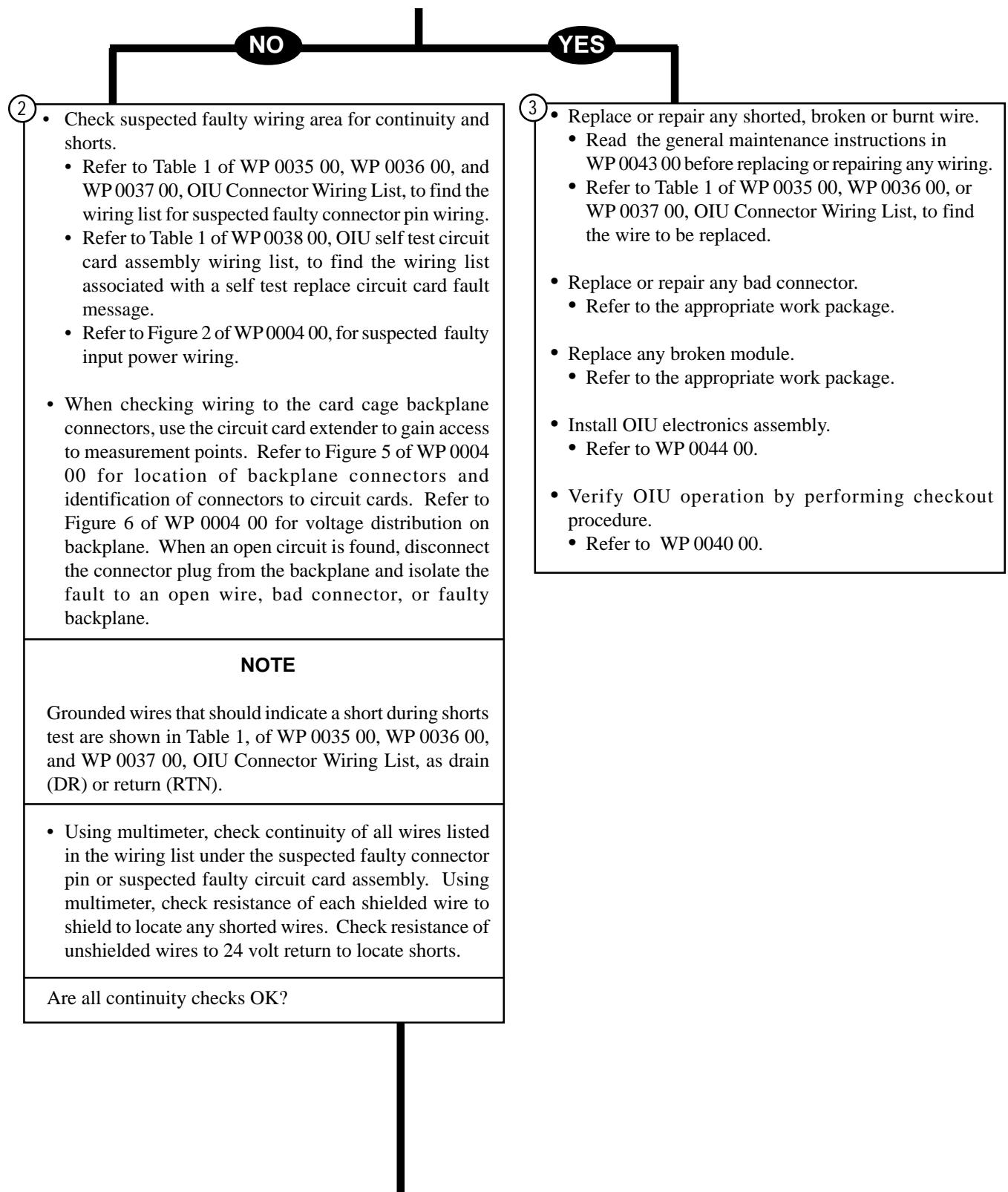
For OIU backplane power distribution, see Figure 6 of WP 0004 00.

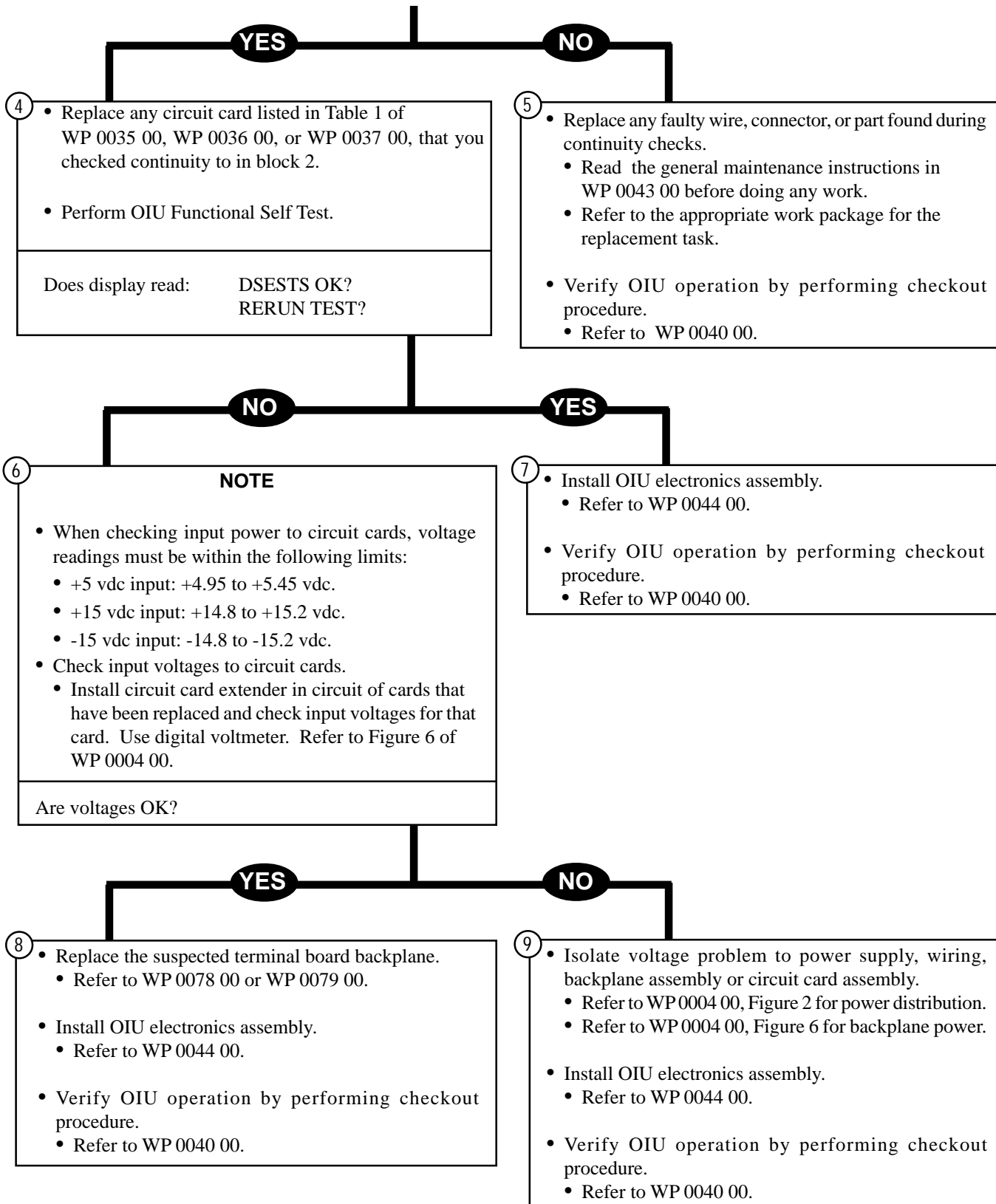
For OIU connector wiring list, see connector wiring list in Table 1 of WP 0035 00, WP 0036 00, and WP 0037 00.

1 Preliminary checks:

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Look at the area of suspected faulty wiring for any loose, broken or burnt wires.
- Look at solder connections for loose or broken connections.
- Look at connector pins and terminal block connections for bad crimp connections or loose pins.

Are there any broken or burnt wires, bad connections, or broken terminal blocks?





TROUBLESHOOTING PROCEDURE**0017 00****SYMPTOM**

OIU FAILS PART ONE OF THE FUNCTIONAL SELF TEST, NO FST ADAPTERS OR FST CABLES CONNECTED TO OIU.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

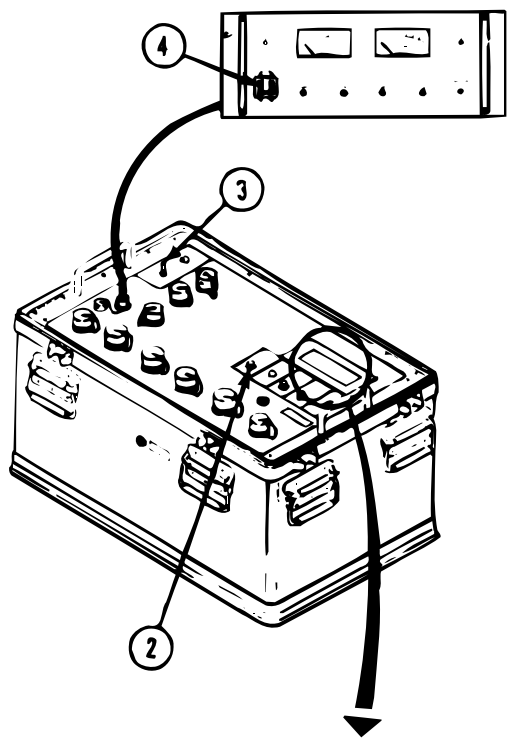
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

NOTE

Part one of the functional self test consists of testing internal OIU functions without the use of any external adapters or cables; refer to WP 0004 00. When the OIU fails during part one of the functional self test, follow the instructions shown on the OIU display to find and replace or repair the faulty part. The following procedure covers a typical fault. Troubleshooting other faults found during part one of the functional self test will be the same except you must follow the display instructions. The first two lines on the display tell you to replace circuit card assemblies or components. The cards or components must be replaced one at a time in the order shown on the display. The third line on the display tells you the OIU connectors and pin numbers associated with the fault. If the fault is still present after replacing all circuit card assemblies and components shown on the display, you must go to the OIU Connector Wiring List, Table 1 of WP 0035 00, WP 0036 00, and WP 0037 00, and find the connector and pin shown on the display. The wiring list will show you the connector pins and wire numbers to check. When replacing circuit card assembly A20, A21, A35 or A36 (Active Terminator), use preferred circuit card assembly, part number 12322192.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or avoid damage to parts.



TYPICAL FAULT MESSAGE

①
FAULTY
A36*A27
TJ9-55

NOTE

For location of parts, see Figure 1 of WP 0004 00. For OIU power input wiring diagram, see Figure 2, of WP 0004 00.

NOTE

When the OIU display reads a fault message, record the message before pressing the YES pushbutton.

①

- When the OIU display (1) reads a fault message, press the YES pushbutton (2).
- Display (1) changes to - DISCONNECT ALL TEST CABLES.
- Press YES pushbutton (2) after all test cables and adapters have been removed.
- Display (1) reads -
CONNECT
MEM-W60 TO
MEMORY MODULE.

②

- Power down OIU.
- Set OIU ON/OFF circuit breaker (3) to OFF.
- Set power supply ON/OFF switch (4) to OFF.

NOTE

Do not turn in or discard removed parts until test has been completed.

③

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Replace circuit card assembly A36.
 - Refer WP 0050 00.

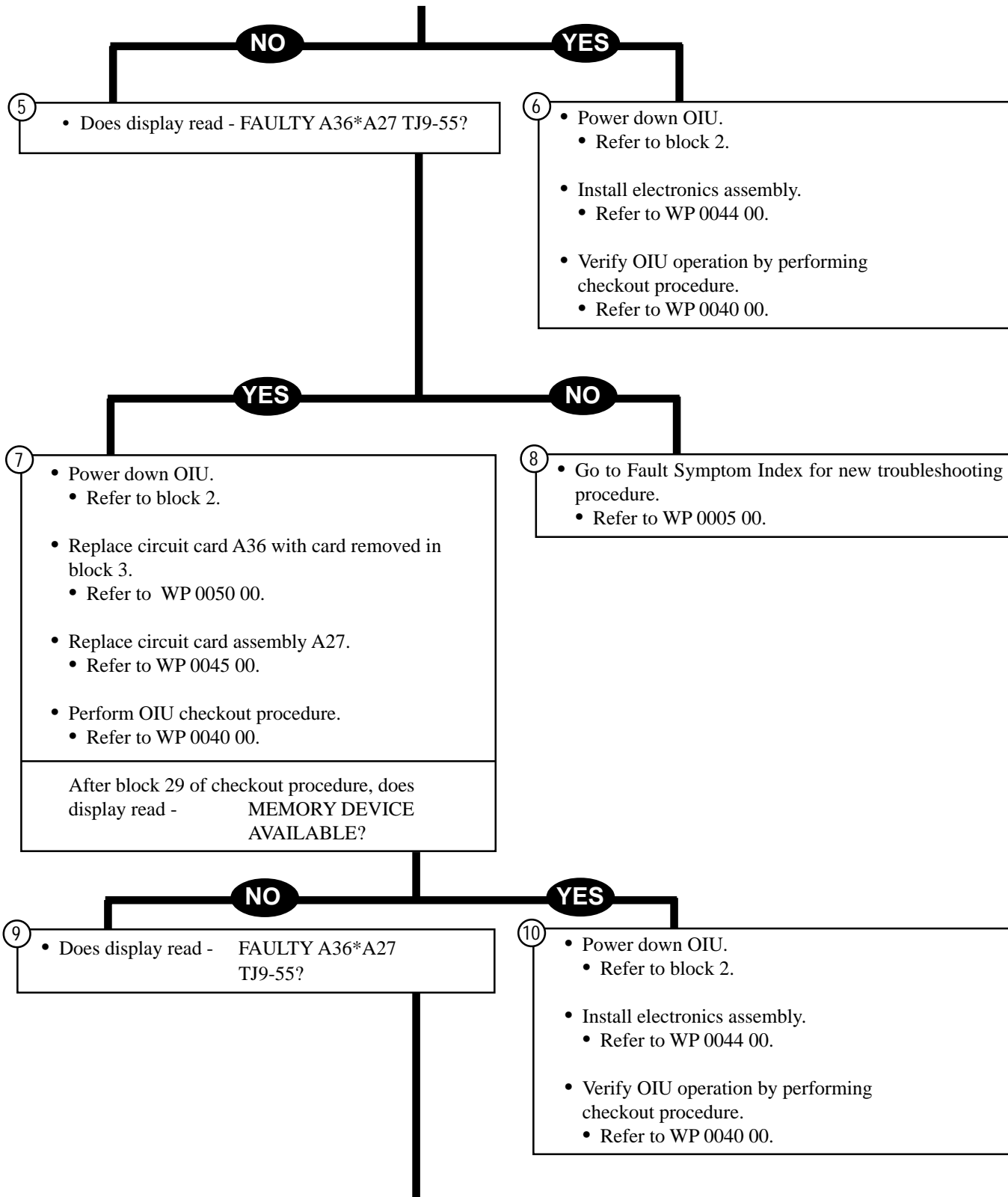
NOTE

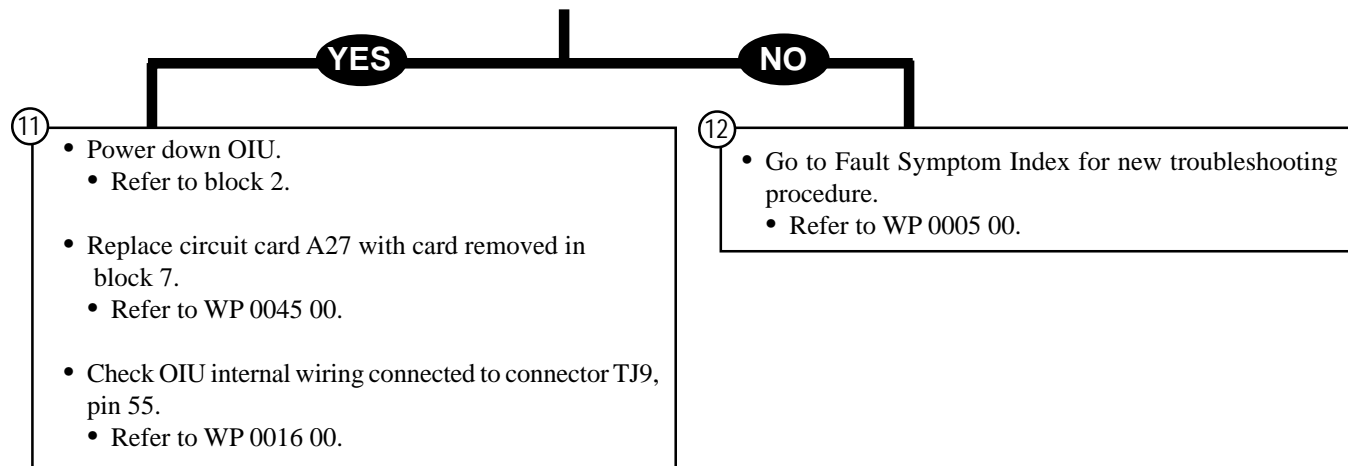
Do not install OIU electronics assembly until test is completed.

④

- Perform OIU checkout procedure.
 - Refer to WP 0040 00.

After block 29 of checkout procedure, does display read -
MEMORY DEVICE
AVAILABLE?





TROUBLESHOOTING PROCEDURE**0018 00****SYMPTOM**

OIU FAILS PART TWO OF FUNCTIONAL SELF TEST, FST ADAPTERS TJ4, TJ5-1, TJ6, TJ7-1, TJ8, TJ9-1, AND TJ10 CONNECTED TO OIU.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

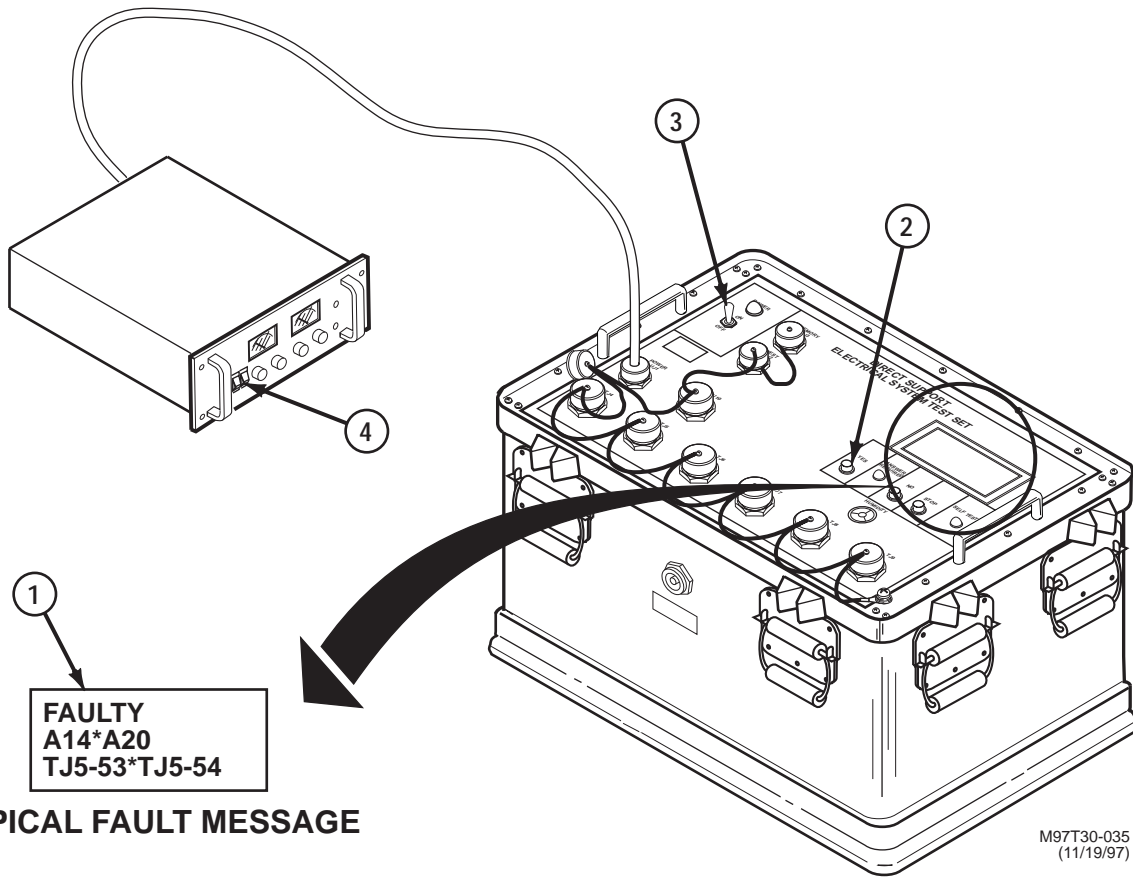
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

NOTE

Part two of the functional self test consists of testing internal OIU functions using the first set of external adapters; refer to WP 0004 00. When the OIU fails during part two of the functional self test, follow the instructions shown on the OIU display to find and replace or repair the faulty part. The following procedure covers a typical fault. Troubleshooting other faults found during part two of the functional self test will be the same except you must follow the display instructions. The first two lines on the display tell you to replace circuit card assemblies or components. The cards or components must be replaced one at a time in the order shown on the display. The third line on the display tells you the OIU connectors and pin numbers associated with the fault. If the fault is still present after replacing all circuit card assemblies and components shown on the display, you must go to the Test Cable Wiring List WP 0034 00, for the adapter connected to the connector shown on the display. The wiring list will show you the pin to pin wiring of the adapter and tell you if the pin shown on the display is jumpered to another pin through the adapter. After checking continuity of the adapter and noting the jumpered pins, you must go to the OIU wiring list and find the connector and pin shown on the display. The wiring list will show you the connector pins and wire numbers to check. When replacing circuit card assembly A20, A21, A35 or A36 (Active Terminator), use preferred circuit card assembly part number 12322192.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or avoid damage to parts.



FAULTY
A14*A20
TJ5-53*TJ5-54

TYPICAL FAULT MESSAGE

NOTE

Refer to Figure 4 of WP 0033 00 for test cable and test adapter connector pin arrangement.

For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

NOTE

When the OIU display reads a fault message, record the message before pressing the YES pushbutton.

- ①
- When the OIU display (1) reads a fault message, press the YES pushbutton (2).
 - Display (1) changes to - DISCONNECT ALL TEST CABLES.
 - Press YES pushbutton (2) after all test cables and adapters have been removed.
 - Display (1) reads -
CONNECT
MEM-W60 TO
MEMORY MODULE.

- ②
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (3) to OFF.
 - Set power supply ON/OFF switch (4) to OFF.

NOTE

Do not turn in or discard removed parts until test has been completed.

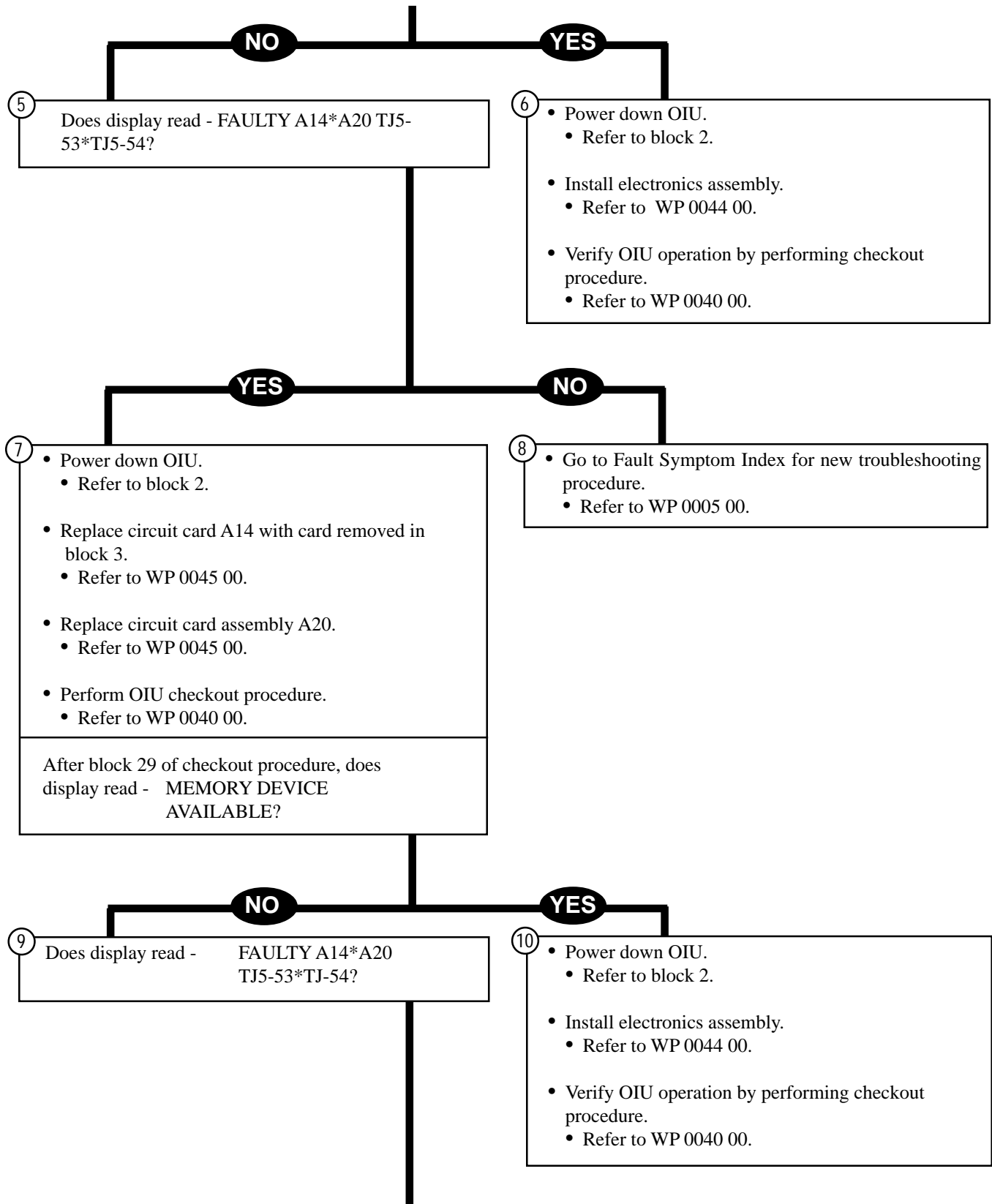
- ③
- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
 - Replace circuit card assembly A14.
 - Refer to WP 0045 00.

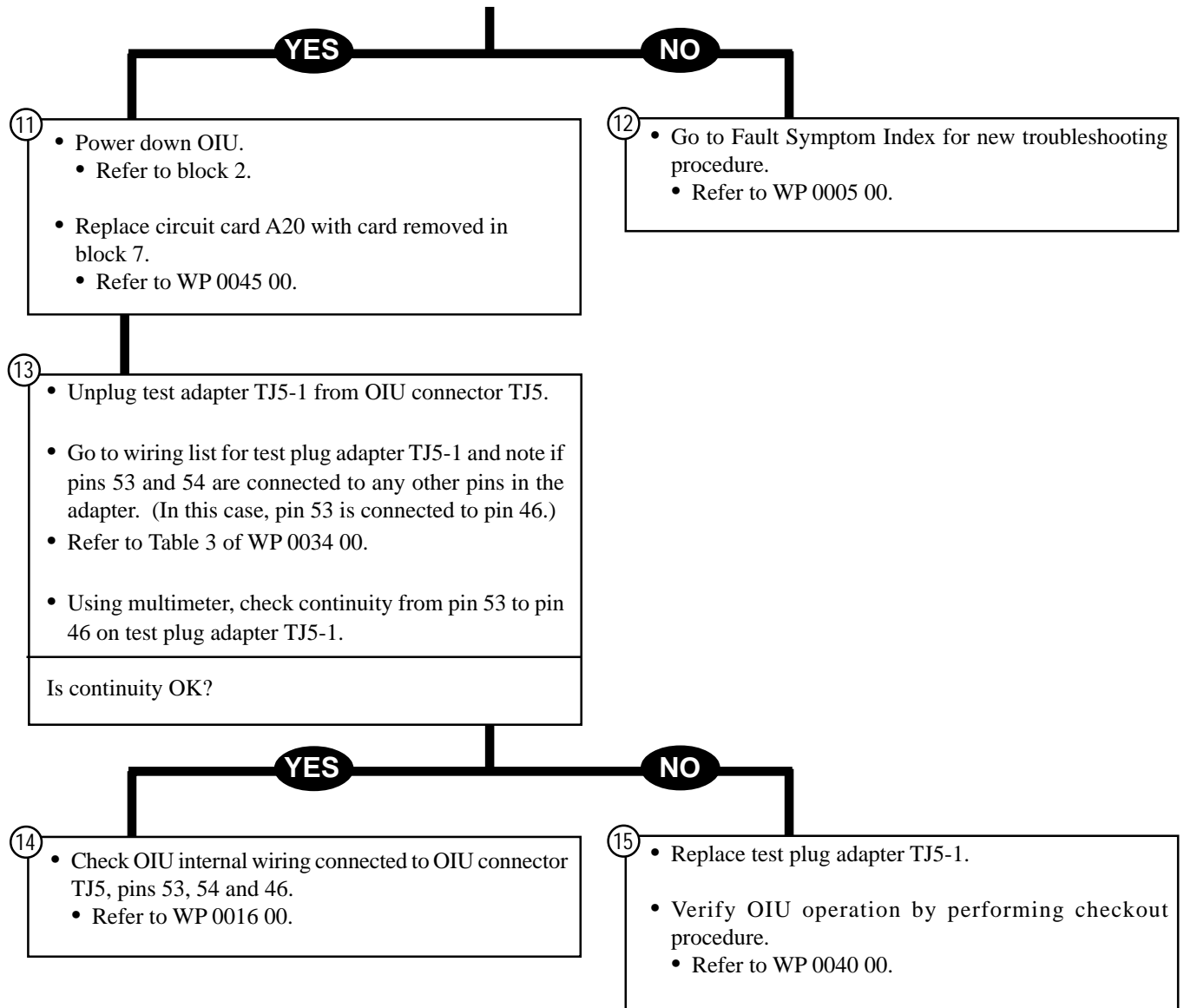
NOTE

Do not install OIU electronics assembly until test is completed.

- ④
- Perform OIU checkout procedure.
 - Refer to WP 0040 00.

After block 29 of checkout procedure, does display read -
MEMORY DEVICE
AVAILABLE?





TROUBLESHOOTING PROCEDURE**0019 00****SYMPTOM**

OIU FAILS PART THREE OF FUNCTIONAL SELF TEST, FST ADAPTERS TJ5-2, TJ7-2, TJ9-2, AND FST CABLES W87 AND W88 CONNECTED TO OIU.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

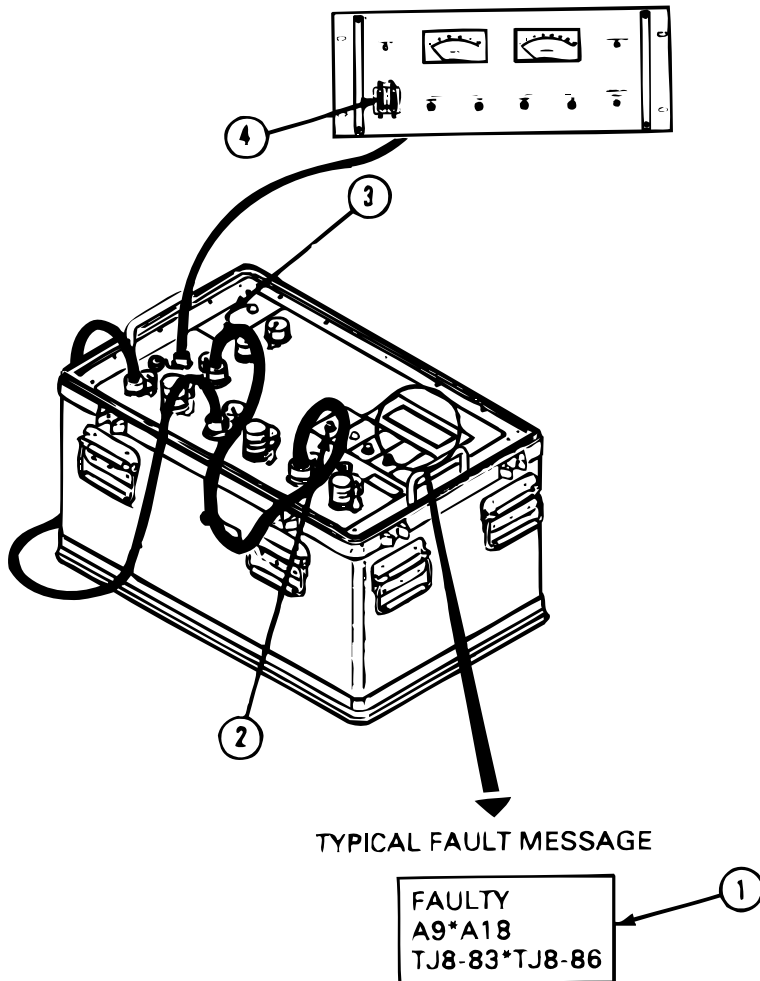
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

NOTE

Part three of the functional self test consists of testing internal OIU functions using the second set of external adapters and cables FST-W87 and FST-W88; refer to WP 0004 00. When the OIU fails during part three of the functional self test, follow the instructions shown on the OIU display to find and replace or repair the faulty part. The following procedure covers a typical fault. Troubleshooting other faults found during part three of the functional self test will be the same except you must follow the display instructions. The first two lines on the display tell you to replace circuit card assemblies or components. The cards or components must be replaced one at a time in the order shown on the display. The third line on the display tells you the OIU connectors and pin numbers associated with the fault. If the fault is still present after replacing all circuit card assemblies and components shown on the display, you must go to the wiring list for the adapter or cable connected to the connector shown on the display. The wiring list will show you the pin to pin wiring of the adapter or cable and tell you if the pin shown on the display is jumpered to another pin through the adapter or cable. Check jumpered pins for continuity. When checking pins of cable FST-W87 or FST-W88, make sure there is an open between the tested pins and the connector backshell. After checking continuity of the adapter or cable and noting the jumpered pins, you must go to the OIU wiring list and find the connector and pin shown on the display. The wiring list will show you the connector pins and wire numbers to check. When replacing circuit card assembly A20, A21, A35 or A36 (Active Terminator), use preferred circuit card assembly, part number 12322192.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or avoid damage to parts.



NOTE

Refer to Figure 4 of WP 0033 00 for test cable and test adapter connector pin arrangement.

For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

NOTE

When the OIU display reads a fault message, record the message before pressing the YES pushbutton.

- ①
- When the OIU display (1) reads a fault message, press the YES pushbutton (2).
 - Display (1) changes to - DISCONNECT ALL TEST CABLES.
 - Press YES pushbutton (2) after all test cables and adapters have been removed.
 - Display (1) reads -
CONNECT
MEM-W60 TO
MEMORY MODULE.

- ②
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (3) to OFF.
 - Set power supply ON/OFF switch (4) to OFF.

NOTE

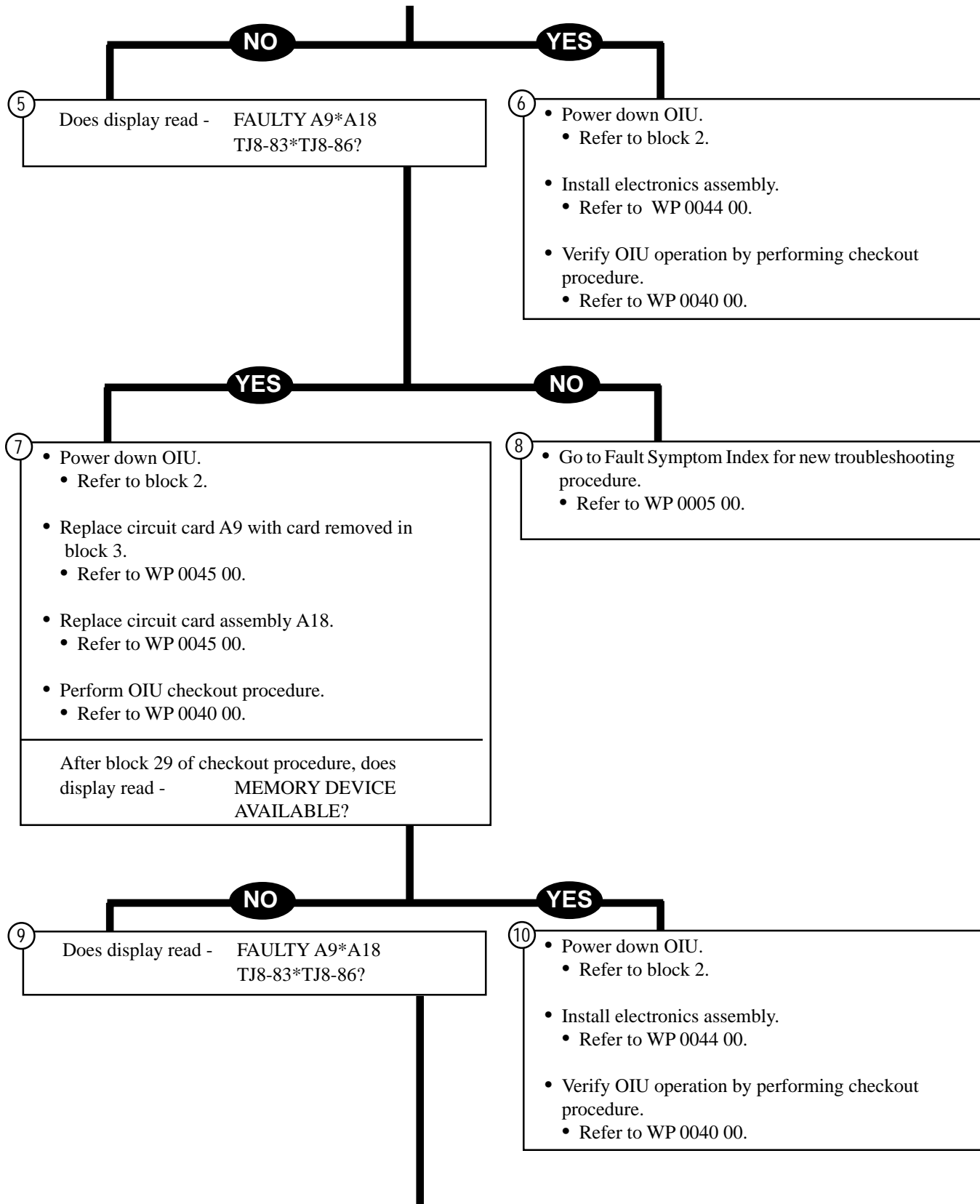
Do not turn in or discard removed parts until test has been completed.

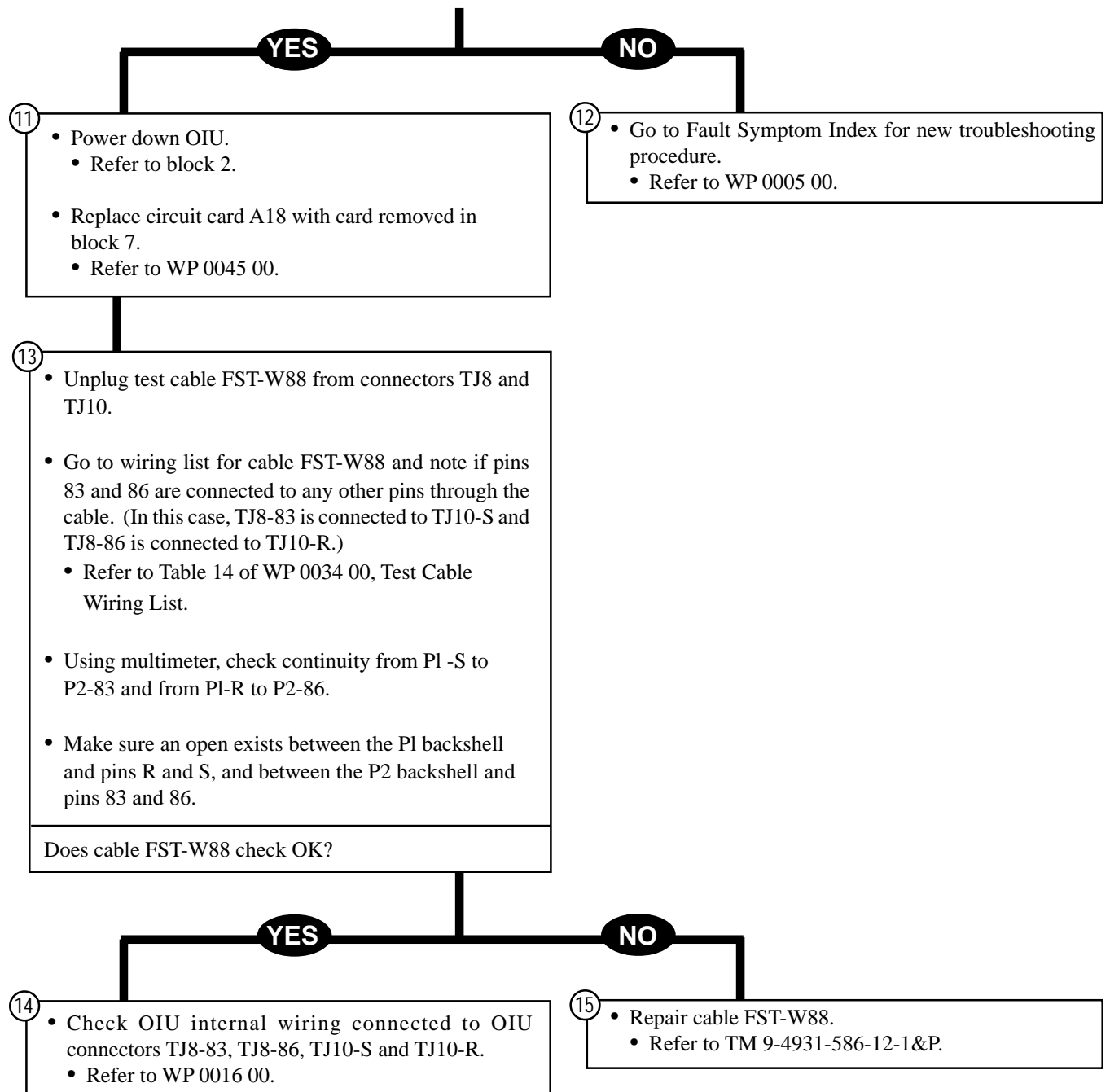
- ③
- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
 - Replace circuit card assembly A9.
 - Refer to WP 0045 00.

NOTE

Do not install OIU electronics assembly until test is completed.

- ④
- Perform OIU checkout procedure.
 - Refer to WP 0040 00.
- After block 29 of checkout procedure, does display read -
MEMORY DEVICE
AVAILABLE?





TROUBLESHOOTING PROCEDURE**0020 00****SYMPTOM**

OIU FAILS PART FOUR OF FUNCTIONAL SELF TEST, MEMORY MODULE CONNECTED TO OIU.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

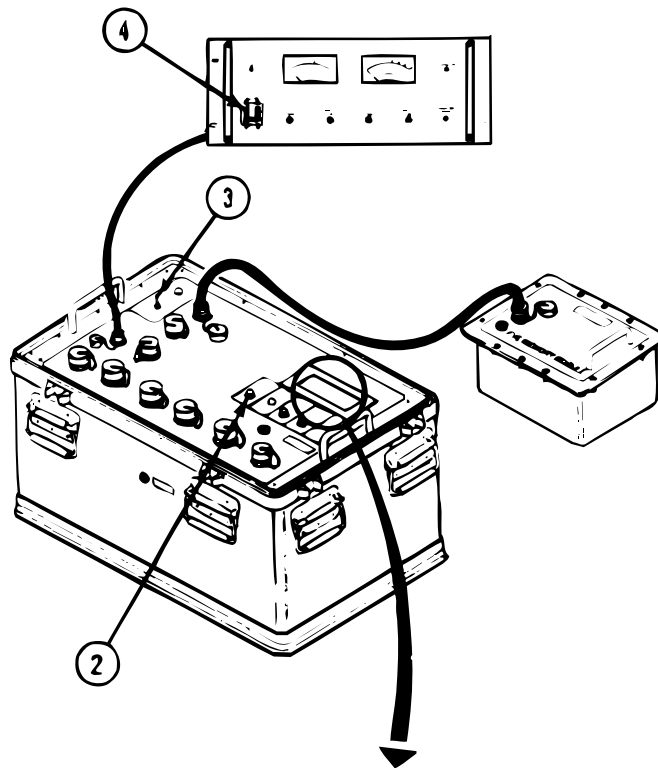
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

NOTE

Part four of the functional self test consists of testing OIU connectors UJ2 and UJ3 circuitry and circuit card assemblies A5, A34 and A38 by downloading the memory module contents through cables FST-W86 and MEM-W60. When the OIU fails during part four of the functional self test, the display will tell you to replace circuit cards A5, A34 and A38. If the fault is still present after replacing the cards, you must go to the OIU connector wiring list, WP 0036 00, for OIU connectors UJ2 and UJ3 and check the internal wiring from the connectors.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or avoid damage to parts.



TYPICAL FAULT MESSAGE

1
 FAULTY MEMORY
 MODULE A34*A5
 MEM J1*UJ3

NOTE

Refer to Figure 4 of WP 0033 00 for test cable and test adapter connector pin arrangement.

For location of parts, see Figure 1 of WP 0004 00.

For OIU input power wiring diagram, see Figure 2 of WP 0004 00.

NOTE

When the OIU display reads a fault message, record the message before pressing the YES pushbutton.

- ①
- When the OIU display (1) reads a fault message, press the YES pushbutton (2).
 - Display (1) changes to - DISCONNECT ALL TEST CABLES.
 - Press YES pushbutton (2) after all test cables and adapters have been removed.
 - Display (1) reads -
CONNECT
MEM-W60 TO
MEMORY MODULE.

- ②
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (3) to OFF.
 - Set power supply ON/OFF switch (4) to OFF.

NOTE

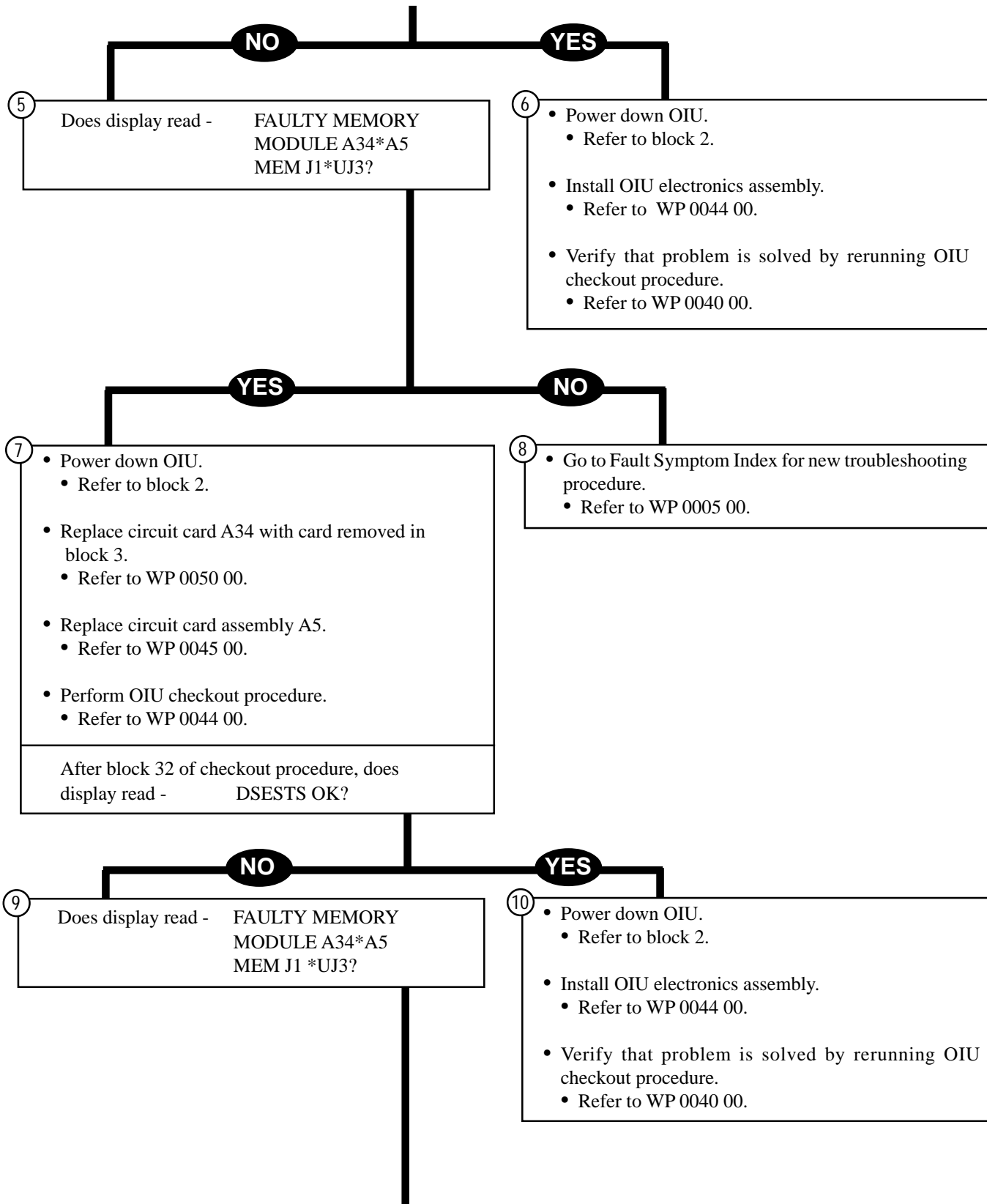
Do not turn in or discard removed parts until test has been completed.

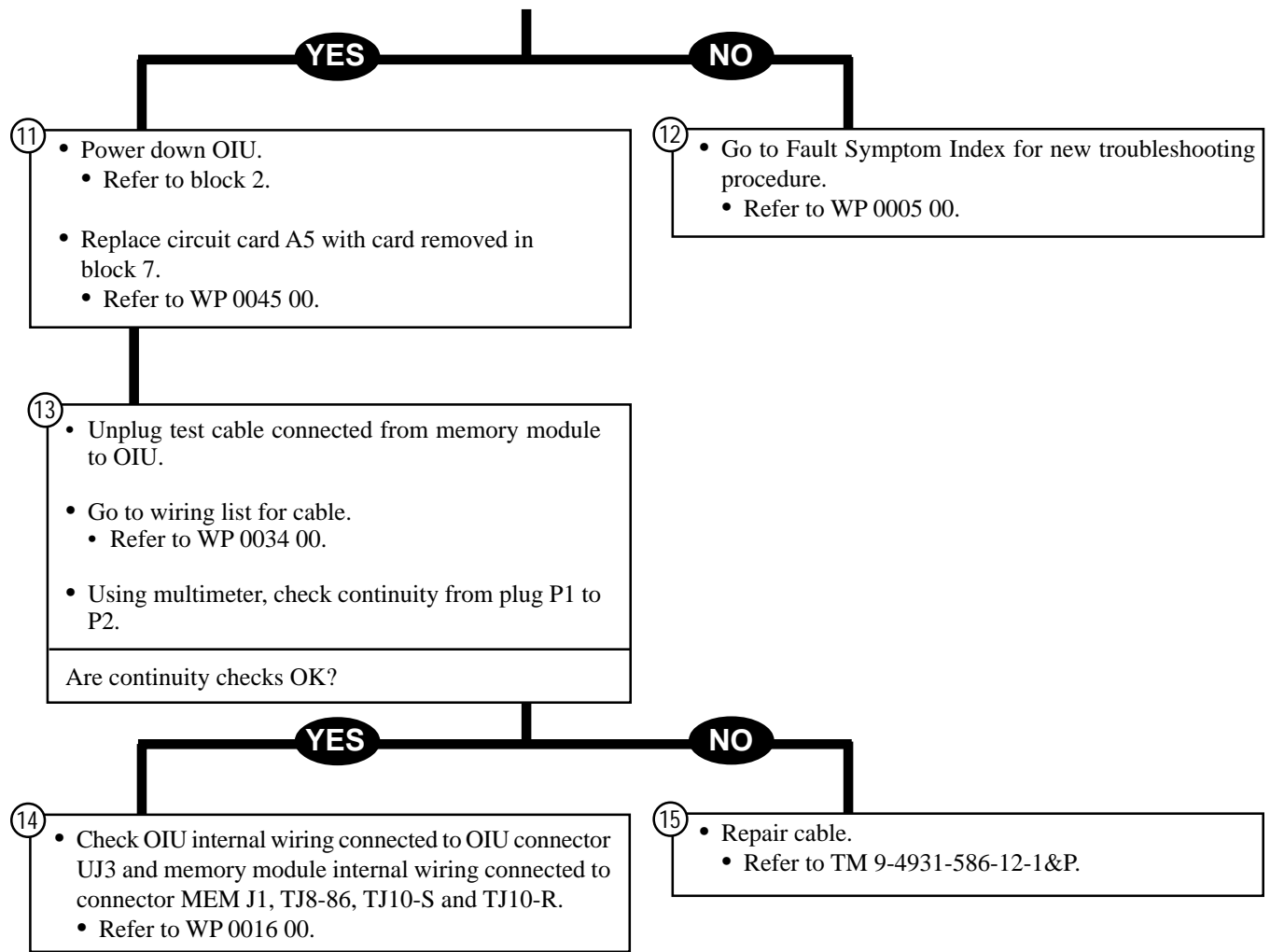
- ③
- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
 - Replace circuit card assembly A34.
 - Refer to WP 0050 00.

NOTE

Do not install OIU electronics assembly until test is completed.

- ④
- Perform OIU checkout procedure.
 - Refer to WP 0040 00.
- After block 32 of checkout procedure, does display read - DSESTS OK?





TROUBLESHOOTING PROCEDURE**0021 00****SYMPTOM**

OIU FAILS FUNCTIONAL SELF TEST AND
DISPLAY READS - FAULTY HARNESS.

Test Equipment/Special Tools:

- None

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

TYPICAL FAULT MESSAGE

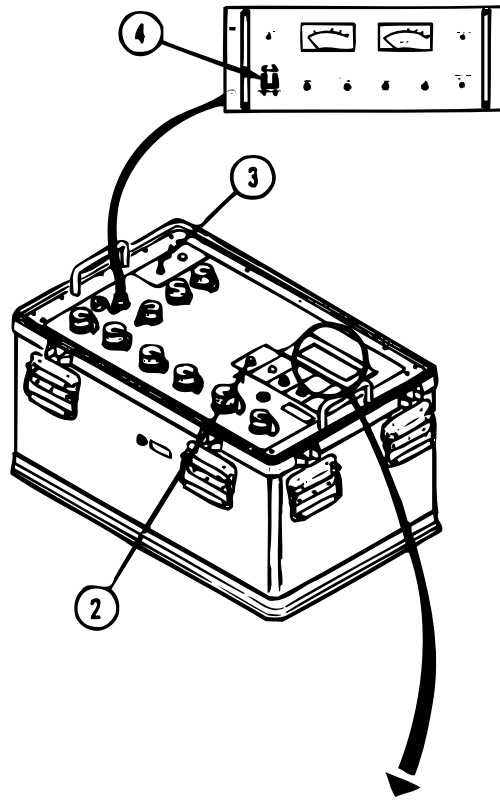
FAULTY
HARNESS
TJ6-60

NOTE

When OIU fails functional self test and the display reads - FAULTY HARNESS - the third line on the display tells you the OIU connectors and pin numbers associated with the fault. When this fault message appears on the display, you must go to the OIU Connector Wiring List, Table 1, of WP 0037 00, WP 0038 00, and WP 0039 00. Find the connector and pin number shown on the display. The wiring list will show you the connector pins and wire numbers to check.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to part.



TYPICAL FAULT MESSAGE

①
 FAULTY
 HARNESS
 TJ6-60

NOTE

When the OIU display reads a fault message, record the message before pressing the YES pushbutton.

- ①
- When the OIU display (1) reads - FAULTY HARNESS - press the YES pushbutton (2).
 - Display (1) changes to - DISCONNECT ALL TEST CABLES.
 - Press YES pushbutton (2) after all test cables and adapters have been removed.
- | | |
|---------------------|---|
| Display (1) reads - | CONNECT
MEM-W60 TO
MEMORY MODULE. |
|---------------------|---|

2

- Power down OIU.
- Set OIU ON/OFF circuit breaker (3) to OFF.
- Set power supply ON/OFF switch (4) to OFF.

3

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Check internal wiring to connector pin shown on display. Use multimeter.
 - Refer to WP 0016 00.

SYMPTOM

OIU COOLING FAN NOT RUNNING WITH ON/OFF
CIRCUIT BREAKER ON.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- OIU electronics assembly removed from the case.
- Power supply connected to OIU.

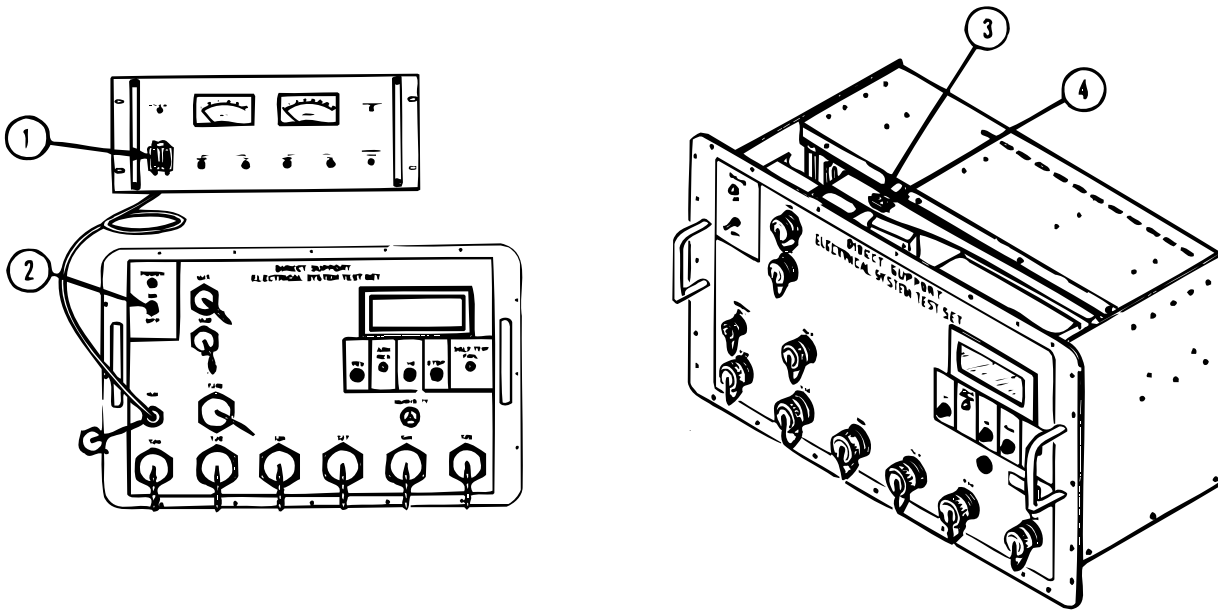
CAUTION

Set power supply ON/OFF switch to OFF before replacing
faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

For OIU input power wiring diagram, see Figure 2 of
WP 0004 00.



1

- Check voltage input to fan assembly connector P102.
- Set power supply ON/OFF switch (1) to ON.
- Set OIU ON/OFF circuit breaker (2) to ON.
- Using multimeter, check for at least 18 vdc at connector plug P102 (3) pin A (-) and pin C (+).

Does multimeter show between +18 and +30 vdc?

YES

NO

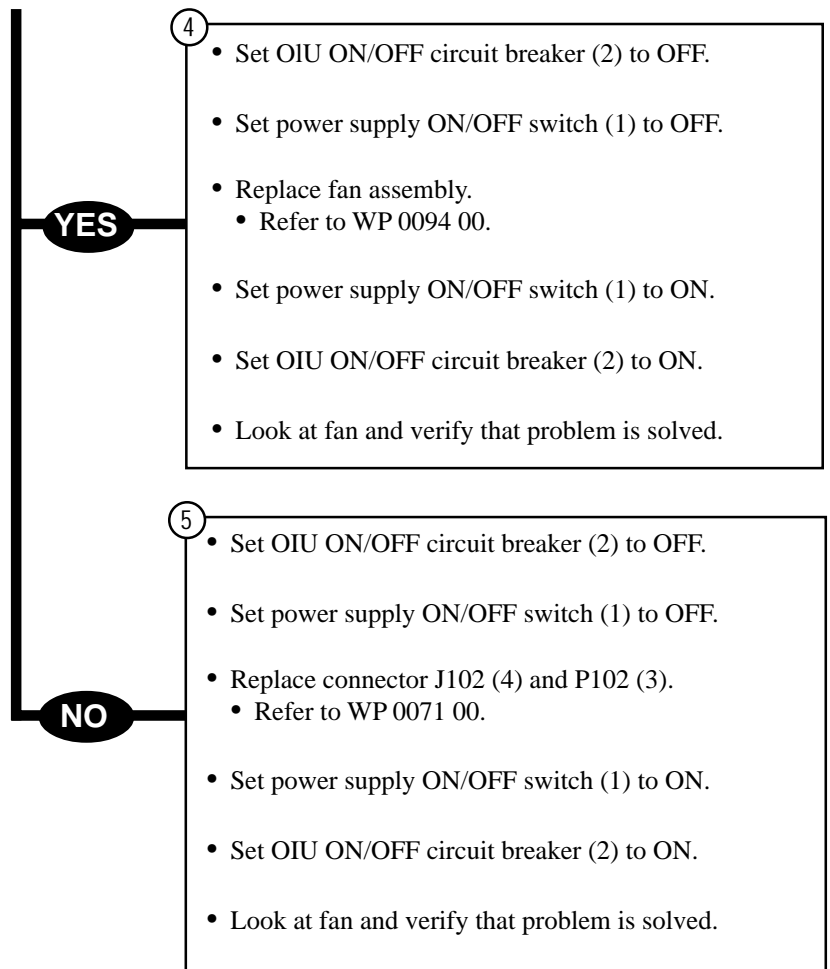
2

- Check voltage input to fan assembly.
- Using multimeter, check for at least 18 vdc at connector J102 (4) pin A (-) and pin C (+).

Does multimeter show between +18 and +30 vdc?

3

- Set OIU ON/OFF circuit breaker (2) to OFF.
- Set power supply ON/OFF switch (1) to OFF.
- Troubleshoot and repair connector P102 wiring.
 - Refer to WP 0016 00 and Figure 2 of WP 0004 00.



SYMPTOM

PROBE FOUND FAULTY DURING FUNCTIONAL SELF TEST OR LRU TESTING.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

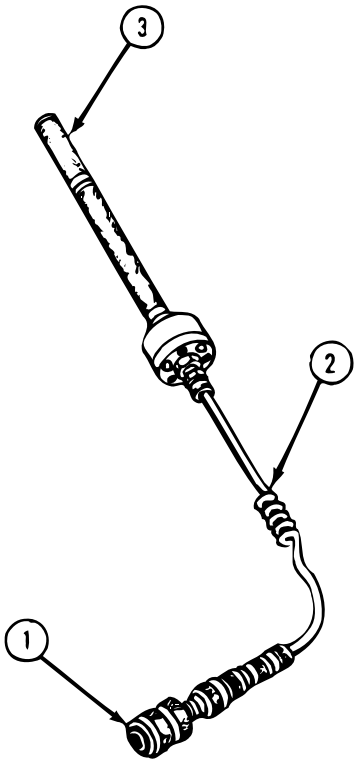
- Test probe on clean workbench.

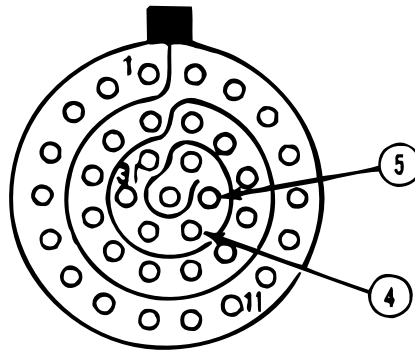
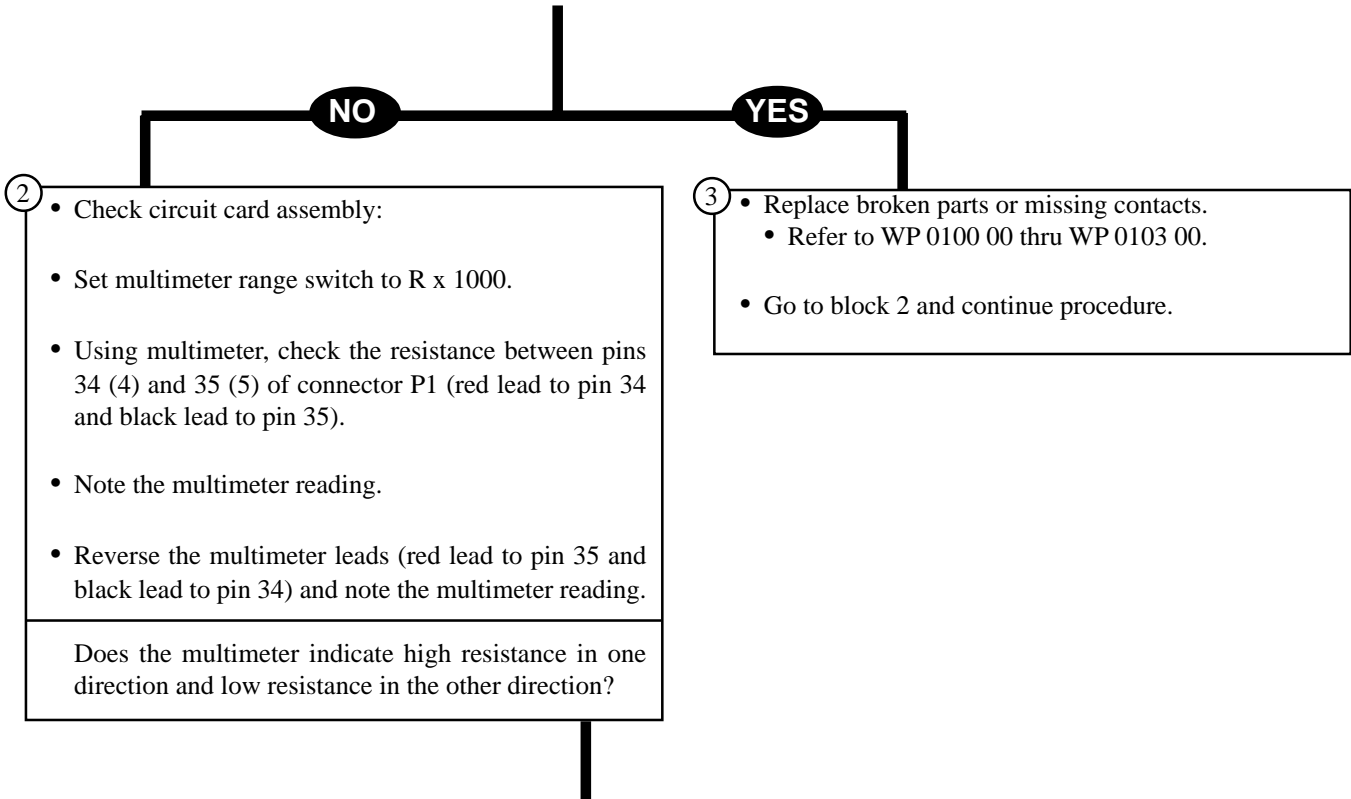
NOTE

Refer to Figure 2 of W 0033 00 for test probe wiring diagram.

- ①
- Look at cable connector (1) for broken, bent or missing contacts.
 - Look at cable (2) for any cuts or breaks.
 - Look at probe housing (3) for any loose or missing parts, or broken probe tip.

Any broken parts, or bent or missing contacts?





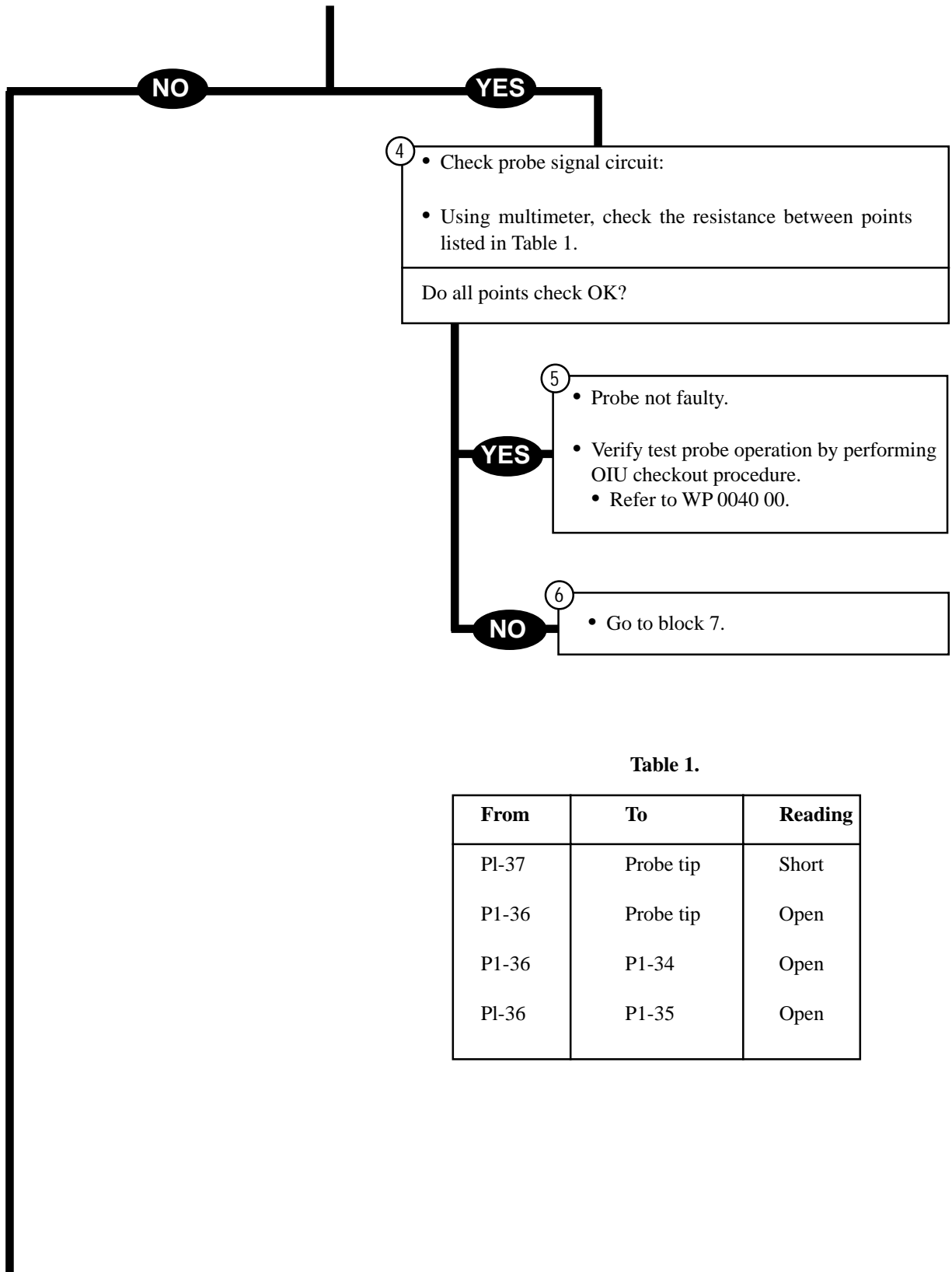
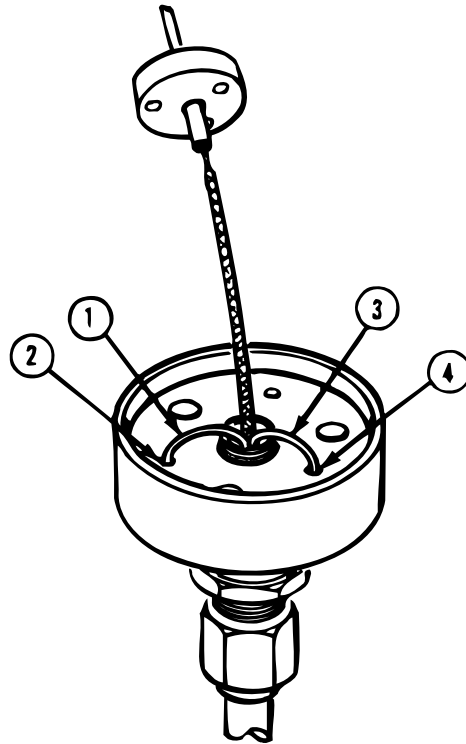


Table 1.

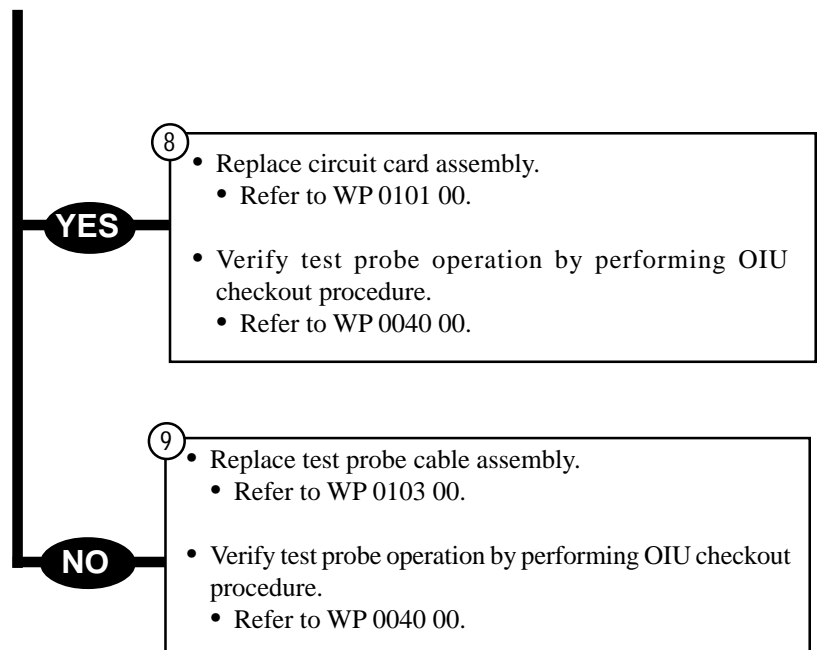
From	To	Reading
P1-37	Probe tip	Short
P1-36	Probe tip	Open
P1-36	P1-34	Open
P1-36	P1-35	Open

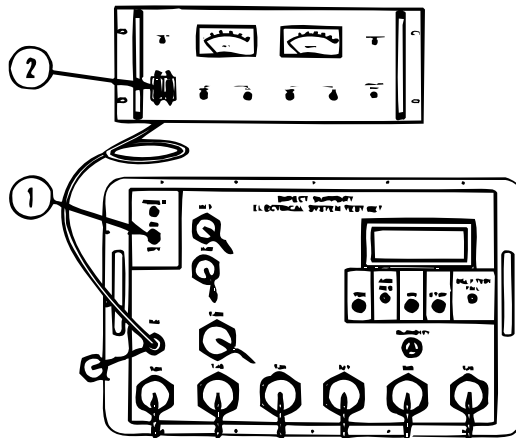


- 7
- Check probe cable wiring.
 - Remove test probe front housing assembly
 - Refer to WP 0100 00.
 - Unsolder red wire (1) from terminal E1 (2).
 - Unsolder black wire (3) from terminal E2 (4).
 - Using multimeter, check the resistance between points listed in Table 2.
- Do all points check OK?

Table 2.

From	To	Reading
P1-34	Red wire	Short
P1-35	Black wire	Short
P1-37	White wire	Short
P1-34	P1-35	Open
P136	P1-37	Open
P1-34	P1-36	Open
P1-34	P1-37	Open
P1-35	P1-36	Open
P1-35	P1-37	Open





SYMPTOM

DISPLAY READS - WARNING TEMP LIMITS EXCEEDED XXX.X DEGS F.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

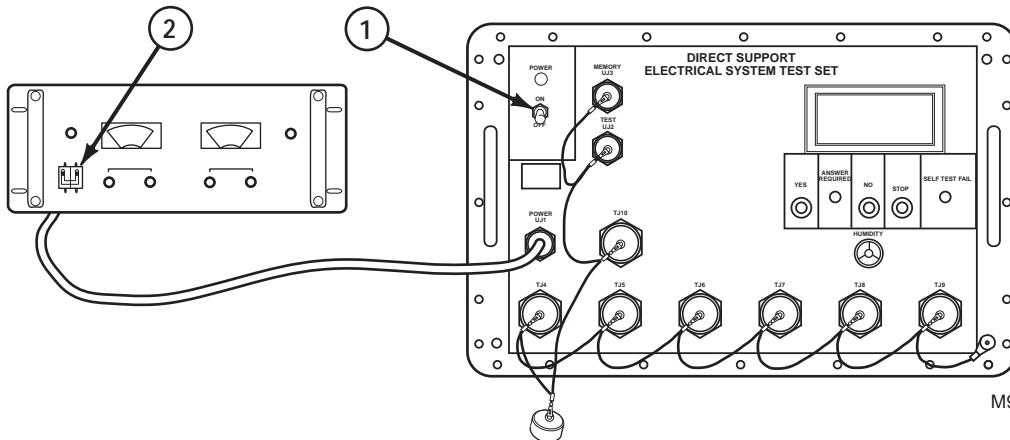
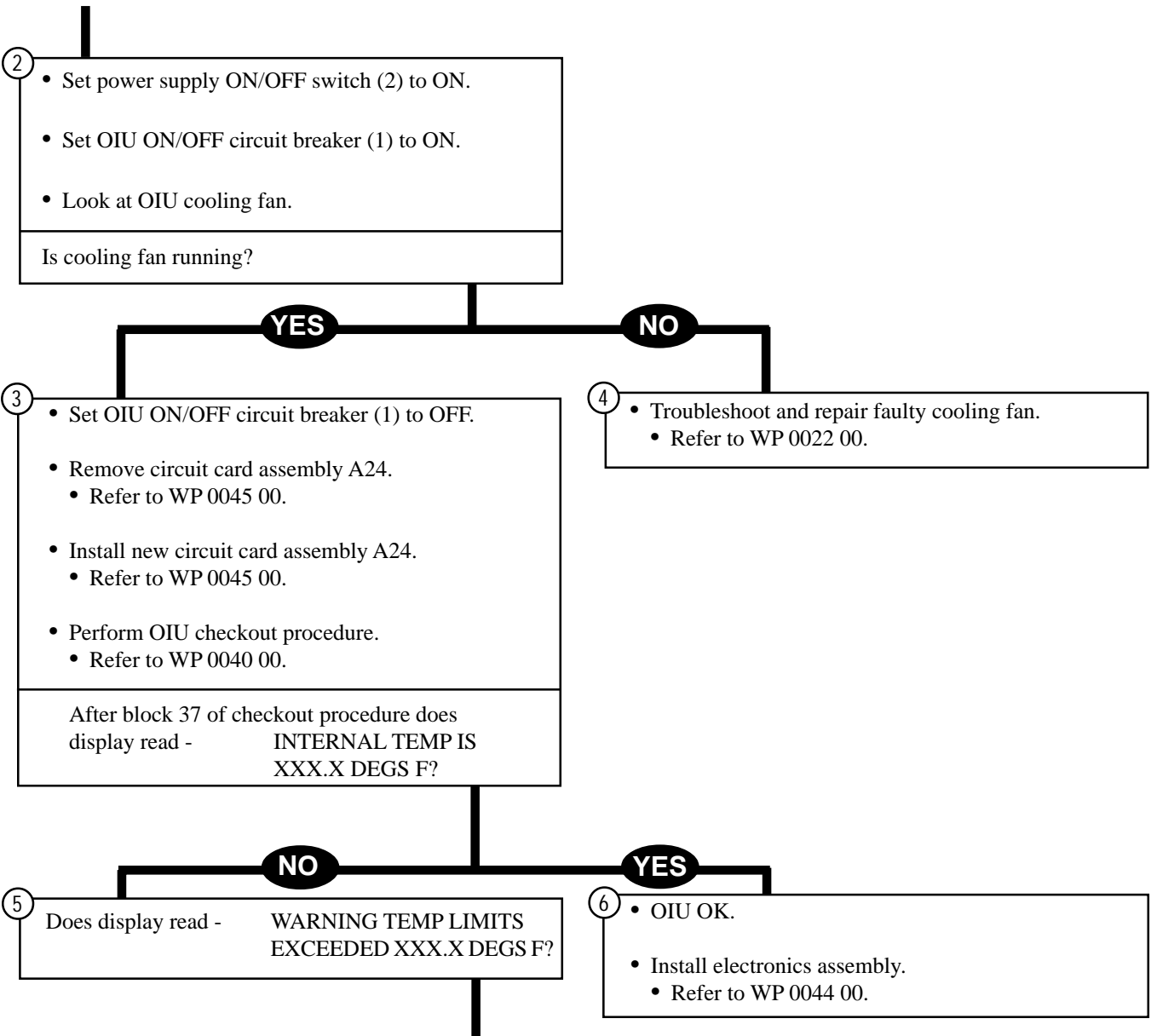
NOTE

For location of parts, see Figure 1 of WP 0004 00.

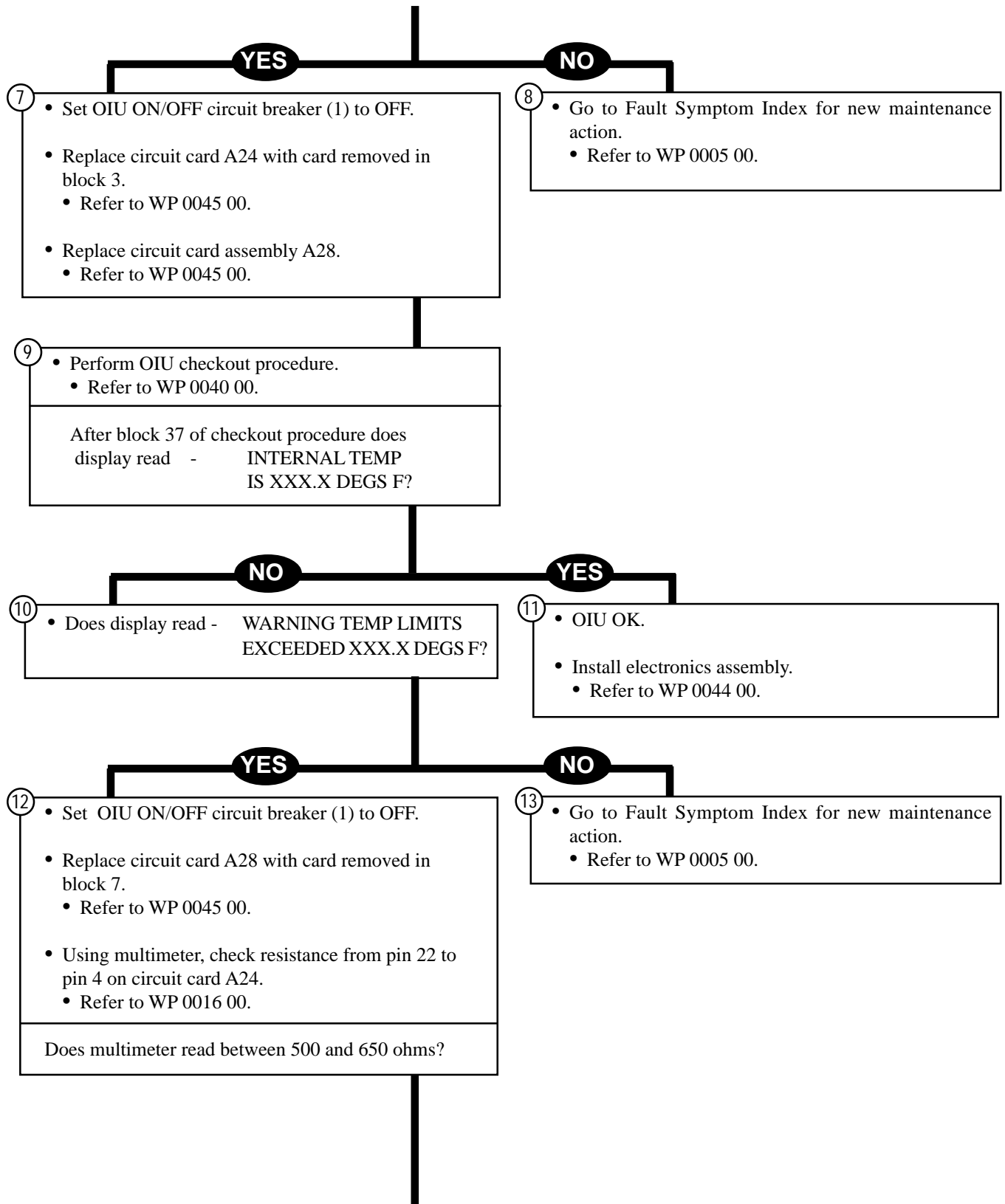
- ①
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.
 - Remove electronics assembly.
 - Refer to WP 0044 00.

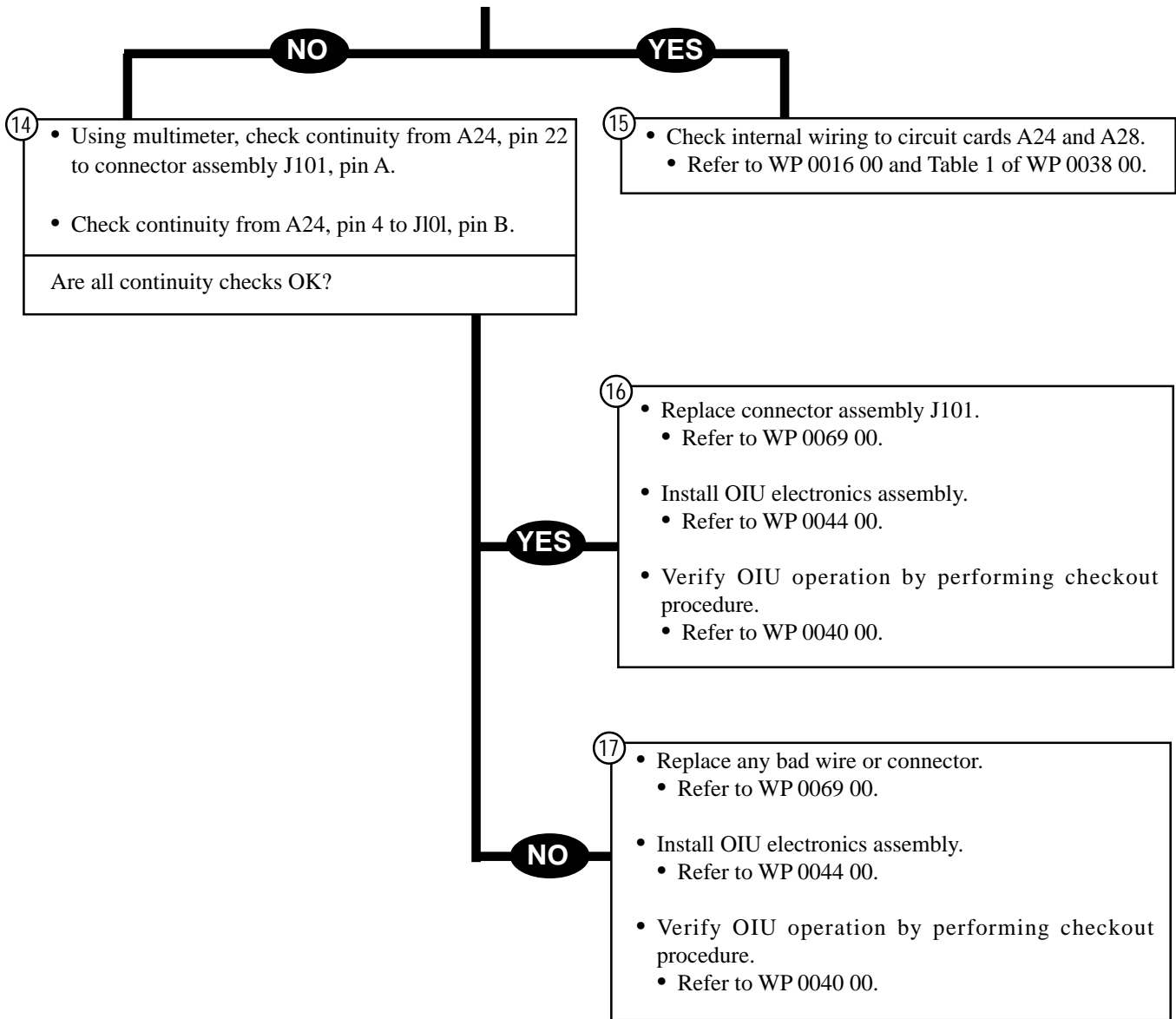
NOTE

Do not install electronics assembly until test is completed.



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(9/16/97)





SYMPTOM

OIU FAILS LRU TEST DOWNLOAD AND
DISPLAY READS - FAULTY MEMORY
MODULE AI *AX.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.

- ①
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.

NOTE

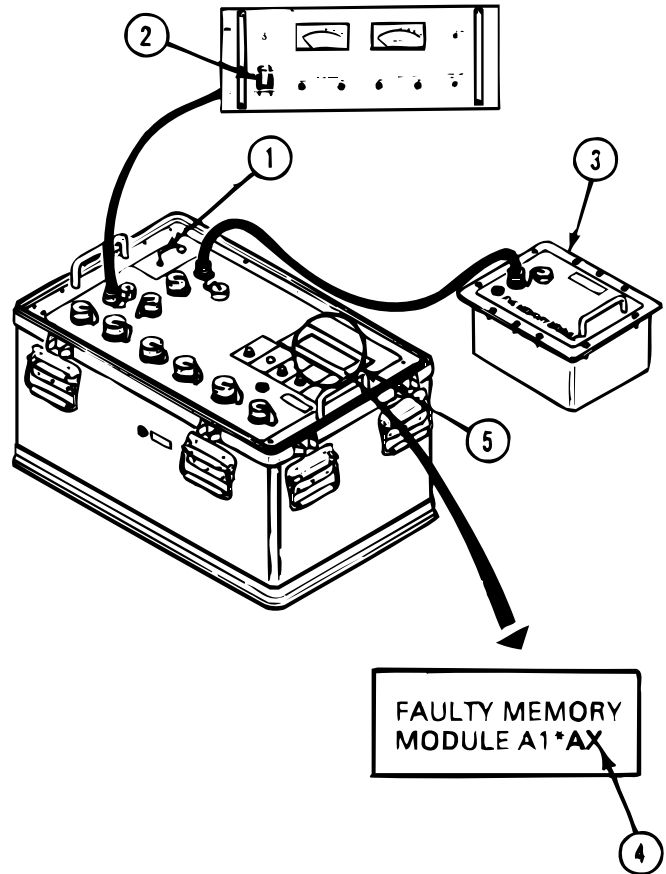
Do not turn in or discard removed parts until test has been completed.

- ②
- Remove memory module (3) cover assembly.
 - Refer to WP 0105 00.
 - Replace the second circuit card assembly (4) shown on display (5).
 - Refer to WP 0106 00.

NOTE

Do not install memory module cover assembly until test is completed.

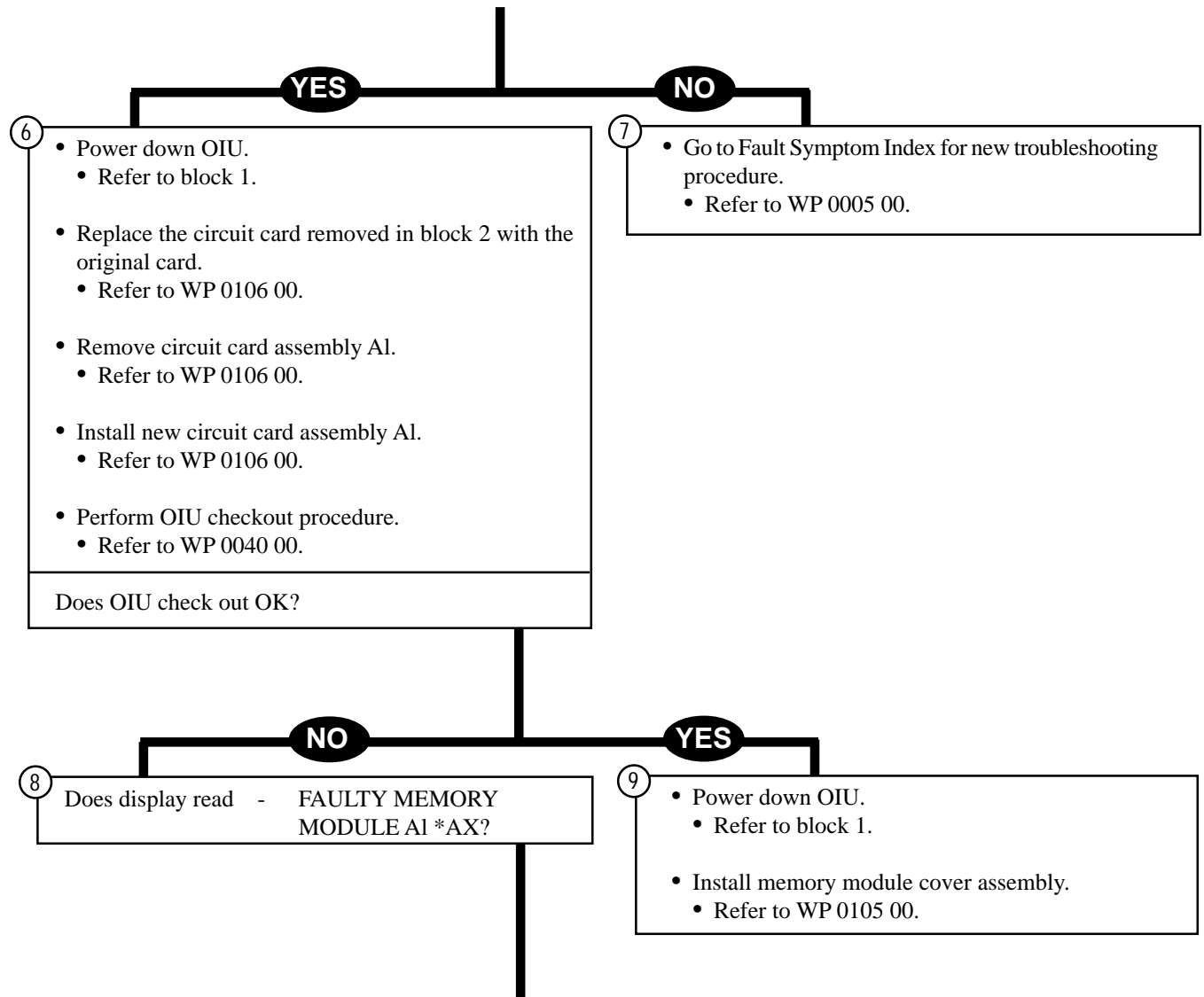
- ③
- Perform OIU checkout procedure.
 - Refer to WP 0040 00.
- Does OIU check out OK?

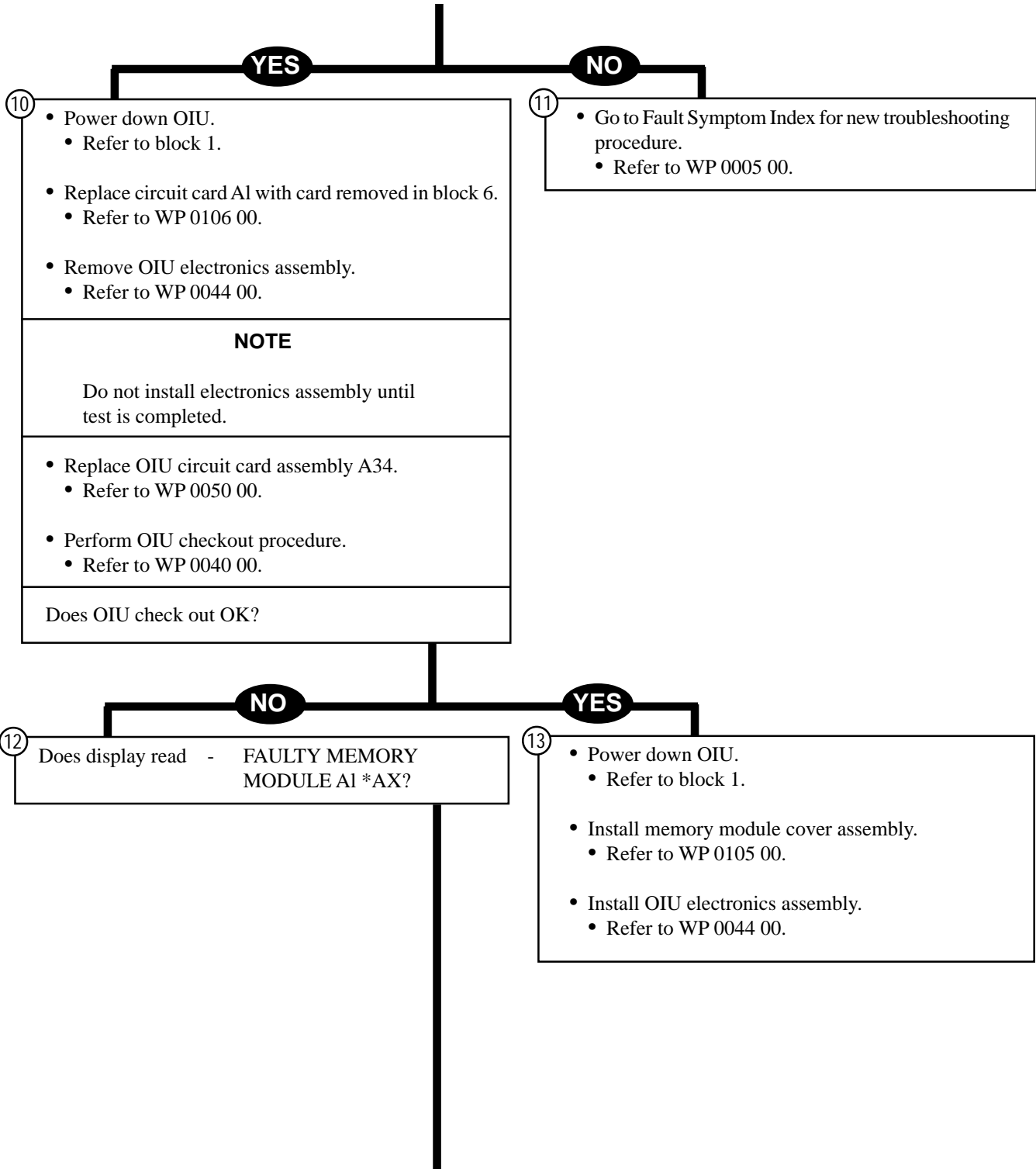


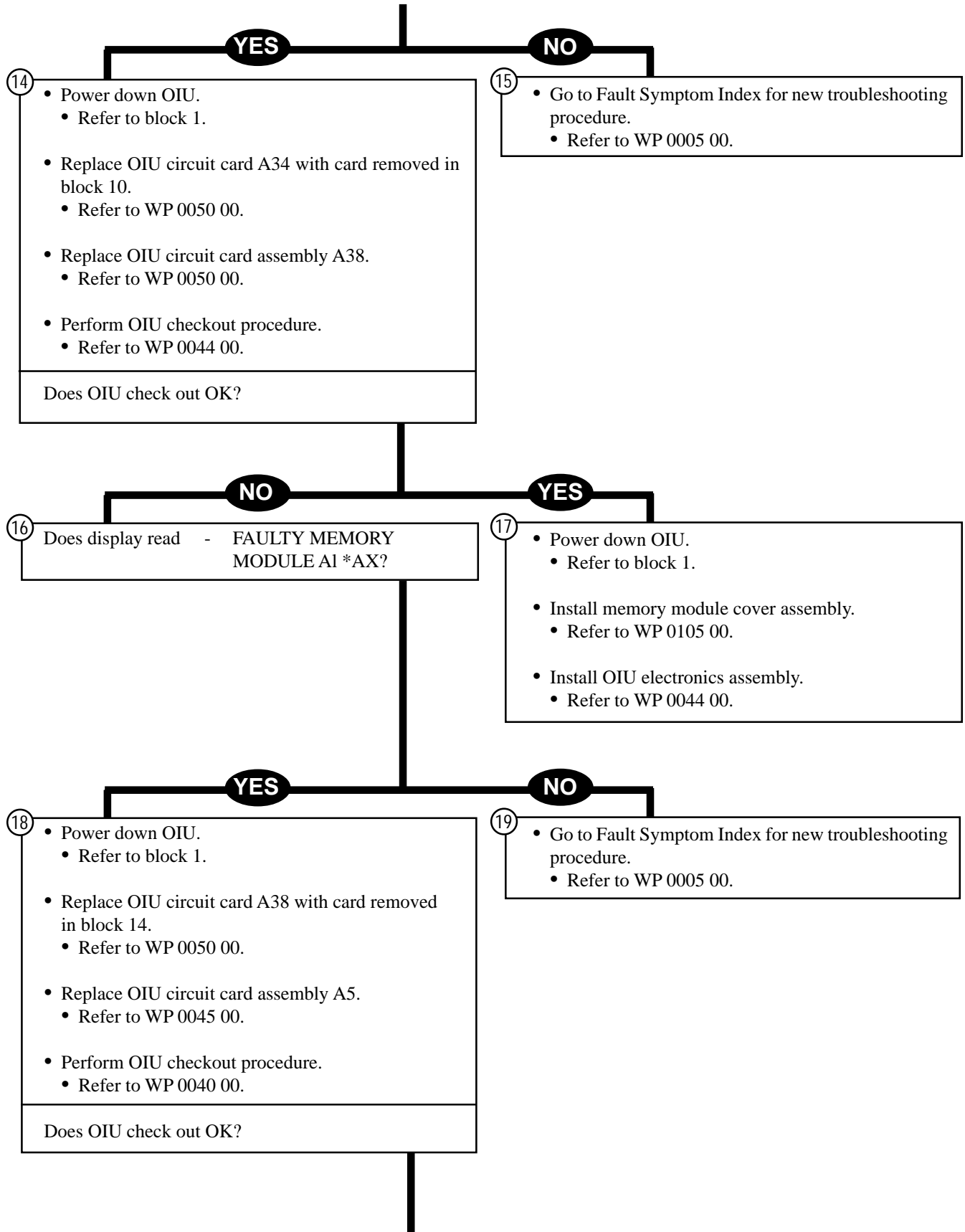
NO

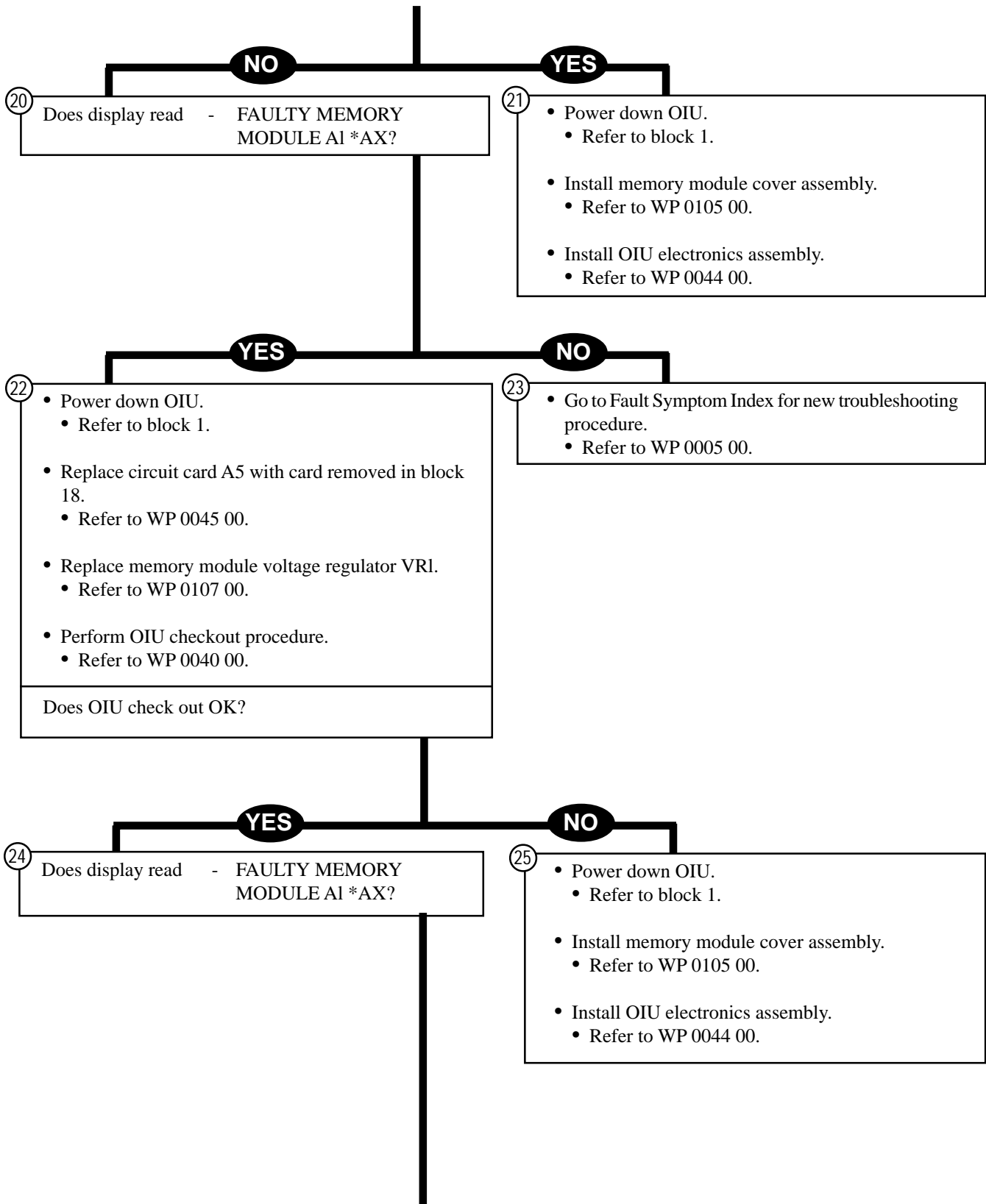
④ Does display read - FAULTY MEMORY MODULE A1 *AX?

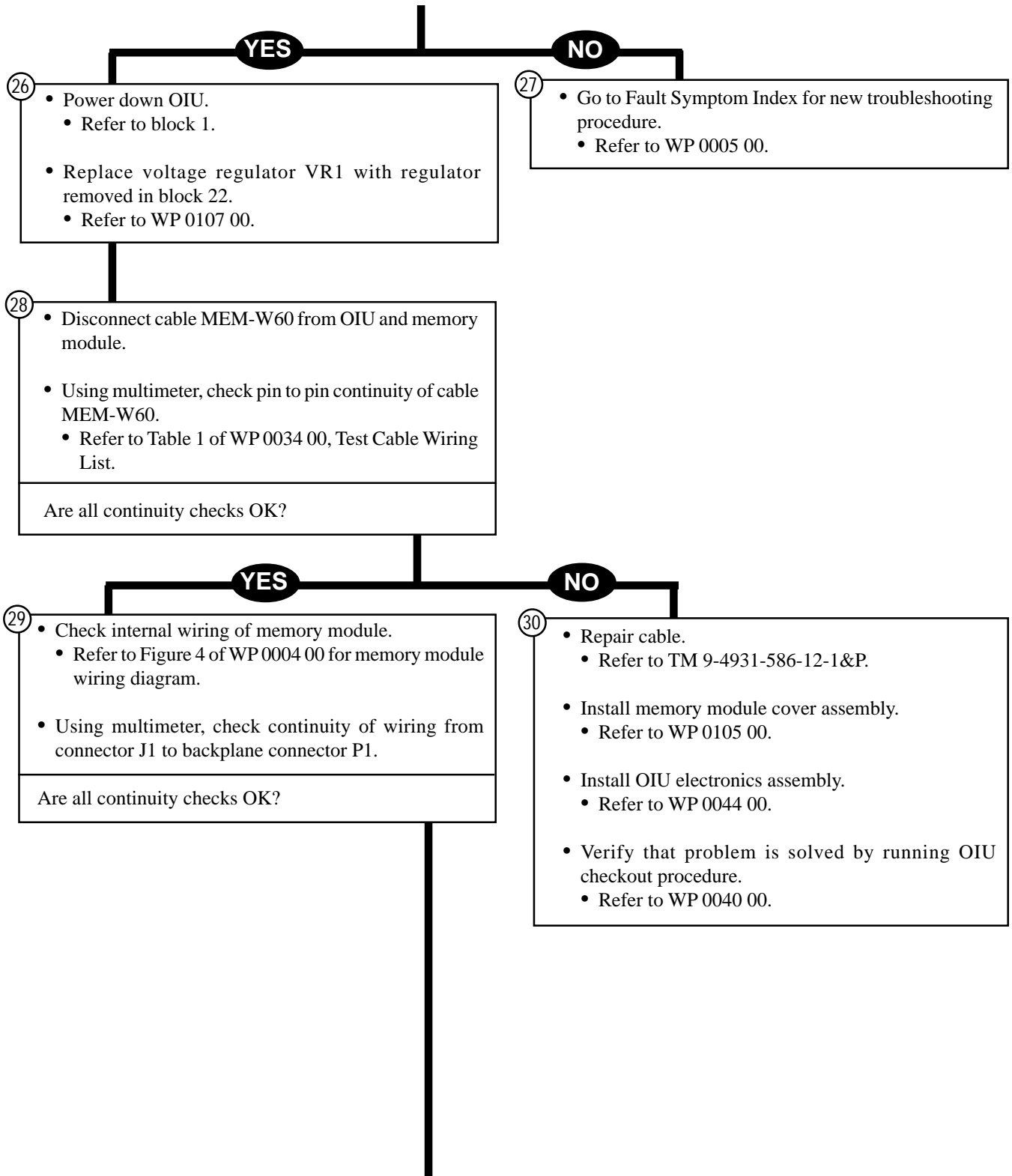
- YES**
- ⑤
- Power down OIU.
 - Refer to block 1.
 - Install memory module cover assembly.
 - Refer to WP 0105 00.

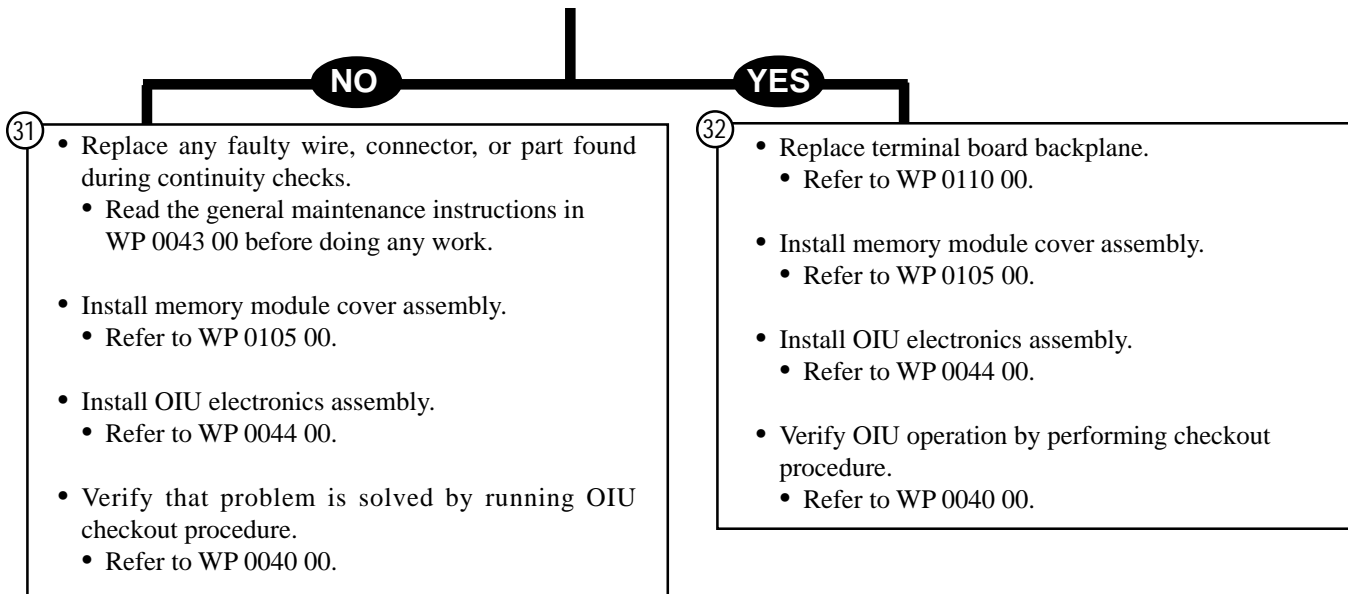












SYMPTOM

OIU FAILS FUNCTIONAL SELF TEST AND
DISPLAY READS - FAULTY
UNIT INPUT OVERLOAD
GEN 100.

Test Equipment/Special Tools:

- Extender circuit card
- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Functional self test in progress.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or doing any continuity checks to

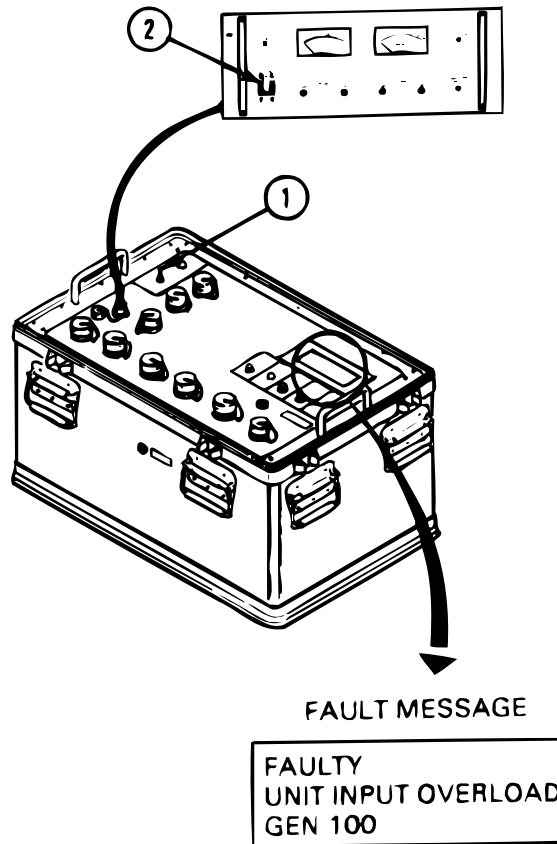
NOTE

For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

For load plate assembly wiring diagram, see Figure 3 of WP 0004 00.

For OIU connector wiring list, see Table 1 in WP 0035 00, WP 0036 00, and WP 0037 00.

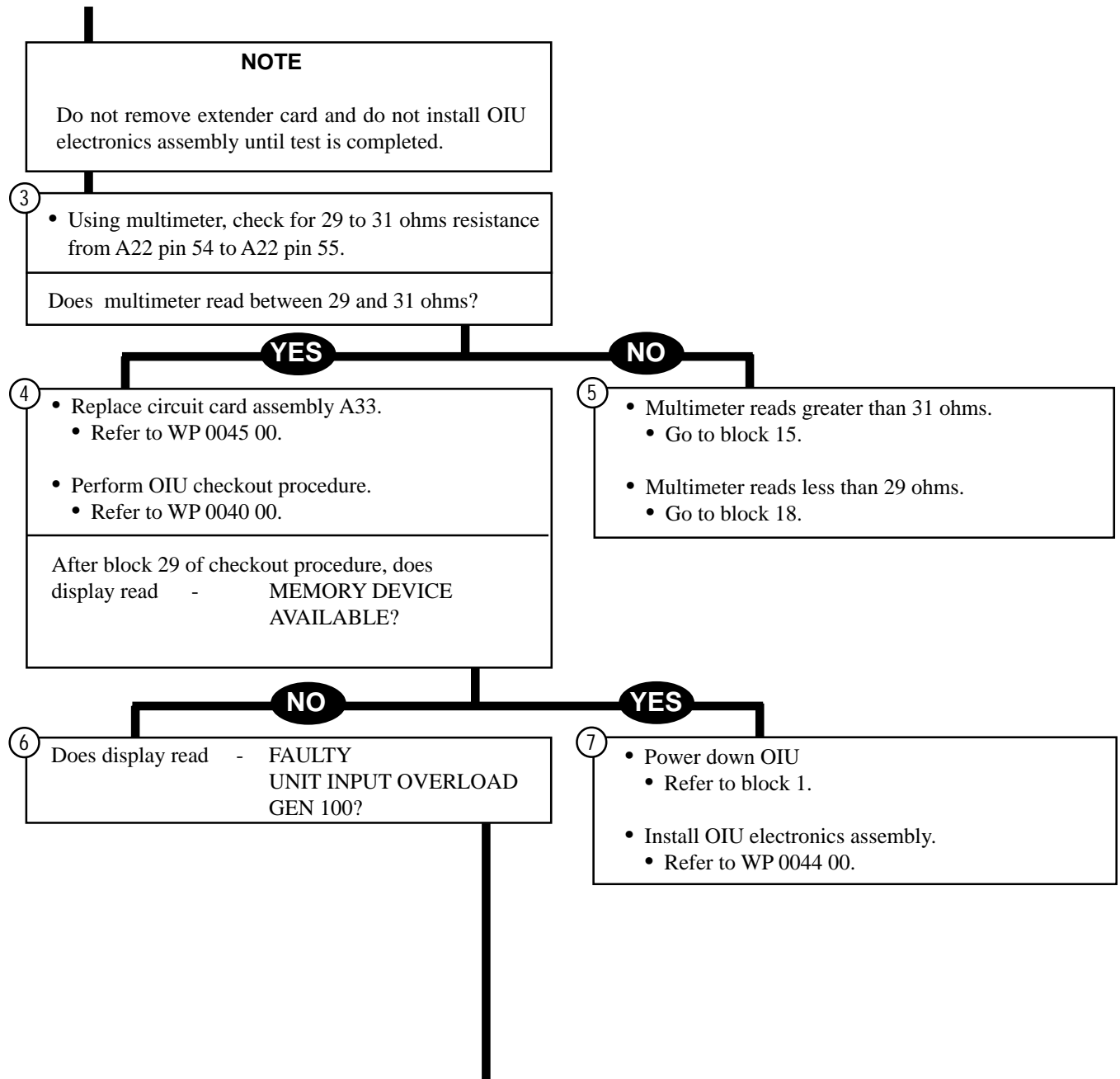


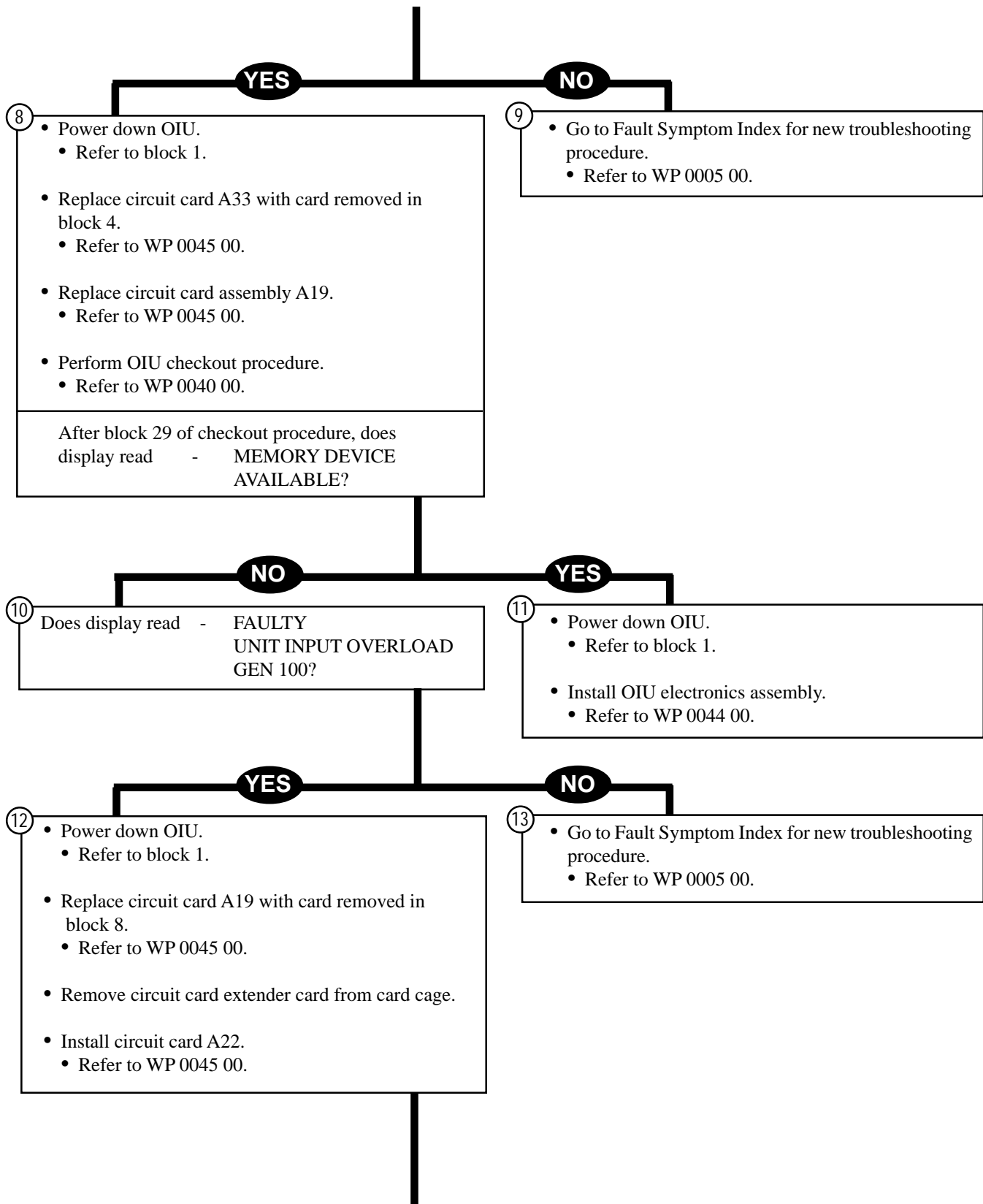
- ①
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.

NOTE

Do not remove extender card and do not turn in or discard removed parts until test has been completed.

- ②
- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
 - Remove circuit card assembly A22 and install extender card.
 - Refer to WP 0045 00.
 - Install circuit card A22 in extender card.
 - Refer to WP 0045 00.





- 14
- Troubleshoot and repair OIU internal wiring connected to resistor R1.
 - Refer to WP 0016 00.
 - Install OIU electronics assembly.
 - Refer to WP 0044 00.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 5.

- 15
- Unplug test adapter TJ6 from OIU connector TJ6.
 - Using multimeter, check continuity from pin 8 to 56 and from pin 9 to 57 on test adapter TJ6.
- Is continuity OK?

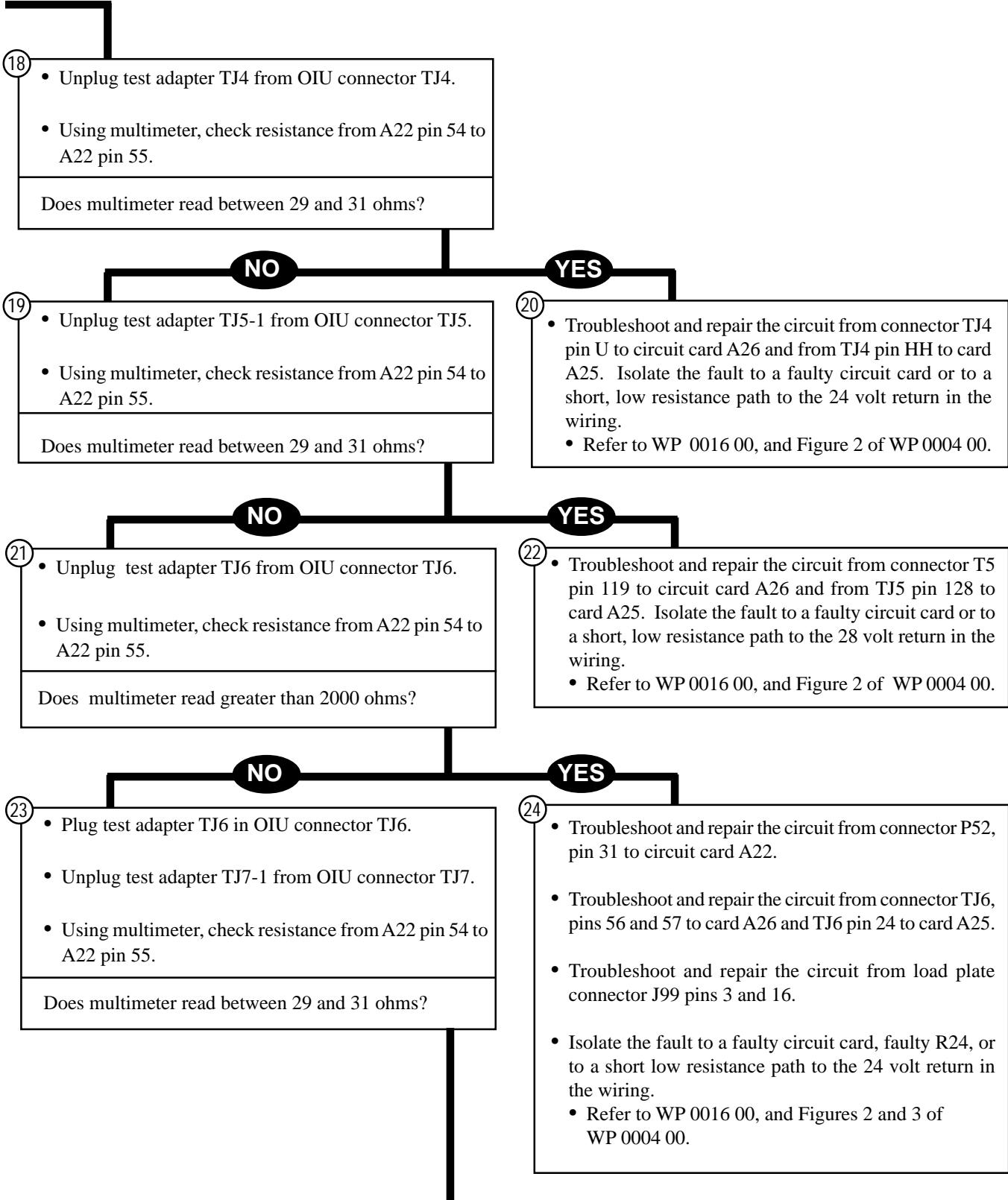
YES

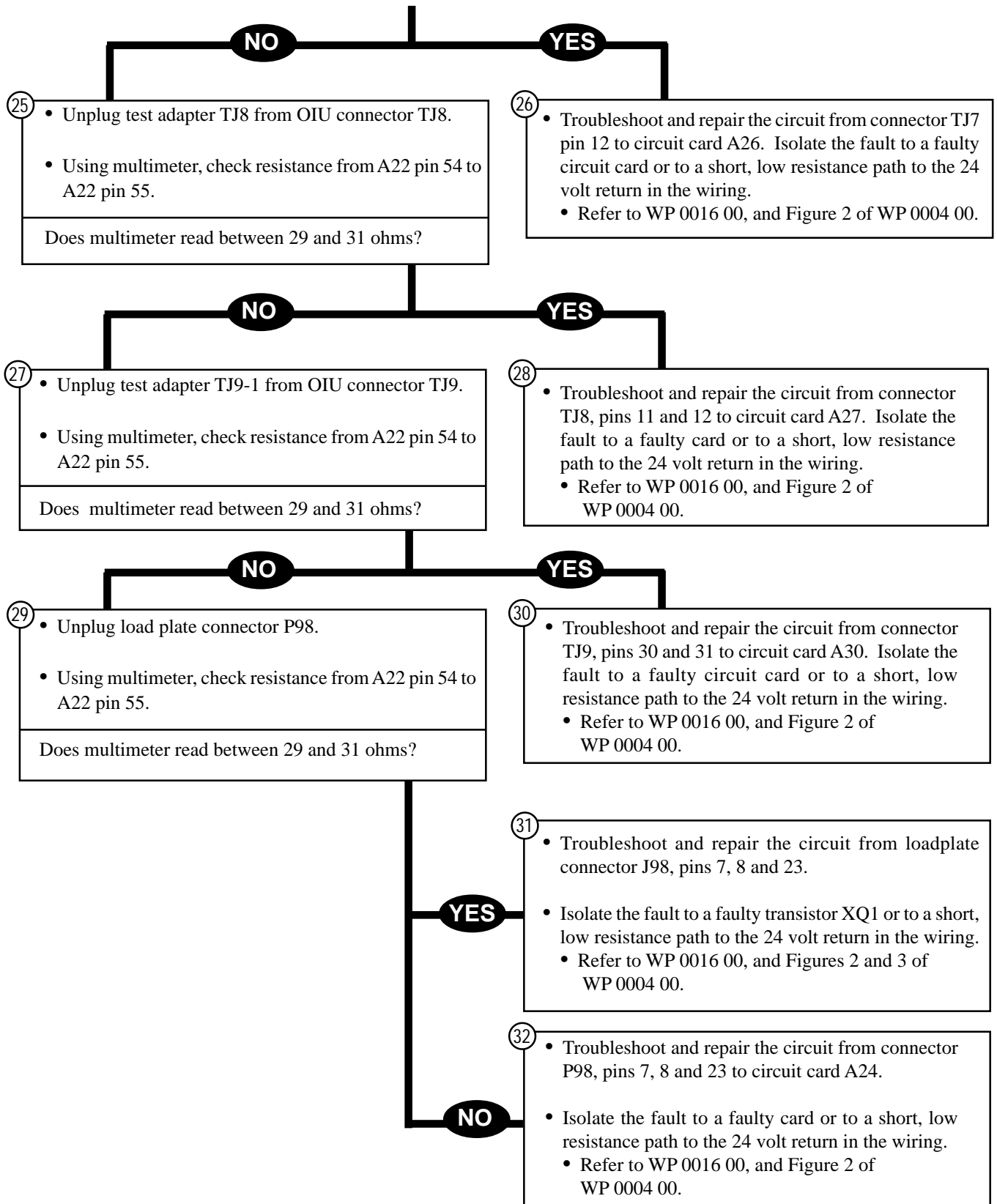
NO

- 16
- Check OIU internal wiring connected to connector TJ6, pins 56 and 57 and load plate wiring connected to connector J99, pins 3 and 16.
 - Refer to WP 0016 00.

- 17
- Replace test adapter TJ6 with new adapter.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 5.





TROUBLESHOOTING PROCEDURE**0027 00****SYMPTOM**

DISPLAY GOES BLANK WHEN GROUND CLIP IS CONNECTED TO LRU, OR OIU ON/OFF CIRCUIT BREAKER TRIPS WHEN GROUND CLIP IS CONNECTED TO LRU.

or

OIU FAILS FUNCTIONAL SELF TEST AND DISPLAY READS - FAULTY DSESTS POWER DISTRIBUTION.

Test Equipment/Special Tools:

- Digital Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

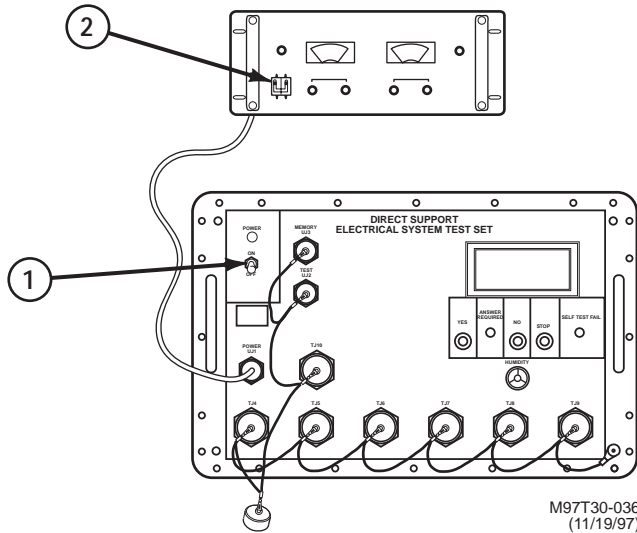
For OIU input power wiring diagram, see Figure 2 of WP 0004 00.

For circuit card and backplane connector locations, see Figure 5 of WP 0004 00.

For OIU backplane power distribution, see Figure 6 of WP 0004 00.

①

- Preliminary checks:
 - Check that power cable lugs are connected correctly to power supply.
 - Check that power supply is adjusted to 24 vdc.



2 Does display read - FAULTY DSESTS POWER DISTRIBUTION?

YES

NO

3

- Press the NO pushbutton.
- When the message REPEAT FAULTY TEST is displayed, press the NO pushbutton again.
- Record the failed ID number that appears on the display.
- Set OIU ON/OFF circuit breaker (1) to OFF.
- Set power supply ON/OFF switch (2) to OFF.
- If an FST adapter is connected to OIU, remove FST adapter.

Is failed ID number F10530?

4

- Go to block 5.

YES

NO

5

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Remove RFI shield cover.
 - Refer to WP 0048 00.

6

- Go to block 29.

- 7
- Unsolder wire connected to LOAD terminal 1 (3) of ON/OFF circuit breaker (1).
 - Tape unsoldered wire to wiring harness so it does not touch chassis.
 - Connect multimeter red lead to OIU chassis.
 - Connect multimeter black lead to ground clip.

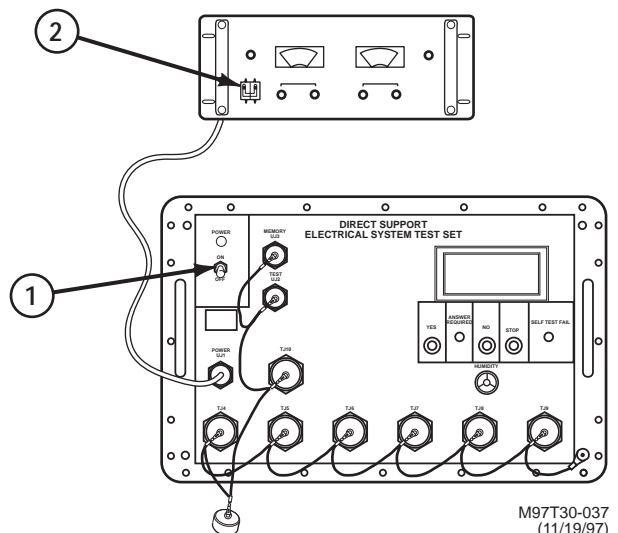
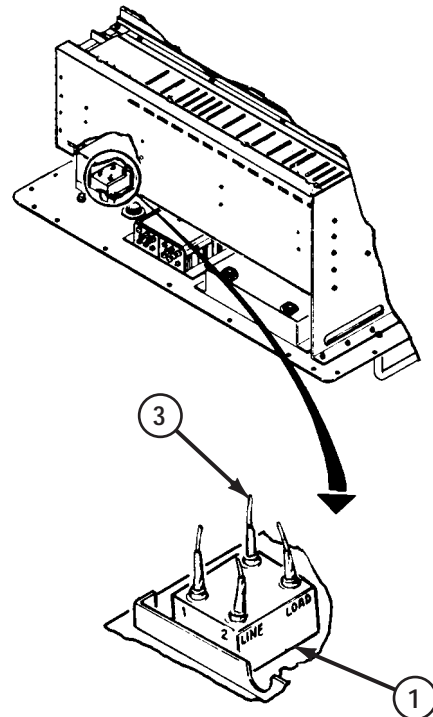
NOTE

When measuring voltage between the OIU chassis and the ground clip, hold multimeter leads in place for at least 10 seconds before recording reading. Delay is to allow capacitor discharge.

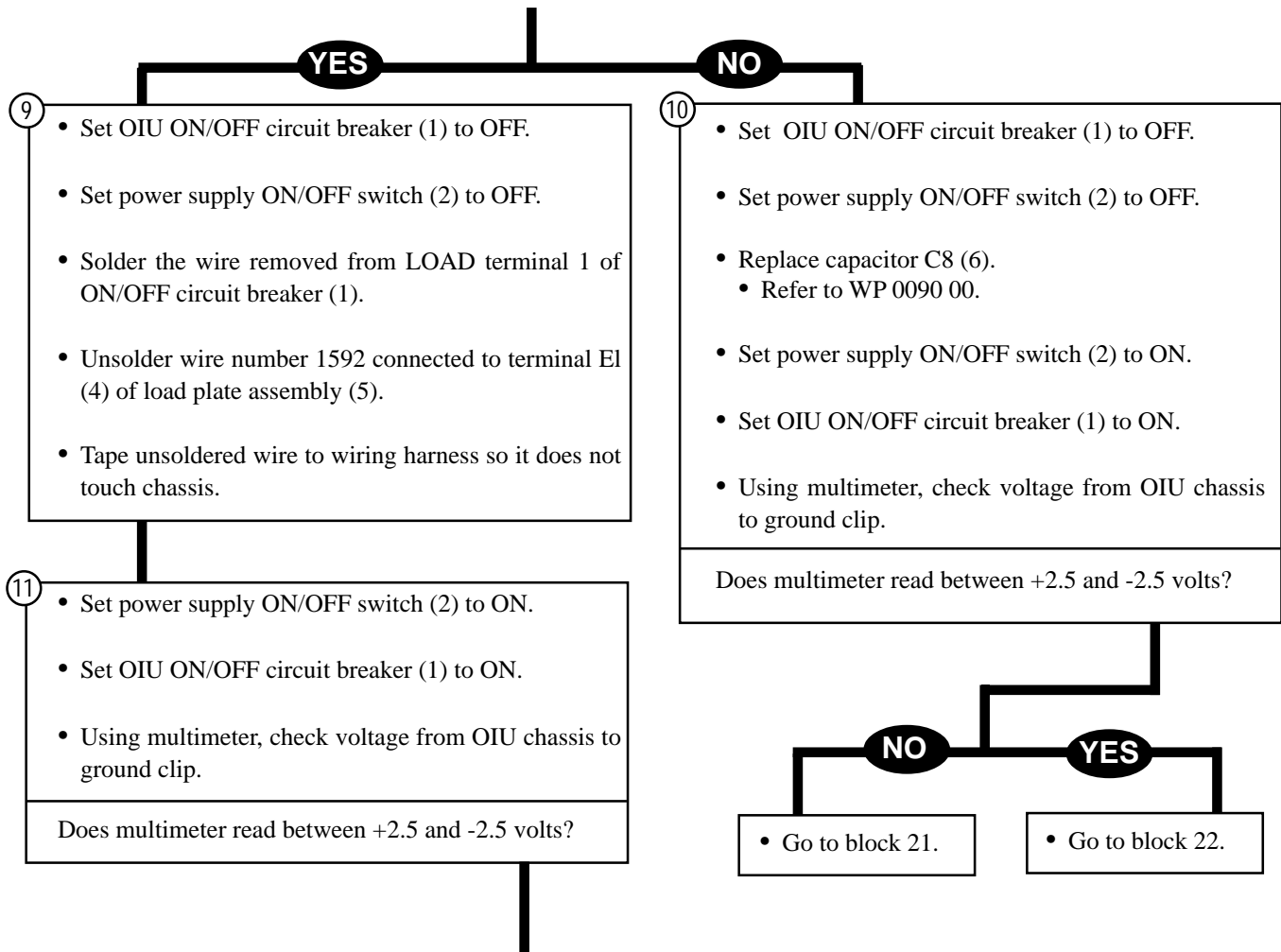
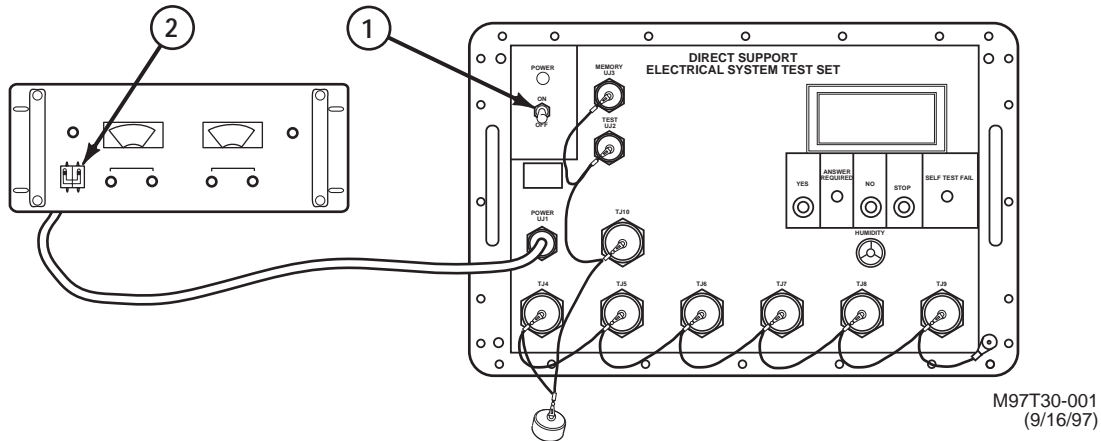
Be sure to use digital multimeter when measuring voltage between the OIU chassis and the ground clip.

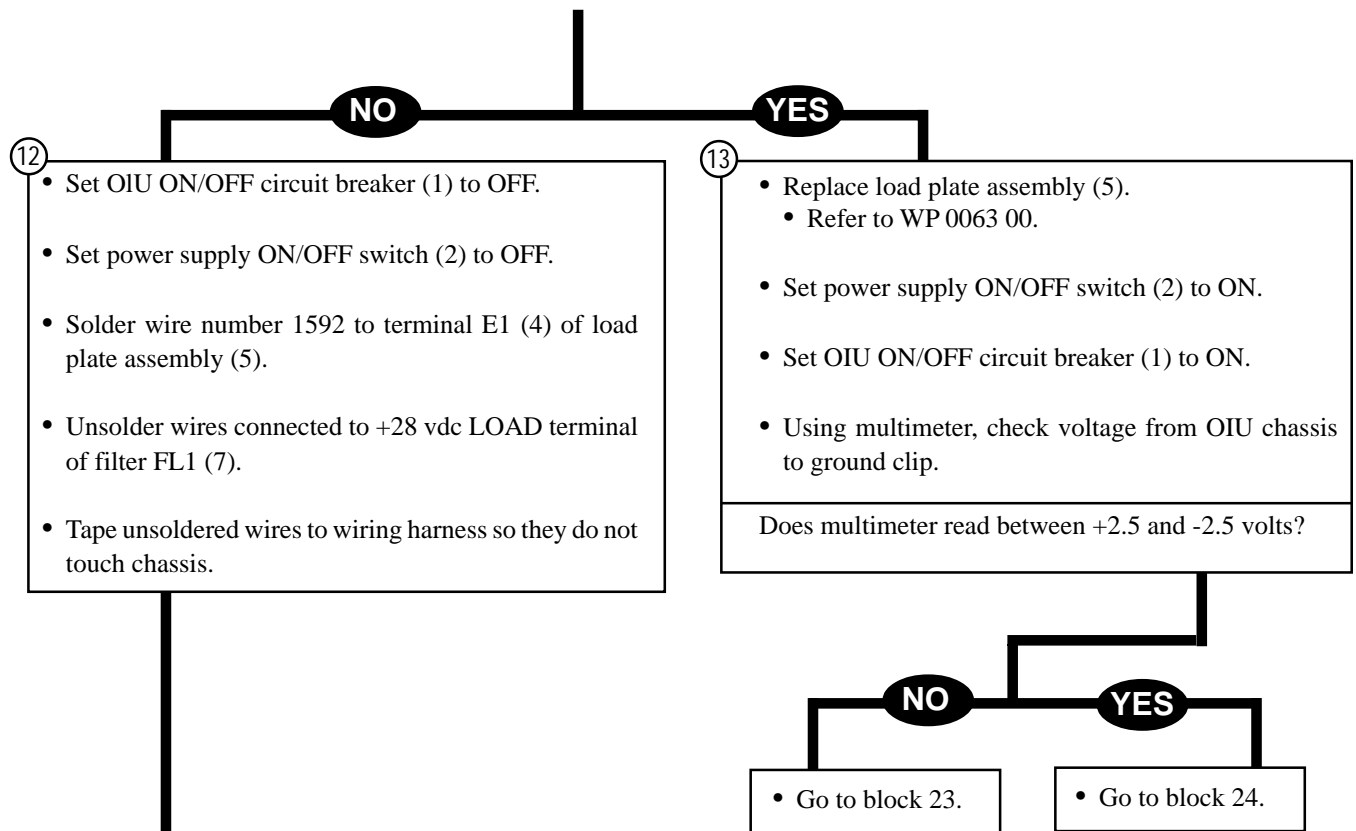
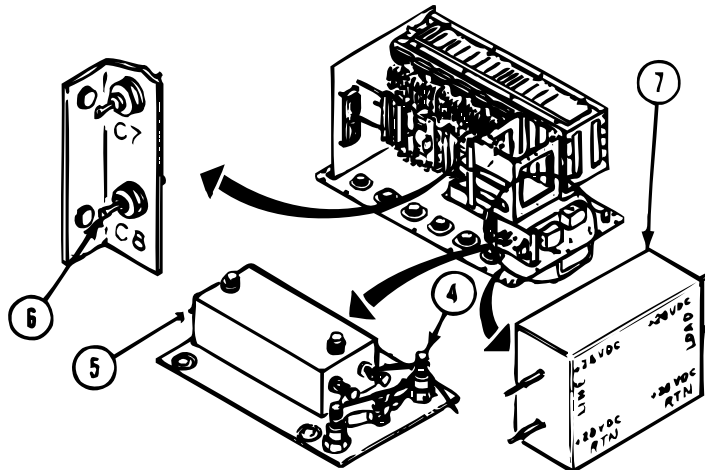
- 8
- Set power supply ON/OFF switch (2) to ON.
 - Set OIU ON/OFF circuit breaker (1) to ON.
 - Using multimeter, check voltage from OIU chassis to ground clip.

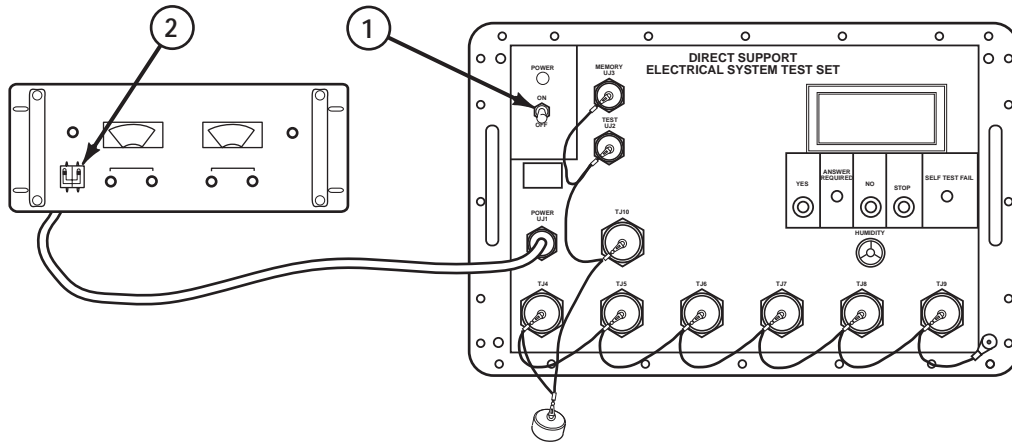
Does multimeter read between +2.5 and -2.5 volts?



M97T30-037
(11/19/97)



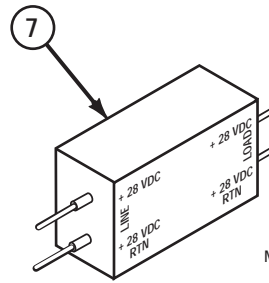




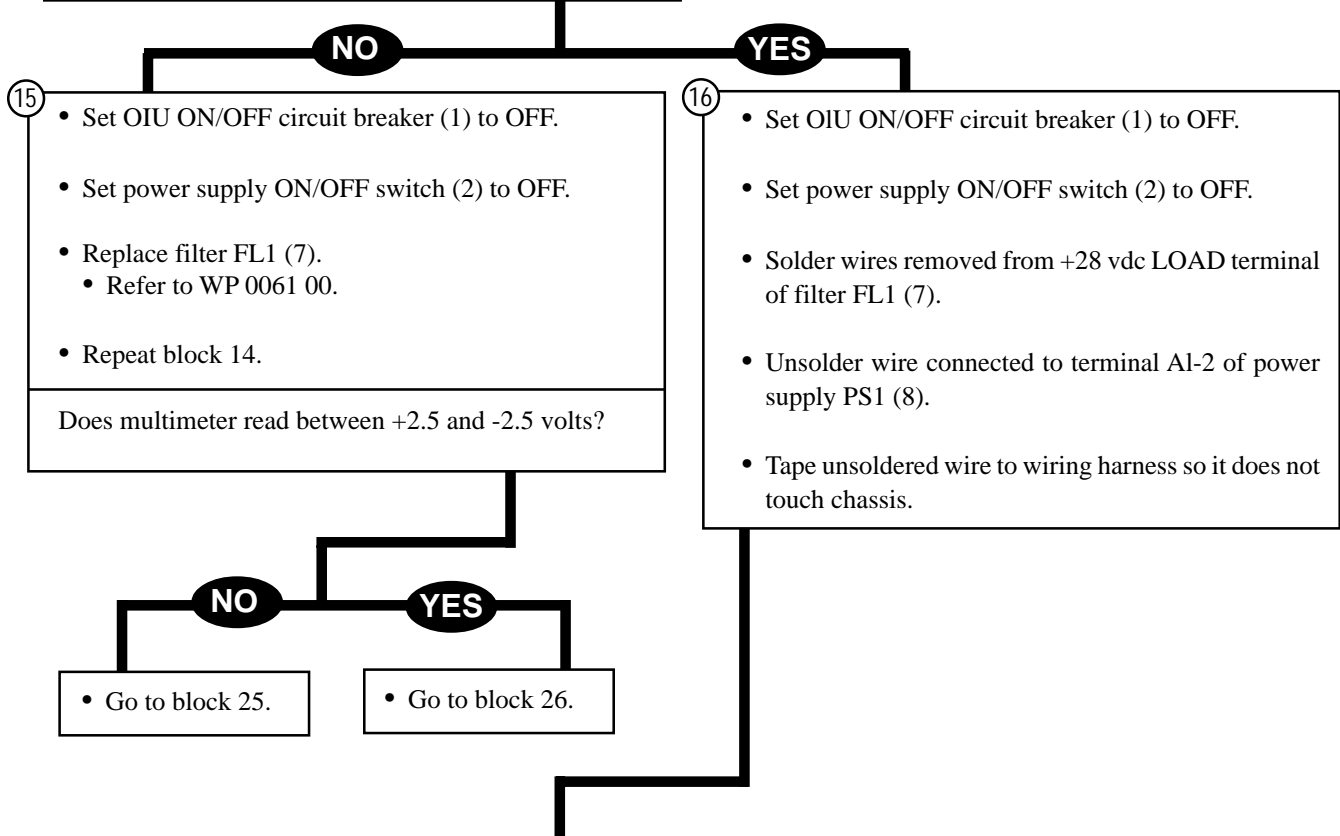
14

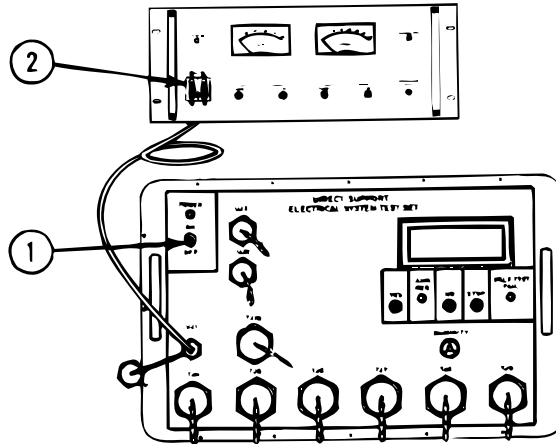
- Set power supply ON/OFF switch (2) to ON.
- Set OIU ON/OFF circuit breaker (1) to ON.
- Using multimeter, check voltage from OIU chassis to ground clip.

Does multimeter read between +2.5 and -2.5 volts?

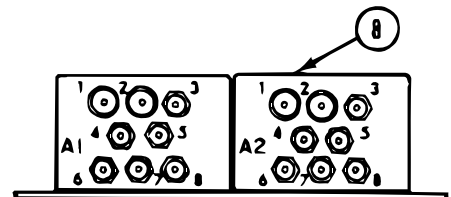


M97T30-038
(11/19/97)





- 17
- Set power supply ON/OFF switch (2) to ON.
 - Set OIU ON/OFF circuit breaker (1) to ON.
 - Using multimeter, check voltage from OIU chassis to ground clip.
- Does multimeter read between +2.5 and -2.5 volts?

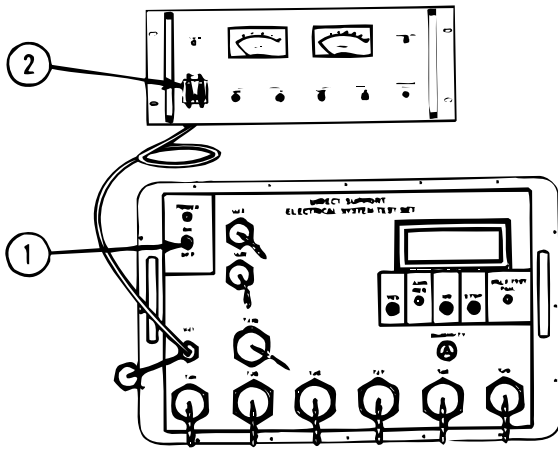


NO

YES

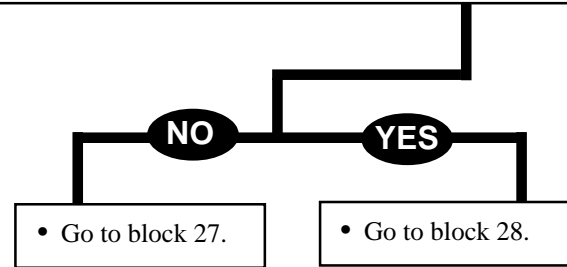
- 18
- Troubleshoot wiring to terminal A1-2 of power supply PS1 (8) to locate short to OIU chassis.
 - Refer to Figure 2 of WP 0004 00.
 - Replace faulty wire.
 - Install RFI shield cover.
 - Refer to WP 0048 00.
 - Install electronics assembly.
 - Refer to WP 0044 00.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

- 19
- Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.
 - Solder wire removed from terminal A1-2 of power supply PS1 (8).
 - Unsolder wires connected to terminals A1-3, A2-3, A2-4, and A2-7 of power supply PS1 (8).
 - Tape unsoldered wires to wiring harness so they do not touch chassis.



- 20
- Set power supply ON/OFF switch (2) to ON.
 - Set OIU ON/OFF circuit breaker (1) to ON.
 - Using multimeter, check voltage from OIU chassis to ground clip.

Does multimeter read between +2.5 and -2.5 volts?



From block 10.

- 21
- Troubleshoot CB1-LOAD terminal 2 wiring to locate short to OIU chassis.
 - Refer to Figure 2 of WP 0004 00.
 - Replace faulty wires.
 - Install RFI shield cover.
 - Refer to WP 0048 00.
 - Install electronics assembly.
 - Refer to WP 0044 00.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 10.

- 22
- Install RFI shield cover.
 - Refer to WP 0048 00.
 - Install electronics assembly.
 - Refer to WP 0044 00.
 - Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 13.

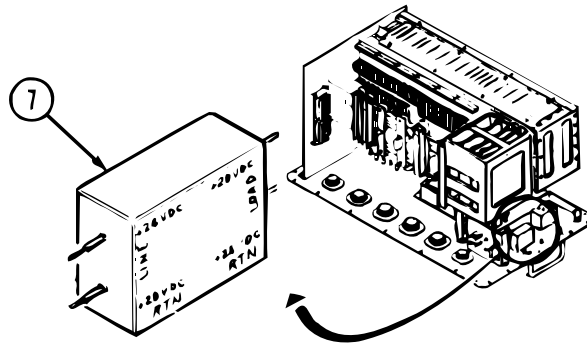
23

- Troubleshoot wiring to terminal E1 of plate assembly to locate short to OIU chassis.
 - Refer to Figure 2 of WP 0004 00.
- Replace faulty wire.
- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 13.

24

- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.



From block 15.

25

- Troubleshoot wiring to +28 vdc LINE terminal of filter FL1 (7) to locate short to OIU chassis.
 - Refer to Figure 2 of WP 0004 00.
- Replace faulty wire.
- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 15.

26

- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install OIU electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 20.

27

- Replace power supply PS1.
 - Refer to WP 0046 00.
- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install OIU electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 20.

28

- Troubleshoot and repair the +5 volt and the ± 15 volt circuits from PS1 to the card cage backplane.
 - Refer to WP 0016 00, Figures 2, 5 and 6 of WP 0004 00.
- Replace faulty wires or components.
 - Refer to appropriate work package.
- Install RFI shield cover.
 - Refer to WP 0048 00.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

From block 6.

29

- Remove OIU electronics assembly.
 - Refer to WP 0044 00.
- Check for a minimum 1 megohm resistance between OIU front panel connector TJ4, pin H and OIU chassis.

Does multimeter show 1 megohm or greater resistance?

YES

NO

30

NOTE

Components in Table 1 are tested by removing a single component from the circuit and checking resistance between 24 v return and chassis. Use the maintenance tasks referenced in Table 1 to locate components. When testing capacitors do the following:

Loosen nut (1) on capacitor (2).

Pull capacitor (2) through RFI shield bracket (3) so that capacitor doesn't touch chassis (4).

Check for 1 megohm resistance between PMC OUT (-) terminal and OIU chassis.

- Refer to Figure 1 of WP 0004 00.

Does multimeter show 1 megohm or greater resistance?

31

- Go to step 36.

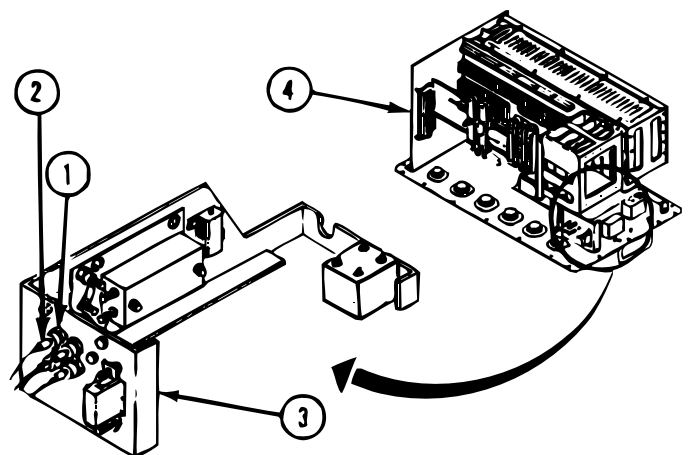
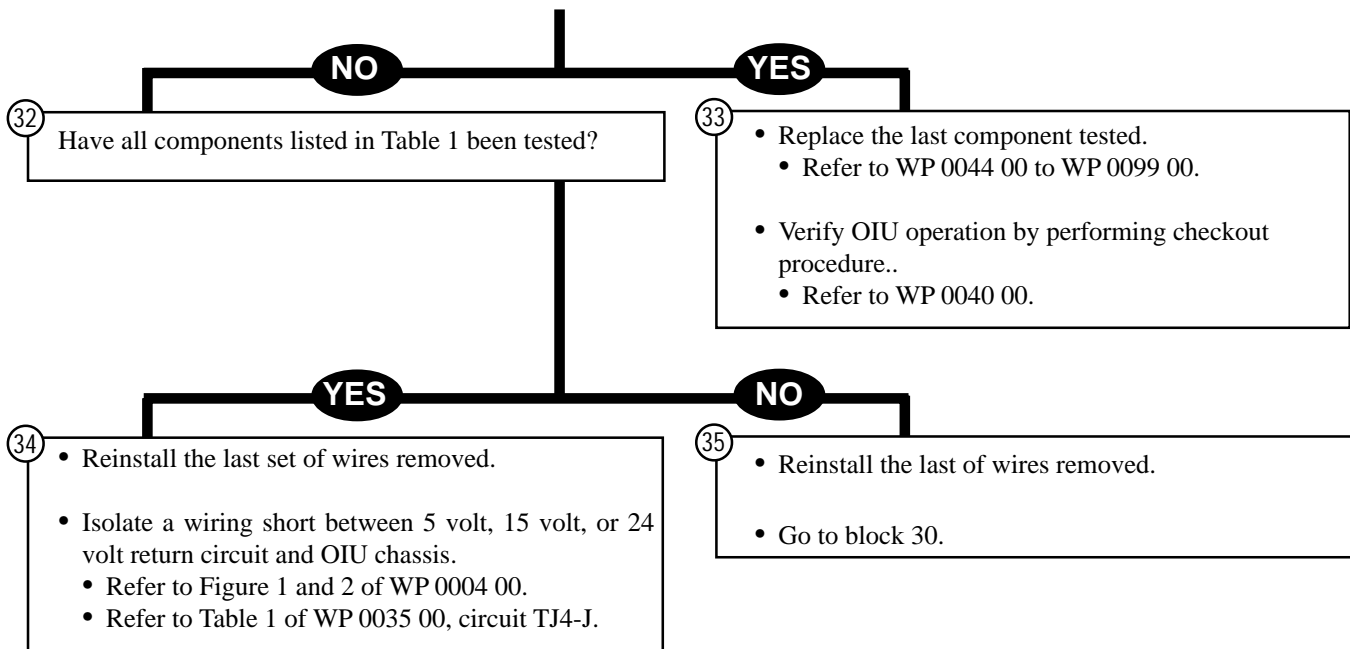
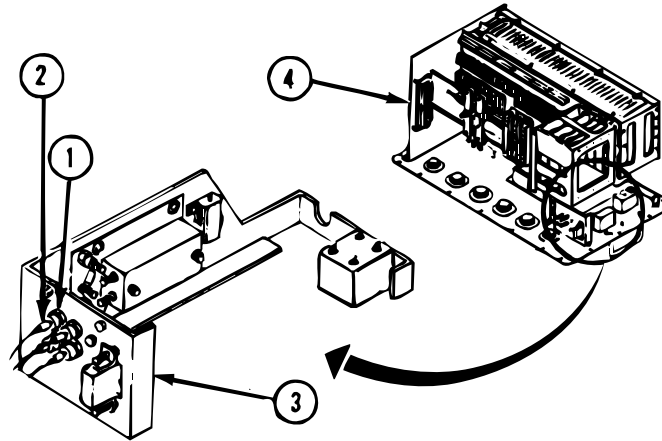


Table 1.

Component	Terminals	Work Package
Protector Plate Assembly	E2	WP 0054 00
Capacitor C3	1, 2	WP 0089 00
Capacitor C4	1, 2	WP 0089 00
Capacitor C5	1, 2	WP 0090 00
Capacitor C6	1, 2	WP 0090 00
Capacitor C7	1, 2	WP 0090 00





From block 31.

36

- Loosen nut (1) on capacitor C1 (2).
 - Refer to WP 0089 00 to locate C1.
- Pull capacitor (2) through RFI shield bracket (3) so that capacitor doesn't touch chassis (4).
- Check for a minimum 1 megohm resistance between OIU front panel connector TJ4, pin H and OIU chassis.

Does multimeter show 1 megohm or greater resistance?

NO

YES

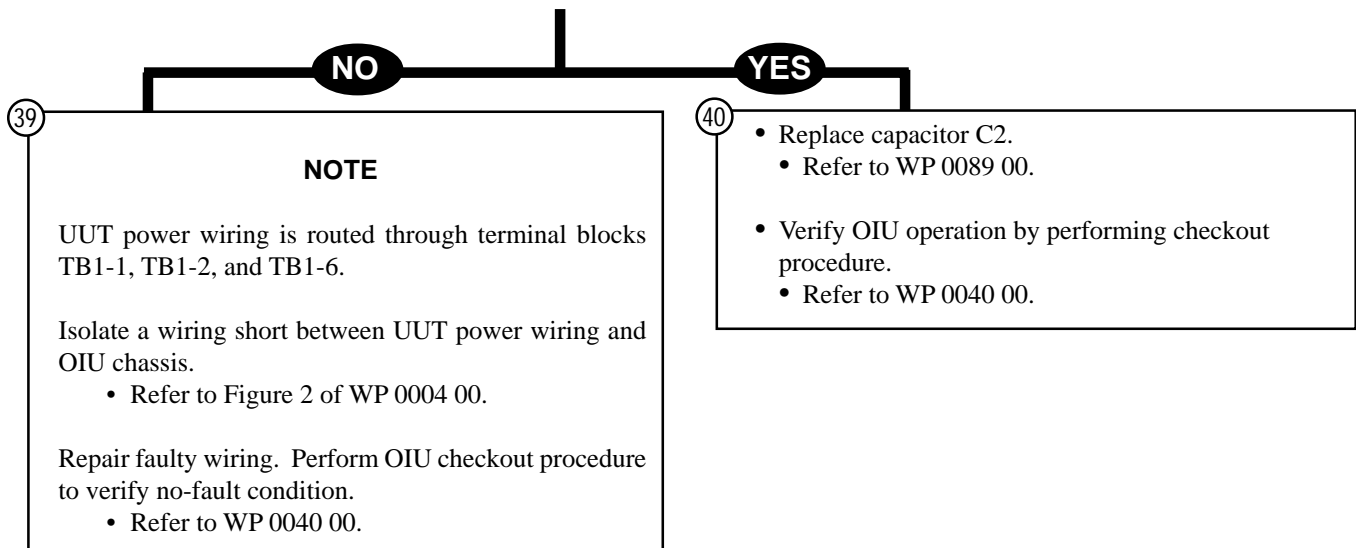
37

- Tighten the nut that was loosened on capacitor C1 in block 36.
- Loosen nut on capacitor C2.
 - Refer to WP 0089 00 to locate C2.
- Pull capacitor (2) through RFI shield bracket (3) so that capacitor doesn't touch chassis (4).
- Check for a minimum 1 megohm resistance between OIU front panel connector TJ4, pin H and OIU chassis.

Does multimeter show 1 megohm or greater resistance?

38

- Replace capacitor C1.
 - Refer to WP 0089 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.



NOTE

UUT power wiring is routed through terminal blocks TB1-1, TB1-2, and TB1-6.

Isolate a wiring short between UUT power wiring and OIU chassis.

- Refer to Figure 2 of WP 0004 00.

Repair faulty wiring. Perform OIU checkout procedure to verify no-fault condition.

- Refer to WP 0040 00.

- Replace capacitor C2.
- Refer to WP 0089 00.
- Verify OIU operation by performing checkout procedure.
- Refer to WP 0040 00.

SYMPTOM

DISPLAY READS - WARNING
FAULTY FAN*A38*A10
GEN 200.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

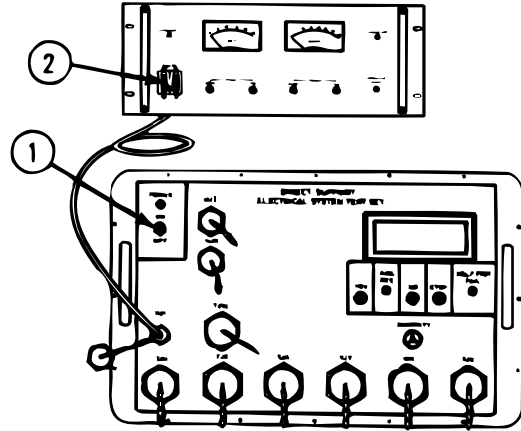
Set power supply ON/OFF switch to OFF before replacing faulty parts or doing any continuity checks to avoid damage to parts.

NOTE

For location of parts, see Figure 1 of WP 0004 00.

For OIU input power wiring diagram, see Figure 2 of WP 0004 00.

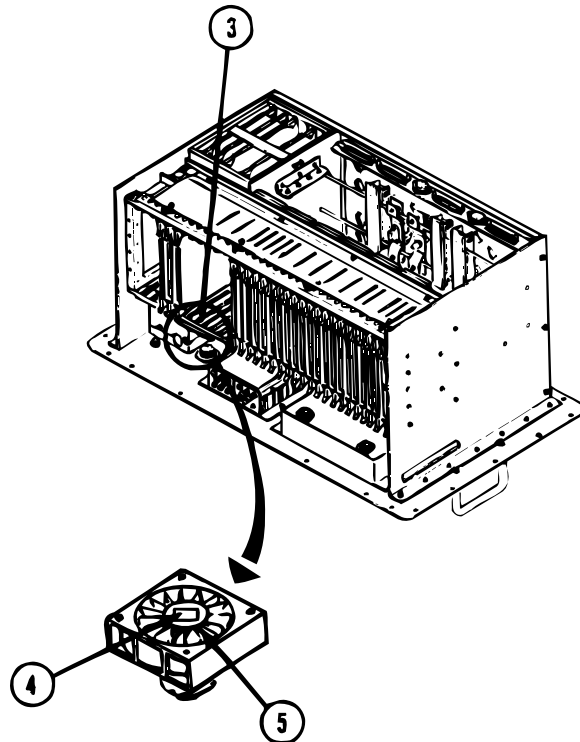
For OIU connector wiring list, see Table 1 in WP 0035 00 thru WP 0037 00.

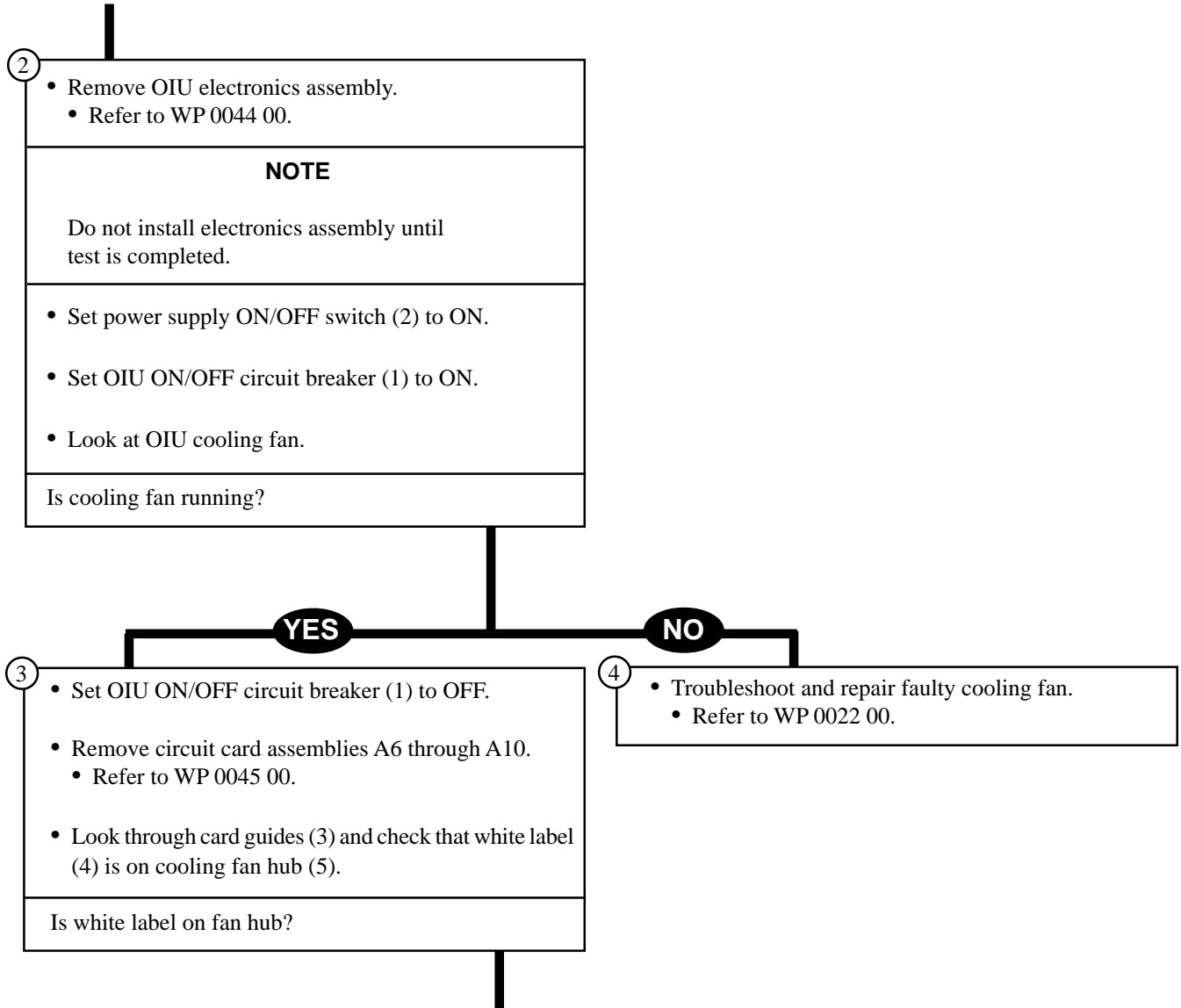


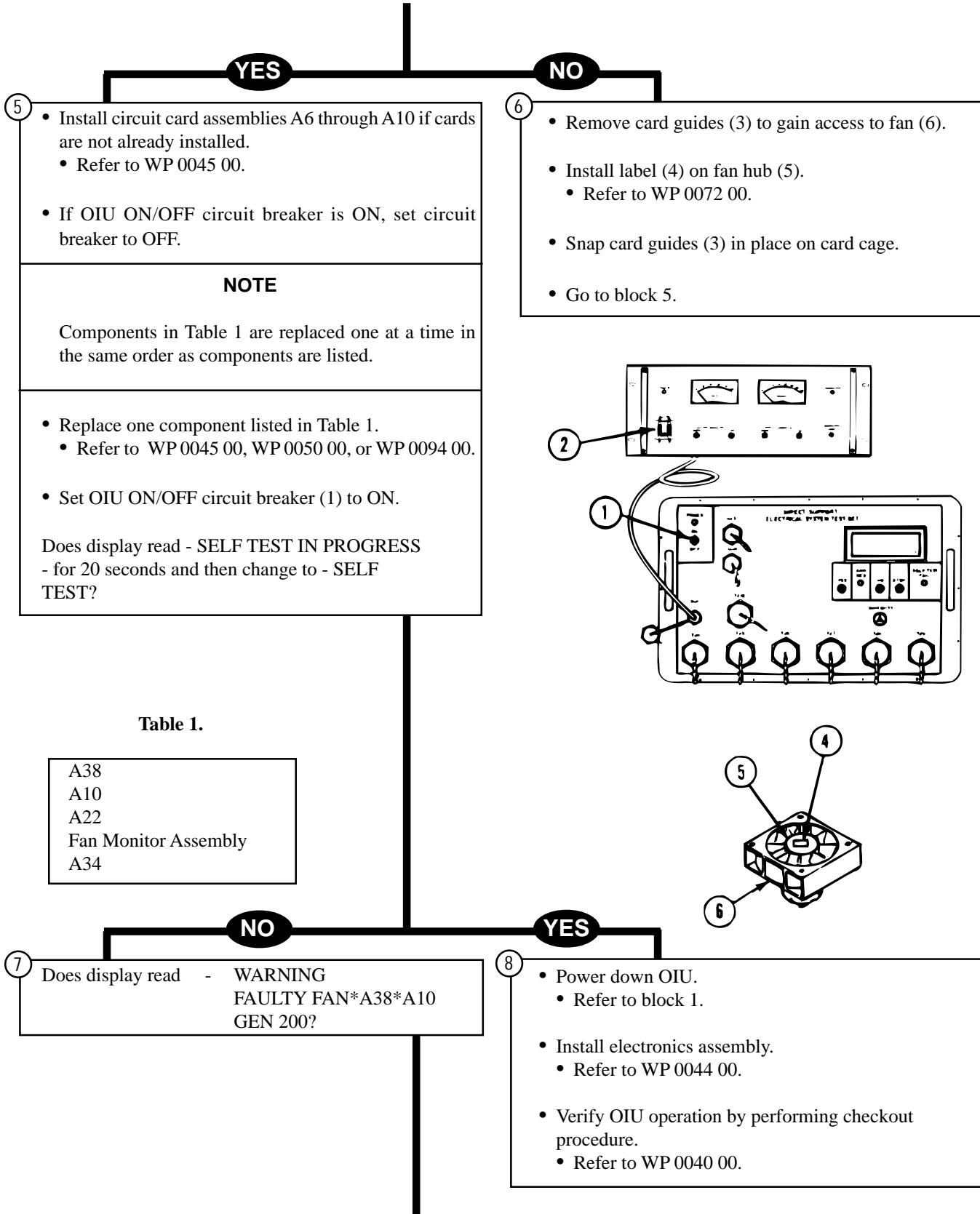
- ①
- Power down OIU.
 - Set OIU ON/OFF circuit breaker (1) to OFF.
 - Set power supply ON/OFF switch (2) to OFF.

NOTE

Do not turn in or discard removed parts until test has been completed.







YES

NO

5

- Install circuit card assemblies A6 through A10 if cards are not already installed.
 - Refer to WP 0045 00.
- If OIU ON/OFF circuit breaker is ON, set circuit breaker to OFF.

NOTE

Components in Table 1 are replaced one at a time in the same order as components are listed.

- Replace one component listed in Table 1.
 - Refer to WP 0045 00, WP 0050 00, or WP 0094 00.
- Set OIU ON/OFF circuit breaker (1) to ON.

Does display read - SELF TEST IN PROGRESS - for 20 seconds and then change to - SELF TEST?

6

- Remove card guides (3) to gain access to fan (6).
- Install label (4) on fan hub (5).
 - Refer to WP 0072 00.
- Snap card guides (3) in place on card cage.
- Go to block 5.

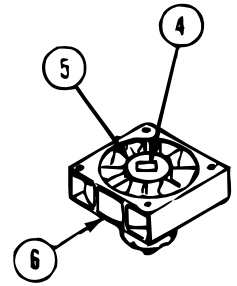
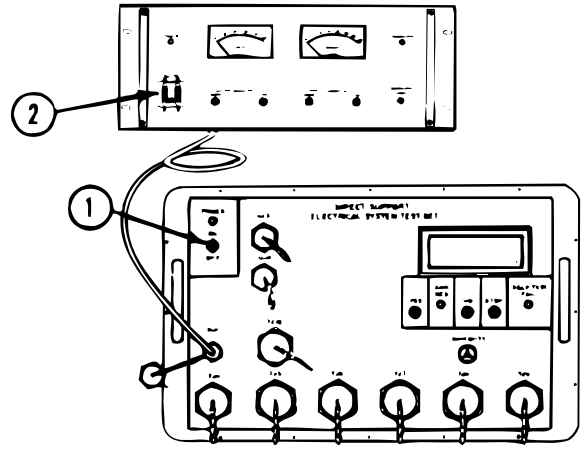


Table 1.

A38 A10 A22 Fan Monitor Assembly A34
--

NO

YES

7 Does display read - WARNING FAULTY FAN*A38*A10 GEN 200?

8

- Power down OIU.
 - Refer to block 1.
- Install electronics assembly.
 - Refer to WP 0044 00.
- Verify OIU operation by performing checkout procedure.
 - Refer to WP 0040 00.

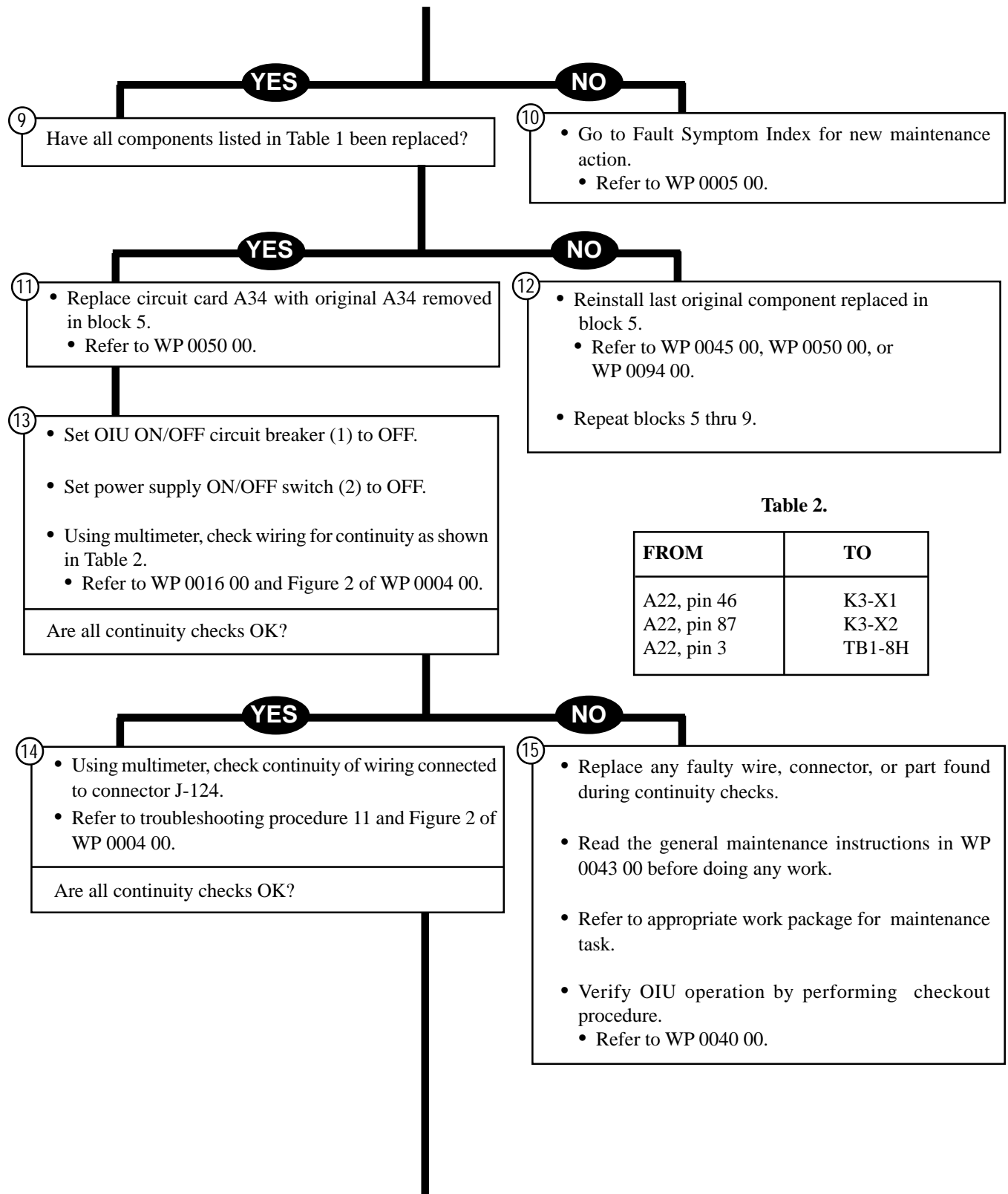
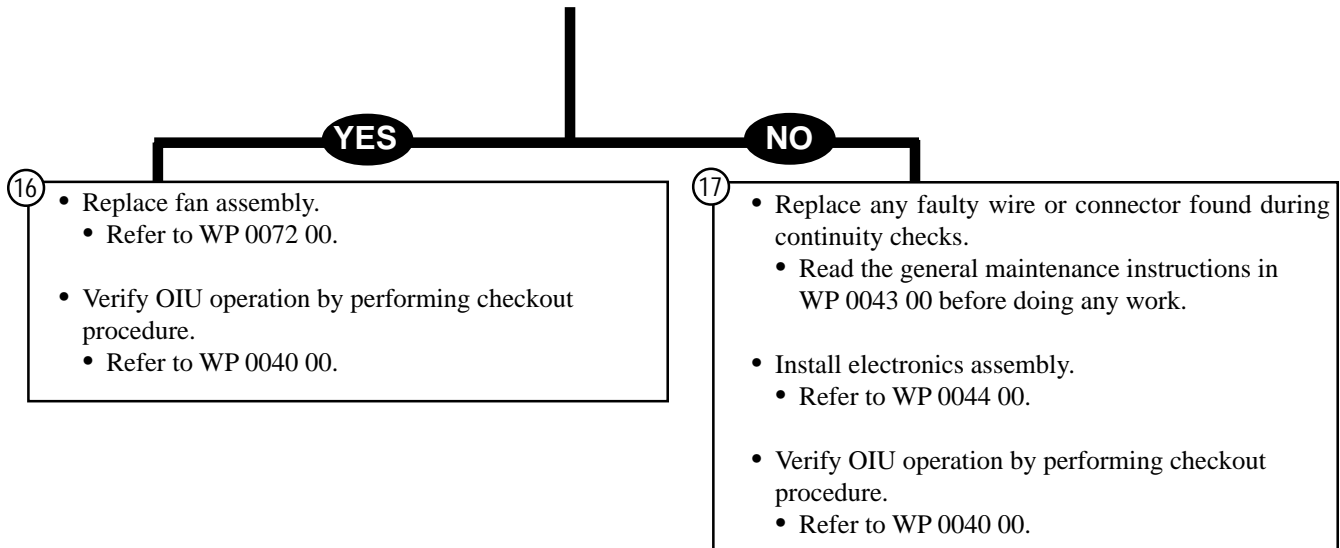
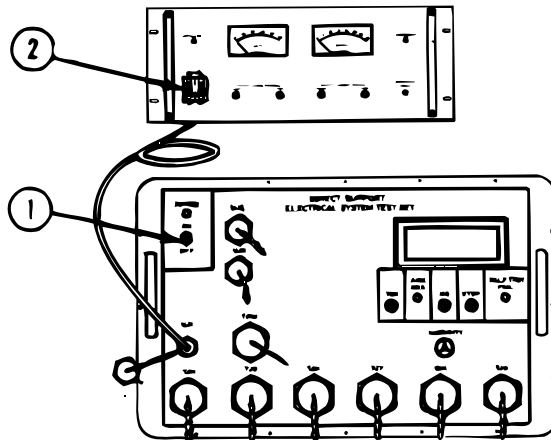


Table 2.

FROM	TO
A22, pin 46	K3-X1
A22, pin 87	K3-X2
A22, pin 3	TB1-8H





SYMPTOM

DISPLAY READS - ADJ VOLTS TO 18-30 V
VOLTS IS 0.0000
PUSH YES WHEN OK.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

CAUTION

Set power supply ON/OFF switch to OFF before replacing faulty parts or doing any continuity checks to avoid damage to parts.

NOTE

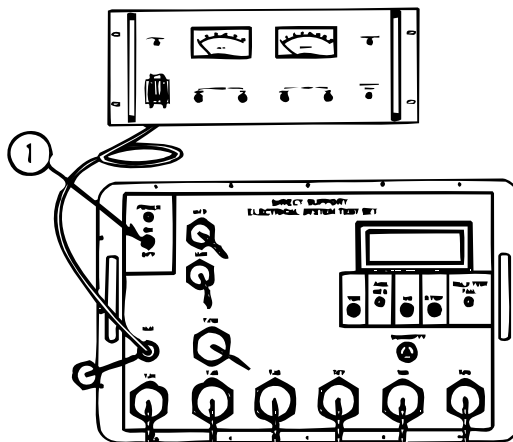
For location of parts, see Figure 1 of WP 0004 00.

For OIU power input wiring diagram, see Figure 2 of WP 0004 00.

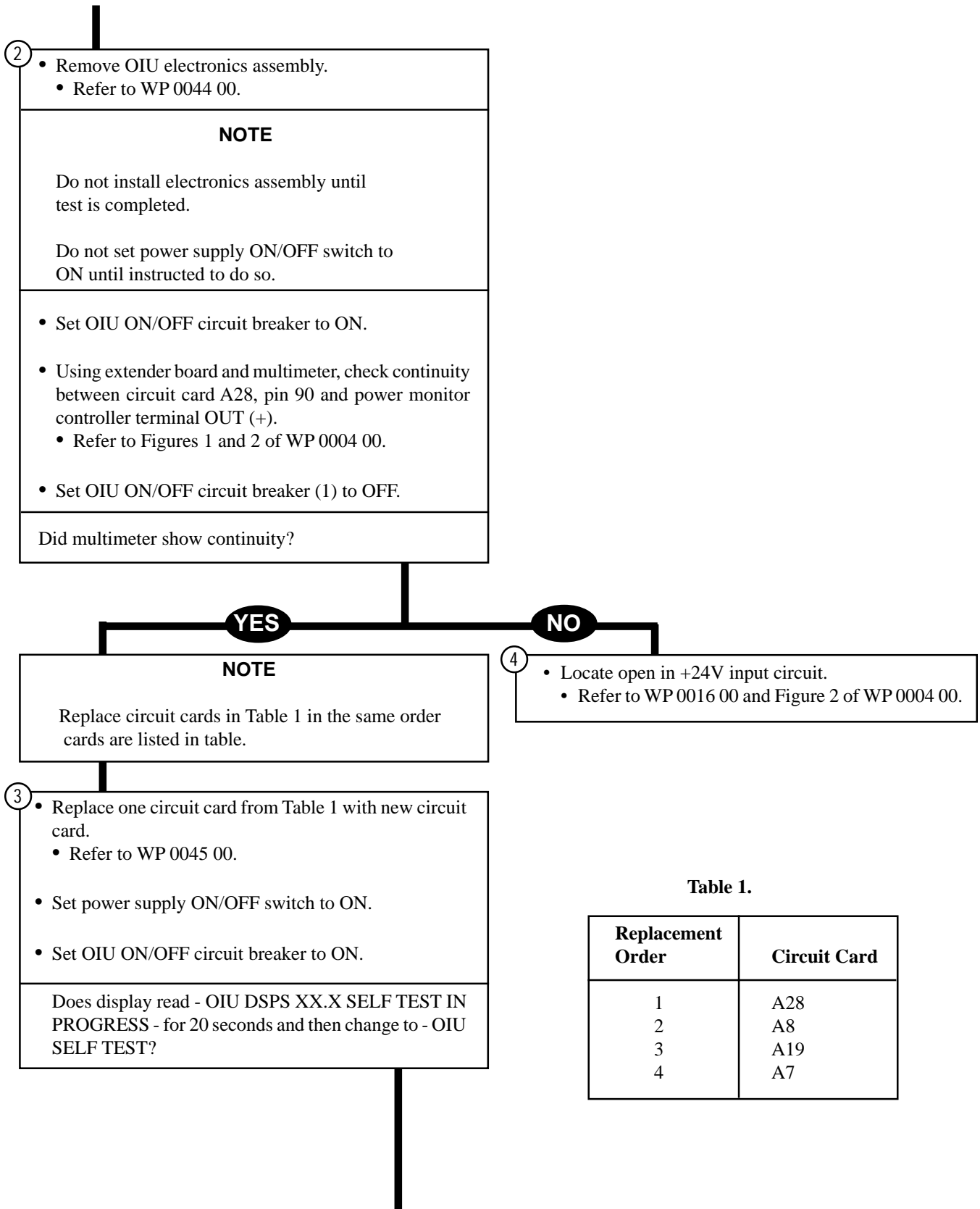
For OIU connector wiring list, see OIU Connector Wiring List in Table 1 of WP 0035 00 thru WP 0037 00.

For OIU backplane power distribution, see Figure 6 of WP 0004 00.

- 1 • Power down OIU.
- Set OIU ON/OFF circuit breaker (1) to OFF.
- Set power supply ON/OFF switch (2) to OFF.

**NOTE**

Do not turn in or discard removed parts until test has been completed.



2

- Remove OIU electronics assembly.
- Refer to WP 0044 00.

NOTE

Do not install electronics assembly until test is completed.

Do not set power supply ON/OFF switch to ON until instructed to do so.

- Set OIU ON/OFF circuit breaker to ON.
- Using extender board and multimeter, check continuity between circuit card A28, pin 90 and power monitor controller terminal OUT (+).
- Refer to Figures 1 and 2 of WP 0004 00.
- Set OIU ON/OFF circuit breaker (1) to OFF.

Did multimeter show continuity?

NOTE

Replace circuit cards in Table 1 in the same order cards are listed in table.

3

- Replace one circuit card from Table 1 with new circuit card.
- Refer to WP 0045 00.
- Set power supply ON/OFF switch to ON.
- Set OIU ON/OFF circuit breaker to ON.

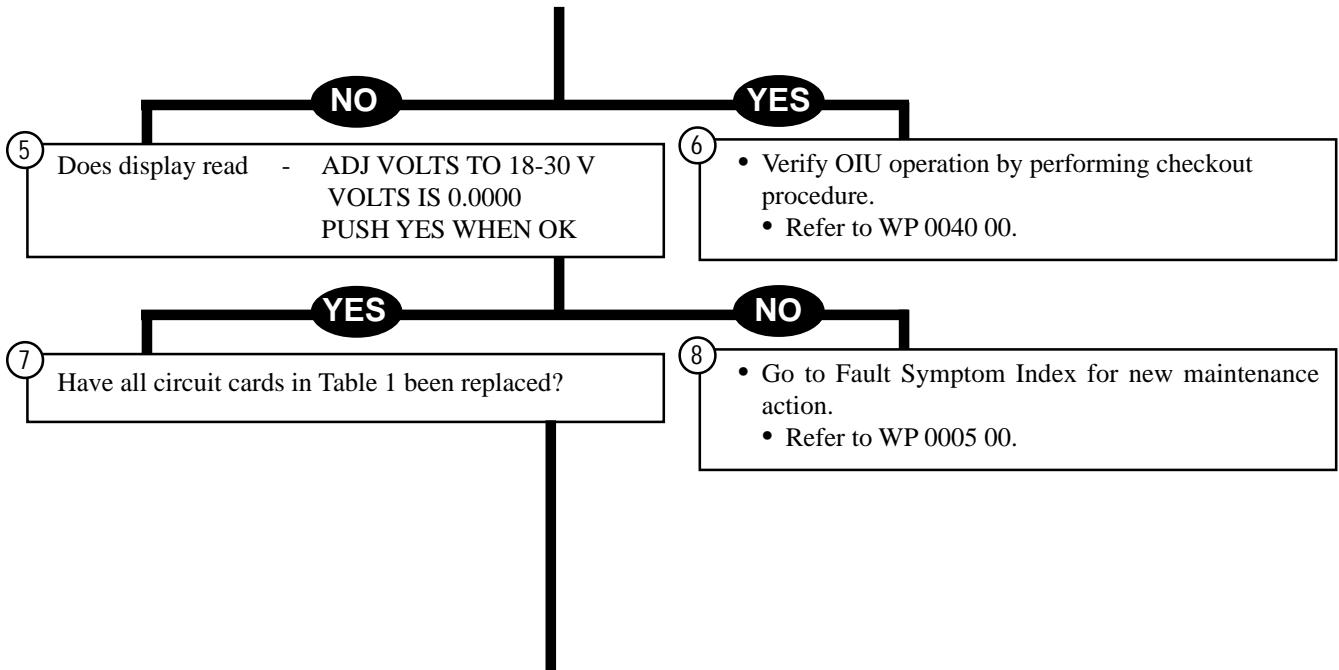
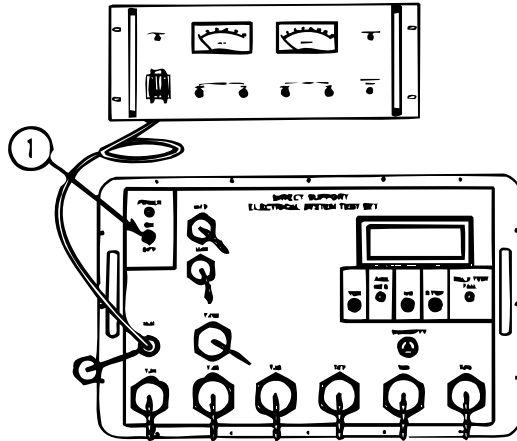
Does display read - OIU DSPS XX.X SELF TEST IN PROGRESS - for 20 seconds and then change to - OIU SELF TEST?

4

- Locate open in +24V input circuit.
- Refer to WP 0016 00 and Figure 2 of WP 0004 00.

Table 1.

Replacement Order	Circuit Card
1	A28
2	A8
3	A19
4	A7



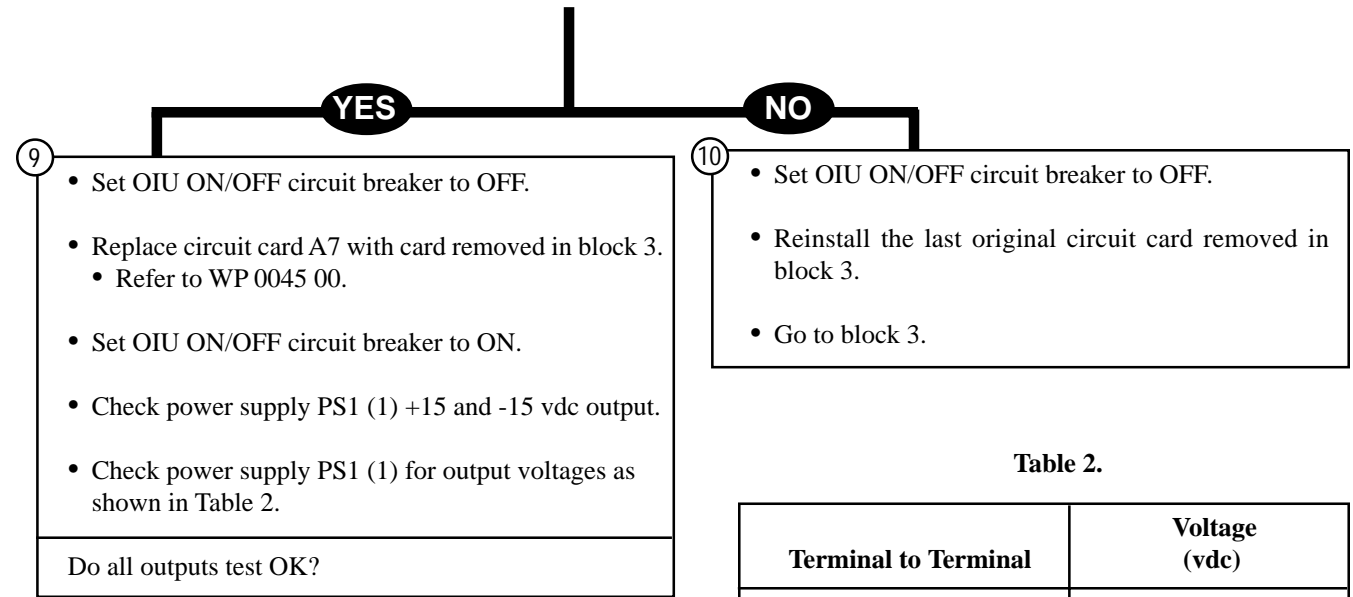
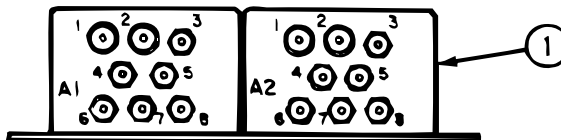
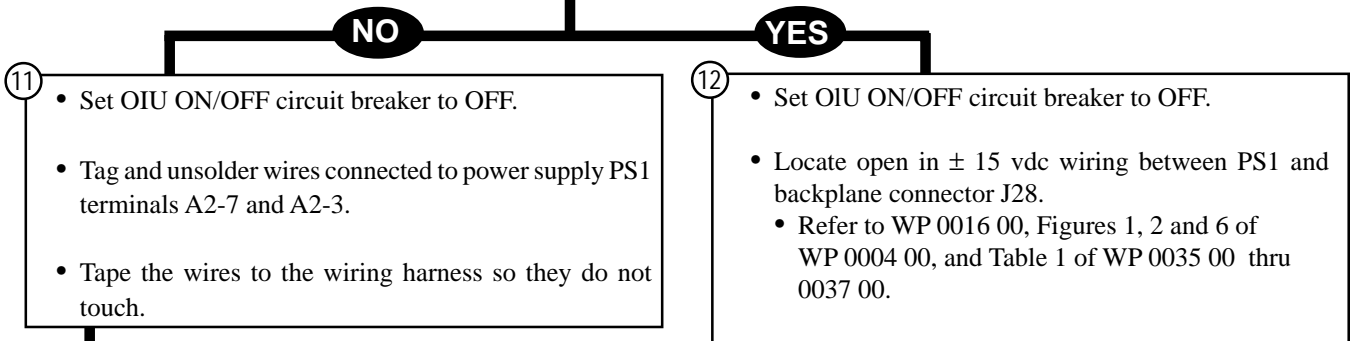
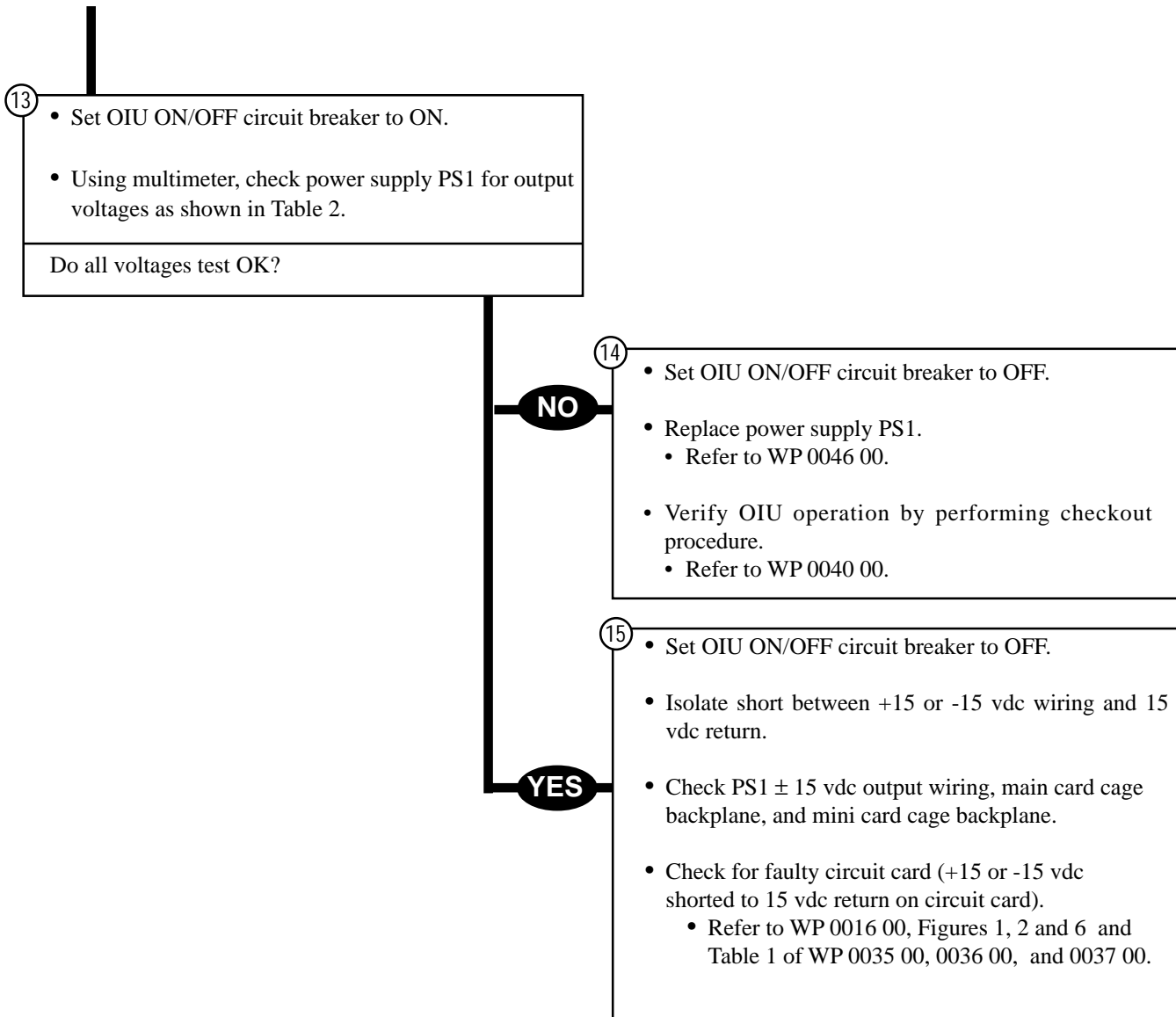


Table 2.

Terminal to Terminal		Voltage (vdc)
A2-7 (+)	A2-6 (-)	+14.8 to +15.2 vdc
A2-3 (-)	A2-6 (+)	+14.8 to +15.2 vdc





SYMPTOM

SUSPECTED FAULTY THERMAL SIGHT
COLLIMATOR P/N SM-D-969722.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- Thermal sight collimator on workbench connected to 115 vac, 60 Hz source.
- Shroud removed.

WARNING

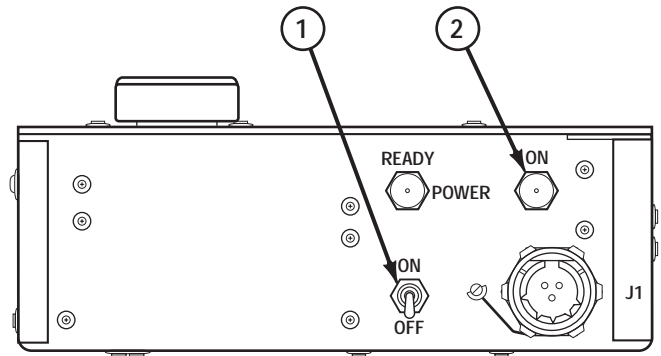
To avoid injury, disconnect thermal sight collimator from 115 vac source before replacing faulty parts.

NOTE

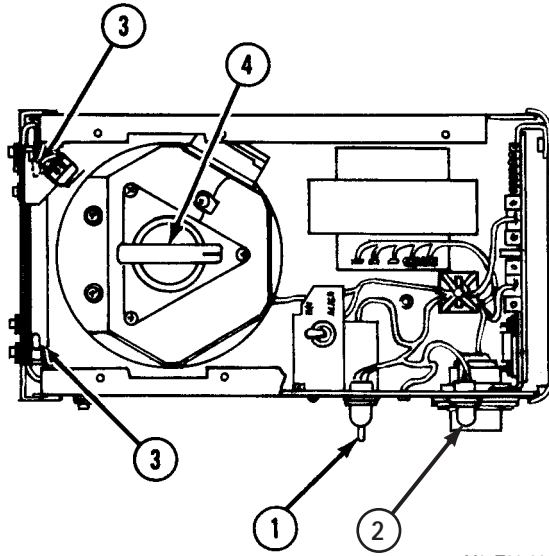
For thermal sight collimator schematic, see Figure 7 or 8 or WP 0004 00.

- 1 • Set ON/OFF circuit breaker CB1 (1) to ON.

Does circuit breaker trip?



M5T30-065
(11/19/97)



M97T30-002
(11/19/97)

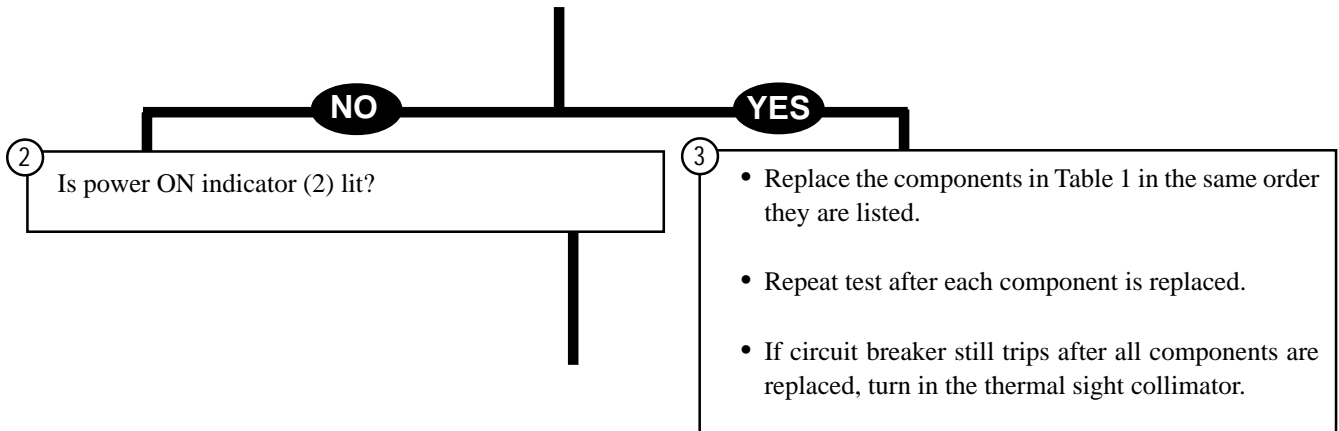
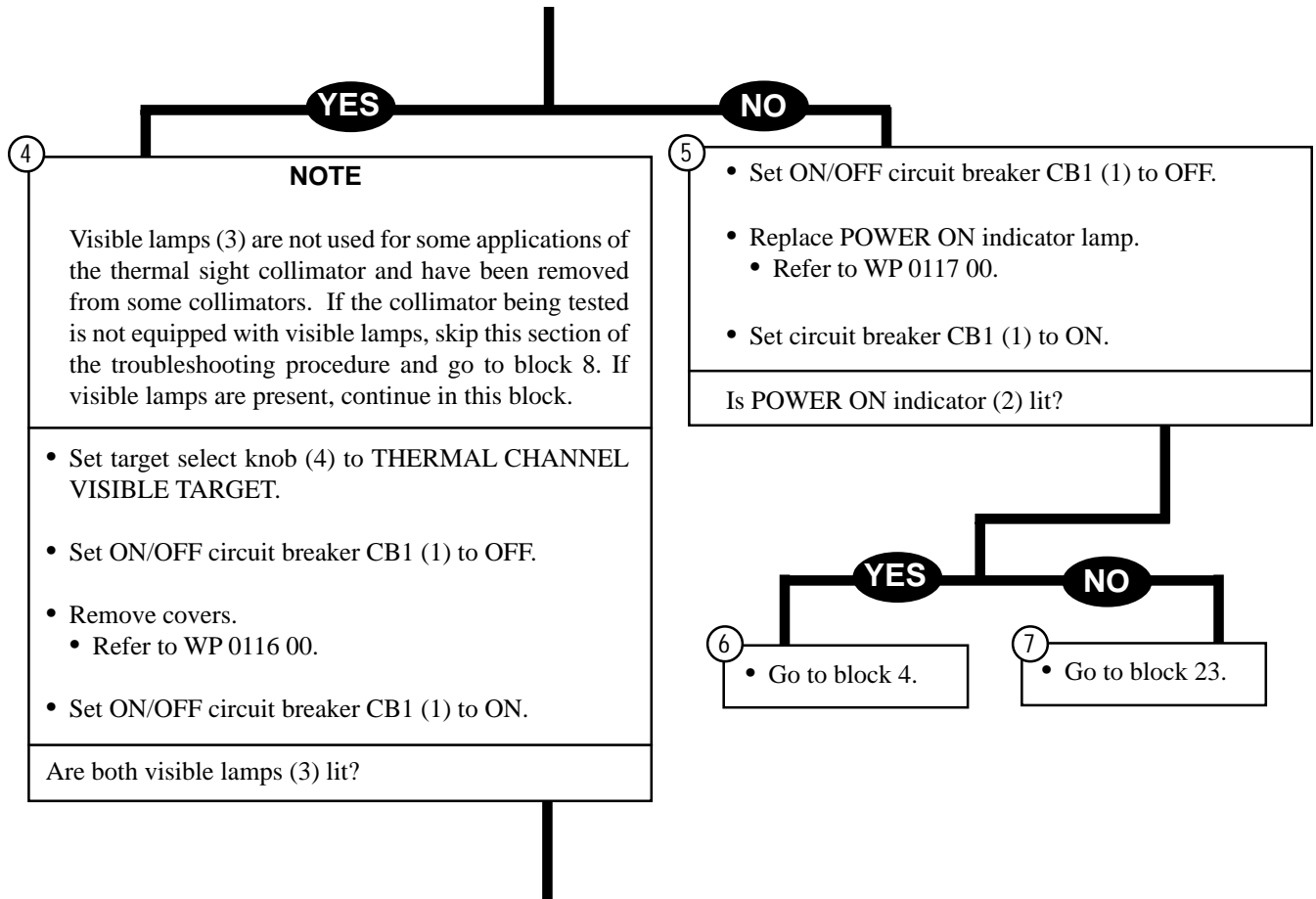
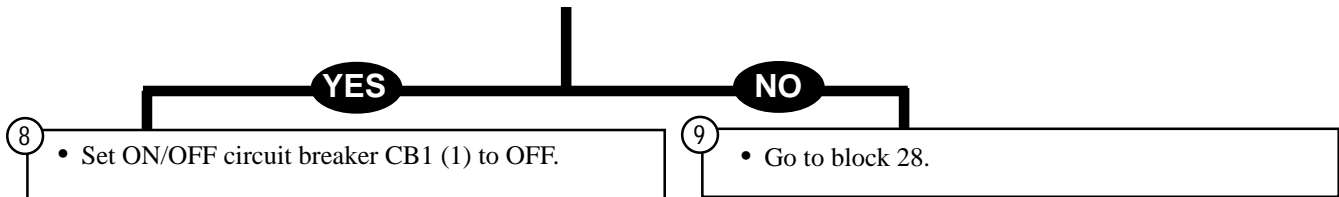


Table 1.

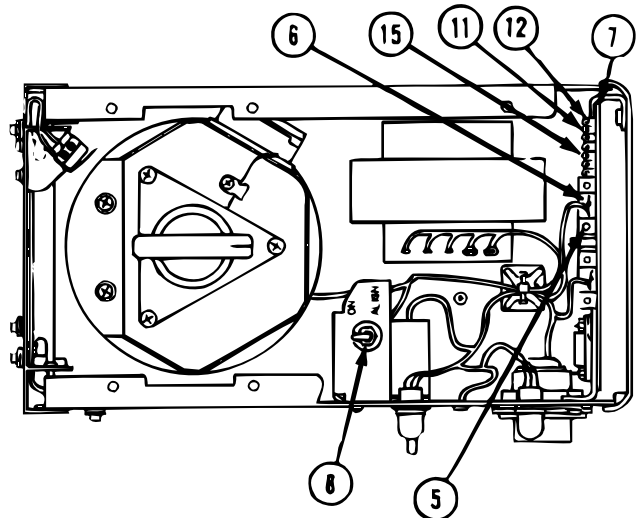
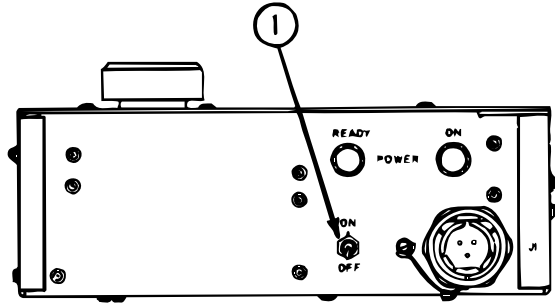
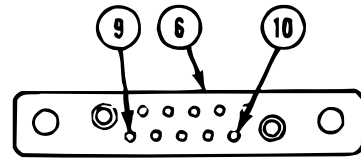
Component	Reference
Circuit breaker CB1	WP 0119 00
Circuit card A1A1	WP 0121 00
Transformer T1	WP 0120 00

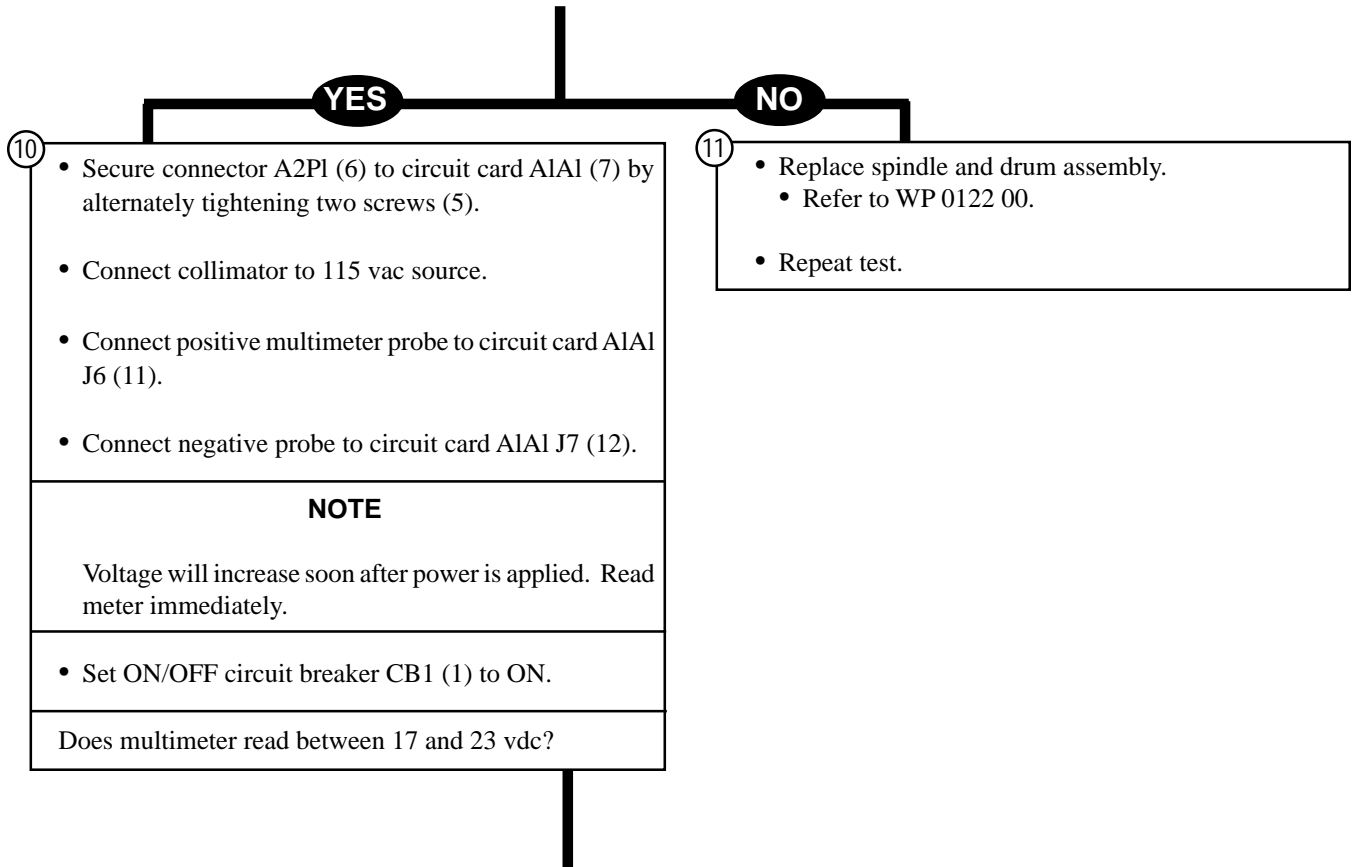


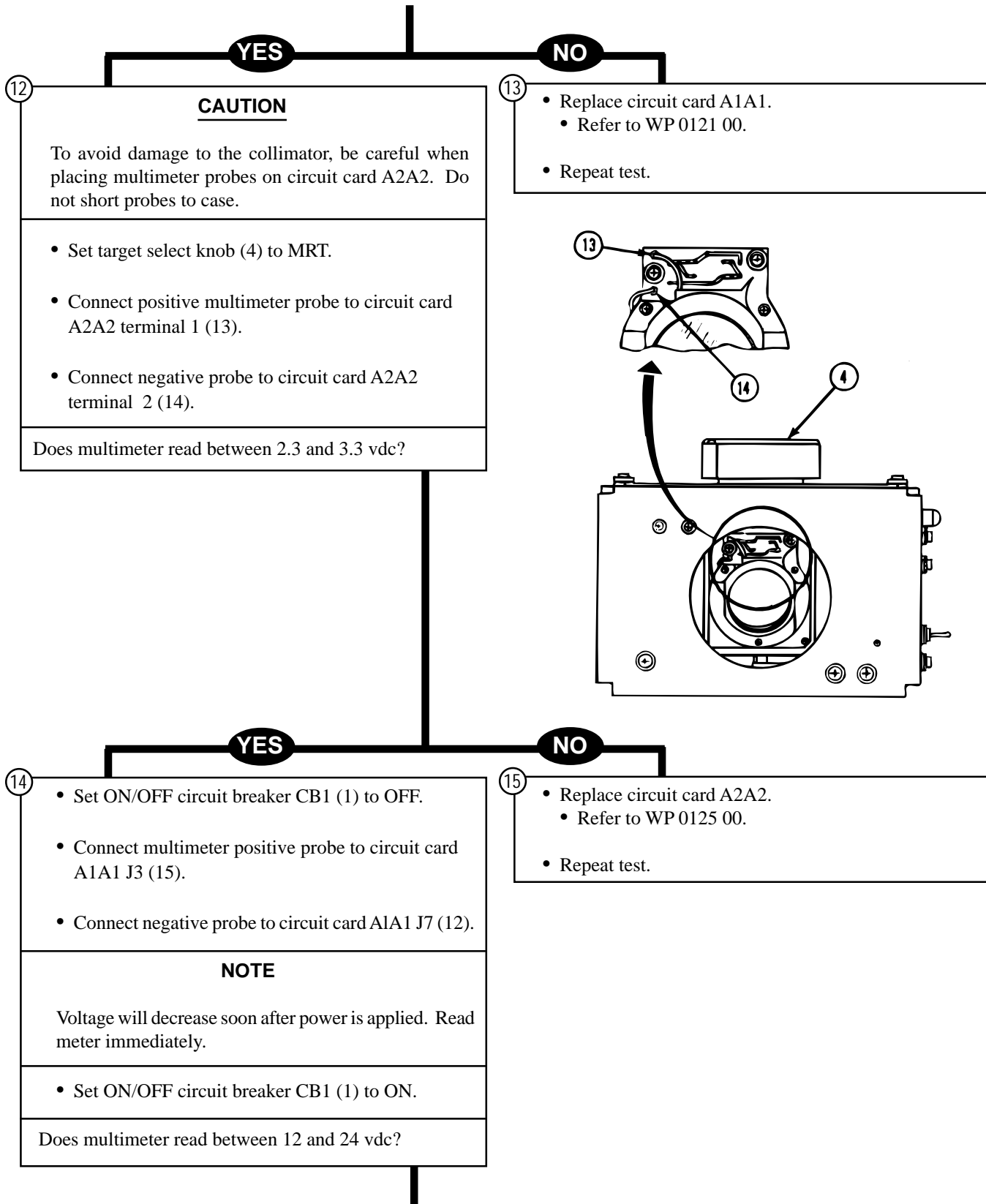


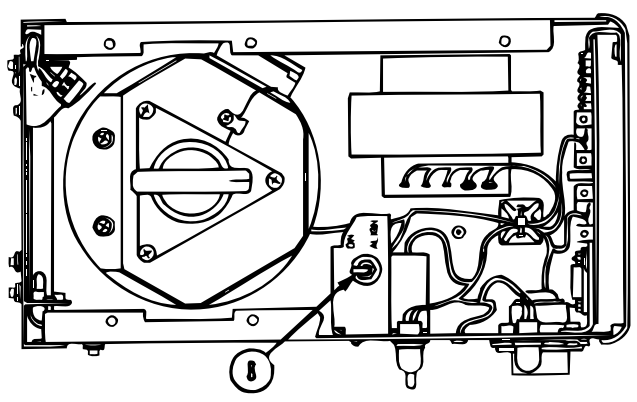
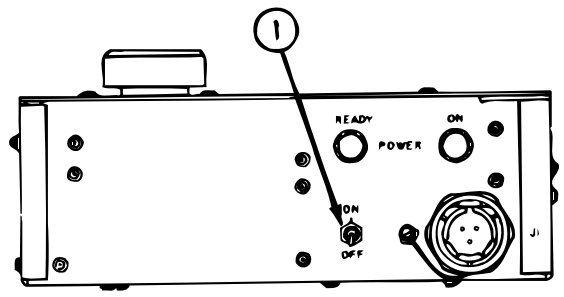
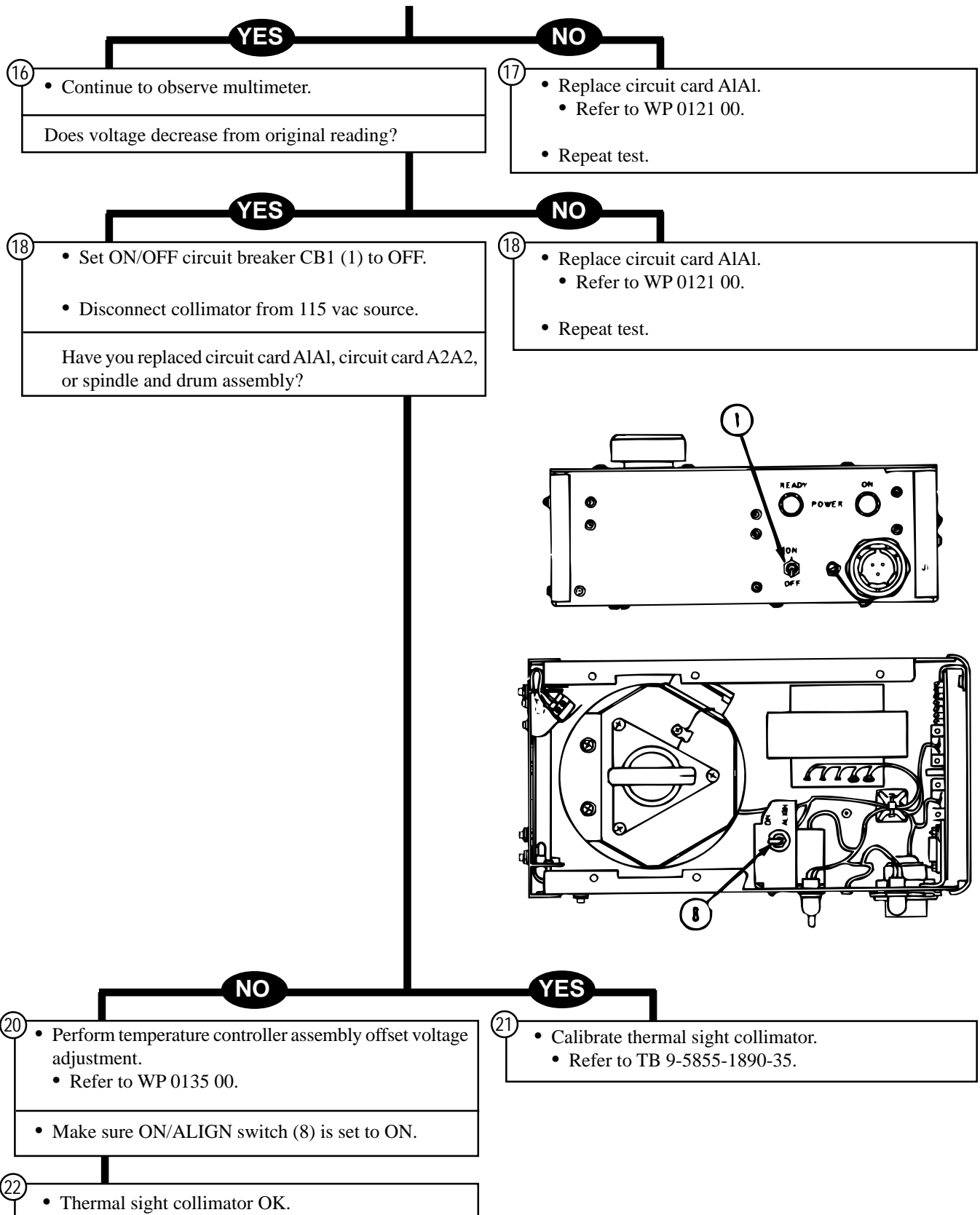
- 8
- Set ON/OFF circuit breaker CB1 (1) to OFF.
 - Disconnect collimator from 115 vac source.
 - If covers are still installed, remove covers.
 - Refer to WP 0116 00.
 - Alternately loosen two captive screws (5) and remove connector A2P1 (6) from circuit card A1A1 (7).
 - Make sure the ON/ALIGN switch (8) is set to ON.
 - Measure resistance between connector A2P1, pin 5 (9) and A2P1, pin 1 (10).
- Does multimeter read between 45 and 55 ohms?

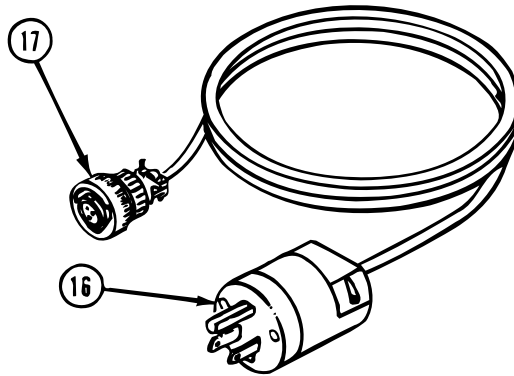
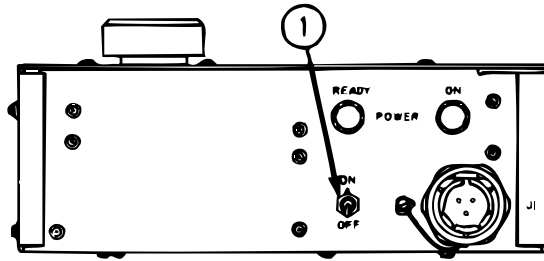
- 9
- Go to block 28.











From Block 7.

- 23
- Set ON/OFF circuit breaker CB1 (1) to OFF.
 - Remove power cable W1 from 115 vac source and connector J1.
 - Inspect power cable W1 connectors P1 (16) and P2 (17) for bent, broken or missing pins, cracks, and foreign material in sockets.

Is either connector damaged?

NO

YES

- 24
- Check power cable W1 for continuity.
 - Refer to Figure 3 of WP 0033 00.

Does cable check OK?

- 25
- Replace connector W1P1 or W1P2.
 - Refer to WP 0134 00.
 - Repeat test.

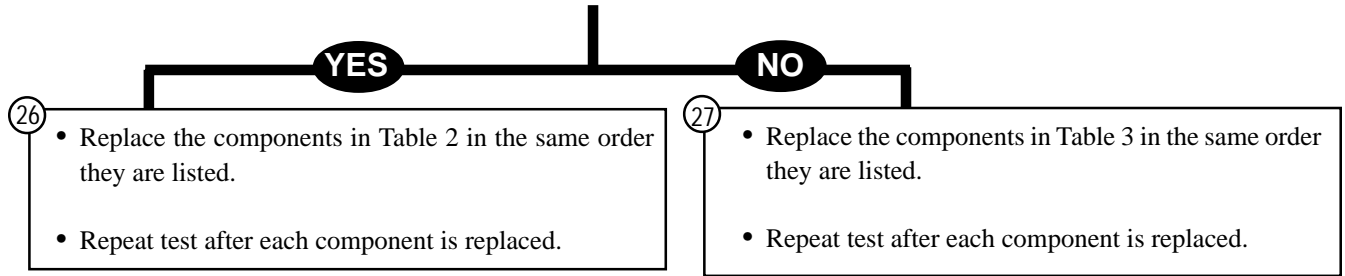


Table 2.

Component	Reference
Circuit breaker CB1	WP 0119 00
Connector J1	WP 0124 00
Wiring harness W1	WP 0133 00
Circuit card A1A1	WP 0121 00
Transformer T1	WP 0120 00

Table 3.

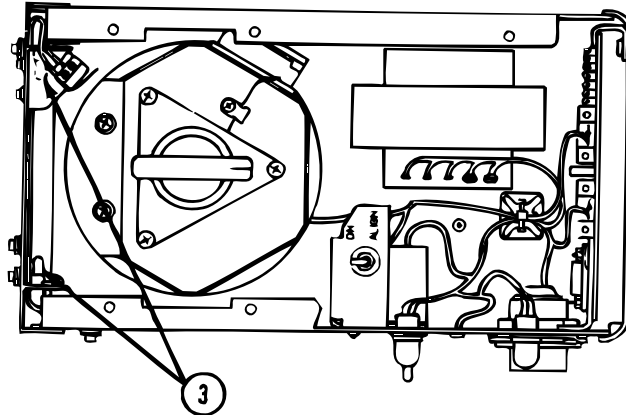
Component	Reference
Connector W1P1	WP 0134 00
Connector W1P2	WP 0134 00
Power cable W1	WP 0134 00

Table 4.

Procedure	Reference
Replace visible lamps	WP 0123 00
Replace visible lamps assemblies	WP 0123 00
Adjust sensitive switch	WP 0136 00
Replace sensitive switch	WP 0126 00
Replace W1 wiring harness	WP 0133 00
Replace cam	WP 0126 00

Table 5.

Component	Reference
Visible lamp	WP 0123 00
Visible lamp assembly	WP 0123 00
W1 wiring harness	WP 0133 00



From Block 9.

28 • Are both lamps (3) unlit?

YES

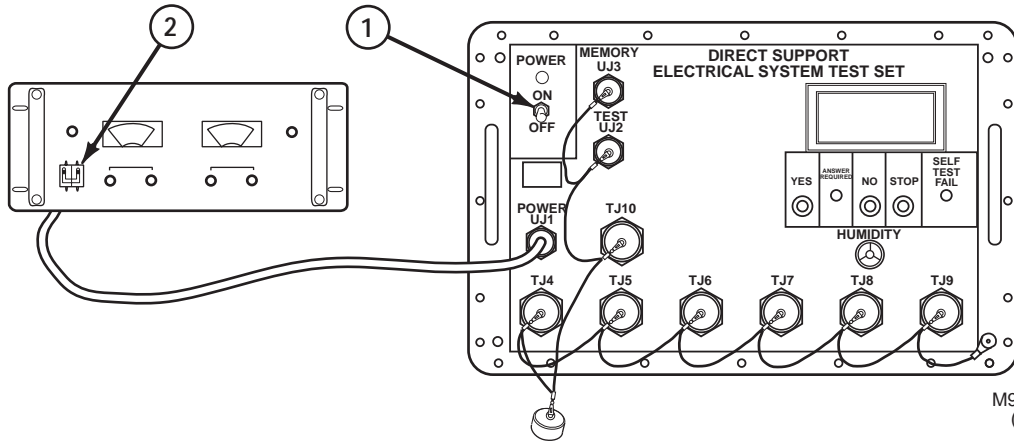
NO

29 **NOTE**
 Some collimators are not equipped with a sensitive switch and cam. See WP 0002 00.

- Perform the procedures in Table 4 in the same order they are listed.
- Repeat test after each procedure is performed.

30

- Replace the components in Table 5 in the same order they are listed.
- Repeat test after each component is replaced.



M97T30-001
(04-23-02)

SYMPTOM

DURING OIU FST OR LRU TEST DISPLAY
CHANGES TO - OIU DSPS XX.X
SELF TEST IN PROGRESS.

Test Equipment/Special Tools:

- Multimeter

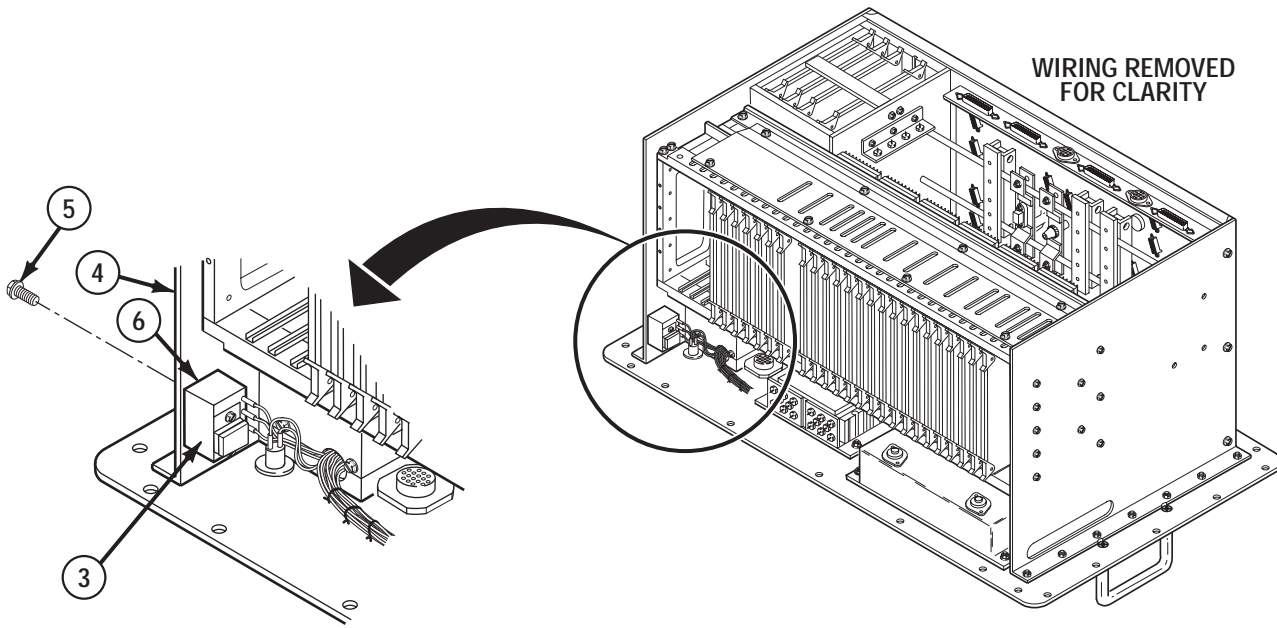
Equipment Conditions:

- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

1. Set OIU ON/OFF circuit breaker (1) to OFF.
- Set power supply ON/OFF switch (2) to OFF.
- Remove electronics assembly.
 - Refer to WP 0044 00.

NOTE

Do not install electronics assembly until test is complete.



M2T30-002

2 • Using multimeter, measure resistance between power monitor controller (PMC) case (3) and OIU chassis (4).

Does multimeter indicate an open between PMC and chassis?

YES

NO

3 • Replace PMC.
• Refer to WP 0097 00.

• Verify OIU operation by performing checkout procedure.
• Refer to WP 0040 00.

4 • Remove two nylon screws (5) attaching insulator (6) and PMC (3) to OIU chassis (4).

• Install new insulator (6), two new nylon screws (5), and the PMC (3).

• Using multimeter, make sure that there is now an open between PMC (3) and OIU chassis (4).

• Verify OIU operation by performing checkout procedure.
• Refer to WP 0040 00.

SYMPTOM

SUSPECTED FAULTY THERMAL SIGHT
COLLIMATOR P/N 12951545.

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

- Thermal sight collimator on workbench connected to 115 vac, 60 Hz source.
- Shroud removed.

WARNING

To avoid injury, disconnect thermal sight collimator from 115 vac source before replacing faulty parts.

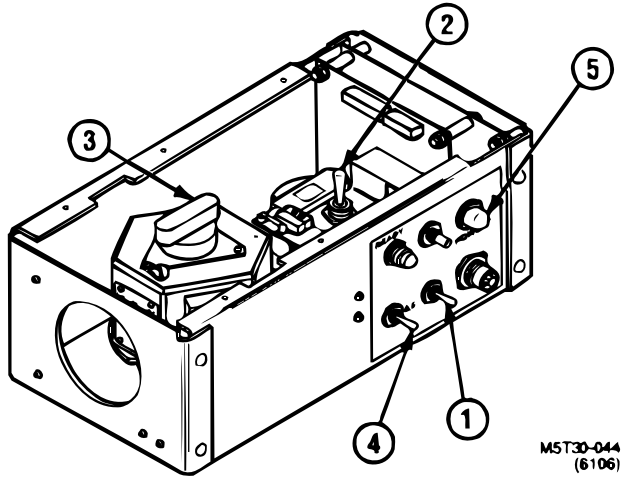
NOTE

For thermal sight collimator P/N 12951545 wiring diagrams, see Figure 9 of WP 0004 00.

1

- Verify that temperature differential switch S3 (1) is set to 4.5C (center) position.
- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
- Verify that ON/ALIGN switch S4 (2) is set to ON.
- Install right cover on temperature controller assembly. Refer to WP 0138 00.
- Set target select knob (3) to BAR.
- Set ON/OFF circuit breaker CB1 (4) to ON.

Does circuit breaker trip?



NO

2 Is POWER ON indicator (5) lit?

YES

3 Go to block 21.

YES

4

NOTE

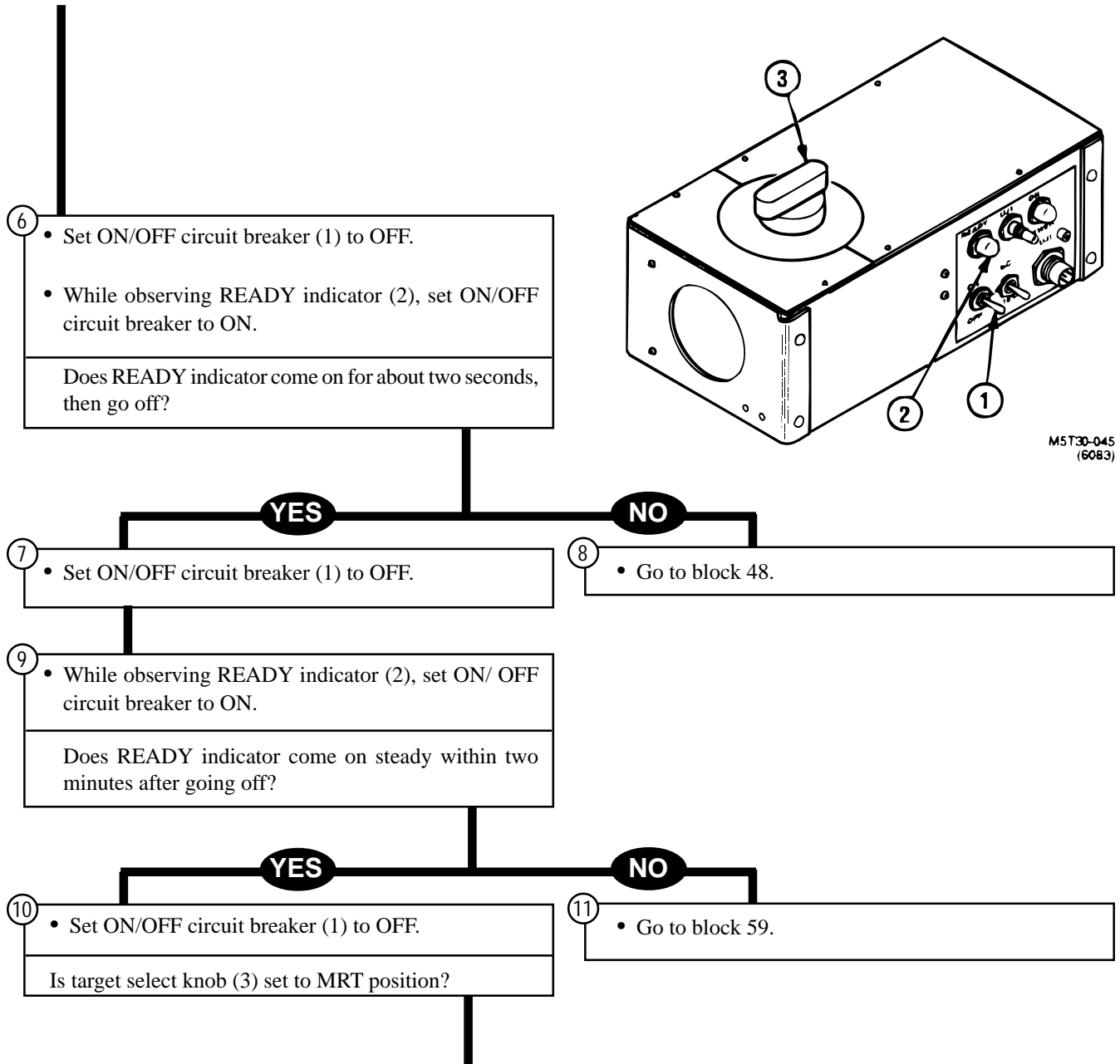
5

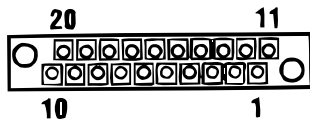
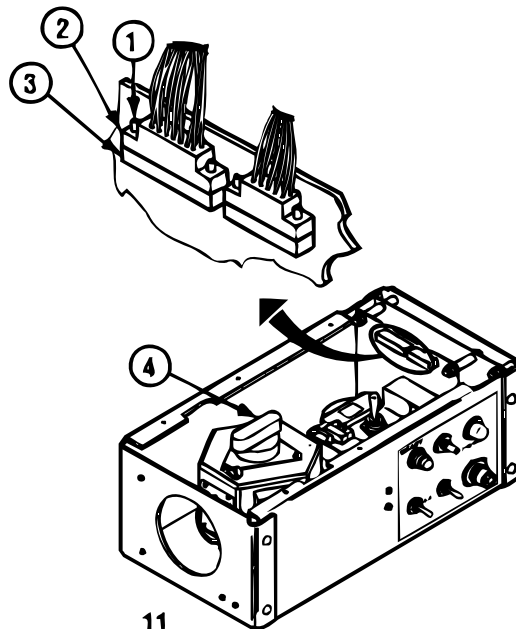
- Go to block 31.

Collimator operation and repair must be performed in a relatively stable temperature environment of 18 to 28 degrees centigrade (64 to 82 degrees Fahrenheit). Operating the thermal sight collimator outside of the above temperature range may cause the READY indicator to remain off.

When temperature control circuitry is functioning properly, the READY lamp will: come on for about two seconds when ON/OFF circuit breaker is set to on; then go off for 20 seconds to two minutes (internal temperature stabilization time); then come on steady.

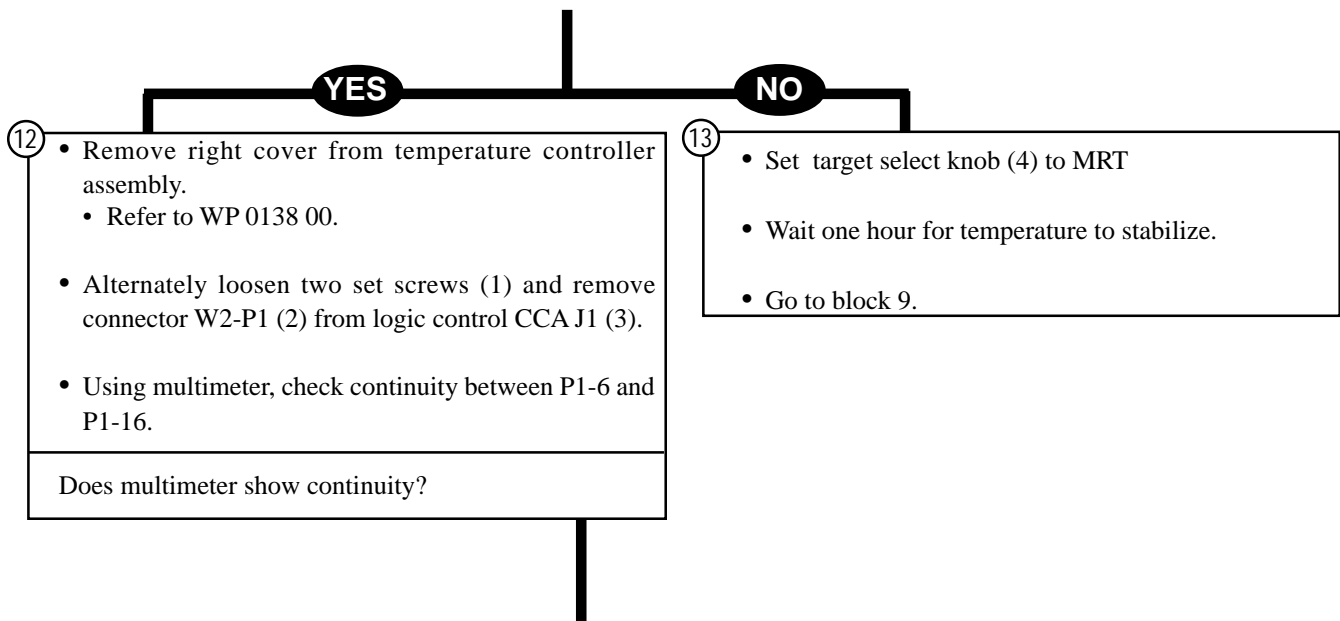
If a self-test failure occurs, the READY indicator will go off after about two seconds, but will begin flashing an error code within 20 seconds.

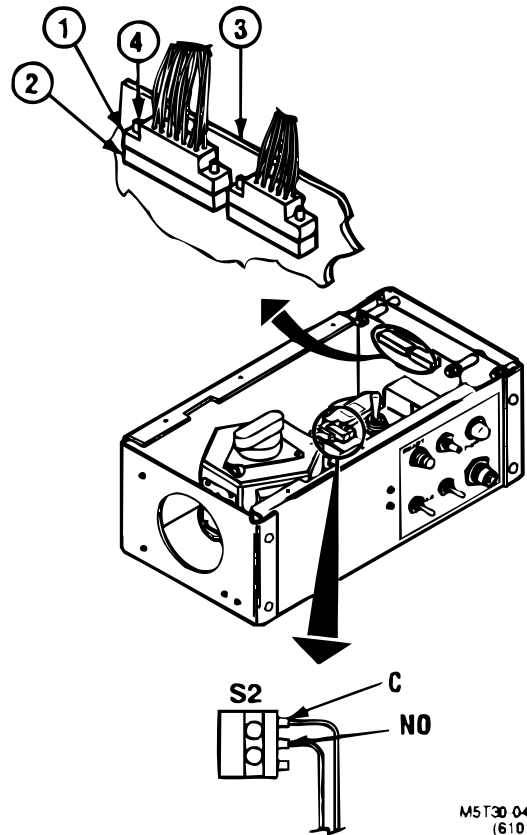
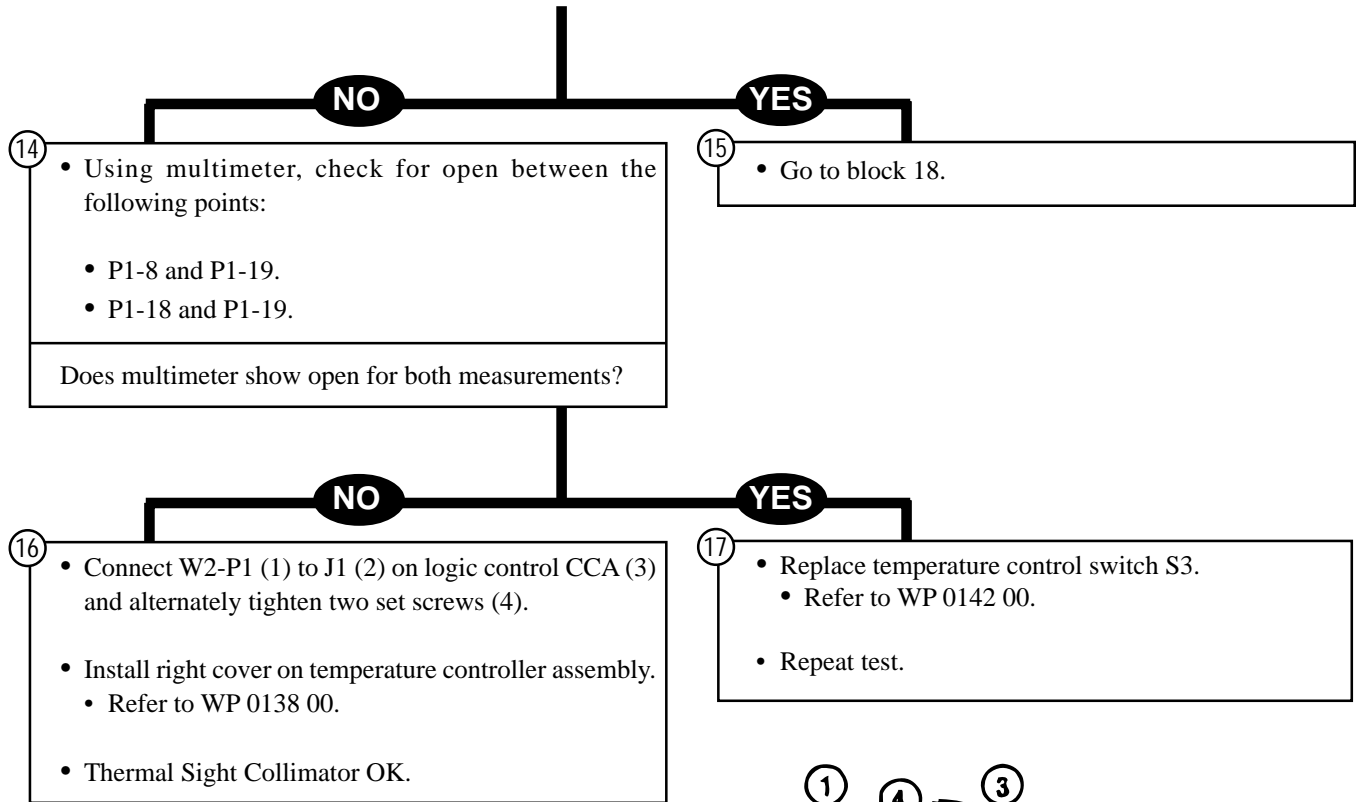




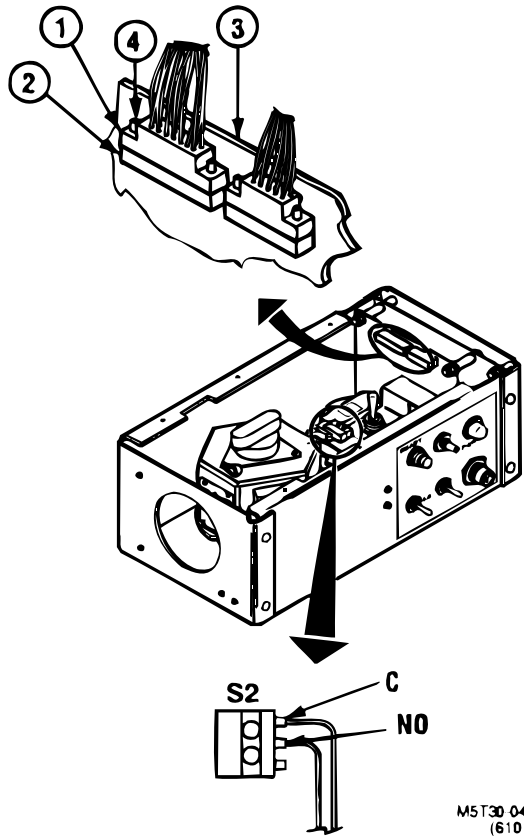
W2-P1 (FRONT VIEW)

M5T3D-043
(6083)





M5T30 046
(6101)



M5T30 046
(6101)

From block 15.

18

- Using multimeter, check continuity between S2-NO and S2-C.

Does multimeter show continuity?

NO

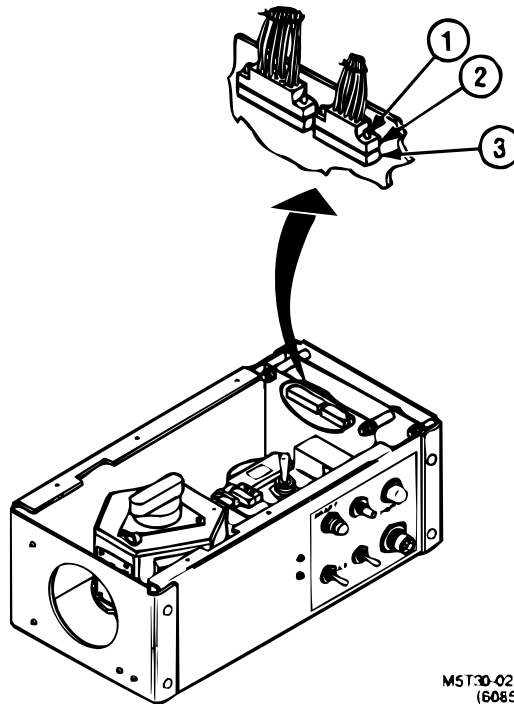
YES

19

- Replace cable assembly W2.
 - Refer to WP 0155 00.
- Calibrate thermal sight collimator.
 - Refer to TB 9-5855-1890-35.

20

- Replace sensitive switch S2.
 - Refer to WP 0145 00.
- Repeat test.



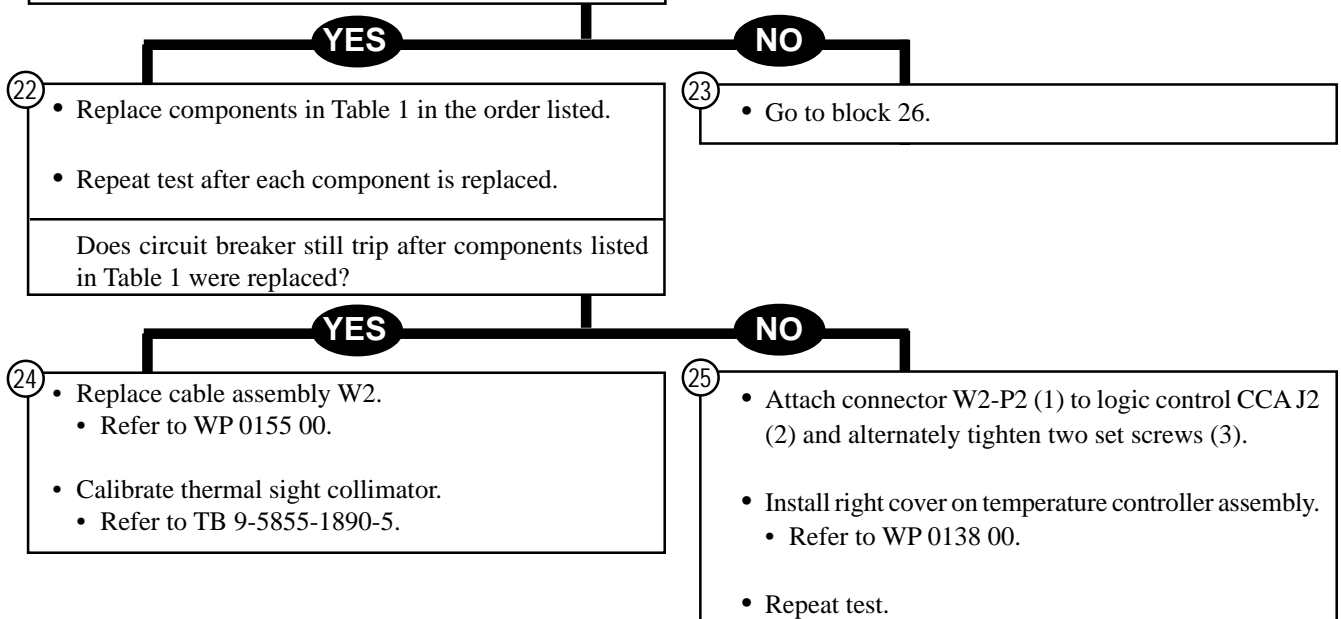
M5T30-025
(6085)

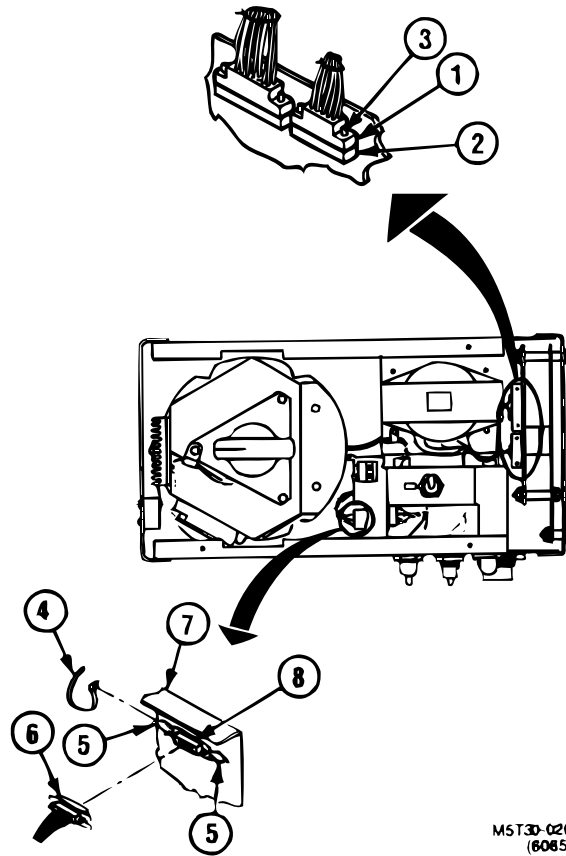
From block 3.

- 21
- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
 - Alternately loosen two set screws (1) and remove connector W2-P2 (2) from logic control CCA J2 (3).
 - Set ON/OFF circuit breaker CB1 to ON.
- Does circuit breaker trip?

Table 1.

Component	Reference
Transformer T1	WP 0143 00
Circuit breaker CB1	WP 0142 00





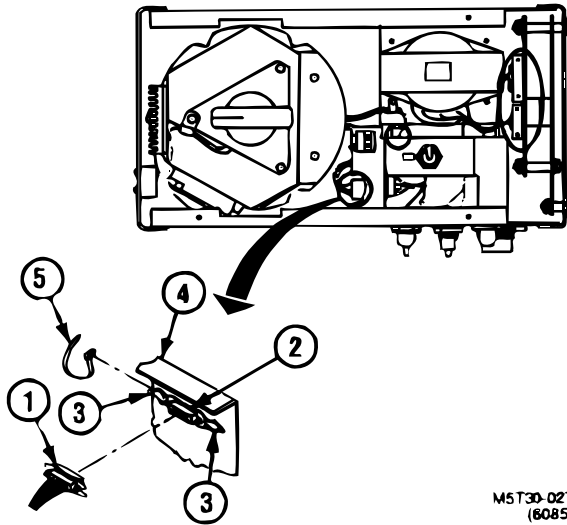
M5T3D-026
(6085)

From block 23.

26

- Attach connector W2-P2 (1) to logic control CCA J2 (2) and alternately tighten two set screws (3).
- Cut cable ties (4) from latch assemblies (5).
- Release two latch assemblies (5) securing connector spindle and drum assembly W1-P1 (6) to mounting bracket (7) and connector W2-P3 (8).
- Disconnect and remove spindle and drum assembly connector W1-P1 (6) from connector W2-P3 (8).
- Set ON/OFF circuit breaker to ON.

Does circuit breaker trip?



M5T30-027
(6085)

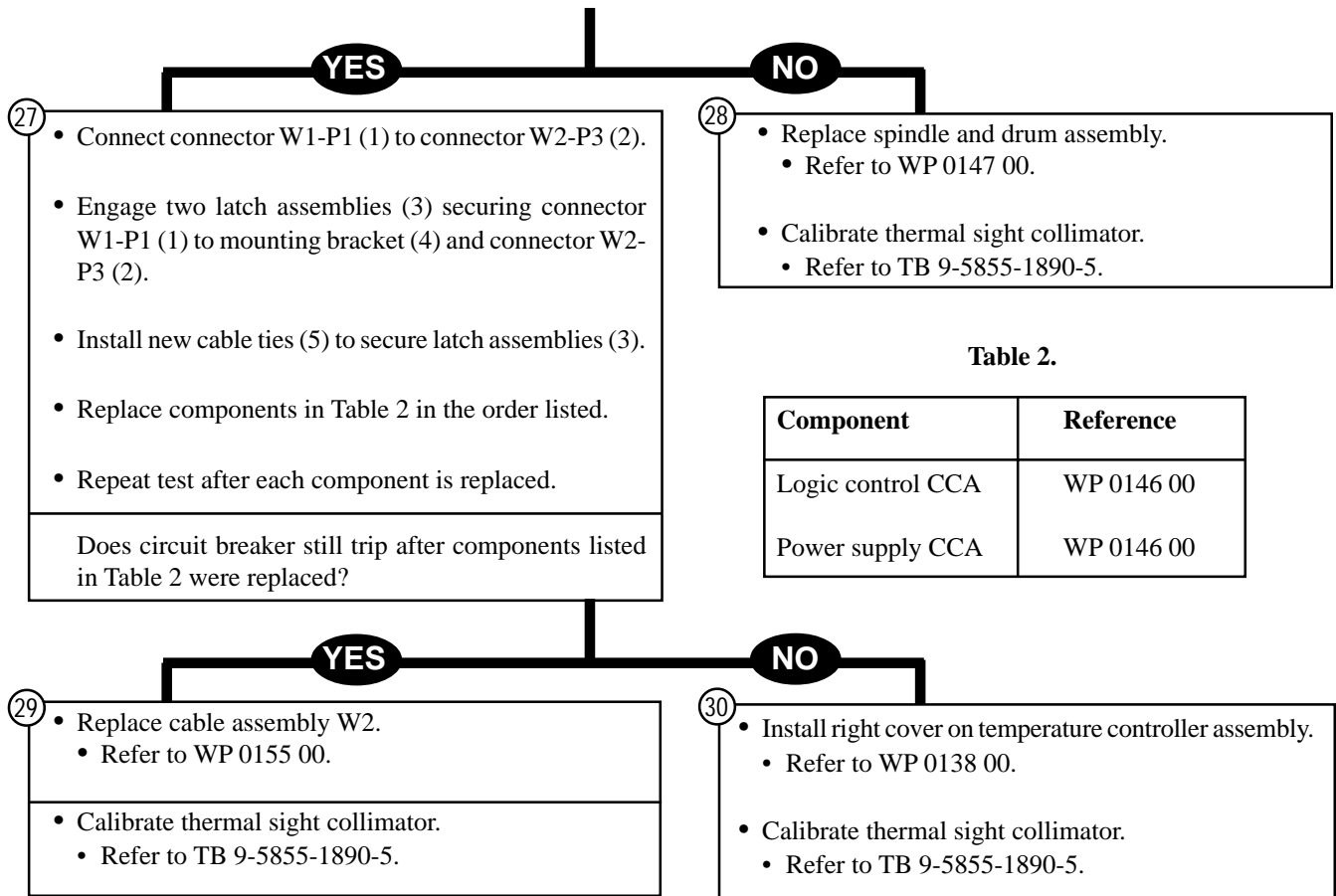
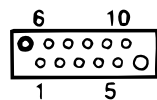
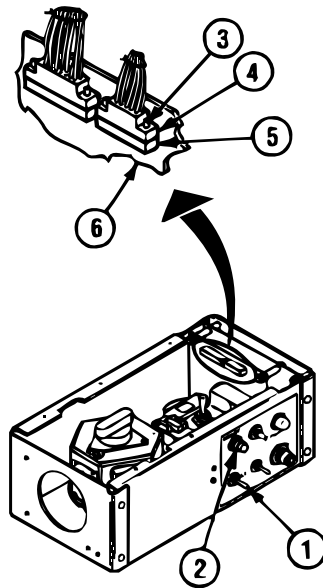


Table 2.

Component	Reference
Logic control CCA	WP 0146 00
Power supply CCA	WP 0146 00



W2-P2 (FRONT VIEW)



M5T30-028
(6085)

From block 5.

31

- Set ON/OFF circuit breaker (1) to OFF.
- While observing READY indicator (2), set ON/OFF circuit breaker to ON.

Did READY indicator (2) come on?

YES

NO

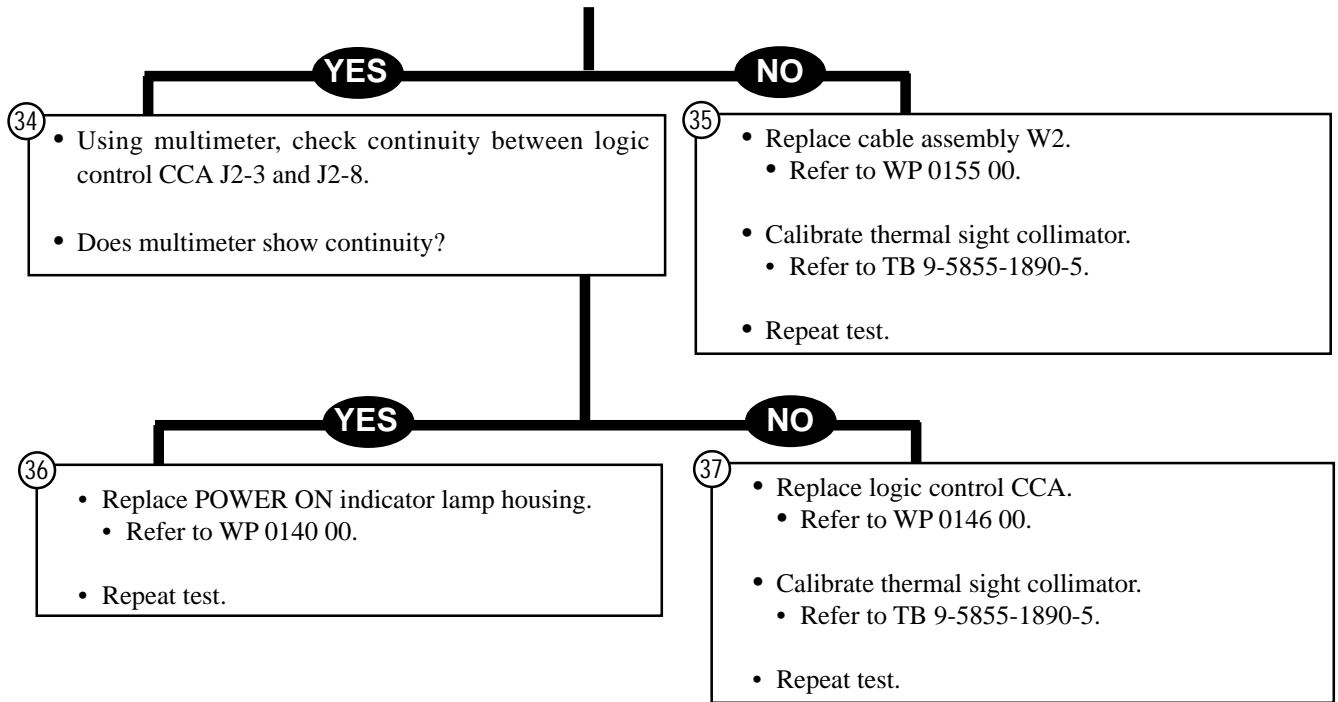
32

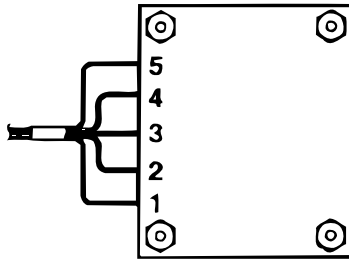
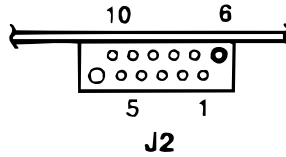
- Set ON/OFF circuit breaker (1) to OFF.
- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
- Alternately loosen two set screws (3) and remove connector W2-P2 (4) from J2 (5) on logic control CCA (6).
- Using multimeter, check continuity between the following points:
 - P2-3 and DS2-(+)
 - P2-5 and DS2-(-)

Does multimeter show continuity for both measurements?

33

- Go to block 38





T1

M5T30-051
(6088)

From block 33.

38

- Set ON/OFF circuit breaker to OFF.
- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
- Connect positive multimeter probe to transformer T1-1.
- Connect negative multimeter probe to transformer T1-2.
- Set ON/OFF circuit breaker to ON.

Does multimeter read between 107 and 123 vac?

YES

NO

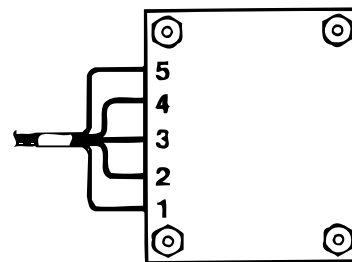
39

- Set ON/OFF circuit breaker to OFF.
- Connect positive multimeter probe to transformer T1-3.
- Connect negative multimeter probe to transformer T1-5.
- Set ON/OFF circuit breaker to ON.

Does multimeter read between 52 and 65 vac?

40

- Go to block 45.

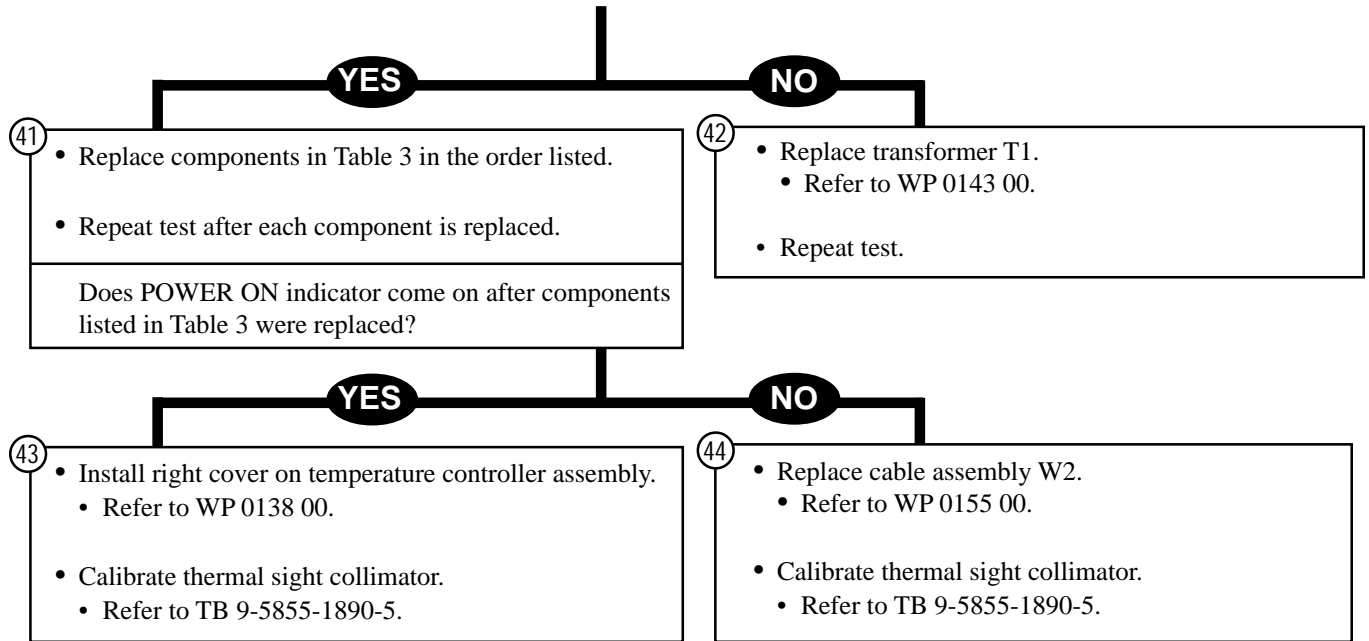


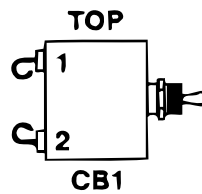
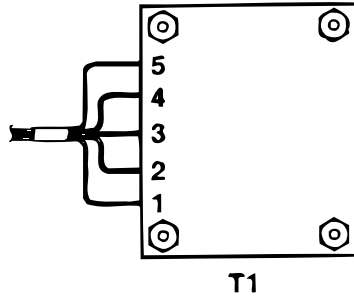
T1

M5T30-052
(6088)

Table 3.

Component	Reference
Power supply CCA	WP 0146 00
Logic control CCA	WP 0146 00





MST30-041
(6008)

From block 40.

45

- Set ON/OFF circuit breaker to OFF.
- Connect positive multimeter probe to circuit breaker CB1-1.
- Connect negative multimeter probe to transformer T1-2.

Does multimeter read between 107 and 123 vac?

YES

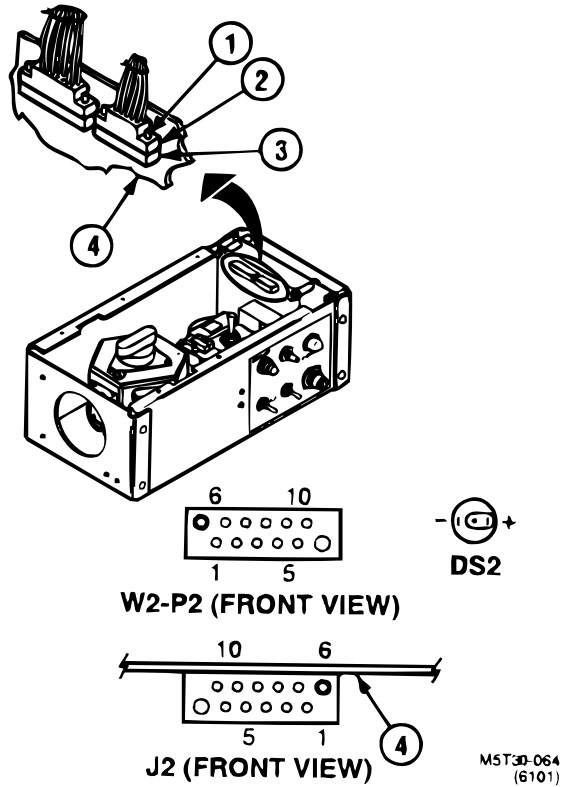
NO

46

- Replace circuit breaker CB1.
- Refer to WP 0142 00.
- Repeat test.

47

- Replace cable assembly W2.
- Refer to WP 0155 00.
- Calibrate thermal sight collimator.
- Refer to TB 9-5855-1890-5.



From block 8.

48 • Does READY indicator come on?

NO

YES

49 • Set ON/OFF circuit breaker to OFF.

- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
- Alternately loosen two set screws (1) and remove connector W2-P2 (2) from J2 (3) on logic control CCA (4).
- Using multimeter, check continuity between the following points:
 - P2-8 and DS1-(+)
 - P2-9 and DS1-(-)

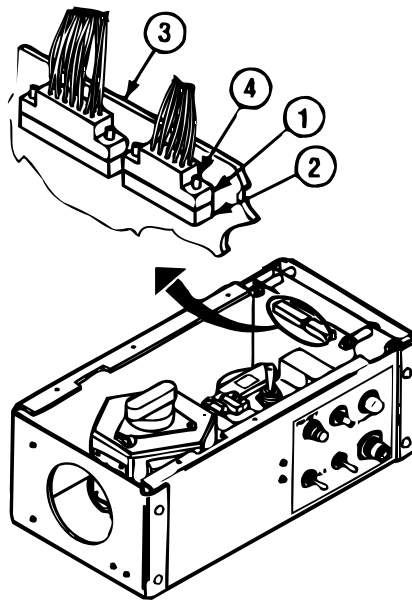
50 • Replace components in Table 4 in the order listed.

- Repeat test after each component is replaced.
- Calibrate thermal sight collimator.
 - Refer to TB 9-5855-1890-5.

Does multimeter show continuity for both measurements?

Table 4.

Component	Reference
Logic control CCA	WP 0146 00
Power supply CCA	WP 0146 00



M5T30-049a
(6102)

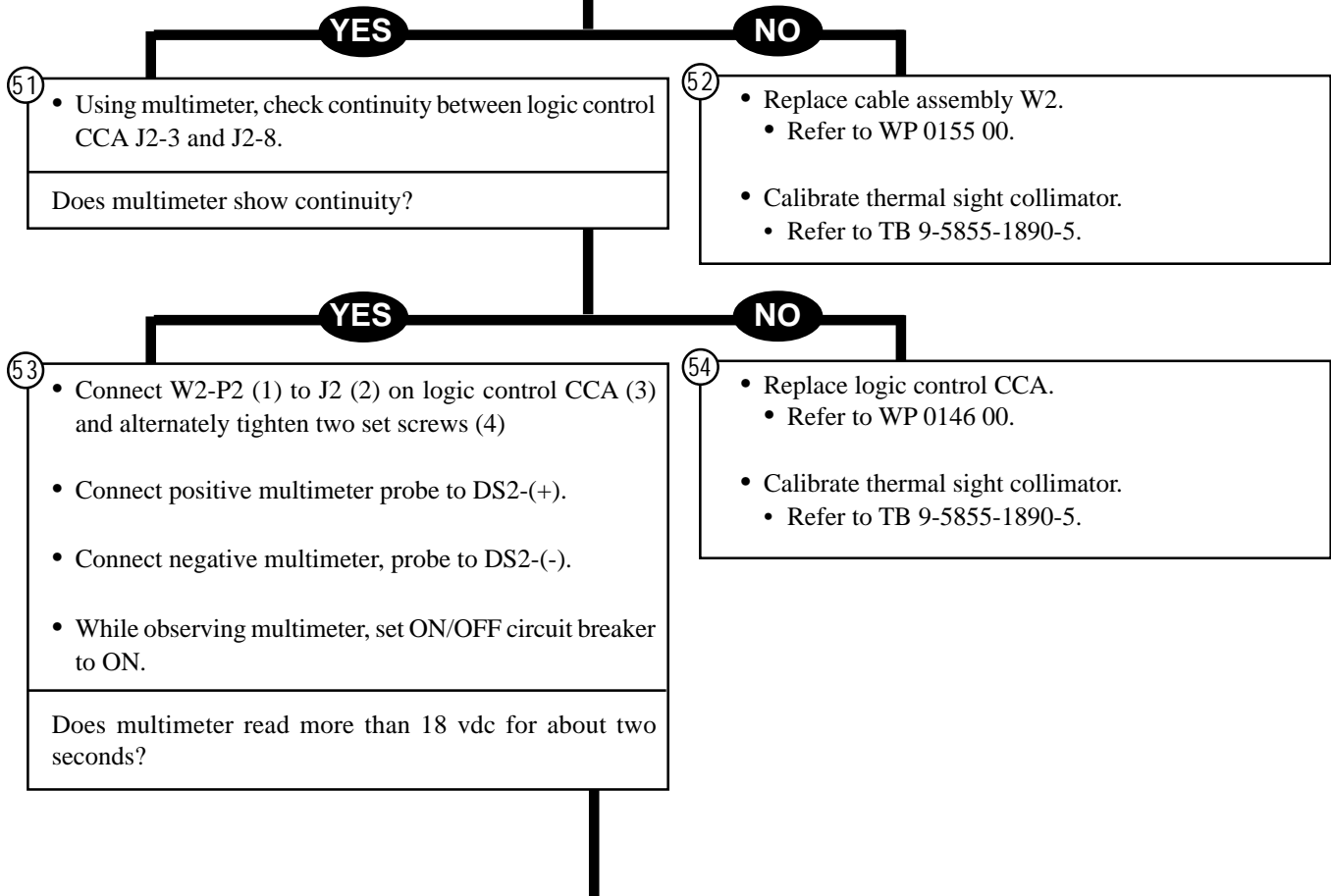
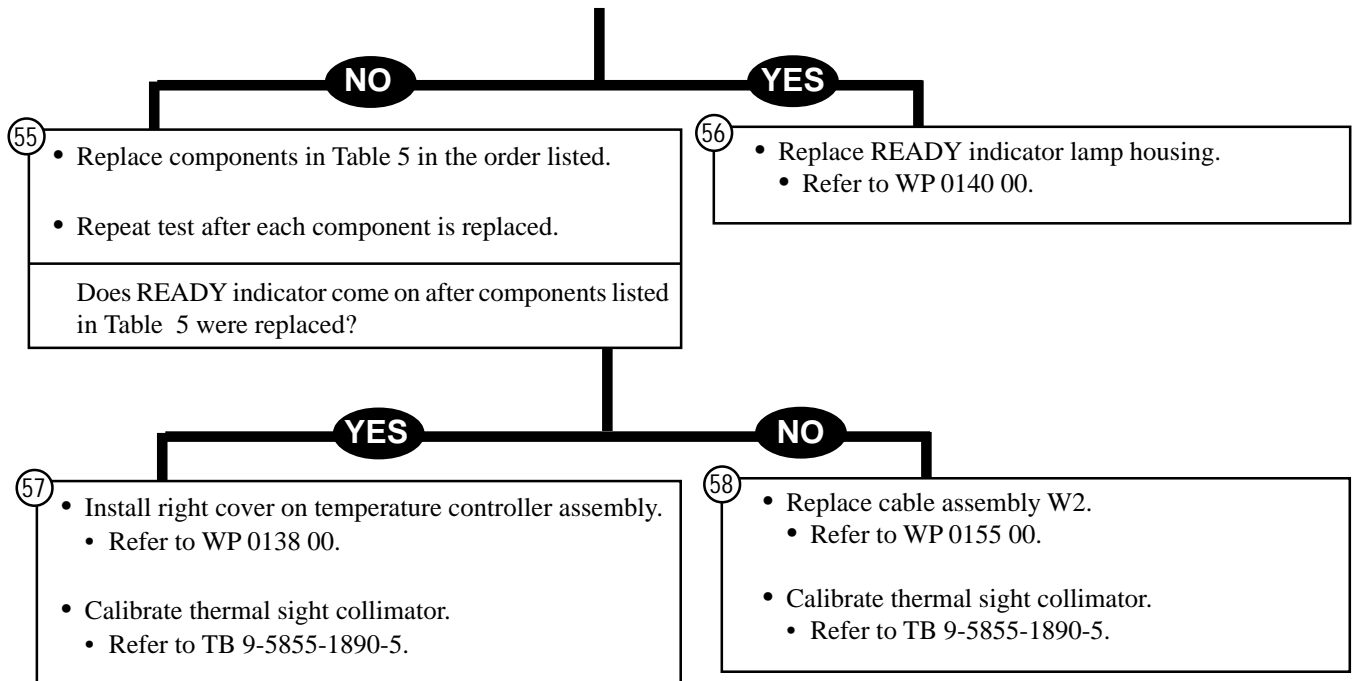


Table 5.

Component	Reference
Logic control CCA	WP 0146 00
Power supply CCA	WP 0146 00



From block 11.

59 **NOTE**

Error codes are represented by a series of flashes followed by a short pause (lamp remains off for about one second), then the series begins all over again.

Three error codes are possible during normal operation of the collimator. The error code numbers are: 2 (two flashes); 4 (four flashes); or 8 (eight flashes).

A series of flashes, with no pauses, represents a failure in the ON/ALIGN circuitry and should not be interpreted as an error code.

60 Is READY indicator flashing an error code?

YES

NO

61 Is READY indicator flashing a 4 or 8 error code?

62 • Go to block 65.

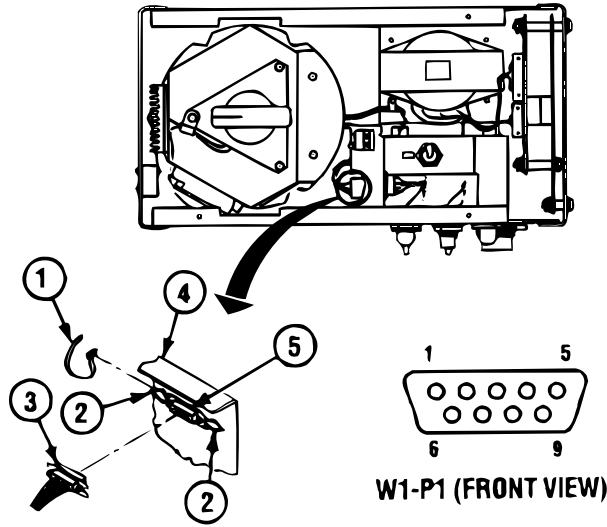
YES

NO

63 • Replace logic control CCA.
• Refer to WP 0146 00.

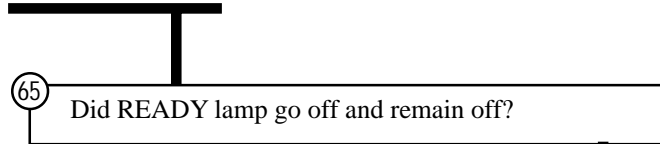
• Calibrate thermal sight collimator.
• Refer to TB 9-5855-1890-5.

64 • Go to block 66.



M5T30-047
(6085)

From block 62.



YES

NO

From block 64.

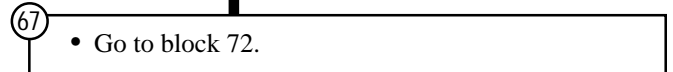
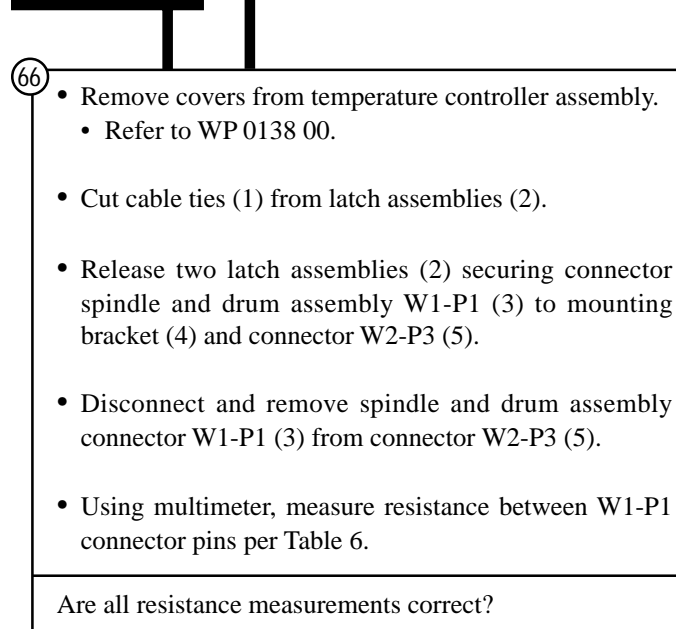
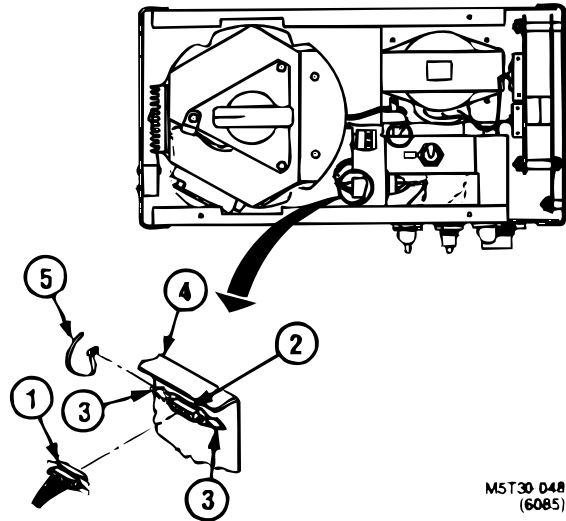


Table 6.

W1-P1 Connector Pins	Resistance (Ohms)
P1-1 and P1-2	530 to 555
P1-3 and P1-4	530 to 555
P1-6 and P1-7	45 to 55
P1-8 and P1-9	530 to 555



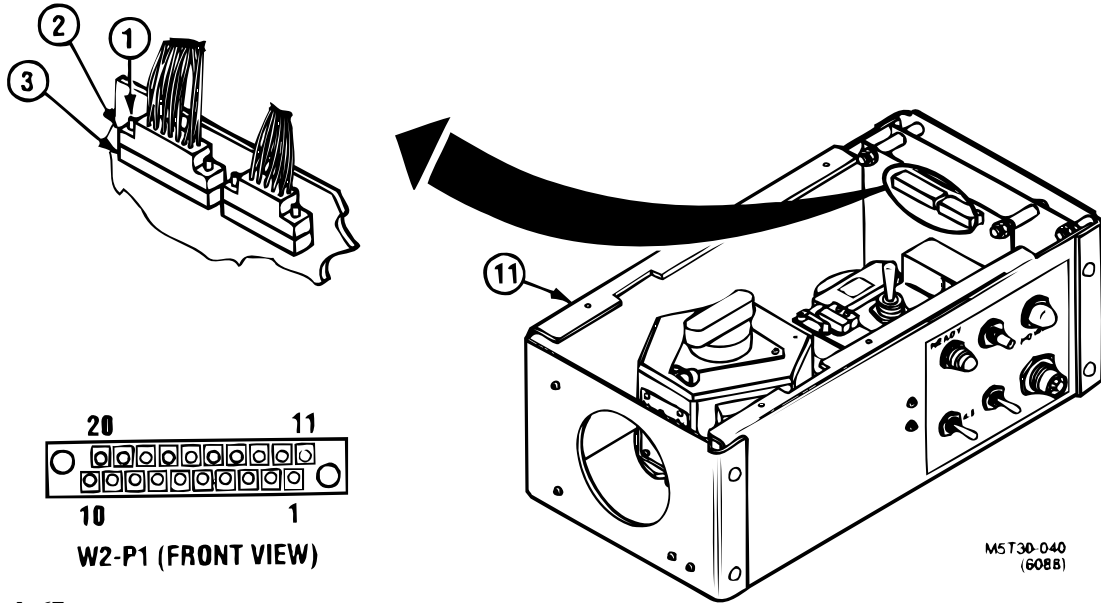
M5T30 048
(6085)

YES	NO
<p>68</p> <ul style="list-style-type: none"> • Connect connector W1-P1 (1) to connector W2-P3 (2). • Engage two latch assemblies (3) securing connector W1-P1 (1) to mounting bracket (4) and connector W2-P3 (2). • Install new cable ties (5) to secure latch assemblies (3). • Replace components in Table 7 in the order listed. • Repeat test after each component is replaced. <p style="text-align: center;">Does READY indicator go off then come back on within two minutes after setting ON/OFF circuit breaker to on?</p>	<p>69</p> <ul style="list-style-type: none"> • Replace spindle and drum assembly. <ul style="list-style-type: none"> • Refer to WP 0147 00. • Calibrate thermal sight collimator. <ul style="list-style-type: none"> • Refer to TB 9-5855-1890-5.

Table 7.

Component	Reference
Logic control CCA	WP 0146 00
Power Supply CCA	WP 0146 00

YES	NO
<p>70</p> <ul style="list-style-type: none"> • Install covers on temperature controller assembly <ul style="list-style-type: none"> • Refer to WP 0138 00. • Calibrate thermal sight collimator. <ul style="list-style-type: none"> • Refer to TB 0-5855-1890-5. 	<p>71</p> <ul style="list-style-type: none"> • Replace cable assembly W2. <ul style="list-style-type: none"> • Refer to WP 0155 00. • Calibrate thermal sight collimator. <ul style="list-style-type: none"> • Refer to TB 9-5855-1890-5.



From block 67.

- 72
- Remove right cover from temperature controller assembly.
 - Refer to WP 0138 00.
 - Alternately loosen two set screws (1) and remove connector W2-P1 (2) from logic control CCA J1 (3).
 - Using multimeter, check continuity between cable assembly W2 P1-5 and P1-15.
- Does multimeter show continuity?

Table 8.

Component	Reference
ON/ALIGN switch S4	WP 0142 00
Cable assembly W2	WP 0155 00

- YES**
- 73
- Replace logic control CCA.
 - Refer to WP 0146 00.
 - Calibrate thermal sight collimator.
 - Refer to TB 9-5855-1890-5.

- NO**
- 74
- Attach connector W2-P1 (2) to logic control CCA J1 (3) and alternately tighten two set screws (1).
 - Replace components in Table 8 in the order listed.
 - Repeat test after each component is replaced.

Test Set Diagrams.

The supplementary troubleshooting data, consisting of diagrams, illustrations, and wiring lists, support the detailed troubleshooting procedures in WP 0006 00 to WP 0032 00 and the checkout procedure in WP 0040 00. This information will also help you locate test points called out in the troubleshooting procedures, and help you to better understand the electrical relationship of the test set components. The OIU connector wiring list shown in Table 1 of WP 0035 00 to WP 0037 00 contains the internal point-to-point wiring of the OIU. Each individual wire is identified by a wire number stamped on the wire at 3-inch intervals. Special wiring, such as shielded wires, twisted wires, and drains, is identified in the remarks column by a unique alpha-numeric code as follows:

An alphabetic code followed by a numeric, indicating the type wire and identifying number.

- (1) TW1 - Twisted wire number 1
- (2) SH1 - Shielded wire number 1
- (3) DR1 - Drain wire number 1

A dash and numeric following the alpha-numeric described above identifying the number of wires of a specific type.

- (1) TW1-2 - First twisted wire; twisted pair
- (2) TW2-3 - Second twisted wire; triple twisted
- (3) SH1-1 - First shielded wire; single shielded
- (4) SH2-2 - Second shielded wire; shielded pair
- (5) DR1-1 - First drain; terminating one shield
- (6) DR2-6 - Second drain; terminating six shields

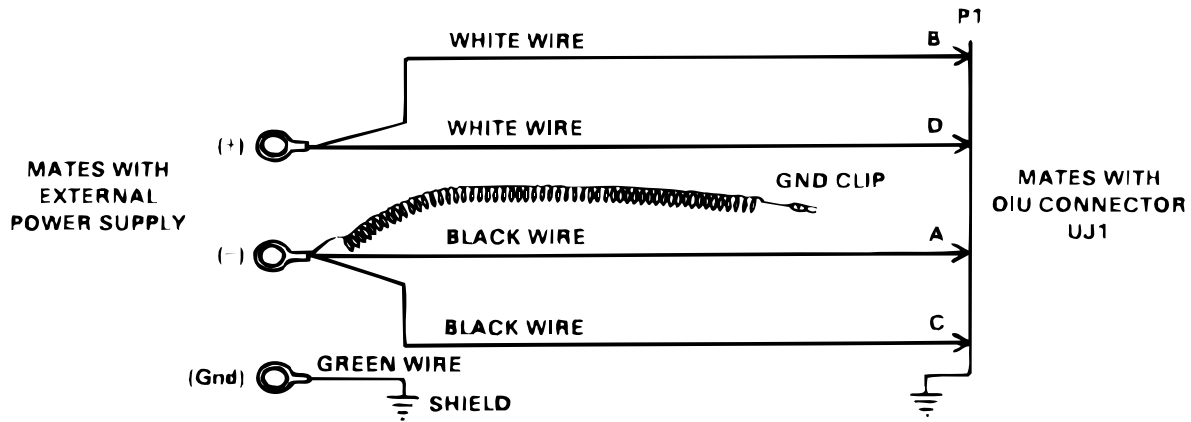


Figure 1. M1/FVS Power Cable PWR-W1

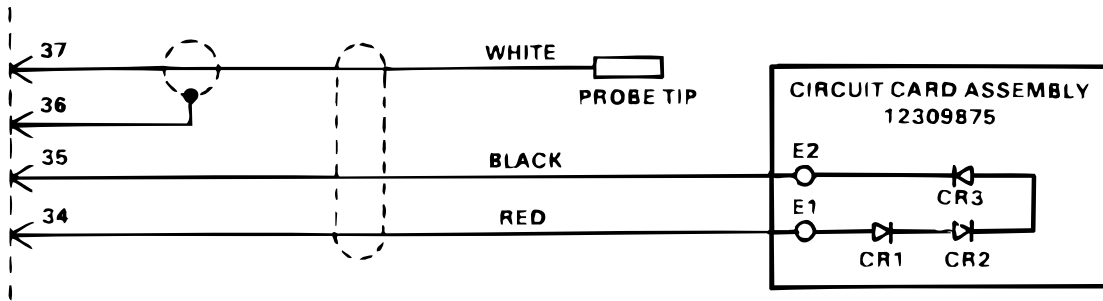


Figure 2. Test Probe TPC W50

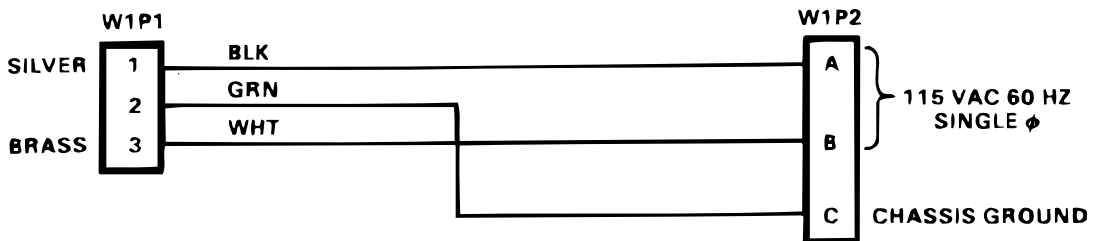
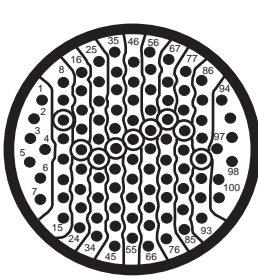
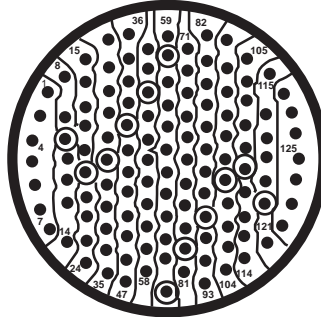


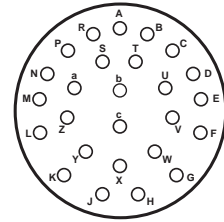
Figure 3. Thermal Sight Collimator Power Cable W1



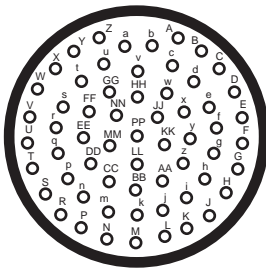
FST-TJ9-1
FST-TJ9-2



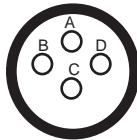
FST-TJ7-1
FST-TJ7-2
FST-W87, P1
FST-TJ6
FST-TJ5-2
FST-TJ5-1
FST-W88, P2
FST-TJ8



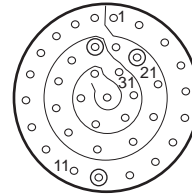
MEM-W60, P1
MEM-W60, P2
FST-W86, P1



FST-W88, P1
FST-W87, P2
FST-TJ4
FST-TJ10



M1/FVS
PWR-W1, P1



TPC-W50, P1
FST-W86, P2

M97T30-039
(11/20/97)

Figure 4. Test Cable and Test Adapter Connector Pin Arrangement

CABLE AND ADAPTER WIRING LISTS

THIS WORK PACKAGE COVERS:

Cable wiring lists for the following adapters and test cables:

- Cable MEM-W60 (Table 1)
- Test Plug FST-TJ4 (Table 2)
- Test Plug FST-TJ5-1 (Table 3)
- Test Plug FST-TJ5-2 (Table 4)
- Test Plug FST-TJ6 (Table 5)
- Test Plug FST-TJ7-1 (Table 6)
- Test Plug FST-TJ7-2 (Table 7)
- Test Plug FST-TJ8 (Table 8)
- Test Plug FST-TJ9-1 (Table 9)
- Test Plug FST-TJ9-2 (Table 10)
- Test Plug FST-TJ10 (Table 11)
- Cable FST-W86 (Table 12)
- Cable FST-W87 (Table 13)
- Cable FST-W88 (Table 14)

Table 1. M1/FVS Memory (MEM- W60) Cable Wiring List

From W60-P1 UJ3	To W60-P2 J1
P1-A	P2-A
P1-B	P2-B
P1-C	P2-C
P1-D	P2-D
P1-E	P2-E
P1-H	P2-H
P1-P	P2-P
P1-R	P2-R
P1-S	P2-S
P1-T	P2-T
P1-U	P2-U
P1-V	P2-V
P1-W	P2-W
P1-X	P2-X
P1-Y	P2-Y
P1-Z	P2-Z
P1-a	P2-a

Table 2. Functional Self Test (FST-TJ4) Test Plug Wiring List

From	To
C	Z
E	W
F	e
H	HH
J	V
K	U
L	j
M	KK
N	JJ
P	k
c	PP

**Table 3. Functional Self Test
(FST-TJ5-1) Test Plug Wiring List**

From	To
1	14
1	93
2	120
5	79
6	102
7	24
8	64
9	19
10	86
11	87
12	88
13	23
20	76
29	96
30	74
43	77
43	78
44	100
45	127
46	53
57	68
59	69
60	70
61	71

**Table 3. Functional Self Test
(FST-TJ5-1) Test Plug Wiring List (continued)**

From	To
62	123
65	122
66	111
67	113
72	126
73	103
75	101
80	109
92	99
94	97
110	119
112	128
115	121

**Table 4. Functional Self Test
(FST-TJ5-2) Test Plug Wiring List**

From	To
1	29
3	67
4	20
6	104
7	108
8	22
9	90
10	25
11	63
12	27
13	17
14	23
15	74
16	73
18	62
19	47
19	48
19	49
19	50
21	57
26	44
28	45
31	97
32	51
33	52
34	36
34	37

**Table 4. Functional Self Test
(FST-TJ5-2) Test Plug Wiring List (continued)**

From	To
34	77
35	38
35	39
35	40
35	78
41	42
41	43
55	119
56	121
58	96
60	101
65	98
66	124
68	83
69	85
70	125
71	95
72	118
75	106
76	107
82	122
84	123
86	89
91	128
99	105
120	127

Table 5. Functional Self Test (FST-TJ6) Test Plug Wiring List

From	To
1	121
1	16
2	24
3	97
4	39
5	33
6	86
7	99
8	56
9	57
15	78
17	112
18	113
20	108
21	94
22	88
23	89
25	52
26	91
27	67
28	50
29	46
30	47
31	48
32	49

Table 5. Functional Self Test (FST-TJ6) Test Plug Wiring List (continued)

From	To
34	90
35	51
36	58
37	61
38	111
40	62
41	68
42	96
43	Backshell
44	85
45	119
53	128
54	117
60	118
70	93
71	100
72	101
76	127
81	92
83	84
87	116
95	J1
98	Backshell
122	125
124	126

**Table 6. Functional Self Test
(FST-TJ7-1) Test Plug Wiring List**

From	To
2	84
3	91
4	80
5	12
6	89
7	25
8	37
9	59
10	21
11	22
14	27
18	81
20	88
24	31
29	82
30	83
32	113
33	114
34	115
35	111
36	112
38	39
38	66
40	41
40	64

**Table 6. Functional Self Test
(FST-TJ7-1) Test Plug Wiring List (continued)**

From	To
42	44
42	67
43	45
43	68
46	48
46	71
47	49
47	72
50	52
50	74
51	53
51	75
54	55
54	76
56	57
56	77
58	78
60	62
60	63
61	65
69	93
85	126
90	94
92	127
106	128

**Table 7. Functional Self Test
(FST-TJ7-2) Test Plug Wiring List**

From	To
1	20
7	28
8	18
8	21
8	123
9	122
10	19
11	118
12	120
13	90
14	121
15	88
16	89
17	79
17	106
22	93
26	128
32	108
33	107
35	110
36	109
63	97
63	101
65	95
65	99

**Table 7. Functional Self Test
(FST-TJ7-2) Test Plug Wiring List (continued)**

From	To
66	96
66	100
68	117
69	119
70	73
71	104
72	103
75	116
77	98
77	102
80	83
82	84
85	105
92	125

**Table 8. Functional Self Test
(FST-TJ8) Test Plug Wiring List**

From	To
3	102
4	21
5	16
6	17
7	18
8	19
11	119
12	122
15	98
20	73
22	80
23	108
26	72
27	75
28	74
29	104
30	105
32	89
33	90
34	91
35	92
36	93
37	94
38	95

**Table 8. Functional Self Test
(FST-TJ8) Test Plug Wiring List (continued)**

From	To
40	101
47	127
48	106
65	107
67	124
70	78
71	79
76	120
77	123
82	97
99	115
103	113
109	116
111	114
112	121

**Table 9. Functional Self Test
(FST-TJ9-1) Test Plug Wiring List**

From	To
3	30
4	14
8	31
9	15
13	62
14	4
15	9
16	64
21	32
33	57
37	60
38	61
39	63
44	45

**Table 10. Functional Self Test
(FST-TJ9-2) Test Plug Wiring List**

From	To
1	33
2	63
10	12
13	53
15	16
17	34
18	35
19	41
20	42
22	43
23	39
24	44
25	30
26	31
27	32
28	40
29	49
36	37
37	36
38	58
46	50
47	55
48	56
51	54
52	100

**Table 11. Functional Self Test
(FST-TJ10) Test Plug Wiring List**

From	To
A	AA
B	C
D	L
E	v
F	Z
G	s
H	q
T	b
Y	d
s	G
BB	HH

**Table 12. Functional Self Test
(FST-W86) Cable Wiring List**

From W86-P2 OIU UJ2	To W86-P1 MM J1
4	H
5	A
10	H
11	C
18	V
19	Y
20	X
21	W
22	Z
25	P
26	D
27	B
28	U
29	T
30	R
31	E
32	a
33	S

**Table 13. Functional Self Test
(FST-W87) Cable Wiring List**

From W87-P1 OIU TJ6	To W87-P2 OIU TJ4
P1-1	JUMPER
P1-19	
P1-7	JUMPER
P1-69	
P1-11	JUMPER
P1-31	
P1-12	JUMPER
P1-21	
P1-13	JUMPER
P1-22	
P1-14	JUMPER
P1-23	
P1-15	JUMPER
P1-78	
P1-16	P2-S
P1-17	JUMPER
P1-64	
P1-20	JUMPER
P1-46	
P1-114	JUMPER
P1-24	JUMPER
P1-79	
P1-25	JUMPER
P1-109	

**Table 13. Functional Self Test
(FST-W87) Cable Wiring List (continued)**

From W87-P1 OIU TJ6	To W87-P2 OIU TJ4
P1-26	JUMPER
P1-107	
P1-27	JUMPER
P1-105	
P1-28	JUMPER
P1-118	
P1-29	P2-R
P1-30	P2-G
P1-32	P2-A
P1-33	P2-h
P1-34	P2-x
P1-35	JUMPER
P1-115	
P1-36	P2-t
P1-37	P2-f
P1-38	P2-z
P1-39	P2-p
P1-40	P2-DD
P1-41	JUMPER
P1-120	
P1-42	P2-r
P1-43	P2-FF
P1-44	P2-BB
P1-45	P2-m

Table 13. Functional Self Test
(FST-W87) Cable Wiring List (continued)

From W87-P1 OIU TJ6	To W87-P2 OIU TJ4
P1-55	{ JUMPER
P1-124	
P1-56	{ JUMPER
P1-66	
P1-57	{ JUMPER
P1-117	
P1-59	{ JUMPER
P1-61	
P1-62	{ JUMPER
P1-80	
P1-63	{ JUMPER
P1-128	
P1-65	{ JUMPER
P1-112	
P1-68	P2-T
P1-73	{ JUMPER
P1-74	
P1-76	
P1-75	{ JUMPER
P1-95	
P1-116	
P1-77	P2-A
P1-82	{ JUMPER
P1-127	

Table 13. Functional Self Test
(FST-W87) Cable Wiring List (continued)

From W87-P1 OIU TJ6	To W87-P2 OIU TJ4
P1-84	P2-i
P1-85	P2-n
P1-86	P2-q
P1-91	P2-y
P1-92	P2-C
P1-96	P2-E
P1-97	P2-AA
P1-98	P2-CC
P1-99	P2-EE
P1-100	P2-GG
P1-101	P2-g
P1-110	{ JUMPER
P1-122	
JUMPER	} P2-A
JUMPER	
JUMPER	} P2-LL
JUMPER	
JUMPER	} P2-U
JUMPER	
JUMPER	} P2-B
JUMPER	
JUMPER	} P2-F
JUMPER	
JUMPER	} P2-D
JUMPER	
JUMPER	} P2-NN
JUMPER	
JUMPER	} P2-G
JUMPER	
JUMPER	} P2-MM
JUMPER	
JUMPER	} P2-L
JUMPER	

**Table 13. Functional Self Test
(FST-W87) Cable Wiring List (continued)**

From W87-P1 OIU TJ6	To W87-P2 OIU TJ4
JUMPER }	P2-b
JUMPER }	P2-M
JUMPER }	P2-Y
JUMPER }	P2-N
JUMPER }	P2-s
JUMPER }	P2-V
JUMPER }	P2-a
JUMPER }	P2-W
JUMPER }	P2-HH
JUMPER }	P2-X

**Table 14. Functional Self Test
(FST-W88) Cable Wiring List**

From W88-P1 OIU TJ10	To W88-P2 OIU TJ8
P1-B	P2-5
P1-C	P2-68
P1-D	{ JUMPER
P1-X	{ JUMPER
P1-E	{ JUMPER
P1-K	{ JUMPER
P1-F	{ JUMPER
P1-G	{ JUMPER
P1-H	{ JUMPER
P1-j	{ JUMPER
P1-J	P2-20
P1-M	P2-85
P1-N	P2-66
P1-R	P2-86
P1-S	P2-83
P1-U	P2-41
P1-V	P2-42
P1-W	P2-43
P1-Z	P2-96
P1-Z	{ JUMPER
P1-q	{ JUMPER
P1-Z	{ JUMPER
P1-s	{ JUMPER

**Table 14. Functional Self Test
(FST-W88) Cable Wiring List (continued)**

From W88-P1 OIU TJ10	To W88-P2 OIU TJ8
P1-Z	JUMPER
P1-v	JUMPER
P1-a	P2-108
P1-c	P2-82
P1-d	P2-70
P1-e	P2-78
P1-f	P2-13
P1-g	P2-55
P1-h	P2-44
P1-i	JUMPER
P1-KK	JUMPER
P1-k	P2-33
P1-m	P2-15
P1-n	P2-16
P1-p	P2-17
P1-r	P2-75
P1-t	P2-115
P1-u	P2-54
P1-w	P2-80
P1-x	P2-32
P1-y	P2-21
P1-CC	P2-69
P1-DD	P2-116

**Table 14. Functional Self Test
(FST-W88) Cable Wiring List (continued)**

From W88-P1 OIU TJ10	To W88-P2 OIU TJ8
P1-EE	P2-22
P1-FF	P2-25
P1-GG	P2-24
P1-JJ	P2-23
P1-LL	P2-77
P1-MM	P2-26
P1-NN	P2-28
P1-PP	P2-27
JUMPER	P2-2
JUMPER	P2-11
JUMPER	P24
JUMPER	P2-3
JUMPER	P2-6
JUMPER	P2-19
JUMPER	P2-9
JUMPER	P2-95
JUMPER	P2-10
JUMPER	P2-93
JUMPER	P2-12
JUMPER	P2-87
JUMPER	P2-14
JUMPER	P2-49

**Table 14. Functional Self Test
(FST-W88) Cable Wiring List (continued)**

From W88-P1 OIU TJ10	To W88-P2 OIU TJ8
JUMPER }	P2-18
JUMPER }	P2-88
JUMPER }	P2-29
JUMPER }	P2-125
JUMPER }	P2-30
JUMPER }	P2-126
JUMPER }	P2-31
JUMPER }	P2-52
JUMPER }	P2-34
JUMPER }	P2-111
JUMPER }	P2-35
JUMPER }	P2-100
JUMPER }	P2-36
JUMPER }	P2-118
JUMPER }	P2-37
JUMPER }	P2-127
JUMPER }	P2-39
JUMPER }	P2-51
JUMPER }	P2-40
JUMPER }	P2-50
JUMPER }	P2-45
JUMPER }	P2-117
JUMPER }	P2-46
JUMPER }	P2-64

**Table 14. Functional Self Test
(FST-W88) Cable Wiring List (continued)**

From W88-P1 OIU TJ10	To W88-P2 OIU TJ8
JUMPER }	P2-53
JUMPER }	P2-128
JUMPER }	P2-56
JUMPER }	P2-57
JUMPER }	P2-58
JUMPER }	P2-59
JUMPER }	P2-60
JUMPER }	P2-61
JUMPER }	P2-62
JUMPER }	P2-63
JUMPER }	P2-67
JUMPER }	P2-81
JUMPER }	P2-76
JUMPER }	P2-84
JUMPER }	P2-110
JUMPER }	P2-112

OIU WIRING LISTS - PART ONE (TEST CONNECTORS)

0035 00

Table 1. OIU Connector Wiring List

NOTE

Wire description terms used in the "Remarks" column are defined in the List of Abbreviations (WP 0001 00-2).
Table 1 continues in all five OIU Wiring List Work Packages.

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-A	-	429	P48-42	A20-65	-
TJ4-B	-	1107	P100-1	-	-
*R8-1	-	* 16	J97-17	-	Load Plate WP 0004 00, Fig. 3
J100-1	-	* 73	*R8-1	-	Load Plate WP 0004 00, Fig. 3
P93-21	-	980	TJ5-26	-	-
P93-22	-	519	P58-16	A25-16	-
P93-43	-	1025	P54-19	A23-19	-
P97-17	-	1026	P93-44	-	-
TJ4-C	-	1501	P112-12	A38-12	-
TJ4-D	-	1108	P100-2	-	-
* R9-2	-	* 17	J97-18	-	Load Plate WP 0004 00, Fig. 3
J100-2	-	* 74	*R9-2	-	Load Plate WP 0004 00, Fig. 3
P91-13	-	873	TJ5-27	-	-
P91-14	-	539	P58-38	A25-61	-
P97-18	-	1027	P91-35	-	-
TJ4-E	-	1502	P112-18	A38-18	-
TJ4-F	-	1356	P67-11	A30-87	-
TJ4-G	-	165	P39-13	A12-40	-
TJ4-H	-	39	TB1-1C	-	TW7-2 LRU Power WP 0004 00, Fig. 2
C1-1	-	15	K1-A1	-	-
C2-1	-	16	KI-A1	-	-
J98-23	-	* 47	Q1-2	-	Load Plate WP 0004 00, Fig. 3
J98-7	-	* 31	Q1-2	-	Load Plate WP 0004 00, Fig. 3
P52-9	A22-9	483	P63-7	A28-45	-
P99-4	-	1178	P56-9	A24-9	-
Q1-2	-	* 53	J99-4	-	Load Plate WP 0004 00, Fig. 3
TB1-1A	-	1596	C1-2	-	TW74-2 LRU Power WP 0004 00, Fig. 2
TB1-1B	-	1597	C2-2	-	TW75-2 LRU Power WP 0004 00, Fig. 2
TB1-ID	-	40	TJ4-K	-	TW8-2 LRU Power WP 0004 00, Fig. 2
TB1-1E	-	41	TB1-2A	-	LRU Power WP 0004 00, Fig. 2

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-H (continued)					
TB1-1F	-	42	TB1-2B	-	LRU Power WP 0004 00, Fig. 2
TB1-1G	-	43	TB1-6D	-	LRU Power WP 0004 00, Fig. 2
TB1-1H	-	44	TB1-6E	-	LRU Power WP 0004 00, Fig. 2
TB1-2D	-	80	TJ5-110	-	TW9-2 LRU Power WP 0004 00, Fig. 2
TB1-2E	-	81	TJ5-112	-	TW10-2 LRU Power WP 0004 00, Fig. 2
TB1-2H	-	82	TJ6-8	-	TW11-2 LRU Power WP 0004 00, Fig. 2
TB1-2J	-	83	TJ6-2	-	TW12-2 LRU Power WP 0004 00, Fig. 2
TB1-2K	-	140	P52-31	A22-54	LRU Power WP 0004 00, Fig. 2
TB1-6A	-	91	TJ7-5	-	TW13-2 LRU Power WP 0004 00, Fig. 2
TB1-6B	-	1402	P98-7	-	LRU Power WP 0004 00, Fig. 2
TB1-6C	-	1403	P98-23	-	LRU Power WP 0004 00, Fig. 2
TB1-6F	-	92	TJ8-122	-	TW14-2 LRU Power WP 0004 00, Fig. 2
TB1-6G	-	143	TJ8-119	-	TW15-2 LRU Power WP 0004 00, Fig. 2
TB1-6H	-	1447	TJ9-3	-	TW69-2 LRU Power WP 0004 00, Fig. 2
TB1-6J	-	1449	TJ9-8	-	TW70-2 LRU Power WP 0004 00, Fig. 2
TJ4-J	-	45	TB1-5J	-	TW7-2 (24V RTN) WP 0004 00, Fig. 2
*R20-2	-	95	* R21-2	-	Load Plate WP 0004 00, Fig. 3
C3-1	-	10	PCM-OUT(-)	-	PCM OUTPUT (24V RTN) WP 0004 00, Fig. 2
C4-1	-	11	TB3-1C	-	(24V RTN) WP 0004 00, Fig. 2
C5-1	-	28	TB2-6F	-	(5V RTN) WP 0004 00, Fig. 2
C7-2	-	1602	TB2-9B	-	(24V RTN) WP 0004 00, Fig. 2
J99-22	-	*69	*R20-2	-	Load Plate WP 0004 00, Fig. 3
K2-A2	-	29	K2-B2	-	-
K2-A3	-	1217	K2-X2	-	-
K2-B2	-	1603	C5-2	-	-
P113-7	A38-45	1559	P112-2	A38-2	-
P52-25	A22-48	156	TJ7-127	-	TW38-2
P52-26	A22-49	158	TJ5-103	-	TW44-2
P52-4	A22-4	305	P42-14	A15-41	-
P56-28	A24-51	1250	DR20-10	-	-
P89-19	-	69	TJ7-29	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-J (continued)					
P89-20	-	916	P89-21	-	-
P89-22	-	917	TJ5-93	-	-
P89-42	-	918	TJ5-92	-	-
P89-43	-	919	TJ5-94	-	-
P89-44	-	920	TJ5-95	-	-
P95-10	-	115	TB2-6G	-	TW17-2 (5V RTN) WP 0004 00, Fig. 2
P95-12	-	101	TB2-2D	-	TW48-3 (15V RTN) WP 0004 00, Fig. 2
P95-18	-	118	TB2-6K	-	TW18-2 (5V RTN) WP 0004 00, Fig. 2
P95-2	-	100	TB2-2C	-	TW47-3 (15V RTN) WP 0004 00, Fig. 2
PCM-OUT(-)	-	5	TB3-1A	-	PCM OUTPUT (24V RTN) WP 0004 00, Fig. 2
TB1-10G	-	1556	P107-12	A35-88	TW71-2 (24V RTN) WP 0004 00, Fig. 2
TB1-10H	-	1558	P109-12	A36-88	TW72-2 (24V RTN) WP 0004 00, Fig. 2
TB1-10J	-	1561	P113-14	A38-90	TW73-2 (24V RTN) WP 0004 00, Fig. 2
TB1-3A	-	25	C6-1	-	(24V RTN) WP 0004 00, Fig. 2
TB1-3B	-	26	C7-1	-	(24V RTN) WP 0004 00, Fig. 2
TB1-3C	-	1598	C3-2	-	TW75-2 (24V RTN) WP 0004 00, Fig. 2
TB1-3D	-	1599	C4-2	-	TW74-2 (24V RTN) WP 0004 00, Fig. 2
TB1-3E	-	47	TB1-4A	-	(24V RTN) WP 0004 00, Fig. 2
TB1-3F	-	48	TB1-4B	-	(24V RTN) WP 0004 00, Fig. 2
TB1-4C	-	1531	P112-9	A38-9	(24V RTN) WP 0004 00, Fig. 2
TB1-4D	-	84	TJ5-111	-	TW9-2 (24V RTN) WP 0004 00, Fig. 2
TB1-4E	-	1420	P99-22	-	(24V RTN) WP 0004 00, Fig. 2
TB1-4F	-	85	TJ6-3	-	TW12-2 (24V RTN) WP 0004 00, Fig. 2
TB1-4G	-	86	TJ5-113	-	TW10-2 (24V RTN) WP 0004 00, Fig. 2
TB1-4H	-	87	TJ6-9	-	TW11-2 (24V RTN) WP 0004 00, Fig. 2
TB1-4J	-	1446	TJ9-4	-	TW69-2 (24V RTN) WP 0004 00, Fig. 2
TB1-4K	-	1448	TJ9-9	-	TW70-2 (24V RTN) WP 0004 00, Fig. 2
TB1-5A	-	88	TJ7-6	-	TW13-2 (24V RTN) WP 0004 00, Fig. 2
TB1-5B	-	163	TJ7-3	-	(24V RTN) WP 0004 00, Fig. 2
TB1-5D	-	50	TB1-3H	-	(24V RTN) WP 0004 00, Fig. 2
TB1-5E	-	49	TB1-3G	-	(24V RTN) WP 0004 00, Fig. 2

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-J (continued)					
TB1-5F	-	89	TJ8-123	-	TW14-2 (24V RTN) WP 0004 00, Fig. 2
TB1-5G	-	90	TJ8-120	-	TW15-2 (24V RTN) WP 0004 00, Fig. 2
TB1-5H	-	1534	P112-28	A38-51	(24V RTN) WP 0004 00, Fig. 2
TB1-5K	-	46	TJ4-L	-	TW8-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8B	-	128	P40-35	A13-89	TW21-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8C	-	130	P41-35	A14-89	TW22-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8E	-	133	P47-12	A20-88	TW25-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8F	-	135	P49-12	A21-88	TW45-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8G	-	38	K2-A3	-	(24V RTN) WP 0004 00, Fig. 2
TB1-8H	-	138	P52-3	A22-3	TW26-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8J	-	145	P39-35	A12-89	TW26-2 (24V RTN) WP 0004 00, Fig. 2
TB1-8K	-	57	TB1-9K	-	(24V RTN) WP 0004 00, Fig. 2
TB1-9F	-	1400	P56-7	A24-7	TW57-2 (24V RTN) WP 0004 00, Fig. 2
TB1-9G	-	63	P70-13	A31-13	(24V RTN) WP 0004 00, Fig. 2
TB1-9H	-	79	P54-23	A23-46	TW60-2 (24V RTN) WP 0004 00, Fig. 2
TB1-9J	-	76	P42-20	A15-74	(24V RTN) WP 0004 00, Fig. 2
TB2-10G	-	1547	P103-7	-	TW64-2 (5V RTN) WP 0004 00, Fig. 2
TB2-10H	-	1549	P103-8	-	TW65-2 (5V RTN) WP 0004 00, Fig. 2
TB2-10J	-	1551	P103-16	-	TW66-2 (5V RTN) WP 0004 00, Fig. 2
TB2-10K	-	1628	P112-41	A38-64	(5V RTN) WP 0004 00, Fig. 2
TB2-2A	-	70	TJ8-96	-	(15V RTN) WP 0004 00, Fig. 2
TB2-2B	-	99	XDS1(+)	-	TW6-2 (15V RTN) WP 0004 00, Fig. 2
TB2-2E	-	36	PS1A2-6	-	TW37-3 (15V RTN) WP 0004 00, Fig. 2
TB2-2F	-	52	TB2-3A	-	(15V RTN) WP 0004 00, Fig. 2
TB2-2G	-	1064	P89-41	-	(15V RTN) WP 0004 00, Fig. 2
TB2-2H	-	141	P52-43	A22-66	TW49-3 (15V RTN) WP 0004 00, Fig. 2
TB2-2J	-	68	TJ7-125	-	(15V RTN) WP 0004 00, Fig. 2
TB2-2K	-	21	TB4-1A	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3B	-	102	TJ4-T	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3C	-	103	TJ5-114	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3D	-	104	TJ6-10	-	(15V RTN) WP 0004 00, Fig. 2

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-J (continued)					
TB2-3E	-	105	TJ7-4	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3F	-	106	TJ8-121	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3G	-	1258	DR26-4	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3H	-	1246	DR10-23	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3J	-	1451	TJ9-10	-	(15V RTN) WP 0004 00, Fig. 2
TB2-3K	-	139	TJ10-T	-	(15V RTN) WP 0004 00, Fig. 2
TB2-4E	-	4	PS1A1-4	-	TW2-2 (5V RTN) WP 0004 00, Fig. 2
TB2-4F	-	1545	TB2-10F	-	(5V RTN) WP 0004 00, Fig. 2
TB2-6A	-	1632	C9(-)E4	-	
TB2-6B	-	71	TJ6-6	-	(5V RTN) WP 0004 00, Fig. 2
TB2-6C	-	114	P95-20	-	TW20-2 (15V RTN) WP 0004 00, Fig. 2
TB2-6D	-	55	TB2-4G	-	(5V RTN) WP 0004 00, Fig. 2
TB2-6E	-	56	TB2-4H	-	(5V RTN) WP 0004 00, Fig. 2
TB2-6H	-	116	P95-19	-	TW19-2 (5V RTN) WP 0004 00, Fig. 2
TB2-6J	-	117	P95-9	-	TW16-2 (5V RTN) WP 0004 00, Fig. 2
TB2-9D	-	1268	P73-1	A33-39	TW67-2 (24V RTN) WP 0004 00, Fig. 2
TB2-9E	-	1554	TB1-10F	-	(24V RTN) WP 0004 00, Fig. 2
TB2-9G	-	160	P52-32	A22-55	(24V RTN) WP 0004 00, Fig. 2
TB2-9H	-	32	TB1-8A	-	(24V RTN) WP 0004 00, Fig. 2
TB3-1B	-	1593	E2	-	(24V RTN) WP 0004 00, Fig. 2
TB3-1D	-	18	FL1-LN-RTN	-	(24V RTN) WP 0004 00, Fig. 2
TB4-1B	-	1540	P103-4	-	TW62-3 (15V RTN) WP 0004 00, Fig. 2
TB4-1C	-	1543	P103-14	-	TW63-3 (15V RTN) WP 0004 00, Fig. 2
TB4-1D	-	1609	DR53-1	-	(15V RTN) WP 0004 00, Fig. 2
TJ4-K	-	-	-	-	See TJ4-H in this WP.
TJ4-L	-	-	-	-	See TJ4-J in this WP.
TJ4-M	-	879	P94-1	-	-
P48-23	A20-46	424	TJ6-4	-	-
P58-29	A25-52	402	P48-1	A20-1	-
P94-2	-	242	P40-6	A13-33	-
P94-23	-	511	P58-8	A25-8	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-N	-	880	P94-3	-	-
P48-24	A20-47	425	P91-34	-	-
P58-31	A25-54	403	P48-2	A20-2	-
P91-12	-	872	TJ5-46	-	-
P91-33	-	388	P46-4	A19-42	-
P94-24	-	243	P40-7	A13-34	-
P94-25	-	512	P58-9	A25-9	-
TJ4-P	-	295	P42-3	A15-30	-
P42-21	A15-75	310	P90-18	-	-
P89-17	-	986	TJ5-126	-	-
P90-17	-	856	TJ5-57	-	-
P90-39	-	861	TJ7-18	-	-
P90-40	-	988	P89-40	-	-
TJ4-R	-	296	P42-4	A15-31	-
*R19-1	-	* 84	*R6-2	-	Load Plate WP 0004 00, Fig. 3
J98-4	-	* 28	*R19-1	-	Load Plate WP 0004 00, Fig. 3
P42-22	A15-76	311	P90-20	-	-
P80-29	-	1071	P98-4	-	-
P80-8	-	1070	P66-22	A29-22	-
P90-19	-	858	TJ5-58	-	-
P90-41	-	862	TJ7-19	-	-
P90-42	-	1069	P80-7	-	-
TJ4-S	-	297	P42-5	A15-32	-
P42-23	A15-77	312	P90-22	-	-
P90-21	-	860	TJ5-59	-	-
P90-43	-	864	TJ7-20	-	-
P90-44	-	1011	P66-24	A29-47	-
TJ4-T	-	-	-	-	See TJ4-J in this WP.
TJ4-U	-	581	P60-24	A26-47	-
TJ4-V	-	453	P50-11	A21-11	-
P50-33	A21-56	463	P62-9	A27-9	-
P62-31	A27-54	637	TJ6-87	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-W	-	1357	P67-12	A30-88	-
TJ4-X	-	887	P94-13	-	TW40-2
P94-14	-	385	P45-35	A18-89	-
P94-35	-	523	P58-20	A25-20	-
P94-36	-	993	P72-15	A32-15	-
TJ4-Y	-	888	P94-15	-	TW40-2
P94-16	-	381	P45-31	A18-85	-
TJ4-Z	-	164	P39-8	A12-35	-
TJ4-a	-	890	P94-19	-	TW41-2
P94-20	-	383	P45-33	A18-87	-
P94-41	-	534	P58-33	A25-56	-
P94-42	-	994	P72-14	A32-14	-
TJ4-b	-	891	P94-21	-	TW41-2
P94-22	-	380	P45-29	A18-83	-
TJ4-c	-	152	P52-15	A22-15	TW50-3
P52-14	A22-14	1565	P112-38	A38-61	-
P52-35	A22-58	1572	P113-10	A38-86	-
TJ4-d	-	153	P52-17	A22-17	TW50-3
P52-16	A22-16	1063	TJ8-99	-	-
TJ4-e	-	154	P52-19	A22-19	TW50-3
P112-39	A38-62	1567	P112-32	A38-55	-
P113-6	A38-44	1573	TJ9-60	-	-
P52-18	A22-18	1566	P112-16	A38-16	-
P52-39	A22-62	1610	P113-12	A38-88	-
TJ4-f	-	1098	P70-40	A31-63	SH19-2
P70-18	A31-18	1086	TJ4-t	-	SH15-2, DR10-23
TJ4-g	-	1099	P69-12	A31-88	SH19-2
TJ4-h	-	1094	P80-39	-	SH31-1
P112-33	A38-56	1568	TJ8-127	-	SH114-1, DR52-1
P70-1	A31-1	1082	TJ4-x	-	SH13-2, DR10-23
P80-15	-	1134	P70-25	A31-48	SH30-1, DR16-5
P80-17	-	1611	P80-16	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-h (continued)					
P80-18	-	1569	P112-10	A38-10	SH115-1, DR16-5
P80-37	-	1135	TJ10-x	-	SH32-1, DR16-5
P80-38	-	1136	P66-44	A29-67	SH33-1, DR16-5
TJ4-i	-	1095	P69-10	A31-86	SH34-1
TJ4-j	-	1608	P112-43	A38-66	-
P112-21	A38-21	1607	TJ5-109	-	-
TJ4-k	-	1606	P112-20	A38-20	-
TJ4-m	-	1084	P70-22	A31-22	SH14-2
P70-8	A31-8	1096	TJ4-BB	-	SH10-2, DR10-23
TJ4-n	-	1085	P69-5	A31-43	SH14-2
TJ4-p	-	1078	P70-34	A31-57	SH11-2
P70-28	A31-51	1092	TJ4-z	-	SH18-2, DR10-23
TJ4-q	-	1079	P69-2	A3140	SH11-2
TJ4-r	-	1080	P70-44	A31-67	SH12-2
P70-27	A31-50	1088	TJ4-FF	-	SH16-2, DR10-23
TJ4-s	-	1081	P69-3	A31-41	SH12-2
TJ4-t	-	-	-	-	See TJ4-f in this WP.
TJ4-u	-	1087	P69-6	A31-44	SH15-2
TJ4-x	-	-	-	-	See TJ4-h in this WP.
TJ4-y	-	1083	P69-4	A31-42	SH13-2
TJ4-z	-	-	-	-	See TJ4-p in this WP.
TJ4-AA	-	1093	P69-9	A31-85	SH18-2
TJ4-BB	-	-	-	-	See TJ4-m in this WP.
TJ4-CC	-	1097	P69-11	A31-87	SH10-2
TJ4-DD	-	1090	P70-29	A31-52	SH17-2
P70-33	A31-56	1152	P83-7	-	SH50-1, DR10-23
P83-29	-	1153	P65-3	A29-41	SH51-1, DR12-3
P83-8	-	1100	TJ6-120	-	SH49-1, DR12-3
TJ4-EE	-	1091	P69-8	A31-84	SH17-2
TJ4-FF	-	-	-	-	See TJ4-r in this WP.
TJ4-GG	-	1089	P69-7	A31-45	SH16-2

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ4-HH	-	531	P58-28	A25-51	-
TJ4-JJ	-	1124	P54-18	A23-18	SH77-1
TJ4-KK	-	1225	P54-9	A23-9	SH78-1
TJ4-LL	-	469	P51-1	A22-39	-
TJ4-MM	-	942	P51-7	A22-45	-
TJ4-NN	-	146	P75-12	-	TW39-2
J97-6	-	* 6	*R3-1	-	Load Plate WP 0004 00, Fig. 3
P75-33	-	913	P66-7	A29-7	-
P75-34	-	147	P97-6	-	-
TJ4-PP	-	161	P75-21	-	TW39-2
J97-19	-	*18	*R3-2	-	Load Plate WP 0004 00, Fig. 3
P75-22	-	910	P63-11	A28-87	-
P75-43	-	148	P97-19	-	-
TJ5-1	-	430	P48-43	A20-66	-
TJ5-2	-	1564	P112-8	A38-8	-
TJ5-3	-	900	P45-36	A18-90	-
TJ5-4	-	258	P40-26	A13-80	-
TJ5-5	-	881	P94-4	-	-
P94-26	-	892	TJ6-46	-	-
P94-5	-	503	P57-13	A25-89	-
TJ5-6	-	882	P94-6	-	-
P94-27	-	502	P57-12	A25-88	-
P94-28	-	893	TJ6-47	-	-
TJ5-7	-	883	P94-7	-	-
P94-29	-	894	TJ6-48	-	-
P94-8	-	498	P57-7	A25-45	-
TJ5-8	-	884	P94-9	-	-
P94-30	-	497	P57-6	A25-44	-
P94-31	-	915	TJ6-49	-	-
TJ5-9	-	885	P94-10	-	-
P94-11	-	496	P57-5	A25-43	-
P94-32	-	478	TJ6-50	-	-

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-10	-	886	P94-12	-	-
P94-33	-	495	P57-4	A25-42	-
P94-34	-	488	TJ6-51	-	-
TJ5-11	-	967	P93-1	-	-
P93-2	-	501	P57-10	A25-86	-
P93-23	-	981	TJ6-52	-	-
TJ5-12	-	968	P93-3	-	-
P93-24	-	500	P57-9	A25-85	-
P93-25	-	982	TJ6-53	-	-
TJ5-13	-	969	P93-4	-	-
P93-26	-	983	TJ6-54	-	-
P93-5	-	494	P57-3	A25-41	-
TJ5-14	-	970	P93-6	-	-
P93-27	-	493	P57-2	A25-40	-
P93-28	-	878	TJ6-55	-	-
TJ5-15	-	971	P93-7	-	-
P93-29	-	1016	P53-11	A23-87	-
P93-8	-	492	P57-1	A25-39	-
TJ5-16	-	972	P93-9	-	-
P93-30	-	499	P57-8	A25-84	-
P93-31	-	1017	P53-12	A23-88	-
TJ5-17	-	973	P93-10	-	-
P93-11	-	538	P58-37	A25-60	-
P93-32	-	1018	P53-13	A23-89	-
TJ5-18	-	974	P93-12	-	-
*R11-2	-	*102	L5-1	-	Load Plate WP 0004 00, Fig. 3
J97-23	-	* 22	*R11-2	-	Load Plate WP 0004 00, Fig. 3
L5-1	-	* 37	J98-13	-	Load Plate WP 0004 00, Fig. 3
P54-21	A23-21	1062	P97-23	-	-
P54-44	A23-67	1061	TJ5-108	-	-
P85-14	-	306	P42-15	A15-42	-
P85-35	-	808	TJ7-24	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-18 (continued)					
P85-36	-	857	TJ8-74	-	-
P93-33	-	543	P58-44	A25-67	-
P93-34	-	1019	P54-43	A23-66	-
P98-13	-	1068	P85-13	-	-
TJ5-19	-	870	P91-9	-	-
J97-1	-	* 1	*R4-1	-	Load Plate WP 0004 00, Fig. 3
P91-30	-	487	P58-42	A25-65	-
P91-31	-	1058	P97-1	-	-
TJ5-20	-	866	P91-3	-	-
P91-24	-	524	P58-21	A25-21	-
P91-25	-	1020	P54-29	A23-52	-
TJ5-21	-	867	P91-4	-	-
P91-26	-	1021	P53-1	A23-39	-
P91-5	-	542	P58-43	A25-66	-
TJ5-22	-	975	P93-13	-	-
*R12-2	-	* 82	L1-1	-	Load Plate WP 0004 00, Fig. 3
J97-24	-	* 23	*R12-2	-	Load Plate WP 0004 00, Fig. 3
L1-1	-	* 33	J98-9	-	Load Plate WP 0004 00, Fig. 3
P42-24	A 15-78	899	TJ7-28	-	-
P48-26	A20-49	1022	P54-42	A23-65	-
P54-41	A23-64	1023	P97-24	-	-
P81-5	-	202	P35-35	A8-89	-
P93-14	-	525	P58-22	A25-22	-
P93-35	-	298	P42-6	A15-33	-
P93-36	-	405	P48-4	A20-4	-
P98-9	-	1115	P81-4	-	-
TJ5-23	-	976	P93-15	-	-
P42-25	A15-79	313	TJ7-27	-	-
P93-16	-	486	P58-41	A25-64	-
P93-37	-	299	P42-7	A15-34	-
P93-38	-	406	P48-5	A20-5	-

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-24	-	977	P93-17	-	-
*R4-2	-	*100	*R5-1	-	Load Plate WP 0004 00, Fig. 3
J97-14	-	* 14	*R4-2	-	Load Plate WP 0004 00, Fig. 3
P42-26	A15-80	314	TJ7-25	-	-
P93-18	-	522	P58-19	A25-19	-
P93-39	-	300	P42-8	A15-35	-
P93-40	-	407	P48-6	A20-6	-
TJ5-25	-	978	P93-19	-	-
*R17-2	-	* 81	*R18-1	-	Load Plate WP 0004 00, Fig. 3
*R8-2	-	* 70	J99-23	-	Load Plate WP 0004 00, Fig. 3
*R8-2	-	* 79	*R9-1	-	Load Plate WP 0004 00, Fig. 3
*R9-1	-	* 80	*R17-2	-	Load Plate WP 0004 00, Fig. 3
J97-5	-	* 5	*R8-2	-	Load Plate WP 0004 00, Fig. 3
P42-27	A15-81	315	TJ7-26	-	-
P48-29	A20-52	1024	P97-5	-	-
P93-20	-	518	P58-15	A25-15	-
P93-41	-	301	P42-9	A15-36	-
P93-42	-	408	P48-7	A20-7	-
P99-23	-	1427	TJ6-118	-	-
TJ5-26	-	-	-	-	See TJ4-B in this WP.
TJ5-27	-	-	-	-	See TJ4-D in this WP.
TJ5-28	-	874	P91-15	-	-
J97-3	-	* 3	* R6-1	-	Load Plate WP 0004 00, Fig. 3
P91-16	-	520	P58-17	A25-17	-
P91-37	-	1028	P54-1	A23-1	-
P91-38	-	1029	P97-3	-	-
TJ5-29	-	875	P91-17	-	-
P91-18	-	521	P58-18	A25-18	-
P91-39	-	1036	P54-33	A23-56	-
TJ5-30	-	876	P91-19	-	-
J98-15	-	* 39	*R15-2	-	Load Plate WP 0004 00, Fig. 3
P91-20	-	540	P58-39	A25-62	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-30 (continued)					
P91-41	-	1037	P98-15	-	-
TJ5-31	-	877	P91-21	-	-
P91-22	-	516	P58-13	A25-13	-
P91-43	-	1038	P53-14	A23-90	-
TJ5-32	-	854	P90-13	-	-
P90-14	-	536	P58-35	A25-58	-
P90-35	-	1039	P54-35	A23-58	-
P90-36	-	1040	P54-4	A23-4	-
TJ5-33	-	855	P90-15	-	-
*R13-2	-	* 83	L2-1	-	Load Plate WP 0004 00, Fig. 3
J97-25	-	* 24	*RI3-2	-	Load Plate WP 0004 00, Fig. 3
L2-1	-	* 34	J98-10	-	Load Plate WP 0004 00, Fig. 3
P81-24	-	192	P35-18	A8-45	-
P90-16	-	517	P58-14	A25-14	-
P90-37	-	1041	P54-5	A23-5	-
P90-38	-	1042	P97-25	-	-
P98-10	-	1111	P81-3	-	-
TJ5-34	-	868	P91-6	-	-
P91-27	-	244	P40-8	A13-35	-
P91-28	-	664	P64-10	A28-10	-
TJ5-35					
P91-29	-	683	P64-32	A28-55	-
P91-8	-	245	P40-9	A13-36	-
TJ5-36	-	865	P91-1	-	-
P91-2	-	246	P40-10	A13-37	-
P91-23	-	256	P40-24	A13-78	-
TJ5-37	-	846	P90-1	-	-
P90-2	-	247	P40-11	A13-38	-
P90-23	-	253	P40-19	A13-73	-
TJ5-38	-	847	P90-3	-	-
P90-24	-	248	P40-12	A13-39	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-38 (continued) P90-25	-	254	P40-20	A13-74	-
TJ5-39 P90-26	-	848 255	P90-4 P40-23	- A13-77	- -
P90-5	-	257	P40-25	A13-79	-
TJ5-40 P90-29	-	850 241	P90-7 P40-5	- A13-32	- -
P90-8	-	259	P40-27	A13-81	-
TJ5-41 P90-30	-	851 261	P90-9 P40-29	- A13-83	- -
P90-31	-	471	P66-1	A29-1	-
TJ5-42 P90-11	-	852 249	P90-10 P40-13	- A13-40	- -
P90-32	-	472	P66-2	A29-2	-
TJ5-43 P90-33	-	853 250	P90-12 P40-14	- A13-41	- -
P90-34	-	473	P66-3	A29-3	-
TJ5-44 P94-18	-	889 386	P94-17 P46-2	- A19-40	- -
P94-39	-	684	P64-33	A28-56	-
TJ5-45 P91-11	-	871 387	P91-10 P46-3	- A19-41	- -
P91-32	-	685	P64-34	A28-57	-
TJ5-46	-	-	-	-	See TJ4-N in this WP.
TJ5-47	-	262	P40-30	A13-84	-
TJ5-48	-	263	P40-31	A13-85	-
TJ5-49	-	264	P40-32	A13-86	-
TJ5-50	-	265	P40-33	A13-87	-
TJ5-51	-	267	P41-1	A14-28	-
TJ5-52	-	268	P41-2	A14-29	-
TJ5-53	-	269	P41-3	A14-30	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-54	-	394	P47-1	A20-39	-
P47-8	A20-84	401	TJ7-17	-	-
TJ5-55	-	395	P89-3	-	-
P89-24	-	376	P45-18	A18-45	-
P89-25	-	1116	P70-16	A31-16	-
TJ5-56	-	396	P89-4	-	-
P89-26	-	1117	P70-39	A31-62	-
P89-5	-	374	P45-16	A18-43	-
TJ5-57	-	-	-	-	See TJ4-P in this WP.
TJ5-58	-	-	-	-	See TJ4-R in this WP.
TJ5-59	-	-	-	-	See TJ4-S in this WP.
TJ5-60	-	839	P88-13	-	-
P42-30	A15-84	940	TJ8-72	-	-
P88-14	-	304	P42-12	A15-39	-
P88-35	-	844	TJ7-21	-	-
TJ5-61	-	840	P88-15	-	-
P88-16	-	309	P42-18	A15-45	-
P88-37	-	845	TJ7-22	-	-
P88-38	-	863	TJ8-75	-	-
TJ5-62	-	1532	P116-13	-	-
P116-14	-	1533	P112-6	A38-6	-
P116-35	-	948	P66-13	A29-13	-
P116-36	-	841	P88-17	-	-
P53-5	A23-43	1047	P84-26	-	-
P84-4	-	780	TJ5-118	-	-
P84-5	-	585	P60-29	A26-52	-
P88-18	-	421	P48-20	A20-20	-
P88-39	-	979	P53-7	A23-45	-
P88-40	-	952	TJ6-5	-	-
TJ5-63	-	842	P88-19	-	-
P88-20	-	1051	P66-14	A29-14	-
P88-41	-	1052	P54-15	A23-15	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-64	-	843	P88-21	-	-
J97-2	-	* 2	*R5-2	-	Load Plate WP 0004 00, Fig. 3
P88-22	-	1059	P97-2	-	-
P88-43	-	1060	P66-15	A29-15	-
TJ5-65	-	831	P88-1	-	-
P48-30	A20-53	559	P59-14	A26-90	-
P88-2	-	1530	P112-30	A38-53	-
P88-23	-	409	P48-8	A20-8	-
TJ5-66	-	832	P88-3	-	-
P88-24	-	592	P60-37	A26-60	-
P88-25	-	417	P48-16	A20-16	-
TJ5-67	-	833	P88-4	-	-
P88-26	-	416	P48-15	A20-15	-
P88-5	-	595	P60-40	A26-63	-
TJ5-68	-	834	P88-6	-	-
P88-27	-	584	P60-28	A26-51	-
P88-28	-	415	P48-14	A20-14	-
TJ5-69	-	835	P88-7	-	-
P88-29	-	414	P48-13	A20-13	-
P88-8	-	613	P61-14	A27-90	-
TJ5-70	-	836	P88-9	-	-
P88-30	-	642	P62-37	A27-60	-
P88-31	-	413	P48-12	A20-12	-
TJ5-71	-	837	P88-10	-	-
P88-11	-	645	P62-40	A27-63	-
P88-32	-	412	P48-11	A20-11	-
TJ5-72	-	838	P88-12	-	-
P88-33	-	635	P62-28	A27-51	-
P88-34	-	411	P48-10	A20-10	-
TJ5-73	-	813	P87-1	-	-
P87-2	-	654	P63-5	A28-43	-
P87-23	-	410	P48-9	A20-9	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-74	-	814	P87-3	-	-
P87-24	-	687	P64-37	A28-60	-
P87-25	-	418	P48-17	A20-17	-
TJ5-75	-	815	P87-4	-	-
P87-26	-	419	P48-18	A20-18	-
P87-5	-	690	P64-40	A28-63	-
TJ5-76	-	816	P87-6	-	-
P87-27	-	682	P64-28	A28-51	-
P87-28	-	420	P48-19	A20-19	-
TJ5-77	-	817	P87-7	-	-
P87-8	-	427	P48-40	A20-63	-
TJ5-78	-	818	P87-9	-	-
P87-30	-	465	P50-40	A21-63	-
TJ5-79	-	819	P87-10	-	-
P50-39	A21-62	464	TJ6-84	-	-
P87-11	-	537	P58-36	A25-59	-
P87-32	-	459	P50-17	A21-17	-
TJ5-80	-	820	P87-12	-	-
P49-8	A21-84	439	TJ6-85	-	-
P50-31	A21-54	432	P49-1	A21-39	-
P87-33	-	653	P63-4	A28-42	-
P87-34	-	451	P50-9	A21-9	-
TJ5-81	-	795	P85-1	-	-
P49-9	A21-85	440	TJ6-86	-	-
P50-32	A21-55	433	P49-2	A21-40	-
P85-2	-	515	P58-12	A25-12	-
P85-23	-	452	P50-10	A21-10	-
TJ5-82	-	796	P85-3	-	-
P85-24	-	371	P45-8	A18-35	-
P85-25	-	535	P58-34	A25-57	-
TJ5-83	-	797	P85-4	-	TW42-2
P85-5	-	379	P45-26	A18-80	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-84	-	798	P85-6	-	TW43-2
P85-27	-	369	P45-6	A18-33	-
P85-28	-	1014	P66-27	A29-50	-
TJ5-85	-	799	P85-7	-	TW43-2
P85-8	-	377	P45-24	A18-78	-
TJ5-86	-	328	P43-15	A16-42	-
TJ5-87	-	324	P43-29	A16-83	-
TJ5-88	-	322	P43-9	A16-36	-
TJ5-89	-	746	P79-38	-	-
P79-15	-	741	TJ7-64	-	-
P79-16	-	320	P43-7	A16-34	-
P79-37	-	636	P62-30	A27-53	-
TJ5-90	-	731	P78-28	-	-
P78-27	-	316	P43-3	A16-30	-
P78-6	-	721	TJ7-74	-	-
TJ5-91	-	800	P85-9	-	-
P85-30	-	317	P43-4	A16-31	-
P85-31	-	1450	TJ9-36	-	-
TJ5-92	-	-	-	-	See TJ4-J in this WP.
TJ5-93	-	-	-	-	See TJ4-J in this WP.
TJ5-94	-	-	-	-	See TJ4-J in this WP.
TJ5-95	-	-	-	-	See TJ4-J in this WP.
TJ5-96	-	801	P85-10	-	-
P85-11	-	513	P58-10	A25-10	-
P85-32	-	423	P48-22	A20-22	-
TJ5-97	-	802	P85-12	-	-
P85-33	-	514	P58-11	A25-11	-
P85-34	-	422	P48-21	A20-21	-
TJ5-98	-	778	P84-1	-	-
P74-10	A33-10	1620	P83-16	-	SH127-2, DR37-1
P83-15	-	1619	TJ9-98	-	SH125-2, DR59-3
P83-38	-	1284	TJ10-N	-	SH90-2, DR59-3

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-98 (continued)					
P84-2	-	533	P58-32	A25-55	-
P84-23	-	1287	P74-11	A33-11	-
TJ5-99	-	779	P84-3	-	-
P84-24	-	541	P58-40	A25-63	-
P84-25	-	460	P50-18	A21-18	-
TJ5-100	-	1049	P54-30	A23-53	-
TJ5-101	-	1050	P54-28	A23-51	-
TJ5-102	-	157	P52-34	A22-57	TW44-2
P52-12	A22-12	155	TJ7-126	-	TW38-2
P52-13	A22-13	489	P46-7	A19-45	TW51-2
P86-20	-	908	P52-33	A22-56	-
P86-19	-	1562	P63-6	A28-44	-
P86-41	-	1563	P112-29	A38-52	-
TJ5-103	-	-	-	-	See TJ4-J in this WP.
TJ5-104	-	1043	P53-2	A23-40	-
P53-9	A23-85	1044	TJ5-105	-	-
TJ5-105	-	-	-	-	See TJ5-104 in this WP.
TJ5-106	-	1045	P53-10	A23-86	-
TJ5-107	-	1046	P53-6	A23-44	-
TJ5-108	-	-	-	-	See TJ5-18 in this WP.
TJ5-109	-	-	-	-	See TJ4-j in this WP.
TJ5-110	-	-	-	-	See TJ4-H in this WP.
TJ5-111	-	-	-	-	See TJ4-J in this WP.
TJ5-112	-	-	-	-	See TJ4-H in this WP.
TJ5-113	-	-	-	-	See TJ4-J in this WP.
TJ5-114	-	-	-	-	See TJ4-J in this WP.
TJ5-115	-	1590	P116-11	-	-
P112-25	A38-48	1589	P39-10	A12-37	-
P116-10	-	1493	P112-3	A38-3	-
P116-32	-	1495	P66-28	A29-51	-
TJ5-116	-	62	P89-15	-	-
P89-16	-	122	P40-4	A13-31	-
P89-37	-	61	P97-22	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ5-117	-	1494	P77-31	-	-
P77-9	-	252	P40-16	A13-43	-
TJ5-118	-	-	-	-	See TJ5-62 in this WP.
TJ5-119	-	590	P60-35	A26-58	-
TJ5-120	-	591	P60-36	A26-59	-
TJ5-121	-	593	P60-38	A26-61	-
TJ5-122	-	594	P60-39	A26-62	-
TJ5-123	-	597	P60-42	A26-65	-
TJ5-124	-	1303	P74-43	A33-66	-
P74-21	A33-21	1288	P74-31	A33-54	-
TJ5-125	-	849	P90-6	-	-
P90-27	-	1048	P54-3	A23-3	-
P90-28	-	663	P64-9	A28-9	-
TJ5-126	-	-	-	-	See TJ4-P in this WP.
TJ5-127	-	1344	P100-3	-	-
J100-3	-	*105	J100-4	-	Load Plate WP 0004 00, Fig. 3
P100-4	-	1343	P86-22	-	-
P74-27	A33-50	1301	P74-40	A33-63	-
P86-21	-	1282	P74-6	A33-6	-
P86-43	-	1345	P106-4	A35-4	Note: Also check P37-9.
P86-44	-	1346	P67-5	A30-43	-
TJ5-128	-	506	P58-3	A25-3	-
TJ6-1	-	466	P50-42	A21-65	-
TJ6-2	-	-	-	-	See TJ4-H in this WP.
TJ6-3	-	-	-	-	See TJ4-J in this WP.
TJ6-4	-	-	-	-	See TJ4-M in this WP.
TJ6-5	-	-	-	-	See TJ5-62 in this WP.
TJ6-6	-	-	-	-	See TJ4-J in this WP.
TJ6-7	-	59	P89-33	-	-
P89-10	-	990	P62-5	A27-5	-
P89-11	-	991	TJ7-106	-	-
P89-12	-	989	P89-32	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-7 (continued) P89-34	-	159	P52-10	A22-10	-
TJ6-8	-	-	-	-	See TJ4-H in this WP.
TJ6-9	-	-	-	-	See TJ4-J in this WP.
TJ6-10	-	-	-	-	See TJ4-J in this WP.
TJ6-11	-	984	P70-10	A31-10	TW52-2
TJ6-12 P80-14 P80-35	- - -	201 1012 1013	P80-13 P45-5 P53-4	- A18-32 A23-42	- - -
TJ6-13	-	200	P45-4	A18-31	-
TJ6-14	-	199	P45-3	A18-30	-
TJ6-15 J99-11 P78-2 P78-23	- - - -	718 * 58 715 907	P78-1 *R32-1 P66-11 P99-11	- - A29-11 -	- Load Plate WP 0004 00, Fig. 3 - -
TJ6-16	-	510	P58-7	A25-7	-
TJ6-17 P84-27 P84-28	- - -	781 558 293	P84-6 P59-13 P39-1	- A26-89 A12-28	- - -
TJ6-18 P84-29 P84-8	- - -	782 431 599	P84-7 P39-2 P60-44	- A12-29 A26-67	- - -
TJ6-19 P84-30 P84-31	- - -	783 575 437	P84-9 P60-18 P39-3	- A26-18 A12-30	- - -
TJ6-20 P84-11 P84-32	- - -	784 566 1348	P84-10 P60-7 P74-23	- A26-7 A33-46	SH108-1 SH121-1, DR49-3 SH106-1, DR9-3
TJ6-21 P84-33	- -	785 612	P84-12 P61-13	- A27-89	- -
TJ6-22	-	529	P58-26	A25-49	-
TJ6-23	-	508	P58-5	A25-5	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-24	-	530	P58-27	A25-50	-
TJ6-25	-	509	P58-6	A25-6	-
TJ6-26	-	528	P58-25	A25-48	-
TJ6-27	-	507	P58-4	A25-4	-
TJ6-28	-	504	P58-1	A25-1	-
TJ6-29	-	526	P58-23	A25-46	-
TJ6-30	-	505	P58-2	A25-2	-
TJ6-31	-	527	P58-24	A25-47	-
TJ6-32	-	532	P58-30	A25-53	-
TJ6-33	-	556	P59-12	A26-88	-
TJ6-34	-	554	P59-11	A26-87	-
TJ6-35	-	553	P59-10	A26-86	-
TJ6-36	-	552	P59-9	A26-85	-
TJ6-37	-	551	P59-8	A26-84	-
TJ6-38	-	550	P59-7	A26-45	-
TJ6-39	-	549	P59-6	A26-44	-
TJ6-40	-	548	P59-5	A26-43	-
TJ6-41	-	547	P59-4	A26-42	-
TJ6-42	-	546	P59-3	A26-41	-
TJ6-43	-	545	P59-2	A26-40	-
TJ6-44	-	544	P59-1	A26-39	-
TJ6-45	-	560	P60-1	A26-1	-
TJ6-46	-	-	-	-	See TJ5-5 in this WP.
TJ6-47	-	-	-	-	See TJ5-6 in this WP.
TJ6-48	-	-	-	-	See TJ5-7 in this WP.
TJ6-49	-	-	-	-	See TJ5-8 in this WP.
TJ6-50	-	-	-	-	See TJ5-9 in this WP.
TJ6-51	-	-	-	-	See TJ5-10 in this WP.
TJ6-52	-	-	-	-	See TJ5-11 in this WP.
TJ6-53	-	-	-	-	See TJ5-12 in this WP.
TJ6-54	-	-	-	-	See TJ5-13 in this WP.
TJ6-55	-	-	-	-	See TJ5-14 in this WP.

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-56	-	764	P82-1	-	-
J99-3	-	* 52	*R24-1	-	Load Plate WP 0004 00, Fig. 3
P82-2	-	573	P60-16	A26-16	-
P82-23	-	964	P99-3	-	-
TJ6-57	-	765	P82-3	-	-
J99-16	-	* 63	*R24-2	-	Load Plate WP 0004 00, Fig. 3
P82-24	-	574	P60-17	A26-17	-
P82-25	-	992	P99-16	-	-
TJ6-58	-	1426	P82-4	-	TW55-3
J99-7	-	* 54	*R37-1	-	Load Plate WP 0004 00, Fig. 3
P82-26	-	1421	P99-7	-	TW54-3
P82-5	-	576	P60-19	A26-19	-
TJ6-59	-	767	P82-6	-	SH35-1
P70-5	A31-5	1221	P62-10	A27-10	-
P82-27	-	577	P60-20	A26-20	SH36-1, DR17-3
P82-28	-	1137	P70-6	A31-6	SH37-1, DR17-3
TJ6-60	-	768	P69-14	A31-90	SH29-1
TJ6-61	-	1425	P82-9	-	TW55-3
J99-1	-	* 50	*R22-1	-	Load Plate WP 0004 00, Fig. 3
P82-30	-	579	P60-22	A26-22	-
P82-31	-	1423	P99-1	-	TW54-3
TJ6-62	-	821	P87-13	-	-
P87-14	-	588	P60-33	A26-56	-
P87-35	-	289	P41-29	A14-83	-
P87-36	-	826	TJ8-48	-	-
TJ6-63	-	822	P87-15	-	-
P87-16	-	596	P60-41	A26-64	-
P87-37	-	270	P41-4	A14-31	-
P87-38	-	827	TJ8-49	-	-
TJ6-64	-	823	P87-17	-	-
P87-18	-	583	P60-27	A26-50	-
P87-39	-	272	P41-7	A14-34	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-64 (Continued)					
P87-40	-	828	TJ8-50	-	-
TJ6-65	-	824	P87-19	-	-
P87-20	-	582	P60-25	A26-48	-
P87-41	-	273	P41-8	A14-35	-
P87-42	-	829	TJ8-51	-	-
TJ6-66	-	706	P75-42	-	-
P75-19	-	704	TJ8-111	-	-
P75-20	-	290	P41-30	A14-84	-
P75-41	-	692	P64-42	A28-65	-
TJ6-67	-	905	P51-3	A22-41	-
P51-9	A22-85	392	P46-11	A19-87	-
TJ6-68	-	470	P51-2	A22-40	-
P51-8	A22-84	391	P46-10	A19-86	-
TJ6-69	-	283	P41-23	A14-77	-
TJ6-70	-	284	P41-24	A14-78	-
TJ6-71	-	906	P51-4	A22-42	-
TJ6-72	-	903	P51-10	A22-86	-
TJ6-73	-	400	P47-7	A20-45	-
TJ6-74	-	436	P49-5	A21-43	-
TJ6-75	-	208	P40-1	A13-28	-
TJ6-76	-	770	P82-10	-	-
P82-11	-	438	P49-7	A21-45	-
P82-32	-	777	TJ8-67	-	-
TJ6-77	-	937	P40-3	A13-30	-
TJ6-78	-	434	P49-3	A21-41	-
P49-10	A21-86	441	P60-26	A26-49	-
TJ6-79	-	914	P76-17	-	-
P76-18	-	898	P41-20	A14-74	-
P76-39	-	909	P60-9	A26-9	-
P76-40	-	468	TJ8-69	-	-
TJ6-80	-	804	P85-15	-	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-80 (continued)					
P85-37	-	390	P46-9	A19-85	-
P85-38	-	809	TJ8-110	-	-
TJ6-81	-	825	P87-21	-	-
J97-16	-	* 15	*R7-2	-	Load Plate WP 0004 00, Fig. 3
P42-29	A15-83	1072	P89-1	-	-
P87-22	-	303	P42-11	A15-38	-
P87-43	-	830	TJ7-23	-	-
P87-44	-	859	TJ8-73	-	-
P89-2	-	1073	P66-26	A29-49	-
P89-23	-	1074	P97-16	-	-
TJ6-82	-	803	P70-11	A31-11	TW52-2
TJ6-83	-	1424	P82-12	-	TW55-3
*R22-2	-	* 94	*R37-2	-	Load Plate WP 0004 00, Fig. 3
J99-14	-	* 61	*R22-2	-	Load Plate WP 0004 00, Fig. 3
P82-33	-	307	P42-16	A15-43	-
P82-34	-	1422	P99-14	-	TW54-3
TJ6-84	-	-	-	-	See TJ5-79 in this WP.
TJ6-85	-	-	-	-	See TJ5-80 in this WP.
TJ6-86	-	-	-	-	See TJ5-81 in this WP.
TJ6-87	-	-	-	-	See TJ4-V in this WP.
TJ6-88	-	805	P85-17	-	-
P85-18	-	461	P50-19	A21-19	-
P85-39	-	589	P60-34	A26-57	-
P85-40	-	810	TJ8-76	-	-
TJ6-89	-	806	P85-19	-	-
P85-20	-	454	P50-12	A21-12	-
P85-41	-	567	P60-10	A26-10	-
P85-42	-	811	TJ8-77	-	-
TJ6-90	-	807	P85-21	-	-
P85-22	-	455	P50-13	A21-13	-
P85-43	-	580	P60-23	A26-46	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-90 (continued)					
P85-44	-	812	TJ8-78	-	-
TJ6-91	-	786	P84-13	-	-
P84-14	-	456	P50-14	A21-14	-
P84-35	-	598	P60-43	A26-66	-
P84-36	-	791	TJ8-79	-	-
TJ6-92	-	787	P84-15	-	-
P84-16	-	457	P50-15	A21-15	-
P84-37	-	611	P61-12	A27-88	-
P84-38	-	792	TJ8-80	-	-
TJ6-93	-	788	P84-17	-	-
P84-18	-	445	P50-3	A21-3	-
P84-39	-	649	P62-44	A27-67	-
P84-40	-	793	TJ8-81	-	-
TJ6-94	-	789	P84-19	-	-
P84-20	-	458	P50-16	A21-16	-
P84-41	-	644	P62-39	A27-62	-
P84-42	-	794	TJ8-82	-	-
TJ6-95	-	790	P84-21	-	-
P75-4	-	696	TJ8-112	-	-
P75-5	-	266	P40-34	A13-88	-
P84-22	-	443	P50-1	A21-1	-
P84-43	-	633	P62-26	A27-49	-
P84-44	-	705	P75-26	-	-
TJ6-96	-	772	P82-13	-	-
P82-14	-	444	P50-2	A21-2	-
P82-35	-	652	P63-3	A28-41	-
P82-36	-	181	TJ8-115	-	-
TJ6-97	-	773	P82-15	-	-
P82-16	-	446	P50-4	A21-4	-
P82-37	-	693	P64-44	A28-67	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-98	-	774	P82-17	-	-
P82-18	-	447	P50-5	A21-5	-
P82-39	-	689	P64-39	A28-62	-
TJ6-99	-	775	P82-19	-	-
P82-20	-	448	P50-6	A21-6	-
P82-41	-	680	P64-26	A28-49	-
TJ6-100	-	776	P82-21	-	-
P82-22	-	449	P50-7	A21-7	-
P82-43	-	658	P64-4	A28-4	-
TJ6-101	-	747	P81-1	-	-
P81-2	-	450	P50-8	A21-8	-
P81-23	-	665	P64-11	A28-11	-
TJ6-102	-	193	P35-22	A8-76	-
P35-4	A8-31	180	P35-3	A8-30	-
TJ6-103	-	188	P35-13	A8-40	-
P35-12	A8-39	186	P35-11	A8-38	-
TJ6-104	-	198	P35-31	A8-85	-
P35-32	A8-86	189	P35-15	A8-42	-
TJ6-105	-	182	P35-6	A8-33	-
* R13-1	-	* 13	J97-13	-	Load Plate WP 0004 00, Fig. 3
J100-9	-	* 77	*R13-1	-	Load Plate WP 0004 00, Fig. 3
P35-5	A8-32	1110	P100-9	-	-
P35-7	A8-34	183	P35-16	A8-43	-
P97-13	-	1131	P54-22	A23-22	-
TJ6-106	-	184	P35-9	A8-36	-
P35-10	A8-37	185	P35-17	A8-44	-
TJ6-107	-	748	P98-24	-	-
J98-24	-	* 48	L2-2	-	Load Plate WP 0004 00, Fig. 3
TJ6-108	-	194	P35-25	A8-79	-
J100-8	-	*76	*R14-1	-	Load Plate WP 0004 00, Fig. 3
P35-24	A8-78	769	P100-8	-	-
P35-26	A8-80	195	P35-33	A8-87	-

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-108 (continued)					
P98-1	-	1130	P54-34	A23-57	-
TJ6-109	-	196	P35-28	A8-82	-
*R12-1	-	* 12	J97-12	-	Load Plate WP 0004 00, Fig. 3
J100-10	-	* 78	* R12-1	-	Load Plate WP 0004 00, Fig. 3
P35-27	A8-81	1224	P100-10	-	-
P35-29	A8-83	197	P35-34	A8-88	-
P97-12	-	1132	P54-36	A23-59	-
TJ6-110	-	749	P98-12	-	-
J98-12	-	* 36	L1-2	-	Load Plate WP 0004 00, Fig. 3
TJ6-111	-	750	P98-25	-	-
J98-25	-	* 49	L3-2	-	Load Plate WP 0004 00, Fig. 3
TJ6-112	-	751	P81-7	-	SH76-1
P81-29	-	610	P61-11	A27-87	SH74-1, DR23-3
P81-8	-	1123	P54-11	A23-11	SH75-1, DR23-3
TJ6-113	-	752	P81-9	-	SH72-1
P81-30	-	1222	P54-39	A23-62	SH73-1, DR22-3
P81-31	-	609	P61-10	A27-86	SH71-1, DR22-3
TJ6-114	-	753	P81-10	-	SH82-1
P81-11	-	1122	P70-7	A31-7	SH79-1, DR24-2
P81-32	-	608	P61-9	A27-85	-
TJ6-115	-	754	P81-12	-	SH42-1
P81-33	-	1143	P70-32	A31-55	SH44-1, DR21-3
P81-34	-	607	P61-8	A27-84	SH43-1, DR21-3
TJ6-116	-	732	P79-1	-	-
P79-23	-	606	P61-7	A27-45	-
TJ6-117	-	733	P79-3	-	-
P79-25	-	605	P61-6	A27-44	-
TJ6-118	-	-	-	-	See TJ5-25 in this WP.
TJ6-119	-	60	P97-9	-	-
J97-9	-	*9	*R16-1	-	Load Plate WP 0004 00, Fig. 3
TJ6-120	-	-	-	-	See TJ4-DD in this WP.

OIU WIRING LISTS - PART ONE (TEST CONNECTORS) - CONTINUED

0035 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ6-121	-	1101	P69-13	A31-89	SH60-1
TJ6-122	-	485	P66-29	A29-52	-
P66-8	A29-8	318	P50-22	A21-22	-
TJ6-123	-	734	P79-4	-	-
P79-5	-	897	P36-12	A9-39	-
TJ6-124	-	64	P76-36	-	-
J97-8	-	* 8	*R1-1	-	Load Plate WP 0004 00, Fig. 3
P76-13	-	167	TJ8-64	-	-
P76-14	-	681	P64-27	A28-50	-
P76-35	-	150	P97-8	-	-
TJ6-125	-	755	P81-13	-	-
P81-14	-	896	P36-11	A9-38	-
P81-35	-	308	P42-17	A15-44	-
TJ6-126	-	987	P69-1	A31-39	-
TJ6-127	-	557	P66-31	-	-
P66-9	A29-9	491	P50-41	A21-64	-
TJ6-128	-	568	P60-11	A26-11	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS)

0035 01

Table 1. OIU Connector Wiring List (Continued)

NOTE

Wire description terms used in the "Remarks" column are defined in the List of Abbreviations (WP 0001 00-2).
Table 1 continues in all five OIU Wiring List Work Packages.

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-1	-	467	P50-43	A21-66	-
TJ7-2	-	166	P97-20	-	-
J97-20	-	*19	*R2-2	-	Load Plate WP 0004 00, Fig. 3
TJ7-3	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-4	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-5	-	-	-	-	See TJ4-H in WP 0035 00.
TJ7-6	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-7	-	756	P81-15	-	-
P81-16	-	561	P60-2	A26-2	-
P81-37	-	760	TJ8-4	-	-
TJ7-8	-	757	P81-17	-	-
P81-18	-	562	P60-3	A26-3	-
P81-39	-	761	TJ8-5	-	-
TJ7-9	-	758	P81-19	-	-
P81-20	-	563	P60-4	A26-4	-
P81-41	-	762	TJ8-6	-	-
TJ7-10	-	759	P81-21	-	-
P81-22	-	564	P60-5	A26-5	-
P81-43	-	763	TJ8-7	-	-
TJ7-11	-	735	P79-6	-	-
P79-27	-	565	P60-6	A26-6	-
P79-28	-	745	TJ8-8	-	-
TJ7-12	-	736	P79-7	-	-
P79-8	-	569	P60-12	A26-12	-
TJ7-13	-	737	P79-9	-	-
P79-30	-	570	P60-13	A26-13	-
P79-31	-	1212	P70-14	A31-14	-
TJ7-14	-	738	P79-10	-	-
P79-11	-	571	P60-14	A26-14	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

0035 01

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-15	-	739	P79-12	-	-
J99-13	-	* 60	*R34-1	-	Load Plate WP 0004 00, Fig. 3
P79-33	-	572	P60-15	A26-15	-
P79-34	-	912	P99-13	-	-
TJ7-16	-	740	P79-13	-	-
J99-24	-	* 71	*R35-1	-	Load Plate WP 0004 00, Fig. 3
P79-14	-	587	P60-32	A26-55	-
P79-35	-	944	P99-24	-	-
TJ7-17	-	-	-	-	See TJ5-54 in WP 0035 00.
TJ7-18	-	-	-	-	See TJ4-P in WP 0035 00.
TJ7-19	-	-	-	-	See TJ4-R in WP 0035 00.
TJ7-20	-	-	-	-	See TJ4-S in WP 0035 00.
TJ7-21	-	-	-	-	See TJ5-60 in WP 0035 00.
TJ7-22	-	-	-	-	See TJ5-61 in WP 0035 00.
TJ7-23	-	-	-	-	See TJ6-81 in WP 0035 00.
TJ7-24	-	-	-	-	See TJ5-18 in WP 0035 00.
TJ7-25	-	-	-	-	See TJ5-24 in WP 0035 00.
TJ7-26	-	-	-	-	See TJ5-25 in WP 0035 00.
TJ7-27	-	-	-	-	See TJ5-23 in WP 0035 00.
TJ7-28	-	-	-	-	See TJ5-22 in WP 0035 00.
TJ7-29	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-30	-	719	P78-3	-	-
J99-12	-	* 59	*R33-1	-	Load Plate WP 0004 00, Fig. 3
P78-24	-	895	P66-12	A29-12	-
P78-25	-	911	P99-12	-	-
TJ7-31	-	720	P78-4	-	-
P78-26	-	586	P66-10	A29-10	-
P78-5	-	428	P48-41	A20-64	-
TJ7-32	-	209	P37-2	A10-29	-
TJ7-33	-	210	P37-3	A10-30	-
TJ7-34	-	211	P37-4	A10-31	-
TJ7-35	-	212	P37-5	A10-32	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-36	-	213	P37-6	A10-33	-
TJ7-37	-	233	P37-29	A10-83	-
TJ7-38	-	226	P37-22	A10-76	-
TJ7-39	-	227	P37-23	A10-77	-
TJ7-40	-	214	P37-10	A10-37	-
TJ7-41	-	215	P37-11	A10-38	-
TJ7-42	-	216	P37-12	A10-39	-
TJ7-43	-	217	P37-13	A10-40	-
TJ7-44	-	218	P37-14	A10-41	-
TJ7-45	-	219	P37-15	A10-42	-
TJ7-46	-	220	P37-16	A10-43	-
TJ7-47	-	221	P37-17	A10-44	-
TJ7-48	-	222	P37-18	A10-45	-
TJ7-49	-	229	P37-25	A10-79	-
TJ7-50	-	230	P37-26	A10-80	-
TJ7-51	-	231	P37-27	A10-81	-
TJ7-52	-	232	P37-28	A10-82	-
TJ7-53	-	234	P37-30	A10-84	-
TJ7-54	-	235	P37-31	A10-85	-
TJ7-55	-	236	P37-32	A10-86	-
TJ7-56	-	237	P37-33	A10-87	-
TJ7-57	-	238	P37-34	A10-88	-
TJ7-58	-	239	P37-35	A10-89	-
TJ7-59	-	228	P37-24	A10-78	-
TJ7-60	-	223	P37-19	A10-73	-
TJ7-61	-	224	P37-20	A10-74	-
TJ7-62	-	225	P37-21	A10-75	-
TJ7-63	-	319	P43-6	A16-33	-
TJ7-64	-	-	-	-	See TJ5-89 in WP 0035 00.
TJ7-65	-	321	P43-8	A16-35	-
TJ7-66	-	323	P43-28	A16-82	-
TJ7-67	-	742	P79-17	-	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-67 (continued)					
P79-18	-	325	P43-12	A16-39	-
P79-39	-	602	P61-3	A27-41	-
P79-40	-	397	TJ8-100	-	-
TJ7-68	-	326	P43-33	A16-87	-
TJ7-69	-	1510	P77-21	-	-
P108-38	A36-61	1513	P109-5	A36-43	-
P77-22	-	1511	TJ9-45	-	-
P77-43	-	1461	P68-39	A30-62	-
P77-44	-	1512	P108-16	A36-16	-
TJ7-70	-	743	P79-19	-	-
P79-20	-	329	P43-16	A16-43	-
P79-41	-	604	P61-5	A27-43	-
P79-42	-	399	P47-6	A20-44	-
TJ7-71	-	330	P43-17	A16-44	-
TJ7-72	-	331	P43-18	A16-45	-
TJ7-73	-	744	P79-21	-	-
P79-22	-	332	P43-19	A16-73	-
P79-43	-	603	P61-4	A27-42	-
P79-44	-	475	P49-6	A21-44	-
TJ7-74	-	-	-	-	See TJ5-90 in WP 0035 00.
TJ7-75	-	722	P78-7	-	-
P78-8	-	333	P43-20	A16-74	-
TJ7-76	-	723	P78-9	-	-
P78-30	-	334	P43-21	A16-75	-
TJ7-77	-	724	P78-10	-	-
P78-11	-	335	P43-26	A16-80	-
TJ7-78	-	725	P78-12	-	-
P78-33	-	336	P43-35	A16-89	-
TJ7-79	-	726	P78-13	-	-
P78-14	-	462	P50-20	A21-20	-
P78-35	-	601	P61-2	A27-40	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-80	-	1515	P77-32	-	-
P108-39	A36-62	1517	P109-3	A36-41	-
P109-10	A36-86	1462	P68-40	A30-63	-
P77-10	-	1516	P108-17	A36-17	-
P77-11	-	1514	TJ9-46	-	-
TJ7-81	-	1518	P77-33	-	-
P108-2	A36-2	1391	TJ9-21	-	-
P109-1	A36-39	1392	P108-24	A36-47	-
P77-12	-	1393	P109-8	A36-84	-
P77-34	-	1519	P68-21	A30-21	-
TJ7-82	-	1521	P116-23	-	-
P108-1	A36-1	1389	TJ9-20	-	-
P109-2	A36-40	1390	P108-23	A36-46	-
P116-1	-	1524	P109-9	A36-85	-
P116-2	-	1520	P68-20	A30-20	-
TJ7-83	-	1523	P116-25	-	-
P106-17	A35-17	1387	TJ9-19	-	-
P107-1	A35-39	1388	P106-39	A35-62	-
P116-24	-	1522	P68-19	A30-19	-
P116-3	-	1525	P107-8	A35-84	-
TJ7-84	-	1527	P116-26	-	-
P107-2	A35-40	1529	P108-31	A36-54	-
P108-9	A36-9	1439	TJ9-28	-	-
P116-4	-	1528	P67-7	A30-45	-
P116-5	-	1526	P107-9	A35-85	-
TJ7-85	-	1358	P67-13	A30-89	-
TJ7-88	-	1363	P106-5	A35-5	-
P106-27	A35-50	1368	P68-5	A30-5	-
TJ7-89	-	1364	P106-6	A35-6	-
P106-28	A35-51	1369	P68-6	A30-6	-
TJ7-90	-	1365	P106-7	A35-7	-
P106-29	A35-52	1370	P68-7	A30-7	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-91	-	1366	P106-8	A35-8	-
P106-30	A35-53	1371	P68-10	A30-10	-
TJ7-92	-	1367	P106-9	A35-9	-
P106-31	A35-54	1372	P68-11	A30-11	-
TJ7-93	-	1509	P113-13	A38-89	-
TJ7-94	-	1508	P112-14	A38-14	-
TJ7-95	-	354	P44-14	A17-41	TW29-2
TJ7-96	-	364	P44-32	A17-86	TW29-2
TJ7-97	-	357	P44-17	A17-44	TW33-2
TJ7-98	-	367	P44-35	A17-89	TW33-2
TJ7-99	-	355	P44-15	A17-42	TW30-2
TJ7-100	-	365	P44-33	A17-87	TW30-2
TJ7-101	-	356	P44-16	A17-43	TW31-2
TJ7-102	-	366	P44-34	A17-88	TW31-2
TJ7-103	-	361	P44-23	A17-77	TW32-2
TJ7-104	-	362	P44-24	A17-78	TW32-2
TJ7-105	-	191	P89-13	-	-
P89-14	-	187	P50-21	A21-21	-
P89-35	-	190	P66-6	A29-6	-
P89-36	-	240	TJ8-116	-	-
TJ7-106	-	-	-	-	See TJ6-7 in WP 0035 00.
TJ7-107	-	359	P44-19	A17-73	TW27-2
TJ7-108	-	346	P44-1	A17-28	TW27-2
TJ7-109	-	360	P44-20	A17-74	TW28-2
TJ7-110	-	347	P44-2	A17-29	TW28-2
TJ7-111	-	349	P44-6	A17-33	-
TJ7-112	-	350	P44-7	A17-34	-
TJ7-113	-	351	P44-8	A17-35	-
TJ7-114	-	352	P44-10	A17-37	-
TJ7-115	-	353	P44-11	A17-38	-
TJ7-116	-	348	P44-5	A17-32	-
TJ7-117	-	363	P44-26	A17-80	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ7-118	-	370	P45-7	A18-34	-
TJ7-119	-	378	P45-25	A18-79	-
TJ7-120	-	372	P89-6	-	-
P89-27	-	1118	P45-9	A18-36	-
P89-28	-	1119	P70-42	A31-65	-
TJ7-121	-	941	P89-9	-	-
P89-30	-	1120	P45-14	A18-41	-
P89-31	-	1121	P70-41	A31-64	-
TJ7-122	-	1349	P74-24	A33-47	SH110-1, DR48-3
P72-20	A32-20	997	P54-20	A23-20	SH84-1, DR27-3
P72-21	A32-21	996	P70-17	A31-17	-
P74-1	A33-1	1279	P77-14	-	SH105-1, DR48-3
P77-13	-	1234	P66-43	A29-66	SH109-1, DR50-3
P77-35	-	1350	P72-19	A32-19	SH107-1, DR50-3
TJ7-123	-	1355	P77-37	-	SH113-1
P72-16	A32-16	998	P53-3	A23-41	SH83-1, DR27-3
P72-17	A32-17	999	P70-2	A31-2	-
P77-15	-	1351	P72-18	A32-18	SH111-1, DR51-4
P77-16	-	1233	P66-42	A29-65	SH112-1, DR51-4
P77-38	-	1605	TJ9-2	-	SH125-1, DR51-4
TJ7-125	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-126	-	-	-	-	See TJ5-102 in WP 0035 00.
TJ7-127	-	-	-	-	See TJ4-J in WP 0035 00.
TJ7-128	-	634	P62-27	A27-50	-
TJ8-1	-	204	P36-1	A9-28	-
TJ8-2	-	901	P86-35	-	-
P86-13	-	1219	P45-15	A18-42	-
P86-14	-	1220	P56-6	A24-6	-
TJ8-3	-	442	P49-11	A21-87	-
P49-4	A21-42	435	P66-4	A29-4	-
TJ8-4	-	-	-	-	See TJ7-7 in this WP.
TJ8-5	-	-	-	-	See TJ7-8 in this WP.

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-6	-	-	-	-	See TJ7-9 in this WP.
TJ8-7	-	-	-	-	See TJ7-10 in this WP.
TJ8-8	-	-	-	-	See TJ7-11 in this WP.
TJ8-9	-	358	P44-18	A17-45	TW34-2
TJ8-10	-	368	P44-36	A17-90	TW34-2
TJ8-11	-	614	P62-3	A27-3	-
TJ8-12	-	615	P62-4	A27-4	-
TJ8-13	-	935	P39-6	A12-33	-
TJ8-14	-	939	P76-15	-	-
P76-16	-	936	P39-7	A12-34	-
P76-37	-	938	P63-12	A28-88	-
TJ8-15	-	616	P62-7	A27-7	-
TJ8-16	-	618	P62-11	A27-11	-
TJ8-17	-	619	P62-12	A27-12	-
TJ8-18	-	620	P62-13	A27-13	-
TJ8-19	-	621	P62-14	A27-14	-
TJ8-20	-	622	P62-15	A27-15	-
TJ8-21	-	623	P62-16	A27-16	-
TJ8-22	-	624	P62-17	A27-17	-
TJ8-23	-	625	P62-18	A27-18	-
TJ8-24	-	626	P62-19	A27-19	-
TJ8-25	-	627	P62-20	A27-20	-
TJ8-26	-	628	P62-21	A27-21	-
TJ8-27	-	629	P62-22	A27-22	-
TJ8-28	-	630	P62-23	A27-46	-
TJ8-29	-	631	P62-24	A27-47	-
TJ8-30	-	632	P62-25	A27-48	-
TJ8-31	-	638	P62-33	A27-56	-
TJ8-32	-	639	P62-34	A27-57	-
TJ8-33	-	640	P62-35	A27-58	-
TJ8-34	-	641	P62-36	A27-59	-
TJ8-35	-	643	P62-38	A27-61	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-36	-	646	P62-41	A27-64	-
TJ8-37	-	647	P62-42	A27-65	-
TJ8-38	-	648	P62-43	A27-66	-
TJ8-39	-	600	P61-1	A27-39	-
TJ8-40	-	655	P64-1	A28-1	-
TJ8-41	-	656	P64-2	A28-2	-
TJ8-42	-	657	P64-3	A28-3	-
TJ8-43	-	659	P64-5	A28-5	-
TJ8-44	-	660	P64-6	A28-6	-
TJ8-45	-	661	P64-7	A28-7	-
TJ8-46	-	666	P64-12	A28-12	-
TJ8-47	-	667	P64-13	A28-13	-
TJ8-48	-	-	-	-	See TJ6-62 in WP 0035 00.
TJ8-49	-	-	-	-	See TJ6-63 in WP 0035 00.
TJ8-50	-	-	-	-	See TJ6-64 in WP 0035 00.
TJ8-51	-	-	-	-	See TJ6-65 in WP 0035 00.
TJ8-52	-	707	P76-1	-	-
P76-2	-	668	P64-14	A28-14	-
P76-23	-	274	P41-9	A14-36	-
TJ8-53	-	708	P76-3	-	-
P76-24	-	669	P64-15	A28-15	-
P76-25	-	275	P41-10	A14-37	-
TJ8-54	-	709	P76-4	-	-
P76-26	-	276	P41-11	A14-38	-
P76-5	-	670	P64-16	A28-16	-
TJ8-55	-	710	P76-6	-	-
P76-27	-	671	P64-17	A28-17	-
P76-28	-	277	P41-12	A14-39	-
TJ8-56	-	711	P76-7	-	-
P76-29	-	287	P41-27	A14-81	-
P76-8	-	672	P64-18	A28-18	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-57	-	712	P76-9	-	-
P76-30	-	673	P64-19	A28-19	-
P76-31	-	285	P41-25	A14-79	-
TJ8-58	-	713	P76-10	-	-
P76-11	-	674	P64-20	A28-20	-
P76-32	-	278	P41-13	A14-40	-
TJ8-59	-	714	P76-12	-	-
P76-33	-	279	P41-14	A14-41	-
P76-34	-	675	P64-21	A28-21	-
TJ8-60	-	727	P78-15	-	-
P78-16	-	676	P64-22	A28-22	-
P78-37	-	280	P41-15	A14-42	-
TJ8-61	-	728	P78-17	-	-
P78-39	-	281	P41-16	A14-43	-
TJ8-62	-	729	P78-19	-	-
P78-20	-	678	P64-24	A28-47	-
P78-41	-	291	P41-31	A14-85	-
TJ8-63	-	730	P78-21	-	-
P78-22	-	679	P64-25	A28-48	-
P78-43	-	292	P41-32	A14-86	-
TJ8-64	-	-	-	-	See TJ6-124 in WP 0035 00.
TJ8-65	-	716	P76-19	-	-
P76-20	-	474	P66-5	A29-5	-
P76-41	-	294	P41-34	A14-88	-
TJ8-66	-	717	P76-21	-	-
P76-22	-	943	P63-13	A28-89	-
P76-43	-	288	P41-28	A14-82	-
P76-44	-	484	P39-5	A12-32	-
TJ8-67	-	-	-	-	See TJ6-76 in WP 0035 00.
TJ8-68	-	168	P41-5	A14-32	-
TJ8-69	-	-	-	-	See TJ6-79 in WP 0035 00.

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-70	-	694	P75-1	-	-
P75-2	-	902	P51-5	A22-43	-
P75-23	-	617	P62-8	A27-8	-
TJ8-71	-	695	P75-3	-	-
P75-24	-	479	P51-6	A22-44	-
P75-25	-	662	P64-8	A28-8	-
TJ8-72	-	-	-	-	See TJ5-60 in WP 0035 00.
TJ8-73	-	-	-	-	See TJ6-81 in WP 0035 00.
TJ8-74	-	-	-	-	See TJ5-18 in WP 0035 00.
TJ8-75	-	-	-	-	See TJ5-61 in WP 0035 00.
TJ8-76	-	-	-	-	See TJ6-88 in WP 0035 00.
TJ8-77	-	-	-	-	See TJ6-89 in WP 0035 00.
TJ8-78	-	-	-	-	See TJ6-90 in WP 0035 00.
TJ8-79	-	-	-	-	See TJ6-91 in WP 0035 00.
TJ8-80	-	-	-	-	See TJ6-92 in WP 0035 00.
TJ8-81	-	-	-	-	See TJ6-93 in WP 0035 00.
TJ8-82	-	-	-	-	See TJ6-94 in WP 0035 00.
TJ8-83	-	382	P45-32	A18-86	-
TJ8-84	-	373	P45-28	A18-82	-
TJ8-85	-	384	P45-34	A18-88	SH116-1
TJ8-86	-	375	P45-17	A18-44	-
TJ8-87	-	337	P43-10	A16-37	-
TJ8-88	-	338	P43-11	A16-38	-
TJ8-89	-	339	P43-30	A16-84	-
TJ8-90	-	340	P43-31	A16-85	-
TJ8-91	-	341	P43-32	A16-86	-
TJ8-92	-	342	P43-13	A16-40	-
TJ8-93	-	701	P75-13	-	-
P75-14	-	343	P43-34	A16-88	-
P75-35	-	686	P64-36	A28-59	-
TJ8-94	-	702	P75-15	-	-
P75-16	-	344	P43-27	A16-81	-
P75-37	-	688	P64-38	A28-61	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-95	-	703	P75-17	-	-
P75-18	-	345	P43-36	A16-90	-
P75-39	-	691	P64-41	A28-64	-
TJ8-96	-	-	-	-	See TJ4-J in WP 0035 00.
TJ8-97	-	1053	P54-12	A23-12	-
TJ8-98	-	1056	P98-5	-	-
*R31-1	-	* 85	L4-1	-	Load Plate WP 0004 00, Fig. 3
J98-5	-	* 29	*R31-1	-	Load Plate WP 0004 00, Fig. 3
TJ8-99	-	-	-	-	See TJ4-d in WP 0035 00.
TJ8-100	-	-	-	-	See TJ7-67 in WP 0035 01.
TJ8-101	-	327	P43-14	A16-41	-
TJ8-102	-	1030	P80-1	-	-
P80-2	-	1031	P54-31	A23-54	-
P80-23	-	1032	P66-16	A29-16	-
TJ8-103	-	1033	P80-3	-	-
P80-24	-	1034	P54-32	A23-55	-
P80-25	-	1035	P66-17	A29-17	-
TJ8-104	-	1065	P80-4	-	-
J97-10	-	* 10	*R10-1	-	Load Plate WP 0004 00, Fig. 3
P80-26	-	1067	P66-18	A29-18	-
P80-5	-	1066	P97-10	-	-
TJ8-105	-	1075	P80-6	-	-
J97-4	-	* 4	*R7-1	-	Load Plate WP 0004 00, Fig. 3
P80-27	-	1076	P97-4	-	-
P80-28	-	1077	P66-19	A29-19	-
TJ8-106	-	1002	P80-9	-	-
P80-30	-	1003	P54-8	A23-8	-
P80-31	-	1004	P66-20	A29-20	-
TJ8-107	-	1005	P80-10	-	-
P80-11	-	1006	P54-7	A23-7	-
P80-32	-	1007	P66-21	A29-21	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-108	-	1008	P80-12	-	-
P80-33	-	1009	P66-23	A29-46	-
P80-34	-	1010	P54-27	A23-50	-
TJ8-109	-	1000	P54-16	A23-16	-
* R 14-2	-	* 87	L3-1	-	Load Plate WP 0004 00, Fig. 3
J98-14	-	* 38	* R14-2	-	Load Plate WP 0004 00, Fig. 3
L3-1	-	* 35	J98-11	-	Load Plate WP 0004 00, Fig. 3
P54-37	A23-60	1125	P98-14	-	-
P54-38	A23-61	1001	P66-25	A29-48	-
P81-27	-	203	P35-36	A8-90	-
P98-11	-	771	P81-6	-	-
TJ8-110	-	-	-	-	See TJ6-80 in WP 0035 00.
TJ8-111	-	-	-	-	See TJ6-66 in WP 0035 00.
TJ8-112	-	-	-	-	See TJ6-95 in WP 0035 00.
TJ8-113	-	697	P75-6	-	-
P75-27	-	260	P40-28	A13-82	-
P75-28	-	404	P48-3	A20-3	-
P48-25	A20-48	426	P64-30	A28-53	-
TJ8-114	-	698	P75-7	-	-
P75-29	-	251	P40-15	A13-42	-
P75-8	-	651	P63-2	A28-40	-
TJ8-115	-	-	-	-	See TJ6-96 in WP 0035 00.
TJ8-116	-	-	-	-	See TJ7-105 in this WP.
TJ8-117	-	699	P75-9	-	-
P75-30	-	286	P41-26	A14-80	-
TJ8-118	-	700	P100-11	-	-
* R27-1	-	* 89	*R28-1	-	Load Plate WP 0004 00, Fig. 3
*R28-1	-	* 90	*R29-1	-	Load Plate WP 0004 00, Fig. 3
*R29-1	-	* 91	*R25-1	-	Load Plate WP 0004 00, Fig. 3
J100-11	-	* 103	Q1-CASE	-	Load Plate WP 0004 00, Fig. 3
P56-25	A24-48	1177	P57-11	A25-87	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ8-118 (Continued)					
P98-20	-	1176	P56-1	A24-1	-
P98-21	-	1404	TJ8-125	-	-
P98-22	-	1405	TJ8-126	-	-
Q1-CASE	-	*45	J98-21	-	Load Plate WP 0004 00, Fig. 3
Q1-CASE	-	*46	J98-22	-	Load Plate WP 0004 00, Fig. 3
Q1-CASE	-	*88	*R27-1	-	Load Plate WP 0004 00, Fig. 3
Q1-CASE	-	*101	VR1-CASE	-	Load Plate WP 0004 00, Fig. 3
VR1-CASE	-	*44	J98-20	-	Load Plate WP 0004 00, Fig. 3
TJ8-119	-	-	-	-	See TJ4-H in WP 0035 00.
TJ8-120	-	-	-	-	See TJ4-J in WP 0035 00.
TJ8-121	-	-	-	-	See TJ4-J in WP 0035 00.
TJ8-122	-	-	-	-	See TJ4-H in WP 0035 00.
TJ8-123	-	-	-	-	See TJ4-J in WP 0035 00.
TJ8-124	-	480	P39-20	A12-74	-
TJ8-125	-	-	-	-	See TJ8-118 in this WP.
TJ8-126	-	-	-	-	See TJ8-118 in this WP.
TJ8-127	-	-	-	-	See TJ4-h in WP 0035 00.
TJ8-128	-	650	P63-1	A28-39	-
TJ9-1	-	1445	P106-42	A35-65	-
TJ9-2	-	-	-	-	See TJ7-123 in this WP.
TJ9-3	-	-	-	-	See TJ4-H in WP 0035 00.
TJ9-4	-	-	-	-	See TJ4-J in WP 0035 00.
TJ9-8	-	-	-	-	See TJ4-H in WP 0035 00.
TJ9-9	-	-	-	-	See TJ4-J in WP 0035 00.
TJ9-10	-	-	-	-	See TJ4-J in WP 0035 00.
TJ9-12	-	1373	P106-10	A35-10	-
P106-32	A35-55	1374	P68-12	A30-12	-
TJ9-13	-	1375	P106-11	A35-11	-
P106-33	A35-56	1376	P68-13	A30-13	-
TJ9-14	-	1377	P106-12	A35-12	-
P106-34	A35-57	1378	P68-14	A30-14	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ9-15	-	1379	P106-13	A35-13	-
P106-35	A35-58	1380	P68-15	A30-15	-
TJ9-16	-	1381	P106-14	-	-
P106-36	A35-59	1382	P68-16	A30-16	-
TJ9-17	-	1383	P106-15	A35-15	-
P106-37	A35-60	1384	P68-17	A30-17	-
TJ9-18	-	1385	P106-16	A35-16	-
P106-38	A35-61	1386	P68-18	A30-18	-
TJ9-19	-	-	-	-	See TJ7-83 in this WP.
TJ9-20	-	-	-	-	See TJ7-82 in this WP.
TJ9-21	-	-	-	-	See TJ7-81 in this WP.
TJ9-22	-	1394	P108-3	A36-3	-
P107-10	A35-86	1536	P68-22	A30-22	-
P108-25	A36-48	1395	P107-3	A35-41	-
TJ9-23	-	1396	P108-4	A36-4	-
P108-26	A36-49	1397	P68-23	A30-46	-
TJ9-24	-	1398	P108-5	A36-5	-
P108-27	A36-50	1399	P68-24	A30-47	-
TJ9-25	-	1436	P108-6	A36-6	-
TJ9-26	-	1437	P108-7	A36-7	-
TJ9-27	-	1438	P108-8	A36-8	-
TJ9-28	-	-	-	-	See TJ7-84 in this WP.
TJ9-29	-	1441	P68-29	A30-52	-
P68-8	A30-8	1440	P106-22	A35-22	-
TJ9-30	-	1442	P68-25	A30-48	-
TJ9-31	-	1443	P68-26	A30-49	-
TJ9-32	-	1359	P68-1	A30-1	-
TJ9-33	-	1360	P68-2	A30-2	-
TJ9-34	-	1361	P68-3	A30-3	-
TJ9-35	-	1362	P68-4	A30-4	-
TJ9-36	-	-	-	-	See TJ5-91 in WP 0035 00.
TJ9-37	-	1453	P68-30	A30-53	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ9-38	-	1454	P68-32	A30-55	-
TJ9-39	-	1455	P68-33	A30-56	-
TJ9-40	-	1456	P68-34	A30-57	-
TJ9-41	-	1457	P68-35	A30-58	-
TJ9-42	-	1458	P68-36	A30-59	-
TJ9-43	-	1459	P68-37	A30-60	-
TJ9-44	-	1460	P68-38	A30-61	-
TJ9-45	-	-	-	-	See TJ7-69 in this WP.
TJ9-46	-	-	-	-	See TJ7-80 in this WP.
TJ9-47	-	1463	P68-41	A30-64	-
TJ9-48	-	1464	P68-42	A30-65	-
TJ9-49	-	1465	P68-43	A30-66	-
TJ9-50	-	1466	P68-44	A30-67	-
TJ9-51	-	1452	P68-28	A30-51	-
TJ9-52	-	1476	P108-32	A36-55	-
P108-10	A36-10	1474	P77-2	-	-
P77-1	-	1473	P57-14	A25-90	-
P77-23	-	1475	TJ10-C	-	-
TJ9-53	-	1480	P77-25	-	-
P77-24	-	1479	TJ10-D	-	-
P77-3	-	1478	P108-33	A36-53	-
P108-11	A36-11	1477	P60-30	A26-53	-
TJ9-54	-	1484	P77-26	-	-
P108-12	A36-12	1481	P62-1	A27-1	-
P77-4	-	1482	P108-34	A36-57	-
P77-5	-	1483	TJ10-E	-	-
TJ9-55	-	1488	P77-28	-	-
P108-13	A36-13	1485	P62-32	A27-55	-
P77-27	-	1487	TJ10-F	-	-
P77-6	-	1486	P108-35	A36-58	-
TJ9-56	-	1492	P77-29	-	-
P108-14	A36-14	1489	P64-43	A28-66	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ9-56 (continued)					
P77-7	-	1490	P108-36	A36-59	-
P77-8	-	1491	TJ10-G	-	-
TJ9-57	-	1503	P68-31	A30-54	-
P108-37	A36-60	1497	P77-18	-	-
P68-9	A30-9	1500	P108-15	A36-15	-
P77-17	-	1496	P112-17	A38-17	-
P77-39	-	1498	P112-11	A38-11	-
P77-40	-	1499	TJ10-B	-	-
TJ9-58	-	1535	P39-9	A12-36	-
TJ9-60	-	-	-	-	See TJ4-e in WP 0035 00.
TJ9-61	-	1574	P112-36	A38-59	-
TJ9-62	-	1575	P112-35	A38-58	-
TJ9-63	-	1504	P77-19	-	-
P77-20	-	1505	P113-3	A38-41	-
P77-41	-	1506	P112-15	A38-15	-
P77-42	-	1507	P67-6	A30-44	-
TJ9-94	-	1626	DR58-1	-	-
TJ9-95	-	1624	P83-19		SH126-2, DR58-1
P74-8	A33-8	1285	P74-44	A33-67	-
P74-9	A33-9	1286	P67-8	A30-84	-
P83-20	-	1297	TJ10-S	-	SH92-2, DR60-3
P83-41	-	1625	P74-30	A33-53	SH128-2, DR60-3
TJ9-96	-	1622	P83-17	-	SH126-2, DR58-1
P83-18	-	1296	TJ10-R	-	SH92-2, DR60-3
P83-39	-	1623	P74-29	A33-52	SH128-2, DR60-3
TJ9-97	-	1621	DR57-1	-	-
TJ9-98	-	-	-	-	See TJ5-98 in WP 0035 00.
TJ9-99	-	1617	P83-21	-	SH125-2, DR57-1
P83-22	-	1283	TJ10-M	-	SH90-2, DR59-3
P83-43	-	1618	P74-7	A33-7	SH127-2, DR59-3
TJ9-100	-	1444	P68-27	A30-50	-

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ10-A	-	1195	P36-2	A9-29	-
TJ10-B	-	-	-	-	See TJ9-57 in this WP.
TJ10-C	-	-	-	-	See TJ9-52 in this WP.
TJ10-D	-	-	-	-	See TJ9-53 in this WP.
TJ10-E	-	-	-	-	See TJ9-54 in this WP.
TJ10-F	-	-	-	-	See TJ9-55 in this WP.
TJ10-G	-	-	-	-	See TJ9-56 in this WP.
TJ10-H	-	1472	P106-3	A35-3	-
P106-25	A35-48	1471	P67-4	A30-42	-
TJ10-J	-	1271	P73-3	A33-41	-
P73-9	A33-85	1275	P67-2	A30-40	-
TJ10-K	-	1273	P73-7	A33-45	-
TJ10-L	-	1304	DR39-1	-	Also Check TJ9-97 and DR37-1
TJ10-M	-	-	-	-	See TJ9-99 in this WP.
TJ10-N	-	-	-	-	See TJ5-98 in WP 0035 00.
TJ10-P	-	1305	DR40-1	-	-
TJ10-R	-	-	-	-	See TJ9-96 in this WP.
TJ10-S	-	-	-	-	See TJ9-95 in this WP.
TJ10-T	-	-	-	-	See TJ4-J in WP 0035 00.
TJ10-U	-	1414	P86-7	-	-
J99-18	-	* 65	*R27-2	-	Load Plate WP 0004 00, Fig. 3
P86-29	-	1203	P65-9	A29-85	-
P86-8	-	1415	P99-18	-	-
TJ10-V	-	1412	P86-6	-	-
J99-19	-	* 66	*R28-2	-	Load Plate WP 0004 00, Fig. 3
P86-27	-	1413	P99-19	-	-
P86-28	-	1202	P65-8	A29-84	-
TJ10-W	-	1410	P86-4	-	-
J99-20	-	* 67	*R29-2	-	Load Plate WP 0004 00, Fig. 3
P86-26	-	1201	P65-7	A29-45	-
P86-5	-	1411	P99-20	-	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ10-X	-	1172	P86-24	-	SH64-2
J99-21	-	* 68	*R26-2	-	Load Plate WP 0004 00, Fig. 3
P86-25	-	1151	P65-5	A29-43	SH66-1, DR25-3
P86-3	-	1174	P99-21	-	SH65-2, DR25-3
TJ10-Y	-	1171	P86-1	-	SH64-2
J99-8	-	* 55	*R26-1	-	Load Plate WP 0004 00, Fig. 3
P86-2	-	1173	P99-8	-	SH65-2, DR25-3
TJ10-Z	-	1166	P83-12	-	SH61-2
P83-33	-	1168	P70-21	A31-21	SH62-2, DR15-3
P83-34	-	1170	P55-14	A24-90	SH63-2, DR15-3
TJ10-a	-	1165	P83-13	-	SH61-2
P83-35	-	1167	P70-43	A31-66	SH62-2, DR15-3
P83-36	-	1169	P55-4	A24-42	SH63-2, DR15-3
TJ10-b	-	1468	P106-1	A35-1	-
P106-23	A35-46	1467	P67-3	A30-41	-
TJ10-c	-	1265	DR33-1	-	-
TJ10-d	-	1470	P106-2	A35-2	-
P106-24	A35-47	1469	P67-10	A30-86	-
TJ10-e	-	1428	K2-B1	-	-
K2-B1	-	578	P60-21	A26-21	-
TJ10-f	-	1209	P86-12	-	-
J99-10	-	* 57	*R21-1	-	Load Plate WP 0004 00, Fig. 3
P86-33	-	1210	P99-10	-	-
P86-34	-	1211	P65-13	A29-89	-
TJ10-g	-	1206	P86-10	-	-
P86-11	-	1207	P99-9	-	-
P86-32	-	1208	P65-12	A29-88	-
TJ10-h	-	1418	P86-9	-	-
J99-17	-	* 64	*R25-2	-	Load Plate WP 0004 00, Fig. 3
P86-30	-	1419	P99-17	-	-
P86-31	-	1205	P65-11	A29-87	-
TJ10-i	-	1417	P56-20	A24-20	TW53-2
P56-42	A24-65	1112	P65-10	A29-86	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ10-j	-	1416	P56-15	A24-15	TW53-2
TJ10-k	-	1164	P70-4	A31-4	SH59-1
TJ10-m	-	1163	P70-3	A31-3	SH58-1
TJ10-n	-	1162	P70-24	A31-47	SH57-1
TJ10-p	-	1161	P70-23	A31-46	SH56-1
TJ10-q	-	1155	P83-11	-	SH52-2
P83-10	-	1157	P55-7	A24-45	SH53-2, DR11-3
P83-32	-	1159	P70-20	A31-20	SH54-2, DR11-3
TJ10-r	-	1154	P83-9	-	SH52-2
P56-39	A24-62	1142	P65-1	A29-39	SH41-1, DR20-10
P83-30	-	1156	P55-6	A24-44	SH53-2, DR11-3
P83-31	-	1158	P70-19	A31-19	SH54-2, DR11-3
TJ10-s	-	1145	P83-27	-	SH45-2
P83-28	-	1147	P55-11	A24-87	SH46-2, DR14-3
P83-6	-	1149	P70-15	A31-15	SH47-2, DR14-3
TJ10-t	-	1144	P83-4	-	SH45-2
P55-1	A24-39	1150	P65-2	A29-40	SH48-1, DR20-10
P83-26	-	1148	P70-35	A31-58	SH47-2, DR14-3
P83-5	-	1146	P55-5	A24-43	SH46-2, DR14-3
TJ10-u	-	1200	P65-6	A29-44	-
TJ10-v	-	1103	P83-24	SH38-2	-
P83-25	-	1139	P55-13	A24-89	SH39-2, DR13-3
P83-3	-	1141	P70-31	A31-54	SH40-2, DR13-3
TJ10-w	-	1102	P83-1	-	SH38-2
P56-38	A24-61	1160	P65-4	A29-42	SH55-1, DR20-10
P83-2	-	1138	P55-12	A24-88	SH39-2, DR13-3
P83-23	-	1140	P70-9	A31-9	SH40-2, DR13-3
TJ10-x	-	-	-	-	See TJ4-h in WP 0035 00.
TJ10-y	-	1272	P73-4	A33-42	-
P73-10	A33-86	1276	P67-9	A30-85	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TJ10-AA	-	1408	P86-38	-	TW59-2
J99-2	-	* 51	*R23-1	-	Load Plate WP 0004 00, Fig. 3
P86-15	-	1198	P66-40	A29-63	-
P86-16	-	1406	P99-2	-	TW58-2
TJ10-BB	-	1409	P86-39	-	TW59-2
J99-15	-	* 62	*R23-2	-	Load Plate WP 0004 00, Fig. 3
P86-17	-	1407	P99-15	-	TW58-2
P86-40	-	1223	P66-41	A29-64	-
TJ10-CC	-	1196	P56-5	A24-5	SH68-2
TJ10-DD	-	1197	P56-12	A24-12	SH68-2
TJ10-EE	-	1181	P56-23	A24-46	-
P56-2	A24-2	1182	TJ10-JJ	-	-
TJ10-FF	-	1186	P56-24	A24-47	-
TJ10-GG	-	1184	P56-3	A24-3	-
TJ10-HH	-	1194	P66-35	A29-58	-
TJ10-JJ	-	-	-	-	See TJ10-EE in this WP.
TJ10-KK	-	1193	P55-3	A24-41	-
P55-10	A24-86	1192	P66-37	A29-60	-
TJ10-LL	-	1190	P55-2	A24-40	-
P55-9	A24-85	1191	P66-38	A29-61	-
TJ10-MM	-	1188	P56-43	A24-66	-
P56-44	A24-67	1189	P66-39	A29-62	-
TJ10-NN	-	1236	J101-E-RED	-	SH85-2, DR33-1
TJ10-PP	-	1235	J101-D-YEL	-	SH85-2, DR33-1
UJ1-A	-	1633	PCM-IN(-)	-	TW3-2 PCM INPUT (24V RTN) WP 0004 00, Fig. 2
PCM-IN(-)	-	1635	UJ1-C	-	PCM INPUT (24V RTN) WP 0004 00, Fig. 2
UJ1-B	-	1634	PCM-IN(+)	-	TW3-2 PCM INPUT (+24V) WP 0004 00, Fig. 2
PCM-IN(+)	-	1636	UJ1-D	-	PCM INPUT (+24V) WP 0004 00, Fig. 2
UJ1-C	-	-	-	-	See UJ1-A in this WP.
UJ1-D	-	-	-	-	See UJ1-B in this WP.
UJ2-4	-	1615	P105-2	A34-40	-
UJ2-5	-	1613	P113-9	A38-85	-
UJ2-6	-	1604	P92-36	-	SH117-1
P92-13	-	178	P34-23	A7-77	SH1-1, DR29-1

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
UJ2-6 (continued)					
P92-14	-	477	P96-16	-	SH9-1, DR9-1
P92-35	-	555	P104-8	A34-8	SH7-1, DR7-1
UJ2-7	-	1584	P116-31	-	SH124-1
P116-30	-	1583	P105-10	A34-86	SH123-1, DR55-3
P116-9	-	1298	P74-35	A33-58	SH93-1, DR55-3
UJ2-8	-	1582	P116-29	-	SH122-1
P116-7	-	1274	P73-8	A33-84	SH89-1, DR54-3
P116-8	-	1581	P105-9	A34-85	SH120-1, DR54-3
UJ2-9	-	207	P36-36	A9-90	-
UJ2-10	-	169	P103-17	-	SH3-1, DR5-3 (5V RTN) WP 0004 00, Fig. 6
UJ2-11	-	120	TB2-5B	-	(+5V) WP 0004 00, Fig. 2
TB2-10B	-	1546	P103-9	-	TW64-2 (+5V) WP 0004 00, Fig. 2
TB2-10C	-	1548	P103-10	-	TW65-2 (+5V) WP 0004 00, Fig. 2
TB2-10D	-	1550	P103-19	-	TW66-2 (+5V) WP 0004 00, Fig. 2
TB2-10E	-	1585	TB4-1F	-	(+5V) WP 0004 00, Fig. 2
TB2-4A	-	53	TB2-5F	-	(+5V) WP 0004 00, Fig. 2
TB2-4C	-	1544	TB2-10A	-	(+5V) WP 0004 00, Fig. 2
TB2-4D	-	3	PS1A1-3	-	TW2-2 (+5V) WP 0004 00, Fig. 2
TB2-5A	-	54	TB2-4B	-	(+5V) WP 0004 00, Fig. 2
TB2-5C	-	107	P48-44	A20-67	(+5V) WP 0004 00, Fig. 2
TB2-5D	-	108	P95-7	-	TW17-2 (+5V) WP 0004 00, Fig. 2
TB2-5E	-	109	P95-17	-	TW20-2 (+5V) WP 0004 00, Fig. 2
TB2-5G	-	151	P50-44	A21-67	(+5V) WP 0004 00, Fig. 2
TB2-5H	-	111	P95-16	-	TW19-2 (+5V) WP 0004 00, Fig. 2
TB2-5J	-	112	P95-6	-	TW16-2 (+5V) WP 0004 00, Fig. 2
TB2-5K	-	113	P95-15	-	TW18-2 (+5V) WP 0004 00, Fig. 2
TB4-1G	-	1586	P106-44	A35-67	(+5V) WP 0004 00, Fig. 2
TB4-1H	-	1587	P108-44	A36-67	(+5V) FWP 0004 00, Fig. 2
TB4-1J	-	1588	UJ3-C	-	(+5V) WP 0004 00, Fig. 2
TB4-1K	-	1630	P124-C	-	(+5V) WP 0004 00, Fig. 2
UJ2-12	-	1227	P37-36	A10-90	-

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

0035 01

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
UJ2-13	-	921	S1-4	-	-
S1-4	-	927	P96-21	-	-
UJ2-14	-	922	S2-4	-	-
S2-4	-	928	P96-22	-	-
UJ2-15	-	923	S3-4	-	-
P36-33	A9-87	1267	P96-23	-	-
S3-4	-	929	P36-34	A9-88	-
UJ2-16	-	205	P103-1	-	SH118-1, DR5-3 (REF) WP 0004 00, Fig. 6
UJ2-17	-	1552	P103-12	-	SH88-1, DR35-2 (HQR) WP 0004 00, Fig. 6
UJ2-18	-	1311	P104-7	A34-7	-
UJ2-19	-	1322	P104-27	A34-50	-
UJ2-20	-	1310	P104-6	A34-6	-
UJ2-21	-	1309	P104-5	A34-5	-
UJ2-22	-	1324	P104-29	A34-52	-
UJ2-23	-	1323	P104-28	A34-51	-
UJ2-24	-	1335	P104-44	A34-67	-
UJ2-25	-	1331	P104-40	A34-63	-
UJ2-26	-	1318	P104-17	A34-17	-
UJ2-27	-	1330	P104-39	A34-62	-
UJ2-28	-	1319	P104-18	A34-18	-
UJ2-29	-	1332	P104-41	A34-64	-
UJ2-30	-	1342	DR47-3	-	-
UJ2-31	-	1333	P104-42	A34-65	SH100-1, DR47-3
UJ2-32	-	1334	P104-43	A34-66	SH101-1, DR47-3
UJ2-33	-	1327	P104-34	A34-57	SH98-1, DR47-3
UJ2-34	-	1278	P73-14	A33-90	-
UJ2-35	-	1270	P73-2	A33-40	-
UJ2-36	-	1306	DR41-1	-	-
UJ2-37	-	1299	P74-36	A33-59	SH94-1, DR41-1
P74-15	A33-15	1290	P67-1	A30-39	SH91-1, DR36-4
UJ3-A	-	1591	P113-8	A38-84	-
UJ3-B	-	1326	P104-32	A34-55	-
UJ3-C	-	-	-	-	See UJ2-11 in this WP.

OIU WIRING LISTS - PART TWO (TEST AND UTILITY CONNECTORS) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
UJ3-D	-	1312	P104-10	A34-10	-
UJ3-E	-	1313	P104-11	A34-11	SH95-1, DR45-4
UJ3-H	-	1577	P103-18	-	SH119-1, DR5-3(5V RTN)WP 0004 00, Fig. 6
UJ3-P	-	1315	P104-13	A34-13	-
UJ3-R	-	1341	DR45-4	-	-
UJ3-S	-	1328	P104-35	A34-58	SH99-1, DR45-4
UJ3-T	-	1314	P104-12	A34-12	-
UJ3-U	-	1316	P104-14	A34-14	-
UJ3-V	-	1308	P104-3	A34-3	-
UJ3-W	-	1320	P104-23	A34-46	-
UJ3-X	-	1307	P104-1	A34-1	-
UJ3-Y	-	1329	P104-36	A34-59	-
UJ3-Z	-	1321	P104-24	A34-47	-
UJ3-a	-	1317	P104-15	A34-15	SH96-1, DR45-4

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL)

0036 00

Table 1. OIU Connector Wiring List (Continued)

NOTE

Wire description terms used in the "Remarks" column are defined in the List of Abbreviations (WP 0001 00-2).

Table 1 continues in all five OIU Wiring List Work Packages.

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
C1-1	-	-	-	-	See TJ4-H in WP 0035 00.
C1-2	-	-	-	-	See TJ4-H in WP 0035 00.
C2-1	-	-	-	-	See TJ4-H in WP 0035 00.
C2-2	-	-	-	-	See TJ4-H in WP 0035 00.
C3-1	-	-	-	-	See TJ4-J in WP 0035 00.
C3-2	-	-	-	-	See TJ4-J in WP 0035 00.
C4-1	-	-	-	-	See TJ4-J in WP 0035 00.
C4-2	-	-	-	-	See TJ4-J in WP 0035 00.
C5-1	-	-	-	-	See TJ4-J in WP 0035 00.
C5-2	-	-	-	-	See TJ4-J in WP 0035 00.
C6-1	-	-	-	-	See TJ4-J in WP 0035 00.
C6-2	-	-	-	-	See TJ4-J in WP 0035 00.
C7-1	-	-	-	-	See TJ4-J in WP 0035 00.
C7-2	-	-	-	-	See TJ4-J in WP 0035 00.
C8-1	-	31	TB3-1E	-	(+24V) WP 0004 00, Fig. 2
C8-2	-	1600	K3-A2	-	-
CB1-2-LOAD	-	9	R1-1	-	-
K3-A2	-	1431	K3-X1	-	-
K3-A2	-	1537	P63-14	A28-90	-
K3-X1	-	1432	P52-23	A22-46	-
R1-1	-	1291	P74-16	A33-16	TW68-2
TB3-1F	-	7	CB1-2-LOAD	-	(+24V) WP 0004 00, Fig. 2
TB3-1G	-	19	R1-1	-	(+24V) WP 0004 00, Fig. 2
C8-2	-	-	-	-	See C8-1 in this WP.
C9(+)E3	-	1631	TB2-8K	-	-
*R32-2	-	* 96	*R33-2	-	Load Plate WP 0004 00, Fig. 3
*R33-2	-	* 97	*R34-2	-	Load Plate WP 0004 00, Fig. 3
*R34-2	-	* 98	*R35-2	-	Load Plate WP 0004 00, Fig. 3
*R35-2	-	* 99	*R36-2	-	Load Plate WP 0004 00, Fig. 3
*R36-2	-	*106	*R38-2	-	Load Plate WP 0004 00, Fig. 3

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
C9(+)/E3 (continued)					
J99-25	-	*72	*R32-2	-	Load Plate WP 0004 00, Fig. 3
K3-A1	-	24	TB2-8B	-	+BUS-N WP 0004 00, Fig. 2
P52-24	A22-47	476	P64-35	A28-58	-
TB1-10B	-	1555	P107-13	A35-89	TW71-2 +BUS-N WP 0004 00, Fig. 2
TB1-10C	-	1557	P109-13	A36-89	TW72-2 +BUS-N WP 0004 00, Fig. 2
TB1-10D	-	1560	P112-22	A38-22	TW73-2 +BUS-N WP 0004 00, Fig. 2
TB1-7B	-	127	P40-17	A13-44	TW21-2 +BUS-N WP 0004 00, Fig. 2
TB1-7C	-	129	P41-17	A14-44	TW22-2 +BUS-N WP 0004 00, Fig. 2
TB1-7D	-	132	P46-8	A19-84	TW23-2 +BUS-N WP 0004 00, Fig. 2
TB1-7E	-	134	P47-13	A20-89	TW25-2 +BUS-N WP 0004 00, Fig. 2
TB1-7F	-	136	P49-13	A21-89	TW45-2 +BUS-N WP 0004 00, Fig. 2
TB1-7G	-	77	P42-19	A15-73	TW46-2 +BUS-N WP 0004 00, Fig. 2
TB1-7H	-	137	P52-1	A22-1	TW36-2 +BUS-N WP 0004 00, Fig. 2
TB1-7J	-	144	P39-17	A12-44	TW26-2 +BUS-N WP 0004 00, Fig. 2
TB1-9B	-	78	P54-25	A23-48	TW60-2 +BUS-N WP 0004 00, Fig. 2
TB1-9C	-	73	P99-25	-	+BUS-N WP 0004 00, Fig. 2
TB1-9D	-	1401	P56-16	A24-16	TW57-2 +BUS-N WP 0004 00, Fig. 2
TB2-8A	-	27	K3-A1	-	+BUS-N WP 0004 00, Fig. 2
TB2-8C	-	30	TB1-9A	-	+BUS-N WP 0004 00, Fig. 2
TB2-8D	-	23	TB1-7K	-	+BUS-N WP 0004 00, Fig. 2
TB2-8E	-	22	TB1-7A	-	+BUS-N WP 0004 00, Fig. 2
TB2-8G	-	1269	P74-28	A33-51	TW67-2 +BUS-N WP 0004 00, Fig. 2
TB2-8H	-	1553	TB1-10A	-	+BUS-N WP 0004 00, Fig. 2
C9(-)/E4	-	-	-	-	See TJ4-J in WP 0035 00.
CB1-1-LINE	-	6	PCM-OUT(+)	-	PCM OUTPUT (+24V) WP 0004 00, Fig. 2
CB1-1-LINE	-	17	CB1-2-LINE	-	-
CB1-1-LOAD	-	12	FL1-LN+28V	-	-
FL1-LN+28V	-	1592	E1	-	-
CB1-2-LINE	-	-	-	-	See CB1-1-LINE in this WP.
CB1-2-LOAD	-	-	-	-	See C8-1 in this WP.
CHASSIS	-	1266	DR28-1	-	-
DR1-1	-	125	P34-27	A7-81	-

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

0036 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
DR2-1	-	1237	P34-30	A7-84	-
DR3-2	-	1238	P34-33	A7-87	-
DR4-1	-	1239	P34-31	A7-85	-
DR5-3	-	1576	P103-6	-	(5V RTN) WP 0004 00, Fig. 6
DR6-1	-	1242	P92-22	-	-
P92-21	-	1240	DR30-1	-	-
P92-44	-	1339	DR34-1	-	-
DR7-1	-	965	P92-37	-	-
P92-15	-	949	DR29-1	-	-
P92-16	-	1244	DR9-1	-	-
P92-38	-	1612	DR56-1	-	-
DR8-1	-	1243	P34-35	A7-89	-
DR9-1	-	-	-	-	See DR7-1 in this WP.
DR10-23	-	-	-	-	See TJ4-J in WP 0035 00.
DR19-1	-	1260	P101-H	-	-
DR20-10	-	-	-	-	See TJ4-J in WP 0035 00.
DR26-4	-	-	-	-	See TJ4-J in WP 0035 00.
DR27-3	-	1262	P72-39	A32-62	-
DR28-1	-	-	-	-	See CHASSIS in this WP.
DR29-1	-	-	-	-	See DR7-1 in this WP.
DR30-1	-	-	-	-	See DR6-1 in this WP.
DR31-1	-	1245	P96-11	-	-
DR32-1	-	1264	J101-H	-	-
DR33-1	-	-	-	-	See TJ10-c in WP 0035 01.
DR34-1	-	-	-	-	See DR6-1 in this WP.
DR36-4	-	1289	P74-14	A33-14	-
P74-13	A33-13	1347	DR48-3	-	-
DR37-1	-	1293	P74-17	A33-17	-
P74-39	A33-62	1300	DR38-1	-	-
DR38-1	-	-	-	-	See DR37-1 in this WP.
DR39-1	-	-	-	-	See TJ10-L in WP 0035 01.
DR40-1	-	-	-	-	See TJ10-P in WP 0035 01.
DR41-1	-	-	-	-	See UJ2-36 in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
DR42-3	-	1338	P105-13	A34-89	-
P105-12	A34-88	1337	DR43-3	-	-
DR43-3	-	-	-	-	See DR42-3 in this WP.
DR45-4	-	-	-	-	See UJ3-R in WP 0035 01.
DR47-3	-	-	-	-	See UJ2-30 in WP 0035 01.
DR48-3	-	-	-	-	See DR36-4 in this WP.
DR52-1	-	1570	P112-1	A38-1	-
DR53-1	-	-	-	-	See TJ4-J in WP 0035 00.
DR56-1	-	-	-	-	See DR7-1 in this WP.
DR57-1	-	-	-	-	See TJ9-97 in WP 0035 01.
DR58-1	-	-	-	-	See TJ9-94 in WP 0035 01.
E1	-	-	-	-	See CB1-1-LOAD in this WP.
E2	-	-	-	-	See TJ4-J in WP 0035 00.
FL1-LD+28V	-	2	PS1A1-2	-	TW1-2
FL1-LD+28V	-	75	P102-C	-	SH87-2
FL1-LD-RTN	-	1	PS1A1-1	-	TW1-2
FL1-LD-RTN	-	74	P102-A	-	SH87-2
FL1-LN+28V	-	-	-	-	See CB1-1-LOAD in this WP.
FL1-LN-RTN	-	-	-	-	See TJ4-J in WP 0035 00.
J97-1	-	-	-	-	See TJ5-19 in WP 0035 00.
J97-2	-	-	-	-	See TJ5-64 in WP 0035 00.
J97-3	-	-	-	-	See TJ5-28 in WP 0035 00.
J97-4	-	-	-	-	See TJ8-105 in WP 0035 01.
J97-5	-	-	-	-	See TJ5-25 in WP 0035 00.
J97-6	-	-	-	-	See TJ4-NN in WP 0035 00.
J97-7	-	*7	*R2-1	-	Load Plate WP 0004 00, Fig. 3
P97-7	-	162	P39-4	A12-31	-
J97-8	-	-	-	-	See TJ6-124 in WP 0035 00.
J97-9	-	-	-	-	See TJ6-119 in WP 0035 00.
J97-10	-	-	-	-	See TJ8-104 in WP 0035 01.
J97-11	-	*11	*R11-1	-	Load Plate WP 0004 00, Fig. 3
P97-11	-	1133	P53-8	A23-84	-

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
J97-12	-	-	-	-	See TJ6-109 in WP 0035 00.
J97-13	-	-	-	-	See TJ6-105 in WP 0035 00.
J97-14	-	-	-	-	See TJ5-24 in WP 0035 00.
J97-16	-	-	-	-	See TJ6-81 in WP 0035 00.
J97-17	-	-	-	-	See TJ4-B in WP 0035 00.
J97-18	-	-	-	-	See TJ4-D in WP 0035 00.
J97-19	-	-	-	-	See TJ4-PP in WP 0035 00.
J97-20	-	-	-	-	See TJ7-2 in WP 0035 01.
J97-21	-	*20	*R1-2	-	Load Plate WP 0004 00, Fig. 3
P97-21	-	149	P41-33	A14-87	-
J97-22	-	-	-	-	See TJ5-116 in WP 0035 00.
J97-23	-	-	-	-	See TJ5-18 in WP 0035 00.
J97-24	-	-	-	-	See TJ5-22 in WP 0035 00.
J97-25	-	-	-	-	See TJ5-33 in WP 0035 00.
J98-1	-	-	-	-	See TJ6-108 in WP 0035 00.
J98-2	-	*26	*R15-1	-	Load Plate WP 0004 00, Fig. 3
P98-2	-	1129	P54-14	A23-14	-
J98-3	-	* 27	*R17-1	-	Load Plate WP 0004 00, Fig. 3
P98-3	-	1126	P54-17	A23-17	-
J98-4	-	-	-	-	See TJ4-R in WP 0035 00.
J98-5	-	-	-	-	See TJ8-98 in WP 0035 01.
J98-6	-	*30	*R30-2	-	Load Plate WP 0004 00, Fig. 3
P98-6	-	1055	P54-10	A23-10	-
J98-7	-	-	-	-	See TJ4-H in WP 0035 00.
J98-8	-	*32	Q1-1	-	Load Plate WP 0004 00, Fig. 3
P98-8	-	1179	P56-13	A24-13	-
Q1-1	-	*86	VR1-2	-	Load Plate WP 0004 00, Fig. 3
J98-9	-	-	-	-	See TJ5-22 in WP 0035 00.
J98-10	-	-	-	-	See TJ5-33 in WP 0035 00.
J98-11	-	-	-	-	See TJ8-109 in WP 0035 01.
J98-12	-	-	-	-	See TJ6-110 in WP 0035 00.
J98-13	-	-	-	-	See TJ5-18 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
J98-14	-	-	-	-	See TJ8-109 in WP 0035 01.
J98-15	-	-	-	-	See TJ5-30 in WP 0035 00.
J98-16	-	*40	*R18-2	-	Load Plate WP 0004 00, Fig. 3
P98-16	-	1128	P54-13	A23-13	-
J98-17	-	* 41	*R19-2	-	Load Plate WP 0004 00, Fig. 3
P98-17	-	1127	P54-2	A23-2	-
J98-18	-	* 42	*R31-2	-	Load Plate WP 0004 00, Fig. 3
P98-18	-	1054	P54-6	A23-6	-
J98-19	-	* 43	VR1-1	-	Load Plate WP 0004 00, Fig. 3
P98-19	-	1175	P56-8	A24-8	-
J98-20	-	-	-	-	See TJ8-118 in WP 0035 01.
J98-21	-	-	-	-	See TJ8-118 in WP 0035 01.
J98-22	-	-	-	-	See TJ8-118 in WP 0035 01.
J98-23	-	-	-	-	See TJ4-H in WP 0035 00.
J98-24	-	-	-	-	See TJ6-107 in WP 0035 00.
J98-25	-	-	-	-	See TJ6-111 in WP 0035 00.
J99-1	-	-	-	-	See TJ6-61 in WP 0035 00.
J99-2	-	-	-	-	See TJ10-AA in WP 0035 01.
J99-3	-	-	-	-	See TJ6-56 in WP 0035 00.
J99-4	-	-	-	-	See TJ4-H in WP 0035 00.
J99-7	-	-	-	-	See TJ6-58 in WP 0035 00.
J99-8	-	-	-	-	See TJ10-Y in WP 0035 01.
J99-9	-	-	-	-	See TJ10-g in WP 0035 01.
J99-10	-	-	-	-	See TJ10-f in WP 0035 01.
J99-11	-	-	-	-	See TJ6-15 in WP 0035 00.
J99-12	-	-	-	-	See TJ7-30 in WP 0035 01.
J99-13	-	-	-	-	See TJ7-15 in WP 0035 01.
J99-14	-	-	-	-	See TJ6-83 in WP 0035 00.
J99-15	-	-	-	-	See TJ10-BB in WP 0035 01.
J99-16	-	-	-	-	See TJ6-57 in WP 0035 00.
J99-17	-	-	-	-	See TJ10-h in WP 0035 01.
J99-18	-	-	-	-	See TJ10-U in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
J99-19	-	-	-	-	See TJ10-V in WP 0035 01.
J99-20	-	-	-	-	See TJ10-W in WP 0035 01.
J99-21	-	-	-	-	See TJ10-X in WP 0035 01.
J99-22	-	-	-	-	See TJ4-J in WP 0035 00.
J99-23	-	-	-	-	See TJ5-25 in WP 0035 00.
J99-24	-	-	-	-	See TJ7-16 in WP 0035 01.
J99-25	-	-	-	-	See C9(+)E3 in this WP.
J100-1	-	-	-	-	See TJ4-B in WP 0035 00.
J100-2	-	-	-	-	See TJ4-D in WP 0035 00.
J100-3	-	-	-	-	See TJ5-127 in WP 0035 00.
J100-4	-	-	-	-	See TJ5-127 in WP 0035 00.
J100-5	-	*75	*R36-1	-	Load Plate WP 0004 00, Fig. 3
*R36-1	-	*104	*R38-1	-	Load Plate WP 0004 00, Fig. 3
P100-5	-	72	P52-40	A22-63	-
J100-8	-	-	-	-	See TJ6-108 in WP 0035 00.
J100-9	-	-	-	-	See TJ6-105 in WP 0035 00.
J100-10	-	-	-	-	See TJ6-109 in WP 0035 00.
J100-11	-	-	-	-	See TJ8-118 in WP 0035 01.
J101-D	-	1235	TJ10-PP-YE	-	SH85-2, DR32-1
J101-E	-	1236	TJ10-NN-RE	-	SH85-2, DR32-1
J101-H	-	-	-	-	See DR32-1 in this WP.
K1-A1	-	-	-	-	See TJ4-H in WP 0035 00.
K1-A2	-	13	R1-2	-	See P74-19 in WP 0036 01.
K1-A2	-	14	R1-2	-	-
K1-X1	-	124	P51-14	A22-90	TW35-2
K1-X2	-	123	P51-12	A22-88	TW35-2
K2-A2	-	-	-	-	See TJ4-J in WP 0035 00.
K2-A3	-	-	-	-	See TJ4-J in WP 0035 00.
K2-B1	-	-	-	-	See TJ10-e in WP 0035 01.
K2-B2	-	-	-	-	See TJ4-J in WP 0035 00.
K2-X1	-	1218	P39-25	A12-79	-
K2-X2	-	-	-	-	See TJ4-J in WP 0035 00.
K3-A1	-	-	-	-	See C9(+)E3 in this WP.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
K3-A2	-	-	-	-	See C8-1 in this WP.
K3-X1	-	-	-	-	See C8-1 in this WP.
K3-X2	-	904	P51-11	A22-87	-
L1-1	-	-	-	-	See TJ5-22 in WP 0035 00.
L1-2	-	-	-	-	See TJ6-110 in WP 0035 00.
L2-1	-	-	-	-	See TJ5-33 in WP 0035 00.
L2-2	-	-	-	-	See TJ6-107 in WP 0035 00.
L3-1	-	-	-	-	See TJ8-109 in WP 0035 01.
L3-2	-	-	-	-	See TJ6-111 in WP 0035 00.
L4-1	-	-	-	-	See TJ8-98 in WP 0035 01.
L4-2	-	*93	*R30-1	-	Load Plate WP 0004 00, Fig. 3
L5-1	-	-	-	-	See TJ5-18 in WP 0035 00.
L5-2	-	*92	*R10-2	-	Load Plate WP 0004 00, Fig. 3
P34-6	A7-33	170	P92-17	-	SH4-1, DR30-1
P92-18	-	66	P96-2	-	SH6-1, DR6-1
P92-39	-	65	P104-2	A34-2	SH5-1, DR34-1
P34-7	A7-34	1325	P104-31	A34-54	-
P34-8	A7-35	171	P92-3	-	-
P92-24	-	953	P96-4	-	-
P92-25	-	954	P104-9	A34-9	-
P34-9	A7-36	172	P92-4	-	-
P92-26	-	955	P104-19	A34-19	-
P92-5	-	945	P96-15	-	-
P34-10	A7-37	1232	P104-21	A34-21	-
P34-11	A7-38	924	P104-22	A34-22	-
P34-12	A7-39	1226	P104-20	A34-20	-
P34-13	A7-40	173	P92-6	-	-
P92-27	-	956	P96-17	-	-
P92-28	-	957	P105-11	A34-87	-
P34-14	A7-41	174	P92-7	-	-
P92-29	-	958	P104-26	A34-49	-
P92-8	-	946	P96-3	-	-

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P34-15	A7-42	175	P92-9	-	-
P92-31	-	960	P104-25	A34-48	-
P34-16	A7-43	176	P92-10	-	-
P92-11	-	947	P96-18	-	-
P92-32	-	961	P104-4	A34-4	-
P34-17	A7-44	1105	P104-37	A34-60	-
P34-18	A7-45	177	P92-12	-	-
P92-33	-	962	P96-1	-	-
P92-34	-	963	P104-38	A34-61	-
P34-23	A7-77	-	-	-	See UJ2-6 in WP 0035 01.
P34-25	A7-79	179	P92-19	-	SH104-1, DR46-3
P92-20	-	951	P96-14	-	SH103-1, DR46-3
P92-41	-	966	P104-30	A34-53	SH97-1, DR46-3
P34-27	A7-81	-	-	-	See DR1-1 in this WP.
P34-28	A7-82	126	P96-7	-	SH2-2
P34-29	A7-83	142	P96-6	-	SH2-2
P34-30	A7-84	-	-	-	See DR2-1 in this WP.
P34-31	A7-85	-	-	-	See DR4-1 in this WP.
P34-33	A7-87	-	-	-	See DR3-2 in this WP.
P34-35	A7-89	-	-	-	See DR8-1 in this WP.
P34-36	A7-90	995	P72-44	A32-67	SH8-1
P35-3	A8-30	-	-	-	See TJ6-102 in WP 0035 00.
P35-4	A8-31	-	-	-	See TJ6-102 in WP 0035 00.
P35-5	A8-32	-	-	-	See TJ6-105 in WP 0035 00.
P35-6	A8-33	-	-	-	See TJ6-105 in WP 0035 00.
P35-7	A8-34	-	-	-	See TJ6-105 in WP 0035 00.
P35-9	A8-36	-	-	-	See TJ6-106 in WP 0035 00.
P35-10	A8-37	-	-	-	See TJ6-106 in WP 0035 00.
P35-11	A8-38	-	-	-	See TJ6-103 in WP 0035 00.
P35-12	A8-39	-	-	-	See TJ6-103 in WP 0035 00.
P35-13	A8-40	-	-	-	See TJ6-103 in WP 0035 00.
P35-15	A8-42	-	-	-	See TJ6-104 in WP 0035 00.
P35-16	A8-43	-	-	-	See TJ6-105 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P35-17	A8-44	-	-	-	See TJ6-106 in WP 0035 00.
P35-18	A8-45	-	-	-	See TJ5-33 in WP 0035 00.
P35-22	A8-76	-	-	-	See TJ6-102 in WP 0035 00.
P35-24	A8-78	-	-	-	See TJ6-108 in WP 0035 00.
P35-25	A8-79	-	-	-	See TJ6-108 in WP 0035 00.
P35-26	A8-80	-	-	-	See TJ6-108 in WP 0035 00.
P35-27	A8-81	-	-	-	See TJ6-109 in WP 0035 00.
P35-28	A8-82	-	-	-	See TJ6-109 in WP 0035 00.
P35-29	A8-83	-	-	-	See TJ6-109 in WP 0035 00.
P35-31	A8-85	-	-	-	See TJ6-104 in WP 0035 00.
P35-32	A8-86	-	-	-	See TJ6-104 in WP 0035 00.
P35-33	A8-87	-	-	-	See TJ6-108 in WP 0035 00.
P35-34	A8-88	-	-	-	See TJ6-109 in WP 0035 00.
P35-35	A8-89	-	-	-	See TJ5-22 in WP 0035 00.
P35-36	A8-90	-	-	-	See TJ8-109 in WP 0035 01.
P36-1	A9-28	-	-	-	See TJ8-1 in WP 0035 01.
P36-2	A9-29	-	-	-	See TJ10-A in WP 0035 01.
P36-11	A9-38	-	-	-	See TJ6-125 in WP 0035 00.
P36-12	A9-39	-	-	-	See TJ6-123 in WP 0035 00.
P36-28	A9-82	1336	P105-4	A34-42	SH102-1, DR44-2
P36-33	A9-87	-	-	-	See UJ2-15 in WP 0035 01.
P36-34	A9-88	-	-	-	See UJ2-15 in WP 0035 01.
P36-35	A9-89	206	P103-2	-	SH87-1, DR35-2 (HQR) WP 0004 00, Fig. 6
P36-36	A9-90	-	-	-	See UJ2-9 in WP 0035 01.
P37-2	A10-29	-	-	-	See TJ7-32 in WP 0035 01.
P37-3	A10-30	-	-	-	See TJ7-33 in WP 0035 01.
P37-4	A10-31	-	-	-	See TJ7-34 in WP 0035 01.
P37-5	A10-32	-	-	-	See TJ7-35 in WP 0035 01.
P37-6	A10-33	-	-	-	See TJ7-36 in WP 0035 01.
P37-7	A10-34	1629	P124-D	-	Fan Monitor
P37-9	A10-36	1302	P74-42	A33-65	-
P37-10	A10-37	-	-	-	See TJ7-40 in WP 0035 01.
P37-11	A10-38	-	-	-	See TJ7-41 in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P37-12	A10-39	-	-	-	See TJ7-42 in WP 0035 01.
P37-13	A10-40	-	-	-	See TJ7-43 in WP 0035 01.
P37-14	A10-41	-	-	-	See TJ7-44 in WP 0035 01.
P37-15	A10-42	-	-	-	See TJ7-45 in WP 0035 01.
P37-16	A10-43	-	-	-	See TJ7-46 in WP 0035 01.
P37-17	A10-44	-	-	-	See TJ7-47 in WP 0035 01.
P37-18	A10-45	-	-	-	See TJ7-48 in WP 0035 01.
P37-19	A10-73	-	-	-	See TJ7-60 in WP 0035 01.
P37-20	A10-74	-	-	-	See TJ7-61 in WP 0035 01.
P37-21	A10-75	-	-	-	See TJ7-62 in WP 0035 01.
P37-22	A10-76	-	-	-	See TJ7-38 in WP 0035 01.
P37-23	A10-77	-	-	-	See TJ7-39 in WP 0035 01.
P37-24	A10-78	-	-	-	See TJ7-59 in WP 0035 01.
P37-25	A10-79	-	-	-	See TJ7-49 in WP 0035 01.
P37-26	A10-80	-	-	-	See TJ7-50 in WP 0035 01.
P37-27	A10-81	-	-	-	See TJ7-51 in WP 0035 01.
P37-28	A10-82	-	-	-	See TJ7-52 in WP 0035 01.
P37-29	A10-83	-	-	-	See TJ7-37 in WP 0035 01.
P37-30	A10-84	-	-	-	See TJ7-53 in WP 0035 01.
P37-31	A10-85	-	-	-	See TJ7-54 in WP 0035 01.
P37-32	A10-86	-	-	-	See TJ7-55 in WP 0035 01.
P37-33	A10-87	-	-	-	See TJ7-56 in WP 0035 01.
P37-34	A10-88	-	-	-	See TJ7-57 in WP 0035 01.
P37-35	A10-89	-	-	-	See TJ7-58 in WP 0035 01.
P37-36	A10-90	-	-	-	See UJ2-12 in WP 0035 01.
P39-1	A12-28	-	-	-	See TJ6-17 in WP 0035 00.
P39-2	A12-29	-	-	-	See TJ6-18 in WP 0035 00.
P39-3	A12-30	-	-	-	See TJ6-19 in WP 0035 00.
P39-4	A12-31	-	-	-	See J97-7 in this WP.
P39-5	A12-32	-	-	-	See TJ8-66 in WP 0035 01.
P39-6	A12-33	-	-	-	See TJ8-13 in WP 0035 01.
P39-7	A12-34	-	-	-	See TJ8-14 in WP 0035 01.
P39-8	A12-35	-	-	-	See TJ4-Z in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P39-9	A12-36	-	-	-	See TJ9-58 in WP 0035 01.
P39-10	A12-37	-	-	-	See TJ5-115 in WP 0035 00.
P39-12	A12-39	985	P70-12	A31-12	-
P39-13	A12-40	-	-	-	See TJ4-G in WP 0035 00.
P39-17	A12-44	-	-	-	See C9(+)E3 in this WP.
P39-20	A12-74	-	-	-	See TJ8-124 in WP 0035 01.
P39-25	A12-79	-	-	-	See K2-X1 in this WP.
P39-35	A12-89	-	-	-	See TJ4-J in WP 0035 00.
P40-1	A13-28	-	-	-	See TJ6-75 in WP 0035 00.
P40-3	A13-30	-	-	-	See TJ6-77 in WP 0035 00.
P40-4	A13-31	-	-	-	See TJ5-116 in WP 0035 00.
P40-5	A13-32	-	-	-	See TJ5-40 in WP 0035 00.
P40-6	A13-33	-	-	-	See TJ4-M in WP 0035 00.
P40-7	A13-34	-	-	-	See TJ4-N in WP 0035 00.
P40-8	A13-35	-	-	-	See TJ5-34 in WP 0035 00.
P40-9	A13-36	-	-	-	See TJ5-35 in WP 0035 00.
P40-10	A13-37	-	-	-	See TJ5-36 in WP 0035 00.
P40-11	A13-38	-	-	-	See TJ5-37 in WP 0035 00.
P40-12	A13-39	-	-	-	See TJ5-38 in WP 0035 00.
P40-13	A13-40	-	-	-	See TJ5-42 in WP 0035 00.
P40-14	A13-41	-	-	-	See TJ5-43 in WP 0035 00.
P40-15	A13-42	-	-	-	See TJ8-114 in WP 0035 01.
P40-16	A13-43	-	-	-	See TJ5-117 in WP 0035 00.
P40-17	A13-44	-	-	-	See C9(+)E3 in this WP.
P40-19	A13-73	-	-	-	See TJ5-37 in WP 0035 00.
P40-20	A13-74	-	-	-	See TJ5-38 in WP 0035 00.
P40-23	A13-77	-	-	-	See TJ5-39 in WP 0035 00.
P40-24	A13-78	-	-	-	See TJ5-36 in WP 0035 00.
P40-25	A13-79	-	-	-	See TJ5-39 in WP 0035 00.
P40-26	A13-80	-	-	-	See TJ5-4 in WP 0035 00.
P40-27	A13-81	-	-	-	See TJ5-40 in WP 0035 00.
P40-28	A13-82	-	-	-	See TJ8-113 in WP 0035 01.
P40-29	A13-83	-	-	-	See TJ5-41 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P40-30	A13-84	-	-	-	See TJ5-47 in WP 0035 00.
P40-31	A13-85	-	-	-	See TJ5-48 in WP 0035 00.
P40-32	A13-86	-	-	-	See TJ5-49 in WP 0035 00.
P40-33	A13-87	-	-	-	See TJ5-50 in WP 0035 00.
P40-34	A13-88	-	-	-	See TJ6-95 in WP 0035 00.
P40-35	A13-89	-	-	-	See TJ4-J in WP 0035 00.
P41-1	A14-28	-	-	-	See TJ5-51 in WP 0035 00.
P41-2	A14-29	-	-	-	See TJ5-52 in WP 0035 00.
P41-3	A14-30	-	-	-	See TJ5-53 in WP 0035 00.
P41-4	A14-31	-	-	-	See TJ6-63 in WP 0035 00.
P41-5	A14-32	-	-	-	See TJ8-68 in WP 0035 01.
P41-7	A14-34	-	-	-	See TJ6-64 in WP 0035 00.
P41-8	A14-35	-	-	-	See TJ6-65 in WP 0035 00.
P41-9	A14-36	-	-	-	See TJ8-52 in WP 0035 01.
P41-10	A14-37	-	-	-	See TJ8-53 in WP 0035 01.
P41-11	A14-38	-	-	-	See TJ8-54 in WP 0035 01.
P41-12	A14-39	-	-	-	See TJ8-55 in WP 0035 01.
P41-13	A14-40	-	-	-	See TJ8-58 in WP 0035 01.
P41-14	A14-41	-	-	-	See TJ8-59 in WP 0035 01.
P41-15	A14-42	-	-	-	See TJ8-60 in WP 0035 01.
P41-16	A14-43	-	-	-	See TJ8-61 in WP 0035 01.
P41-17	A14-44	-	-	-	See C9(+)E3 in this WP.
P41-19	A14-73	282	P51-13	A22-89	-
P41-20	A14-74	-	-	-	See TJ6-79 in WP 0035 00.
P41-23	A14-77	-	-	-	See TJ6-69 in WP 0035 00.
P41-24	A14-78	-	-	-	See TJ6-70 in WP 0035 00.
P41-25	A14-79	-	-	-	See TJ8-57 in WP 0035 01.
P41-26	A14-80	-	-	-	See TJ8-117 in WP 0035 01.
P41-27	A14-81	-	-	-	See TJ8-56 in WP 0035 01.
P41-28	A14-82	-	-	-	See TJ8-66 in WP 0035 01.
P41-29	A14-83	-	-	-	See TJ6-62 in WP 0035 00.
P41-30	A14-84	-	-	-	See TJ6-66 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P41-31	A14-85	-	-	-	See TJ8-62 in WP 0035 01.
P41-32	A14-86	-	-	-	See TJ8-63 in WP 0035 01.
P41-33	A14-87	-	-	-	See J97-21 in this WP.
P41-34	A14-88	-	-	-	See TJ8-65 in WP 0035 01.
P41-35	A14-89	-	-	-	See TJ4-J in WP 0035 00.
P42-3	A15-30	-	-	-	See TJ4-P in WP 0035 00.
P42-4	A15-31	-	-	-	See TJ4-R in WP 0035 00.
P42-5	A15-32	-	-	-	See TJ4-S in WP 0035 00.
P42-6	A15-33	-	-	-	See TJ5-22 in WP 0035 00.
P42-7	A15-34	-	-	-	See TJ5-23 in WP 0035 00.
P42-8	A15-35	-	-	-	See TJ5-24 in WP 0035 00.
P42-9	A15-36	-	-	-	See TJ5-25 in WP 0035 00.
P42-10	A15-37	302	P52-6	A22-6	-
P42-11	A15-38	-	-	-	See TJ6-81 in WP 0035 00.
P42-12	A15-39	-	-	-	See TJ5-60 in WP 0035 00.
P42-14	A15-41	-	-	-	See TJ4-J in WP 0035 00.
P42-15	A15-42	-	-	-	See TJ5-18 in WP 0035 00.
P42-16	A15-43	-	-	-	See TJ6-83 in WP 0035 00.
P42-17	A15-44	-	-	-	See TJ6-125 in WP 0035 00.
P42-18	A15-45	-	-	-	See TJ5-61 in WP 0035 00.
P42-19	A15-73	-	-	-	See C9(+)E3 in this WP.
P42-20	A15-74	-	-	-	See TJ4-J in WP 0035 00.
P42-21	A15-75	-	-	-	See TJ4-P in WP 0035 00.
P42-22	A15-76	-	-	-	See TJ4-R in WP 0035 00.
P42-23	A15-77	-	-	-	See TJ4-S in WP 0035 00.
P42-24	A15-78	-	-	-	See TJ5-22 in WP 0035 00.
P42-25	A15-79	-	-	-	See TJ5-23 in WP 0035 00.
P42-26	A 15-80	-	-	-	See TJ5-24 in WP 0035 00.
P42-27	A15-81	-	-	-	See TJ5-25 in WP 0035 00.
P42-29	A15-83	-	-	-	See TJ6-81 in WP 0035 00.
P42-30	A15-84	-	-	-	See TJ5-60 in WP 0035 00.
P43-3	A16-30	-	-	-	See TJ5-90 in WP 0035 00.
P43-4	A16-31	-	-	-	See TJ5-91 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P43-6	A16-33	-	-	-	See TJ7-63 in WP 0035 01.
P43-7	A16-34	-	-	-	See TJ5-89 in WP 0035 00.
P43-8	A16-35	-	-	-	See TJ7-65 in WP 0035 01.
P43-9	A16-36	-	-	-	See TJ5-88 in WP 0035 00.
P43-10	A16-37	-	-	-	See TJ8-87 in WP 0035 01.
P43-11	A16-38	-	-	-	See TJ8-88 in WP 0035 01.
P43-12	A16-39	-	-	-	See TJ7-67 in WP 0035 01.
P43-13	A16-40	-	-	-	See TJ8-92 in WP 0035 01.
P43-14	A16-41	-	-	-	See TJ8-101 in WP 0035 01.
P43-15	A16-42	-	-	-	See TJ5-86 in WP 0035 00.
P43-16	A 16-43	-	-	-	See TJ7-70 in WP 0035 01.
P43-17	A16-44	-	-	-	See TJ7-71 in WP 0035 01.
P43-18	A16-45	331	TJ7-72	-	-
P43-19	A16-73	-	-	-	See TJ7-73 in WP 0035 01.
P43-20	A16-74	-	-	-	See TJ7-75 in WP 0035 01.
P43-21	A16-75	-	-	-	See TJ7-76 in WP 0035 01.
P43-26	A16-80	-	-	-	See-TJ7-77 in WP 0035 01.
P43-27	A16-81	-	-	-	See TJ8-94 in WP 0035 01.
P43-28	A16-82	-	-	-	See TJ7-66 in WP 0035 01.
P43-29	A16-83	-	-	-	See TJ5-87 in WP 0035 00.
P43-30	A16-84	-	-	-	See TJ8-89 in WP 0035 01.
P43-31	A16-85	-	-	-	See TJ8-90 in WP 0035 01.
P43-32	A16-86	-	-	-	See TJ8-91 in WP 0035 01.
P43-33	A16-87	-	-	-	See TJ7-68 in WP 0035 01.
P43-34	A16-88	-	-	-	See TJ8-93 in WP 0035 01.
P43-35	A16-89	-	-	-	See TJ7-78 in WP 0035 01.
P43-36	A16-90	-	-	-	See TJ8-95 in WP 0035 01.
P44-1	A17-28	-	-	-	See TJ7-108 in WP 0035 01.
P44-2	A17-29	-	-	-	See TJ7-110 in WP 0035 01.
P44-5	A17-32	-	-	-	See TJ7-116 in WP 0035 01.
P44-6	A17-33	-	-	-	See TJ7-111 in WP 0035 01.
P44-7	A17-34	-	-	-	See TJ7-112 in WP 0035 01.
P44-8	A17-35	-	-	-	See TJ7-113 in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P44-10	A17-37	-	-	-	See TJ7-114 in WP 0035 01.
P44-11	A17-38	-	-	-	See TJ7-115 in WP 0035 01.
P44-14	A17-41	-	-	-	See TJ7-95 in WP 0035 01.
P44-15	A17-42	-	-	-	See TJ7-99 in WP 0035 01.
P44-16	A17-43	-	-	-	See TJ7-101 in WP 0035 01.
P44-17	A17-44	-	-	-	See TJ7-97 in WP 0035 01.
P44-18	A17-45	-	-	-	See TJ8-9 in WP 0035 01.
P44-19	A17-73	-	-	-	See TJ7-107 in WP 0035 01.
P44-20	A17-74	-	-	-	See TJ7-109 in WP 0035 01.
P44-23	A17-77	-	-	-	See TJ7-103 in WP 0035 01.
P44-24	A17-78	-	-	-	See TJ7-104 in WP 0035 01.
P44-26	A17-80	-	-	-	See TJ7-117 in WP 0035 01.
P44-32	A17-86	-	-	-	See TJ7-96 in WP 0035 01.
P44-33	A17-87	-	-	-	See TJ7-100 in WP 0035 01.
P44-34	A17-88	-	-	-	See TJ7-102 in WP 0035 01.
P44-35	A17-89	-	-	-	See TJ7-98 in WP 0035 01.
P44-36	A17-90	-	-	-	See TJ8-10 in WP 0035 01.
P45-3	A18-30	-	-	-	See TJ6-14 in WP 0035 00.
P45-4	A18-31	-	-	-	See TJ6-13 in WP 0035 00,
P45-6	A18-33	-	-	-	See TJ5-84 in WP 0035 00.
P45-7	A18-34	-	-	-	See TJ7-118 in WP 0035 01.
P45-8	A18-35	-	-	-	See TJ5-82 in WP 0035 00.
P45-9	A18-36	-	-	-	See TJ7-120 in WP 0035 01.
P45-14	A18-41	-	-	-	See TJ7-121 in WP 0035 01.
P45-15	A18-42	-	-	-	See TJ8-2 in WP 0035 01.
P45-16	A18-43	-	-	-	See TJ5-56 in WP 0035 00.
P45-17	A18-44	-	-	-	See TJ8-86 in WP 0035 01.
P45-18	A18-45	-	-	-	See TJ5-55 in WP 0035 00.
P45-24	A18-78	-	-	-	See TJ5-85 in WP 0035 00.
P45-25	A18-79	-	-	-	See TJ7-119 in WP 0035 01.
P45-26	A18-80	-	-	-	See TJ5-83 in WP 0035 00.
P45-28	A18-82	-	-	-	See TJ8-84 in WP 0035 01.
P45-29	A18-83	-	-	-	See TJ4-b in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P45-31	A18-85	-	-	-	See TJ4-Y in WP 0035 00.
P45-32	A18-86	-	-	-	See TJ8-83 in WP 0035 01.
P45-33	A18-87	-	-	-	See TJ4-a in WP 0035 00.
P45-34	A18-88	-	-	-	See TJ8-85 in WP 0035 01.
P45-35	A18-89	-	-	-	See TJ4-X in WP 0035 00.
P45-36	A18-90	-	-	-	See TJ5-3 in WP 0035 00.
P46-1	A19-39	-	-	-	See TJ4-J in WP 0035 00.
P46-2	A19-40	-	-	-	See TJ5-44 in WP 0035 00.
P46-3	A19-41	-	-	-	See TJ5-45 in WP 0035 00.
P46-4	A19-42	-	-	-	See TJ4-N in WP 0035 00.
P46-6	A19-44	389	P74-38	A33-61	TW24-2
P46-7	A19-45	-	-	-	See TJ5-102 in WP 0035 00.
P46-8	A19-84	-	-	-	See C9(+)E3 in this WP.
P46-9	A19-85	-	-	-	See TJ6-80 in WP 0035 00.
P46-10	A19-86	-	-	-	See TJ6-68 in WP 0035 00.
P46-11	A19-87	-	-	-	See TJ6-67 in WP 0035 00.
P46-12	A19-88	490	P52-20	A22-20	TW51-2
P46-13	A19-89	393	P74-41	A33-64	TW24-2
P47-1	A20-39	-	-	-	See TJ5-54 in WP 0035 00.
P47-5	A20-43	398	P52-11	A22-11	-
P47-6	A20-44	-	-	-	See TJ7-70 in WP 0035 01.
P47-7	A20-45	-	-	-	See TJ6-73 in WP 0035 00.
P47-8	A20-84	-	-	-	See TJ5-54 in WP 0035 00.
P47-12	A20-88	-	-	-	See TJ4-J in WP 0035 00.
P47-13	A20-89	-	-	-	See C9(+)E3 in this WP.
P48-1	A20-1	-	-	-	See TJ4-M in WP 0035 00.
P48-2	A20-2	-	-	-	See TJ4-N in WP 0035 00.
P48-3	A20-3	-	-	-	See TJ8-113 in WP 0035 01
P48-4	A20-4	-	-	-	See TJ5-22 in WP 0035 00.
P48-5	A20-5	-	-	-	See TJ5-23 in WP 0035 00.
P48-6	A20-6	-	-	-	See TJ5-24 in WP 0035 00.
P48-7	A20-7	-	-	-	See TJ5-25 in WP 0035 00.
P48-8	A20-8	-	-	-	See TJ5-65 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P48-9	A20-9	-	-	-	See TJ5-73 in WP 0035 00.
P48-10	A20-10	-	-	-	See TJ5-72 in WP 0035 00.
P48-11	A20-11	-	-	-	See TJ5-71 in WP 0035 00.
P48-12	A20-12	-	-	-	See TJ5-70 in WP 0035 00.
P48-13	A20-13	-	-	-	See TJ5-69 in WP 0035 00.
P48-14	A20-14	-	-	-	See TJ5-68 in WP 0035 00.
P48-15	A20-15	-	-	-	See TJ5-67 in WP 0035 00.
P48-16	A20-16	-	-	-	See TJ5-66 in WP 0035 00.
P48-17	A20-17	-	-	-	See TJ5-74 in WP 0035 00.
P48-18	A20-18	-	-	-	See TJ5-75 in WP 0035 00.
P48-19	A20-19	-	-	-	See TJ5-76 in WP 0035 00.
P48-20	A20-20	-	-	-	See TJ5-62 in WP 0035 00.
P48-21	A20-21	-	-	-	See TJ5-97 in WP 0035 00.
P48-22	A20-22	-	-	-	See TJ5-96 in WP 0035 00.
P48-23	A20-46	-	-	-	See TJ4-M in WP 0035 00.
P48-24	A20-47	-	-	-	See TJ4-N in WP 0035 00.
P48-25	A20-48	-	-	-	See TJ8-113 in WP 0035 01.
P48-26	A20-49	-	-	-	See TJ5-22 in WP 0035 00.
P48-28	A20-51	-	-	-	See TJ5-24 in WP 0035 00.
P48-29	A20-52	-	-	-	See TJ5-25 in WP 0035 00.
P48-30	A20-53	-	-	-	See TJ5-65 in WP 0035 00.
P48-40	A20-63	-	-	-	See TJ5-77 in WP 0035 00.
P48-41	A20-64	-	-	-	See TJ7-31 in WP 0035 01.
P48-42	A20-65	-	-	-	See TJ4-A in WP 0035 00.
P48-43	A20-66	-	-	-	See TJ5-1 in WP 0035 00.
P48-44	A20-67	-	-	-	See UJ2-11 in WP 0035 01.
P49-1	A21-39	-	-	-	See TJ5-80 in WP 0035 00.
P49-2	A21-40	-	-	-	See TJ5-81 in WP 0035 00.
P49-3	A21-41	-	-	-	See TJ6-78 in WP 0035 00.
P49-4	A21-42	-	-	-	See TJ8-3 in WP 0035 01.
P49-5	A21-43	-	-	-	See TJ6-74 in WP 0035 00.
P49-6	A21-44	-	-	-	See TJ7-73 in WP 0035 01.
P49-7	A21-45	-	-	-	See TJ6-76 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P49-8	A21-84	-	-	-	See TJ5-80 in WP 0035 00.
P49-9	A21-85	-	-	-	See TJ5-81 in WP 0035 00.
P49-10	A21-86	-	-	-	See TJ6-78 in WP 0035 00.
P49-11	A21-87	-	-	-	See TJ8-3 in WP 0035 01.
P49-12	A21-88	-	-	-	See TJ4-J in WP 0035 00.
P49-13	A21-89	-	-	-	See C9(+)E3 in this WP.
P50-1	A21-1	-	-	-	See TJ6-95 in WP 0035 00.
P50-2	A21-2	-	-	-	See TJ6-96 in WP 0035 00.
P50-3	A21-3	-	-	-	See TJ6-93 in WP 0035 00.
P50-4	A21-4	-	-	-	See TJ6-97 in WP 0035 00.
P50-5	A21-5	-	-	-	See TJ6-98 in WP 0035 00.
P50-6	A21-6	-	-	-	See TJ6-99 in WP 0035 00.
P50-7	A21-7	-	-	-	See TJ6-100 in WP 0035 00.
P50-8	A21-8	-	-	-	See TJ6-101 in WP 0035 00.
P50-9	A21-9	-	-	-	See TJ5-80 in WP 0035 00.
P50-10	A21-10	-	-	-	See TJ5-81 in WP 0035 00.
P50-11	A21-11	-	-	-	See TJ4-V in WP 0035 00.
P50-12	A21-12	-	-	-	See TJ6-89 in WP 0035 00.
P50-13	A21-13	-	-	-	See TJ6-90 in WP 0035 00.
P50-14	A21-14	-	-	-	See TJ6-91 in WP 0035 00.
P50-15	A21-15	-	-	-	See TJ6-92 in WP 0035 00.
P50-16	A21-16	-	-	-	See TJ6-94 in WP 0035 00.
P50-17	A21-17	-	-	-	See TJ5-79 in WP 0035 00.
P50-18	A21-18	-	-	-	See TJ5-99 in WP 0035 00.
P50-19	A21-19	-	-	-	See TJ6-88 in WP 0035 00.
P50-20	A21-20	-	-	-	See TJ7-79 in WP 0035 01.
P50-21	A21-21	-	-	-	See TJ7-105 in WP 0035 01.
P50-22	A21-22	-	-	-	See TJ6-122 in WP 0035 00.
P50-31	A21-54	-	-	-	See TJ5-80 in WP 0035 00.
P50-32	A21-55	-	-	-	See TJ5-81 in WP 0035 00.
P50-33	A21-56	-	-	-	See TJ4-V in WP 0035 00.
P50-39	A21-62	-	-	-	See TJ5-79 in WP 0035 00.
P50-40	A21-63	-	-	-	See TJ5-78 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P50-41	A21-64	-	-	-	See TJ6-127 in WP 0035 00.
P50-42	A21-65	-	-	-	See TJ6-1 in WP 0035 00.
P50-43	A21-66	-	-	-	See TJ7-1 in WP 0035 01.
P50-44	A21-67	-	-	-	See UJ2-11 in WP 0035 01.
P51-1	A22-39	-	-	-	See TJ4-LL in WP 0035 00.
P51-2	A22-40	-	-	-	See TJ6-68 in WP 0035 00.
P51-3	A22-41	-	-	-	See TJ6-67 in WP 0035 00.
P51-4	A22-42	-	-	-	See TJ6-71 in WP 0035 00.
P51-5	A22-43	-	-	-	See TJ8-70 in WP 0035 01.
P51-6	A22-44	-	-	-	See TJ8-71 in WP 0035 01.
P51-7	A22-45	-	-	-	See TJ4-MM in WP 0035 00.
P51-8	A22-84	-	-	-	See TJ6-68 in WP 0035 00.
P51-9	A22-85	-	-	-	See TJ6-67 in WP 0035 00.
P51-10	A22-86	-	-	-	See TJ6-72 in WP 0035 00.
P51-11	A22-87	-	-	-	See K3-X2 in this WP.
P51-12	A22-88	-	-	-	See K1-X2 in this WP.
P51-13	A22-89	-	-	-	See P41-19 in this WP.
P51-14	A22-90	-	-	-	See K1-X1 in this WP.
P52-1	A22-1	-	-	-	See C9(+)E3 in this WP.
P52-3	A22-3	-	-	-	See TJ4-J in WP 0035 00.
P52-4	A22-4	-	-	-	See TJ4-J in WP 0035 00.
P52-5	A22-5	481	P63-9	A28-85	-
P52-6	A22-6	-	-	-	See P42-10 in this WP.
P52-7	A22-7	482	P63-8	A28-84	-
P52-9	A22-9	-	-	-	See TJ4-H in WP 0035 00.
P52-10	A22-10	-	-	-	See TJ6-7 in WP 0035 00.
P52-11	A22-11	-	-	-	See P47-5 in this WP.
P52-12	A22-12	-	-	-	See TJ5-102 in WP 0035 00.
P52-13	A22-13	-	-	-	See TJ5-102 in WP 0035 00.
P52-14	A22-14	-	-	-	See TJ4-c in WP 0035 00.
P52-15	A22-15	-	-	-	See TJ4-c in WP 0035 00.
P52-16	A22-16	-	-	-	See TJ4-d in WP 0035 00.
P52-17	A22-17	-	-	-	See TJ4-d in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P52-18	A22-18	-	-	-	See TJ4-e in WP 0035 00.
P52-19	A22-19	-	-	-	See TJ4-e in WP 0035 00.
P52-20	A22-20	-	-	-	See P46-12 in this WP.
P52-23	A22-46	-	-	-	See C8-1 in this WP.
P52-24	A22-47	-	-	-	See C9(+)+E3 in this WP.
P52-25	A22-48	-	-	-	See TJ4-J in WP 0035 00.
P52-26	A22-49	-	-	-	See TJ4-J in WP 0035 00.
P52-31	A22-54	-	-	-	See TJ4-H in WP 0035 00.
P52-32	A22-55	-	-	-	See TJ4-J in WP 0035 00.
P52-33	A22-56	908	P86-20	-	-
P86-19	-	1562	P63-6	A28-44	-
P86-41	-	1563	P112-29	A38-52	-
P52-34	A22-57	-	-	-	See TJ5-102 in WP 0035 00.
P52-35	A22-58	-	-	-	See TJ4-c in WP 0035 00.
P52-39	A22-62	-	-	-	See TJ4-e in WP 0035 00.
P52-40	A22-63	-	-	-	See J100-5 in this WP.
P52-42	A22-65	96	TB2-1H	-	TW49-3 (-15V) WP 0004 00, Fig. 2
TB2-1F	-	33	PS1A2-3	-	TW37-3 (-15V) WP 0004 00, Fig. 2
TB2-1G	-	51	TB2-7A	-	(-15V) WP 0004 00, Fig. 2
TB2-1J	-	97	P95-13	-	TW48-3 (-15V) WP 0004 00, Fig. 2
TB2-1K	-	98	P95-3	-	TW47-3 (-15V) WP 0004 00, Fig. 2
TB2-7B	-	119	XDS1(-)	-	TW6-2 (-15V) WP 0004 00, Fig. 2
TB2-7C	-	1538	P103-3	-	TW62-3 (-15V) WP 0004 00, Fig. 2
TB2-7D	-	1542	P103-13	-	TW63-3 (-15V) WP 0004 00, Fig. 2
P52-43	A22-66	-	-	-	See TJ4-J in WP 0035 00.
P52-44	A22-67	93	TB2-1C	-	TW49-3 (+15V) WP 0004 00, Fig. 2
TB2-1A	-	37	PS1A2-7	-	TW37-3 (+15V) WP 0004 00, Fig. 2
TB2-1B	-	20	TB2-7F	-	(+15V) WP 0004 00, Fig. 2
TB2-1D	-	94	P95-1	-	TW47-3 (+15V) WP 0004 00, Fig. 2
TB2-1E	-	95	P95-11	-	TW48-3 (+15V) WP 0004 00, Fig. 2
TB2-7G	-	1539	P103-5	-	TW62-3 (+15V) WP 0004 00, Fig. 2
TB2-7H	-	1541	P103-15	-	TW63-3 (+15V) WP 0004 00, Fig. 2
P53-1	A23-39	-	-	-	See TJ5-21 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P53-2	A23-40	-	-	-	See TJ5-104 in WP 0035 00.
P53-3	A23-41	-	-	-	See TJ7-123 in WP 0035 01.
P53-4	A23-42	-	-	-	See TJ6-12 in WP 0035 00.
P53-5	A23-43	-	-	-	See TJ5-62 in WP 0035 00.
P53-6	A23-44	-	-	-	See TJ5-106 in WP 0035 00.
P53-7	A23-45	-	-	-	See TJ5-62 in WP 0035 00.
P53-8	A23-84	-	-	-	See J97-11 in this WP.
P53-9	A23-85	-	-	-	See TJ5-104 in WP 0035 00.
P53-10	A23-86	-	-	-	See TJ5-106 in WP 0035 00.
P53-11	A23-87	-	-	-	See TJ5-15 in WP 0035 00.
P53-12	A23-88	-	-	-	See TJ5-16 in WP 0035 00.
P53-13	A23-89	-	-	-	See TJ5-17 in WP 0035 00.
P53-14	A23-90	-	-	-	See TJ5-31 in WP 0035 00.
P54-1	A23-1	-	-	-	See TJ5-28 in WP 0035 00.
P54-2	A23-2	-	-	-	See J98-17 in this WP.
P54-3	A23-3	-	-	-	See TJ5-125 in WP 0035 00.
P54-4	A23-4	-	-	-	See TJ5-32 in WP 0035 00.
P54-5	A23-5	-	-	-	See TJ5-33 in WP 0035 00.
P54-6	A23-6	-	-	-	See J98-18 in this WP.
P54-7	A23-7	-	-	-	See TJ8-107 in WP 0035 01.
P54-8	A23-8	-	-	-	See TJ8-106 in WP 0035 01.
P54-9	A23-9	-	-	-	See TJ4-KK in WP 0035 00.
P54-10	A23-10	-	-	-	See J98-6 in this WP.
P54-11	A23-11	-	-	-	See TJ6-112 in WP 0035 00.
P54-12	A23-12	-	-	-	See TJ8-97 in WP 0035 01.
P54-13	A23-13	-	-	-	See J98-16 in this WP.
P54-14	A23-14	-	-	-	See J98-2 in this WP.
P54-15	A23-15	-	-	-	See TJ5-63 in WP 0035 00.
P54-16	A23-16	-	-	-	See TJ8-109 in WP 0035 01.
P54-17	A23-17	-	-	-	See J98-3 in this WP.
P54-18	A23-18	-	-	-	See TJ4-JJ in WP 0035 00.
P54-19	A23-19	-	-	-	See TJ4-B in WP 0035 00.
P54-20	A23-20	-	-	-	See TJ7-122 in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P54-21	A23-21	-	-	-	See TJ5-18 in WP 0035 00.
P54-22	A23-22	-	-	-	See TJ6-105 in WP 0035 00.
P54-23	A23-46	-	-	-	See TJ4-J in WP 0035 00.
P54-25	A23-48	-	-	-	See C9(+)E3 in this WP.
P54-27	A23-50	-	-	-	See TJ8-108 in WP 0035 01.
P54-28	A23-51	-	-	-	See TJ5-101 in WP 0035 00.
P54-29	A23-52	-	-	-	See TJ5-20 in WP 0035 00.
P54-30	A23-53	-	-	-	See TJ5-100 in WP 0035 00.
P54-31	A23-54	-	-	-	See TJ8-102 in WP 0035 01.
P54-32	A23-55	-	-	-	See TJ8-103 in WP 0035 01.
P54-33	A23-56	-	-	-	See TJ5-29 in WP 0035 00.
P54-34	A23-57	-	-	-	See TJ6-108 in WP 0035 00.
P54-35	A23-58	-	-	-	See TJ5-32 in WP 0035 00.
P54-36	A23-59	-	-	-	See TJ6-109 in WP 0035 00.
P54-37	A23-60	-	-	-	See TJ8-109 in WP 0035 01.
P54-38	A23-61	-	-	-	See TJ8-109 in WP 0035 01.
P54-39	A23-62	-	-	-	See TJ6-113 in WP 0035 00.
P54-41	A23-64	-	-	-	See TJ5-22 in WP 0035 00.
P54-42	A23-65	-	-	-	See TJ5-22 in WP 0035 00.
P54-43	A23-66	-	-	-	See TJ5-18 in WP 0035 00.
P54-44	A23-67	-	-	-	See TJ5-18 in WP 0035 00.
P55-1	A24-39	-	-	-	See TJ10-t in WP 0035 01.
P55-2	A24-40	-	-	-	See TJ10-LL in WP 0035 01.
P55-3	A24-41	-	-	-	See TJ10-KK in WP 0035 01.
P55-4	A24-42	-	-	-	See TJ10-a in WP 0035 01.
P55-5	A24-43	-	-	-	See TJ10-t in WP 0035 01.
P55-6	A24-44	-	-	-	See TJ10-r in WP 0035 01.
P55-7	A24-45	-	-	-	See TJ10-q in WP 0035 01.
P55-9	A24-85	-	-	-	See TJ10-LL in WP 0035 01.
P55-10	A24-86	-	-	-	See TJ10-KK in WP 0035 01.
P55-11	A24-87	-	-	-	See TJ10-s in WP 0035 01.
P55-12	A24-88	-	-	-	See TJ10-w in WP 0035 01.
P55-13	A24-89	-	-	-	See TJ10-v in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P55-14	A24-90	-	-	-	See TJ10-Z in WP 0035 01.
P56-1	A24-1	-	-	-	See TJ8-118 in WP 0035 01.
P56-2	A24-2	-	-	-	See TJ10-EE in WP 0035 01.
P56-3	A24-3	-	-	-	See TJ10-GG in WP 0035 01.
P56-4	A24-4	1228	P101-B	-	SH80-2, DR20-10
P56-5	A24-5	-	-	-	See TJ10-CC in WP 0035 01.
P56-6	A24-6	-	-	-	See TJ8-2 in WP 0035 01.
P56-7	A24-7	-	-	-	See TJ4-J in WP 0035 00.
P56-8	A24-8	-	-	-	See J98-19 in this WP.
P56-9	A24-9	-	-	-	See TJ4-H in WP 0035 00.
P56-10	A24-10	1230	P101-E	-	SH81-2
P56-11	A24-11	1231	P101-D	-	SH81-2
P56-12	A24-12	-	-	-	See TJ10-DD in WP 0035 01.
P56-13	A24-13	-	-	-	See J98-8 in this WP.
P56-15	A24-15	-	-	-	See TJ10-j in WP 0035 01.
P56-16	A24-16	-	-	-	See C9(+)E3 in this WP
P56-20	A24-20	1417	TJ10-j	-	TW53-2
P56-42	A24-65	1112	P65-10	A29-86	-
P56-22	A24-22	1229	P101-A	-	SH80-2, DR20-10
P56-23	A24-46	-	-	-	See TJ10-EE in WP 0035 01.
P56-24	A24-47	-	-	-	See TJ10-FF in WP 0035 01.
P56-25	A24-48	-	-	-	See TJ8-118 in WP 0035 01.
P56-26	A24-49	1433	P63-10	A28-86	SH86-1, DR20-10
P56-27	A24-50	1185	P66-34	A29-57	-
P56-28	A24-51	-	-	-	See TJ4-J in WP 0035 00.
P56-29	A24-52	1187	P66-33	A29-56	-
P56-30	A24-53	1183	P66-36	A29-59	-
P56-31	A24-54	1180	P66-32	A29-55	-
P56-31	A24-54	-	-	-	See P56-30 in this WP.
P56-38	A24-61	-	-	-	See TJ10-w in WP 0035 01.
P56-39	A24-62	-	-	-	See TJ10-r in WP 0035 01.
P56-42	A24-65	-	-	-	See P56-20 in this WP.
P56-43	A24-66	-	-	-	See TJ10-MM in WP 0035 01.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P56-44	A24-67	-	-	-	See TJ10-MM in WP 0035 01.
P57-1	A25-39	-	-	-	See TJ5-15 in WP 0035 00.
P57-2	A25-40	-	-	-	See TJ5-14 in WP 0035 00.
P57-3	A25-41	-	-	-	See TJ5-13 in WP 0035 00.
P57-4	A25-42	-	-	-	See TJ5-10 in WP 0035 00.
P57-5	A25-43	-	-	-	See TJ5-9 in WP 0035 00.
P57-6	A25-44	-	-	-	See TJ5-8 in WP 0035 00.
P57-7	A25-45	-	-	-	See TJ5-7 in WP 0035 00.
P57-8	A25-84	-	-	-	See TJ5-16 in WP 0035 00.
P57-9	A25-85	-	-	-	See TJ5-12 in WP 0035 00.
P57-10	A25-86	-	-	-	See TJ5-11 in WP 0035 00.
P57-11	A25-87	-	-	-	See TJ8-118 in WP 0035 01.
P57-12	A25-88	-	-	-	See TJ5-6 in WP 0035 00.
P57-13	A25-89	-	-	-	See TJ5-5 in WP 0035 00.
P57-14	A25-90	-	-	-	See TJ9-52 in WP 0035 01.
P58-1	A25-1	-	-	-	See TJ6-28 in WP 0035 00.
P58-2	A25-2	-	-	-	See TJ6-30 in WP 0035 00.
P58-3	A25-3	-	-	-	See TJ5-128 in WP 0035 00.
P58-4	A25-4	-	-	-	See TJ6-27 in WP 0035 00.
P58-5	A25-5	-	-	-	See TJ6-23 in WP 0035 00.
P58-6	A25-6	-	-	-	See TJ6-25 in WP 0035 00.
P58-7	A25-7	-	-	-	See TJ6-16 in WP 0035 00.
P58-8	A25-8	-	-	-	See TJ4-M in WP 0035 00.
P58-9	A25-9	-	-	-	See TJ4-N in WP 0035 00.
P58-10	A25-10	-	-	-	See TJ5-96 in WP 0035 00.
P58-11	A25-11	-	-	-	See TJ5-97 in WP 0035 00.
P58-12	A25-12	-	-	-	See TJ5-81 in WP 0035 00.
P58-13	A25-13	-	-	-	See TJ5-31 in WP 0035 00.
P58-14	A25-14	-	-	-	See TJ5-33 in WP 0035 00.
P58-15	A25-15	-	-	-	See TJ5-25 in WP 0035 00.
P58-16	A25-16	-	-	-	See TJ4-B in WP 0035 00.
P58-17	A25-17	-	-	-	See TJ5-28 in WP 0035 00.
P58-18	A25-18	-	-	-	See TJ5-29 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P58-19	A25-19	-	-	-	See TJ5-24 in WP 0035 00.
P58-20	A25-20	-	-	-	See TJ4-X in WP 0035 00.
P58-21	A25-21	-	-	-	See TJ5-20 in WP 0035 00.
P58-22	A25-22	-	-	-	See TJ5-22 in WP 0035 00.
P58-23	A25-46	-	-	-	See TJ6-29 in WP 0035 00.
P58-24	A25-47	-	-	-	See TJ6-31 in WP 0035 00.
P58-25	A25-48	-	-	-	See TJ6-26 in WP 0035 00.
P58-26	A25-49	-	-	-	See TJ6-22 in WP 0035 00.
P58-27	A25-50	-	-	-	See TJ6-24 in WP 0035 00.
P58-28	A25-51	-	-	-	See TJ4-HH in WP 0035 00.
P58-29	A25-52	-	-	-	See TJ4-M in WP 0035 00.
P58-30	A25-53	-	-	-	See TJ6-32 in WP 0035 00.
P58-31	A25-54	-	-	-	See TJ4-N in WP 0035 00.
P58-32	A25-55	-	-	-	See TJ5-98 in WP 0035 00.
P58-33	A25-56	-	-	-	See TJ4-a in WP 0035 00.
P58-34	A25-57	-	-	-	See TJ5-82 in WP 0035 00.
P58-35	A25-58	-	-	-	See TJ5-32 in WP 0035 00.
P58-36	A25-59	-	-	-	See TJ5-79 in WP 0035 00.
P58-37	A25-60	-	-	-	See TJ5-17 in WP 0035 00.
P58-38	A25-61	-	-	-	See TJ4-D in WP 0035 00.
P58-39	A25-62	-	-	-	See TJ5-30 in WP 0035 00.
P58-40	A25-63	-	-	-	See TJ5-99 in WP 0035 00.
P58-41	A25-64	-	-	-	See TJ5-23 in WP 0035 00.
P58-42	A25-65	-	-	-	See TJ5-19 in WP 0035 00.
P58-43	A25-66	-	-	-	See TJ5-21 in WP 0035 00.
P58-44	A25-67	-	-	-	See TJ5-18 in WP 0035 00.
P59-1	A26-39	-	-	-	See TJ6-44 in WP 0035 00.
P59-2	A26-40	-	-	-	See TJ6-43 in WP 0035 00.
P59-3	A26-41	-	-	-	See TJ6-42 in WP 0035 00.
P59-4	A26-42	-	-	-	See TJ6-41 in WP 0035 00.
P59-5	A26-43	-	-	-	See TJ6-40 in WP 0035 00.
P59-6	A26-44	-	-	-	See TJ6-39 in WP 0035 00.
P59-7	A26-45	-	-	-	See TJ6-38 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P59-8	A26-84	-	-	-	See TJ6-37 in WP 0035 00.
P59-9	A26-85	-	-	-	See TJ6-36 in WP 0035 00.
P59-10	A26-86	-	-	-	See TJ6-35 in WP 0035 00.
P59-11	A26-87	-	-	-	See TJ6-34 in WP 0035 00.
P59-12	A26-88	-	-	-	See TJ6-33 in WP 0035 00.
P59-13	A26-89	-	-	-	See TJ6-17 in WP 0035 00.
P59-14	A26-90	-	-	-	See TJ5-65 in WP 0035 00.
P60-1	A26-1	-	-	-	See TJ6-45 in WP 0035 00.
P60-2	A26-2	-	-	-	See TJ7-7 in WP 0035 01.
P60-3	A26-3	-	-	-	See TJ7-8 in WP 0035 01.
P60-4	A26-4	-	-	-	See TJ7-9 in WP 0035 01.
P60-5	A26-5	-	-	-	See TJ7-10 in WP 0035 01.
P60-6	A26-6	-	-	-	See TJ7-11 in WP 0035 01.
P60-7	A26-7	-	-	-	See TJ6-20 in WP 0035 00.
P60-9	A26-9	-	-	-	See TJ6-79 in WP 0035 00.
P60-10	A26-10	-	-	-	See TJ6-89 in WP 0035 00.
P60-11	A26-11	-	-	-	See TJ6-128 in WP 0035 00.
P60-12	A26-12	-	-	-	See TJ7-12 in WP 0035 01.
P60-13	A26-13	-	-	-	See TJ7-13 in WP 0035 01.
P60-14	A26-14	-	-	-	See TJ7-14 in WP 0035 01.
P60-15	A26-15	-	-	-	See TJ7-15 in WP 0035 01.
P60-16	A26-16	-	-	-	See TJ6-56 in WP 0035 00.
P60-17	A26-17	-	-	-	See TJ6-57 in WP 0035 00.
P60-18	A26-18	-	-	-	See TJ6-19 in WP 0035 00.
P60-19	A26-19	-	-	-	See TJ6-58 in WP 0035 00.
P60-20	A26-20	-	-	-	See TJ6-59 in WP 0035 00.
P60-21	A26-21	-	-	-	See TJ10-e in WP 0035 01.
P60-22	A26-22	-	-	-	See TJ6-61 in WP 0035 00.
P60-23	A26-46	-	-	-	See TJ6-90 in WP 0035 00.
P60-24	A26-47	-	-	-	See TJ4-U in WP 0035 00.
P60-25	A26-48	-	-	-	See TJ6-65 in WP 0035 00.
P60-26	A26-49	-	-	-	See TJ6-78 in WP 0035 00.
P60-27	A26-50	-	-	-	See TJ6-64 in WP 0035 00.

OIU WIRING LISTS - PART THREE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P60-28	A26-51	-	-	-	See TJ5-68 in WP 0035 00.
P60-29	A26-52	-	-	-	See TJ5-62 in WP 0035 00.
P60-30	A26-53	-	-	-	See TJ9-53 in WP 0035 01.
P60-32	A26-55	-	-	-	See TJ7-16 in WP 0035 01.
P60-33	A26-56	-	-	-	See TJ6-62 in WP 0035 00.
P60-34	A26-57	-	-	-	See TJ6-88 in WP 0035 00.
P60-35	A26-58	-	-	-	See TJ5-119 in WP 0035 00.
P60-36	A26-59	-	-	-	See TJ5-120 in WP 0035 00.
P60-37	A26-60	-	-	-	See TJ5-66 in WP 0035 00.
P60-38	A26-61	-	-	-	See TJ5-121 in WP 0035 00.
P60-39	A26-62	-	-	-	See TJ5-122 in WP 0035 00.
P60-40	A26-63	-	-	-	See TJ5-67 in WP 0035 00.
P60-41	A26-64	-	-	-	See TJ6-63 in WP 0035 00.
P60-42	A26-65	-	-	-	See TJ5-123 in WP 0035 00.
P60-43	A26-66	-	-	-	See TJ6-91 in WP 0035 00.
P60-44	A26-67	-	-	-	See TJ6-18 in WP 0035 00.
P61-1	A27-39	-	-	-	See TJ8-39 in WP 0035 01.
P61-2	A27-40	-	-	-	See TJ7-79 in WP 0035 01.
P61-3	A27-41	-	-	-	See TJ7-67 in WP 0035 01.
P61-4	A27-42	-	-	-	See TJ7-73 in WP 0035 01.
P61-5	A27-43	-	-	-	See TJ7-70 in WP 0035 01.
P61-6	A27-44	-	-	-	See TJ6-117 in WP 0035 00.
P61-7	A27-45	-	-	-	See TJ6-116 in WP 0035 00.
P61-8	A27-84	-	-	-	See TJ6-115 in WP 0035 00.
P61-9	A27-85	-	-	-	See TJ6-114 in WP 0035 00.
P61-10	A27-86	-	-	-	See TJ6-113 in WP 0035 00.
P61-11	A27-87	-	-	-	See TJ6-112 in WP 0035 00.
P61-12	A27-88	-	-	-	See TJ6-92 in WP 0035 00.
P61-13	A27-89	-	-	-	See TJ6-21 in WP 0035 00.
P61-14	A27-90	-	-	-	See TJ5-69 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL)

0036 01

Table 1. OIU Connector Wiring List (Continued)

NOTE

Wire description terms used in the “Remarks” column are defined in the List of Abbreviations (WP 0001 00-2).

Table 1 continues in all five OIU Wiring List Work Packages.

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P62-1	A27-1	-	-	-	See TJ9-54 in WP 0035 01.
P62-2	A27-2	1213	P70-38	A31-61	-
P62-3	A27-3	-	-	-	See TJ8-11 in WP 0035 01.
P62-4	A27-4	-	-	-	See TJ8-12 in WP 0035 01.
P62-5	A27-5	-	-	-	See TJ6-7 in WP 0035 00.
P62-6	A27-6	1214	P70-26	A31-49	-
P62-7	A27-7	-	-	-	See TJ8-15 in WP 0035 01.
P62-8	A27-8	-	-	-	See TJ8-70 in WP 0035 01.
P62-9	A27-9	-	-	-	See TJ4-V in WP 0035 00.
P62-10	A27-10	-	-	-	See TJ6-59 in WP 0035 00.
P62-11	A27-11	-	-	-	See TJ8-16 in WP 0035 01.
P62-12	A27-12	-	-	-	See TJ8-17 in WP 0035 01.
P62-13	A27-13	-	-	-	See TJ8-18 in WP 0035 01.
P62-14	A27-14	-	-	-	See TJ8-19 in WP 0035 01.
P62-15	A27-15	-	-	-	See TJ8-20 in WP 0035 01.
P62-16	A27-16	-	-	-	See TJ8-21 in WP 0035 01.
P62-17	A27-17	-	-	-	See TJ8-22 in WP 0035 01.
P62-18	A27-18	-	-	-	See TJ8-23 in WP 0035 01.
P62-19	A27-19	-	-	-	See TJ8-24 in WP 0035 01.
P62-20	A27-20	-	-	-	See TJ8-25 in WP 0035 01.
P62-21	A27-21	-	-	-	See TJ8-26 in WP 0035 01.
P62-22	A27-22	-	-	-	See TJ8-27 in WP 0035 01.
P62-23	A27-46	-	-	-	See TJ8-28 in WP 0035 01.
P62-24	A27-47	-	-	-	See TJ8-29 in WP 0035 01.
P62-25	A27-48	-	-	-	See TJ8-30 in WP 0035 01.
P62-26	A27-49	-	-	-	See TJ6-95 in WP 0035 00.
P62-27	A27-50	-	-	-	See TJ7-128 in WP 0035 01.
P62-28	A27-51	-	-	-	See TJ5-72 in WP 0035 00.
P62-30	A27-53	-	-	-	See TJ5-89 in WP 0035 00.
P62-31	A27-54	-	-	-	See TJ4-V in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

0036 01

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P62-32	A27-55	-	-	-	See TJ9-55 in WP 0035 01.
P62-33	A27-56	-	-	-	See TJ8-31 in WP 0035 01.
P62-34	A27-57	-	-	-	See TJ8-32 in WP 0035 01.
P62-35	A27-58	-	-	-	See TJ8-33 in WP 0035 01.
P62-36	A27-59	-	-	-	See TJ8-34 in WP 0035 01.
P62-37	A27-60	-	-	-	See TJ5-70 in WP 0035 00.
P62-38	A27-61	-	-	-	See TJ8-35 in WP 0035 01.
P62-39	A27-62	-	-	-	See TJ6-94 in WP 0035 00.
P62-40	A27-63	-	-	-	See TJ5-71 in WP 0035 00.
P62-41	A27-64	-	-	-	See TJ8-36 in WP 0035 01.
P62-42	A27-65	-	-	-	See TJ8-37 in WP 0035 01.
P62-43	A27-66	-	-	-	See TJ8-38 in WP 0035 01.
P62-44	A27-67	-	-	-	See TJ6-93 in WP 0035 00.
P63-1	A28-39	-	-	-	See TJ8-128 in WP 0035 01.
P63-2	A28-40	-	-	-	See TJ8-114 in WP 0035 01.
P63-3	A28-41	-	-	-	See TJ6-96 in WP 0035 00.
P63-4	A28-42	-	-	-	See TJ5-80 in WP 0035 00.
P63-5	A28-43	-	-	-	See TJ5-73 in WP 0035 00.
P63-6	A28-44	-	-	-	See P52-33 in WP 0036 00.
P63-7	A28-45	-	-	-	See TJ4-H in WP 0035 00.
P63-8	A28-84	-	-	-	See P52-7 in WP 0036 00.
P63-9	A28-85	-	-	-	See P52-5 in WP 0036 00.
P63-10	A28-86	-	-	-	See P56-26 in WP 0036 00.
P63-11	A28-87	-	-	-	See TJ4-PP in WP 0035 00.
P63-12	A28-88	-	-	-	See TJ8-14 in WP 0035 01.
P63-13	A28-89	-	-	-	See TJ8-66 in WP 0035 01.
P63-14	A28-90	-	-	-	See C8-1 in WP 0036 00.
P64-1	A28-1	-	-	-	See TJ8-40 in WP 0035 01.
P64-2	A28-2	-	-	-	See TJ8-41 in WP 0035 01.
P64-3	A28-3	-	-	-	See TJ8-42 in WP 0035 01.
P64-4	A28-4	-	-	-	See TJ6-100 in WP 0035 00.
P64-5	A28-5	-	-	-	See TJ8-43 in WP 0035 01.
P64-6	A28-6	-	-	-	See TJ8-44 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

0036 01

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P64-7	A28-7	-	-	-	See TJ8-45 in WP 0035 01.
P64-8	A28-8	-	-	-	See TJ8-71 in WP 0035 01.
P64-9	A28-9	-	-	-	See TJ5-125 in WP 0035 00.
P64-10	A28-10	-	-	-	See TJ5-34 in WP 0035 00.
P64-11	A28-11	-	-	-	See-TJ6-101 in WP 0035 00.
P64-12	A28-12	-	-	-	See TJ8-46 in WP 0035 01.
P64-13	A28-13	-	-	-	See TJ8-47 in WP 0035 01.
P64-14	A28-14	-	-	-	See TJ8-52 in WP 0035 01.
P64-15	A28-15	-	-	-	See TJ8-53 in WP 0035 01.
P64-16	A28-16	-	-	-	See TJ8-54 in WP 0035 01.
P64-17	A28-17	-	-	-	See TJ8-55 in WP 0035 01.
P64-18	A28-18	-	-	-	See TJ8-56 in WP 0035 01.
P64-19	A28-19	-	-	-	See TJ8-57 in WP 0035 01.
P64-20	A28-20	-	-	-	See TJ8-58 in WP 0035 01.
P64-21	A28-21	-	-	-	See TJ8-59 in WP 0035 01.
P64-22	A28-22	-	-	-	See TJ8-60 in WP 0035 01.
P64-23	A28-46	-	-	-	See TJ8-61 in WP 0035 01.
P64-24	A28-47	-	-	-	See TJ8-62 in WP 0035 01.
P64-25	A28-48	-	-	-	See TJ8-63 in WP 0035 01.
P64-26	A28-49	-	-	-	See TJ6-99 in WP 0035 00.
P64-27	A28-50	-	-	-	See TJ6-124 in WP 0035 00.
P64-28	A28-51	-	-	-	See TJ5-76 in WP 0035 00.
P64-30	A28-53	-	-	-	See TJ8-113 in WP 0035 01.
P64-32	A28-55	-	-	-	See TJ5-35 in WP 0035 00.
P64-33	A28-56	-	-	-	See TJ5-44 in WP 0035 00.
P64-34	A28-57	-	-	-	See TJ5-45 in WP 0035 00.
P64-35	A28-58	-	-	-	See C9(+)E3 in WP 0036 00.
P64-36	A28-59	-	-	-	See TJ8-93 in WP 0035 01.
P64-37	A28-60	-	-	-	See TJ5-74 in WP 0035 00.
P64-38	A28-61	-	-	-	See TJ8-94 in WP 0035 01.
P64-39	A28-62	-	-	-	See TJ6-98 in WP 0035 00.
P64-40	A28-63	-	-	-	See TJ5-75 in WP 0035 00.
P64-41	A28-64	-	-	-	See TJ8-95 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P64-42	A28-65	-	-	-	See TJ6-66 in WP 0035 00.
P64-43	A28-66	-	-	-	See TJ9-56 in WP 0035 01.
P64-44	A28-67	-	-	-	See TJ6-97 in WP 0035 00.
P65-1	A29-39	-	-	-	See TJ10-r in WP 0035 01.
P65-2	A29-40	-	-	-	See TJ10-t in WP 0035 01.
P65-3	A29-41	-	-	-	See TJ4-DD in WP 0035 00.
P65-4	A29-42	-	-	-	See-TJ10-w in WP 0035 01.
P65-5	A29-43	-	-	-	See TJ10-X in WP 0035 01.
P65-6	A29-44	-	-	-	See TJ10-u in WP 0035 01.
P65-7	A29-45	-	-	-	See TJ10-W in WP 0035 01.
P65-8	A29-84	-	-	-	See TJ10-V in WP 0035 01.
P65-9	A29-85	-	-	-	See TJ10-U in WP 0035 01.
P65-10	A29-86	-	-	-	See P56-20 in WP 0036 00.
P65-11	A29-87	-	-	-	See TJ10-h in WP 0035 01.
P65-12	A29-88	-	-	-	See TJ10-g in WP 0035 01.
P65-13	A29-89	-	-	-	See TJ10-f in WP 0035 01.
P65-14	A29-90	1216	P70-37	A31-60	-
P66-1	A29-1	-	-	-	See TJ5-41 in WP 0035 00.
P66-2	A29-2	-	-	-	See TJ5-42 in WP 0035 00.
P66-3	A29-3	-	-	-	See TJ5-43 in WP 0035 00.
P66-4	A29-4	-	-	-	See TJ8-3 in WP 0035 01.
P66-5	A29-5	-	-	-	See TJ8-65 in WP 0035 01.
P66-6	A29-6	-	-	-	See TJ7-105 in WP 0035 01.
P66-7	A29-7	-	-	-	See TJ4-NN in WP 0035 00.
P66-8	A29-8	-	-	-	See TJ6-122 in WP 0035 00.
P66-9	A29-9	-	-	-	See TJ6-127 in WP 0035 00.
P66-10	A29-10	-	-	-	See TJ7-31 in WP 0035 01.
P66-11	A29-11	-	-	-	See TJ6-15 in WP 0035 00.
P66-12	A29-12	-	-	-	See TJ7-30 in WP 0035 01.
P66-13	A29-13	-	-	-	See TJ5-62 in WP 0035 00.
P66-14	A29-14	-	-	-	See TJ5-63 in WP 0035 00.
P66-15	A29-15	-	-	-	See TJ5-64 in WP 0035 00.
P66-16	A29-16	-	-	-	See TJ8-102 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P66-17	A29-17	-	-	-	See TJ8-103 in WP 0035 01.
P66-18	A29-18	-	-	-	See TJ8-104 in WP 0035 01.
P66-19	A29-19	-	-	-	See TJ8-105 in WP 0035 01.
P66-20	A29-20	-	-	-	See TJ8-106 in WP 0035 01.
P66-21	A29-21	-	-	-	See TJ8-107 in WP 0035 01.
P66-22	A29-22	-	-	-	See TJ4-R in WP 0035 00.
P66-23	A29-46	-	-	-	See TJ8-108 in WP 0035 01.
P66-24	A29-47	-	-	-	See TJ4-S in WP 0035 00.
P66-25	A29-48	-	-	-	See TJ8-109 in WP 0035 01.
P66-26	A29-49	-	-	-	See TJ6-81 in WP 0035 00.
P66-27	A29-50	-	-	-	See TJ5-84 in WP 0035 00.
P66-28	A29-51	-	-	-	See TJ5-115 in WP 0035 00.
P66-29	A29-52	-	-	-	See TJ6-122 in WP 0035 00.
P66-30	A29-53	1215	P70-36	A31-59	-
P66-31	A29-54	-	-	-	See TJ6-127 in WP 0035 00.
P66-32	A29-55	-	-	-	See P56-30 in WP 0036 00.
P66-33	A29-56	-	-	-	See P56-29 in WP 0036 00.
P66-34	A29-57	-	-	-	See P56-27 in WP 0036 00.
P66-35	A29-58	-	-	-	See TJ10-HH in WP 0035 01.
P66-36	A29-59	-	-	-	See P56-30 in WP 0036 00.
P66-37	A29-60	-	-	-	See TJ10-KK in WP 0035 01.
P66-38	A29-61	-	-	-	See TJ10-LL in WP 0035 01.
P66-39	A29-62	-	-	-	See TJ10-MM in WP 0035 01.
P66-40	A29-63	-	-	-	See TJ10-AA in WP 0035 01.
P66-41	A29-64	-	-	-	See TJ10-BB in WP 0035 01.
P66-42	A29-65	-	-	-	See TJ7-123 in WP 0035 01.
P66-43	A29-66	-	-	-	See TJ7-122 in WP 0035 01.
P66-44	A29-67	-	-	-	See TJ4-h in WP 0035 00.
P67-1	A30-39	-	-	-	See UJ2-37 in WP 0035 01.
P67-2	A30-40	-	-	-	See TJ10-J in WP 0035 01.
P67-3	A30-41	-	-	-	See TJ10-b in WP 0035 01.
P67-4	A30-42	-	-	-	See TJ10-H in WP 0035 01.
P67-5	A30-43	-	-	-	See TJ5-127 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P67-6	A30-44	-	-	-	See TJ9-63 in WP 0035 01.
P67-7	A30-45	-	-	-	See TJ7-84 in WP 0035 01.
P67-8	A30-84	-	-	-	See TJ9-95 in WP 0035 01.
P67-9	A30-85	-	-	-	See TJ10-y in WP 0035 01.
P67-10	A30-86	-	-	-	See TJ10-d in WP 0035 01.
P67-11	A30-87	-	-	-	See TJ4-F in WP 0035 00.
P67-12	A30-88	-	-	-	See TJ4-W in WP 0035 00.
P67-13	A30-89	-	-	-	See TJ7-85 in WP 0035 01.
P67-14	A30-90	1614	P113-1	A38-39	-
P113-2	A38-40	1578	P96-10	-	-
P68-1	A30-1	-	-	-	See TJ9-32 in WP 0035 01.
P68-2	A30-2	-	-	-	See TJ9-33 in WP 0035 01.
P68-3	A30-3	-	-	-	See TJ9-34 in WP 0035 01.
P68-4	A30-4	-	-	-	See TJ9-35 in WP 0035 01.
P68-5	A30-5	-	-	-	See TJ7-88 in WP 0035 01.
P68-6	A30-6	-	-	-	See TJ7-89 in WP 0035 01.
P68-7	A30-7	-	-	-	See TJ7-90 in WP 0035 01.
P68-8	A30-8	-	-	-	See TJ9-29 in WP 0035 01.
P68-9	A30-9	-	-	-	See TJ9-57 in WP 0035 01.
P68-10	A30-10	-	-	-	See TJ7-91 in WP 0035 01.
P68-11	A30-11	-	-	-	See TJ7-92 in WP 0035 01.
P68-12	A30-12	-	-	-	See TJ9-12 in WP 0035 01.
P68-13	A30-13	-	-	-	See TJ9-13 in WP 0035 01.
P68-14	A30-14	-	-	-	See TJ9-14 in WP 0035 01.
P68-15	A30-15	-	-	-	See TJ9-15 in WP 0035 01.
P68-16	A30-16	-	-	-	See TJ9-16 in WP 0035 01.
P68-17	A30-17	-	-	-	See TJ9-17 in WP 0035 01.
P68-18	A30-18	-	-	-	See TJ9-18 in WP 0035 01.
P68-19	A30-19	-	-	-	See TJ7-83 in WP 0035 01.
P68-20	A30-20	-	-	-	See TJ7-82 in WP 0035 01.
P68-21	A30-21	-	-	-	See TJ7-81 in WP 0035 01.
P68-22	A30-22	-	-	-	See TJ9-22 in WP 0035 01.
P68-23	A30-46	-	-	-	See TJ9-23 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P68-24	A30-47	-	-	-	See TJ9-24 in WP 0035 01.
P68-25	A30-48	-	-	-	See TJ9-30 in WP 0035 01.
P68-26	A30-49	-	-	-	See TJ9-31 in WP 0035 01.
P68-27	A30-50	-	-	-	See TJ9-100 in WP 0035 01.
P68-28	A30-51	-	-	-	See TJ9-51 in WP 0035 01.
P68-29	A30-52	-	-	-	See TJ9-29 in WP 0035 01.
P68-30	A30-53	-	-	-	See TJ9-37 in WP 0035 01.
P68-31	A30-54	-	-	-	See TJ9-57 in WP 0035 01.
P68-32	A30-55	-	-	-	See TJ9-38 in WP 0035 01.
P68-33	A30-56	-	-	-	See TJ9-39 in WP 0035 01.
P68-34	A30-57	-	-	-	See TJ9-40 in WP 0035 01.
P68-35	A30-58	-	-	-	See TJ9-41 in WP 0035 01.
P68-36	A30-59	-	-	-	See TJ9-42 in WP 0035 01.
P68-37	A30-60	-	-	-	See TJ9-43 in WP 0035 01.
P68-38	A30-61	-	-	-	See TJ9-44 in WP 0035 01.
P68-39	A30-62	-	-	-	See TJ7-69 in WP 0035 01.
P68-40	A30-63	-	-	-	See TJ7-80 in WP 0035 01.
P68-41	A30-64	-	-	-	See TJ9-47 in WP 0035 01.
P68-42	A30-65	-	-	-	See TJ9-48 in WP 0035 01.
P68-43	A30-66	-	-	-	See TJ9-49 in WP 0035 01.
P68-44	A30-67	-	-	-	See TJ9-50 in WP 0035 01.
P69-1	A31-39	-	-	-	See TJ6-126 in WP 0035 00.
P69-2	A31-40	-	-	-	See TJ4-q in WP 0035 00.
P69-3	A31-41	-	-	-	See TJ4-s in WP 0035 00.
P69-4	A31-42	-	-	-	See TJ4-y in WP 0035 00.
P69-5	A31-43	-	-	-	See TJ4-n in WP 0035 00.
P69-6	A31-44	-	-	-	See TJ4-u in WP 0035 00.
P69-7	A31-45	-	-	-	See TJ4-GG in WP 0035 00.
P69-8	A31-84	-	-	-	See TJ4-EE in WP 0035 00.
P69-9	A31-85	-	-	-	See TJ4-AA in WP 0035 00.
P69-10	A31-86	-	-	-	See TJ4-i in WP 0035 00.
P69-11	A31-87	-	-	-	See TJ4-CC in WP 0035 00.
P69-12	A31-88	-	-	-	See TJ4-g in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P69-13	A31-89	-	-	-	See TJ6-121 in WP 0035 00.
P69-14	A31-90	-	-	-	See TJ6-60 in WP 0035 00.
P70-1	A31-1	-	-	-	See TJ4-h in WP 0035 00.
P70-2	A31-2	-	-	-	See TJ7-123 in WP 0035 01.
P70-3	A31-3	-	-	-	See TJ10-m in WP 0035 01.
P70-4	A31-4	-	-	-	See TJ10-k in WP 0035 01.
P70-5	A31-5	-	-	-	See TJ6-59 in WP 0035 00.
P70-6	A31-6	-	-	-	See TJ6-59 in WP 0035 00.
P70-7	A31-7	-	-	-	See TJ6-114 in WP 0035 00.
P70-8	A31-8	-	-	-	See TJ4-m in WP 0035 00.
P70-9	A31-9	-	-	-	See TJ10-w in WP 0035 01.
P70-10	A31-10	-	-	-	See TJ6-11 in WP 0035 00.
P70-11	A31-11	-	-	-	See TJ6-82 in WP 0035 00.
P70-12	A31-12	-	-	-	See P39-12 in WP 0036 00.
P70-13	A31-13	-	-	-	See TJ4-J in WP 0035 00.
P70-14	A31-14	-	-	-	See TJ7-13 in WP 0035 01.
P70-15	A31-15	-	-	-	See TJ10-s in WP 0035 01.
P70-16	A31-16	-	-	-	See TJ5-55 in WP 0035 00.
P70-17	A31-17	-	-	-	See TJ7-122 in WP 0035 01.
P70-18	A31-18	-	-	-	See TJ4-f in WP 0035 00.
P70-19	A31-19	-	-	-	See TJ10-r in WP 0035 01.
P70-20	A31-20	-	-	-	See TJ10-q in WP 0035 01.
P70-21	A31-21	-	-	-	See TJ10-Z in WP 0035 01.
P70-22	A31-22	-	-	-	See TJ4-m in WP 0035 00.
P70-23	A31-46	-	-	-	See TJ10-p in WP 0035 01.
P70-24	A31-47	-	-	-	See TJ10-n in WP 0035 01.
P70-25	A31-48	-	-	-	See TJ4-h in WP 0035 00.
P70-26	A31-49	-	-	-	See P62-6 in this WP.
P70-27	A31-50	-	-	-	See TJ4-r in WP 0035 00.
P70-28	A31-51	-	-	-	See TJ4-p in WP 0035 00.
P70-29	A31-52	-	-	-	See TJ4-DD in WP 0035 00.
P70-31	A31-54	-	-	-	See TJ10-v in WP 0035 01.
P70-32	A31-55	-	-	-	See TJ6-115 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P70-33	A31-56	-	-	-	See TJ4-DD in WP 0035 00.
P70-34	A31-57	-	-	-	See TJ4-p in WP 0035 00.
P70-35	A31-58	-	-	-	See TJ10-t in WP 0035 01.
P70-36	A31-59	-	-	-	See P66-30 in this WP.
P70-37	A31-60	-	-	-	See P65-14 in this WP.
P70-38	A31-61	-	-	-	See P62-2 in this WP.
P70-39	A31-62	-	-	-	See TJ5-56 in WP 0035 00.
P70-40	A31-63	-	-	-	See TJ4-f in WP 0035 00.
P70-41	A31-64	-	-	-	See TJ7-121 in WP 0035 01.
P70-42	A31-65	-	-	-	See TJ7-120 in WP 0035 01.
P70-43	A31-66	-	-	-	See TJ10-a in WP 0035 01.
P70-44	A31-67	-	-	-	See TJ4-r in WP 0035 00.
P72-14	A32-14	-	-	-	See TJ4-a in WP 0035 00.
P72-15	A32-15	-	-	-	See TJ4-X in WP 0035 00.
P72-16	A32-16	-	-	-	See TJ7-123 in WP 0035 01.
P72-17	A32-17	-	-	-	See TJ7-123 in WP 0035 01.
P72-18	A32-18	-	-	-	See TJ7-123 in WP 0035 01.
P72-19	A32-19	-	-	-	See TJ7-122 in WP 0035 01.
P72-20	A32-20	-	-	-	See TJ7-122 in WP 0035 01.
P72-21	A32-21	-	-	-	See TJ7-122 in WP 0035 01.
P72-39	A32-62	-	-	-	See DR27-3 in WP 0036 00.
P72-44	A32-67	-	-	-	See P34-36 in WP 0036 00.
P73-1	A33-39	-	-	-	See TJ4-J in WP 0035 00.
P73-2	A33-40	-	-	-	See UJ2-35 in WP 0035 01.
P73-3	A33-41	-	-	-	See TJ10-J in WP 0035 01.
P73-4	A33-42	-	-	-	See TJ10-y in WP 0035 01.
P73-7	A33-45	-	-	-	See TJ10-K in WP 0035 01.
P73-8	A33-84	-	-	-	See UJ2-8 in WP 0035 01.
P73-9	A33-85	-	-	-	See TJ10-J in WP 0035 01.
P73-10	A33-86	-	-	-	See TJ10-y in WP 0035 01.
P73-13	A33-89	1277	P74-25	A33-48	-
P74-3	A33-3	1281	P74-20	A33-20	-
P73-14	A33-90	-	-	-	See UJ2-34 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P74-1	A33-1	-	-	-	See TJ7-122 in WP 0035 01.
P74-2	A33-2	1280	P74-33	A33-56	-
P74-32	A33-55	1294	P74-18	A33-18	-
P74-3	A33-3	-	-	-	See P73-13 in this WP.
P74-5	A33-5	1295	P74-37	A33-60	
P74-6	A33-6	-	-	-	See TJ5-127 in WP 0035 00.
P74-7	A33-7	-	-	-	See TJ9-99 in WP 0035 01.
P74-8	A33-8	-	-	-	See TJ9-95 in WP 0035 01.
P74-9	A33-9	-	-	-	See TJ9-95 in WP 0035 01.
P74- 10	A33-10	-	-	-	See TJ5-98 in WP 0035 00.
P74-11	A33-11	-	-	-	See TJ5-98 in WP 0035 00.
P74-13	A33-13	-	-	-	See DR36-4 in WP 0036 00.
P74-14	A33-14	-	-	-	See DR36-4 in WP 0036 00.
P74-15	A33-15	-	-	-	See UJ2-37 in WP 0035 01.
P74-16	A33-16	-	-	-	See C8-1 in WP 0036 00.
P74-17	A33-17	-	-	-	See DR37-1 in WP 0036 00.
P74-18	A33-18	-	-	-	See P74-2 in this WP.
P74-19	A33-19	1292	R1-2	-	TW68-2
P74-20	A33-20	-	-	-	See P73-13 in this WP.
P74-21	A33-21	-	-	-	See TJ5-124 in WP 0035 00.
P74-23	A33-46	-	-	-	See TJ6-20 in WP 0035 00.
P74-24	A33-47	-	-	-	See TJ7-122 in WP 0035 01.
P74-25	A33-48	-	-	-	See P73-13 in this WP.
P74-27	A33-50	-	-	-	See TJ5-127 in WP 0035 00.
P74-28	A33-51	-	-	-	See C9(+)E3 in WP 0036 00.
P74-29	A33-52	-	-	-	See TJ9-96 in WP 0035 01.
P74-30	A33-53	-	-	-	See TJ9-95 in WP 0035 01.
P74-31	A33-54	-	-	-	See TJ5-124 in WP 0035 00.
P74-32	A33-55	-	-	-	See P74-2 in this WP.
P74-33	A33-56	-	-	-	See P74-2 in this WP.
P74-35	A33-58	-	-	-	See UJ2-7 in WP 0035 01.
P74-36	A33-59	-	-	-	See UJ2-37 in WP 0035 01.
P74-37	A33-60	-	-	-	See P74-5 in this WP.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P74-38	A33-61	-	-	-	See P46-6 in WP 0036 00.
P74-39	A33-62	-	-	-	See DR37-1 in WP 0036 00.
P74-40	A33-63	-	-	-	See TJ5-127 in WP 0035 00.
P74-41	A33-64	-	-	-	See P46-13 in WP 0036 00
P74-42	A33-65	-	-	-	See P37-9 in WP 0036 00.
P74-43	A33-66	-	-	-	See TJ5-124 in WP 0035 00.
P74-44	A33-67	-	-	-	See TJ9-95 in WP 0035 01.
P75-1	-	-	-	-	See TJ8-70 in WP 0035 01.
P75-2	-	-	-	-	See TJ8-70 in WP 0035 01.
P75-3	-	-	-	-	See TJ8-71 in WP 0035 01.
P75-4	-	-	-	-	See TJ6-95 in WP 0035 00.
P75-5	-	-	-	-	See TJ6-95 in WP 0035 00.
P75-6	-	-	-	-	See TJ8-113 in WP 0035 01.
P75-7	-	-	-	-	See TJ8-114 in WP 0035 01.
P75-8	-	-	-	-	See TJ8-114 in WP 0035 01.
P75-9	-	-	-	-	See TJ8-117 in WP 0035 01.
P75-12	-	-	-	-	See TJ4-NN in WP 0035 00.
P75-13	-	-	-	-	See TJ8-93 in WP 0035 01.
P75-14	-	-	-	-	See TJ8-93 in WP 0035 01.
P75-15	-	-	-	-	See TJ8-94 in WP 0035 01.
P75-16	-	-	-	-	See TJ8-94 in WP 0035 01.
P75-17	-	-	-	-	See TJ8-95 in WP 0035 01.
P75-18	-	-	-	-	See TJ8-95 in WP 0035 01.
P75-19	-	-	-	-	See TJ6-66 in WP 0035 00.
P75-20	-	-	-	-	See TJ6-66 in WP 0035 00.
P75-21	-	-	-	-	See TJ4-PP in WP 0035 00.
P75-22	-	-	-	-	See TJ4-PP in WP 0035 00.
P75-23	-	-	-	-	See TJ8-70 in WP 0035 01.
P75-24	-	-	-	-	See TJ8-71 in WP 0035 01.
P75-25	-	-	-	-	See TJ8-71 in WP 0035 01.
P75-26	-	-	-	-	See TJ6-95 in WP 0035 00.
P75-27	-	-	-	-	See TJ8-113 in WP 0035 01.
P75-28	-	-	-	-	See TJ8-113 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P75-29	-	-	-	-	See TJ8-114 in WP 0035 01.
P75-30	-	-	-	-	See TJ8-117 in WP 0035 01.
P75-33	-	-	-	-	See TJ4-NN in WP 0035 00.
P75-34	-	-	-	-	See TJ4-NN in WP 0035 00.
P75-35	-	-	-	-	See TJ8-93 in WP 0035 01.
P75-37	-	-	-	-	See TJ8-94 in WP 0035 01.
P75-39	-	-	-	-	See TJ8-95 in WP 0035 01.
P75-41	-	-	-	-	See TJ6-66 in WP 0035 00.
P75-42	-	-	-	-	See TJ6-66 in WP 0035 00.
P75-43	-	-	-	-	See TJ4-PP in WP 0035 00.
P76-1	-	-	-	-	See TJ8-52 in WP 0035 01.
P76-2	-	-	-	-	See TJ8-52 in WP 0035 01.
P76-3	-	-	-	-	See TJ8-53 in WP 0035 01.
P76-4	-	-	-	-	See TJ8-54 in WP 0035 01.
P76-5	-	-	-	-	See TJ8-54 in WP 0035 01.
P76-6	-	-	-	-	See TJ8-55 in WP 0035 01.
P76-7	-	-	-	-	See TJ8-56 in WP 0035 01.
P76-8	-	-	-	-	See TJ8-56 in WP 0035 01.
P76-9	-	-	-	-	See TJ8-57 in WP 0035 01.
P76-10	-	-	-	-	See TJ8-58 in WP 0035 01.
P76-11	-	-	-	-	See TJ8-58 in WP 0035 01.
P76-12	-	-	-	-	See TJ8-59 in WP 0035 01.
P76-13	-	-	-	-	See TJ6-124 in WP 0035 00.
P76-14	-	-	-	-	See TJ6-124 in WP 0035 00.
P76-15	-	-	-	-	See TJ8-14 in WP 0035 01.
P76-16	-	-	-	-	See TJ8-14 in WP 0035 01.
P76-17	-	-	-	-	See TJ6-79 in WP 0035 00.
P76-18	-	-	-	-	See TJ6-79 in WP 0035 00.
P76-19	-	-	-	-	See TJ8-65 in WP 0035 01.
P76-20	-	-	-	-	See TJ8-65 in WP 0035 01.
P76-21	-	-	-	-	See TJ8-66 in WP 0035 01.
P76-22	-	-	-	-	See TJ8-66 in WP 0035 01.
P76-23	-	-	-	-	See TJ8-52 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P76-24	-	-	-	-	See TJ8-53 in WP 0035 01.
P76-25	-	-	-	-	See TJ8-53 in WP 0035 01.
P76-26	-	-	-	-	See TJ8-54 in WP 0035 01.
P76-27	-	-	-	-	See TJ8-55 in WP 0035 01.
P76-28	-	-	-	-	See TJ8-55 in WP 0035 01.
P76-29	-	-	-	-	See TJ8-56 in WP 0035 01.
P76-30	-	-	-	-	See TJ8-57 in WP 0035 01.
P76-31	-	-	-	-	See TJ8-57 in WP 0035 01.
P76-32	-	-	-	-	See TJ8-58 in WP 0035 01.
P76-33	-	-	-	-	See TJ8-59 in WP 0035 01.
P76-34	-	-	-	-	See TJ8-59 in WP 0035 01.
P76-35	-	-	-	-	See TJ6-124 in WP 0035 00.
P76-36	-	-	-	-	See TJ6-124 in WP 0035 00.
P76-37	-	-	-	-	See TJ8-14 in WP 0035 01.
P76-39	-	-	-	-	See TJ6-79 in WP 0035 00.
P76-40	-	-	-	-	See TJ6-79 in WP 0035 00.
P76-41	-	-	-	-	See TJ8-65 in WP 0035 01.
P76-43	-	-	-	-	See TJ8-66 in WP 0035 01.
P76-44	-	-	-	-	See TJ8-66 in WP 0035 01.
P77-1	-	-	-	-	See TJ9-52 in WP 0035 01.
P77-2	-	-	-	-	See TJ9-52 in WP 0035 01.
P77-3	-	-	-	-	See TJ9-53 in WP 0035 01.
P77-4	-	-	-	-	See TJ9-54 in WP 0035 01.
P77-5	-	-	-	-	See TJ9-54 in WP 0035 01.
P77-6	-	-	-	-	See TJ9-55 in WP 0035 01.
P77-7	-	-	-	-	See TJ9-56 in WP 0035 01.
P77-8	-	-	-	-	See TJ9-56 in WP 0035 01.
P77-9	-	-	-	-	See TJ5-117 in WP 0035 00.
P77-10	-	-	-	-	See TJ7-80 in WP 0035 01.
P77-11	-	-	-	-	See TJ7-80 in WP 0035 01.
P77-12	-	-	-	-	See TJ7-81 in WP 0035 01.
P77-13	-	-	-	-	See TJ7-122 in WP 0035 01.
P77-14	-	-	-	-	See TJ7-122 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P77-15	-	-	-	-	See TJ7-123 in WP 0035 01.
P77-16	-	-	-	-	See TJ7-123 in WP 0035 01.
P77-17	-	-	-	-	See TJ9-57 in WP 0035 01.
P77-18	-	-	-	-	See TJ9-57 in WP 0035 01.
P77-19	-	-	-	-	See TJ9-63 in WP 0035 01.
P77-20	-	-	-	-	See TJ9-63 in WP 0035 01.
P77-21	-	-	-	-	See TJ7-69 in WP 0035 01.
P77-22	-	-	-	-	See TJ7-69 in WP 0035 01.
P77-23	-	-	-	-	See TJ9-52 in WP 0035 01.
P77-24	-	-	-	-	See TJ9-53 in WP 0035 01.
P77-25	-	-	-	-	See TJ9-53 in WP 0035 01.
P77-26	-	-	-	-	See TJ9-54 in WP 0035 01.
P77-27	-	-	-	-	See TJ9-55 in WP 0035 01.
P77-28	-	-	-	-	See TJ9-55 in WP 0035 01.
P77-29	-	-	-	-	See TJ9-56 in WP 0035 01.
P77-31	-	-	-	-	See TJ5-117 in WP 0035 00.
P77-32	-	-	-	-	See TJ7-80 in WP 0035 01.
P77-33	-	-	-	-	See TJ7-81 in WP 0035 01.
P77-34	-	-	-	-	See TJ7-81 in WP 0035 01.
P77-35	-	-	-	-	See TJ7-122 in WP 0035 01.
P77-37	-	-	-	-	See TJ7-123 in WP 0035 01.
P77-38	-	-	-	-	See TJ7-123 in WP 0035 01.
P77-39	-	-	-	-	See TJ9-57 in WP 0035 01.
P77-40	-	-	-	-	See TJ9-57 in WP 0035 01.
P77-41	-	-	-	-	See TJ9-63 in WP 0035 01.
P77-42	-	-	-	-	See TJ9-63 in WP 0035 01.
P77-43	-	-	-	-	See TJ7-69 in WP 0035 01.
P77-44	-	-	-	-	See TJ7-69 in WP 0035 01.
P78-1	-	-	-	-	See TJ6-15 in WP 0035 00.
P78-2	-	-	-	-	See TJ6-15 in WP 0035 00.
P78-3	-	-	-	-	See TJ7-30 in WP 0035 01.
P78-4	-	-	-	-	See TJ7-31 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P78-5	-	-	-	-	See TJ7-31 in WP 0035 01.
P78-6	-	-	-	-	See TJ5-90 in WP 0035 01.
P78-7	-	-	-	-	See TJ7-75 in WP 0035 01.
P78-8	-	-	-	-	See TJ7-75 in WP 0035 01.
P78-9	-	-	-	-	See TJ7-76 in WP 0035 01.
P78-10	-	-	-	-	See TJ7-77 in WP 0035 01.
P78-11	-	-	-	-	See TJ7-77 in WP 0035 01.
P78-12	-	-	-	-	See TJ7-78 in WP 0035 01.
P78-13	-	-	-	-	See TJ7-79 in WP 0035 01.
P78-14	-	-	-	-	See TJ7-79 in WP 0035 01.
P78-15	-	-	-	-	See TJ8-60 in WP 0035 01.
P78-16	-	-	-	-	See TJ8-60 in WP 0035 01.
P78-17	-	-	-	-	See TJ8-61 in WP 0035 01.
P78-18	-	-	-	-	See TJ8-61 in WP 0035 01.
P78-19	-	-	-	-	See TJ8-62 in WP 0035 01.
P78-20	-	-	-	-	See TJ8-62 in WP 0035 01.
P78-21	-	-	-	-	See TJ8-63 in WP 0035 01.
P78-22	-	-	-	-	See TJ8-63 in WP 0035 01.
P78-23	-	-	-	-	See TJ6-15 in WP 0035 00.
P78-24	-	-	-	-	See TJ7-30 in WP 0035 01.
P78-25	-	-	-	-	See TJ7-30 in WP 0035 01.
P78-26	-	-	-	-	See TJ7-31 in WP 0035 01.
P78-27	-	-	-	-	See TJ5-90 in WP 0035 00.
P78-28	-	-	-	-	See TJ5-90 in WP 0035 00.
P78-30	-	-	-	-	See TJ7-76 in WP 0035 01.
P78-33	-	-	-	-	See TJ7-78 in WP 0035 01.
P78-35	-	-	-	-	See TJ7-79 in WP 0035 01.
P78-37	-	-	-	-	See TJ8-60 in WP 0035 01.
P78-39	-	-	-	-	See TJ8-61 in WP 0035 01.
P78-41	-	-	-	-	See TJ8-62 in WP 0035 01.
P78-43	-	-	-	-	See TJ8-63 in WP 0035 01.
P79-1	-	-	-	-	See TJ6-116 in WP 0035 00.
P79-3	-	-	-	-	See TJ6-117 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P79-4	-	-	-	-	See TJ6-123 in WP 0035 00.
P79-5	-	-	-	-	See TJ6-123 in WP 0035 00.
P79-6	-	-	-	-	See TJ7-11 in WP 0035 01.
P79-7	-	-	-	-	See TJ7-12 in WP 0035 01.
P79-8	-	-	-	-	See TJ7-12 in WP 0035 01.
P79-9	-	-	-	-	See TJ7-13 in WP 0035 01.
P79-10	-	-	-	-	See TJ7-14 in WP 0035 01.
P79-11	-	-	-	-	See TJ7-14 in WP 0035 01.
P79-12	-	-	-	-	See TJ7-15 in WP 0035 01.
P79-13	-	-	-	-	See TJ7-16 in WP 0035 01.
P79-14	-	-	-	-	See TJ7-16 in WP 0035 01.
P79-15	-	-	-	-	See TJ5-89 in WP 0035 00.
P79-16	-	-	-	-	See TJ5-89 in WP 0035 00.
P79-17	-	-	-	-	See TJ7-67 in WP 0035 01.
P79-18	-	-	-	-	See TJ7-67 in WP 0035 01.
P79-19	-	-	-	-	See TJ7-70 in WP 0035 01.
P79-20	-	-	-	-	See TJ7-70 in WP 0035 01.
P79-21	-	-	-	-	See TJ7-73 in WP 0035 01.
P79-22	-	-	-	-	See TJ7-73 in WP 0035 01.
P79-23	-	-	-	-	See TJ6-116 in WP 0035 00.
P79-25	-	-	-	-	See TJ6-117 in WP 0035 00.
P79-27	-	-	-	-	See TJ7-11 in WP 0035 01.
P79-28	-	-	-	-	See TJ7-11 in WP 0035 01.
P79-30	-	-	-	-	See TJ7-13 in WP 0035 01.
P79-31	-	-	-	-	See TJ7-13 in WP 0035 01.
P79-33	-	-	-	-	See TJ7-15 in WP 0035 01.
P79-34	-	-	-	-	See TJ7-15 in WP 0035 01.
P79-35	-	-	-	-	See TJ7-16 in WP 0035 01.
P79-37	-	-	-	-	See TJ5-89 in WP 0035 00.
P79-38	-	-	-	-	See TJ5-89 in WP 0035 00.
P79-39	-	-	-	-	See TJ7-67 in WP 0035 01.
P79-40	-	-	-	-	See TJ7-67 in WP 0035 01.
P79-41	-	-	-	-	See TJ7-70 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P79-42	-	-	-	-	-See TJ7-70 in WP 0035 01.
P79-43	-	-	-	-	See TJ7-73 in WP 0035 01.
P79-44	-	-	-	-	See TJ7-73 in WP 0035 01.
P80-1	-	-	-	-	See TJ8-102 in WP 0035 01.
P80-2	-	-	-	-	See TJ8-102 in WP 0035 01.
P80-3	-	-	-	-	See TJ8-103 in WP 0035 01.
P80-4	-	-	-	-	See TJ8-104 in WP 0035 01.
P80-5	-	-	-	-	See TJ8-104 in WP 0035 01.
P80-6	-	-	-	-	See TJ8-105 in WP 0035 01.
P80-7	-	-	-	-	See TJ4-R in WP 0035 00.
P80-8	-	-	-	-	See TJ4-R in WP 0035 00.
P80-9	-	-	-	-	See TJ8-106 in WP 0035 01.
P80-10	-	-	-	-	See TJ8-107 in WP 0035 01.
P80-11	-	-	-	-	See TJ8-107 in WP 0035 01.
P80-12	-	-	-	-	See TJ8-108 in WP 0035 01.
P80-13	-	-	-	-	See TJ6-12 in WP 0035 00.
P80-14	-	-	-	-	See TJ6-12 in WP 0035 00.
P80-15	-	-	-	-	See TJ4-h in WP 0035 00.
P80-16	-	-	-	-	See TJ4-h in WP 0035 00.
P80-17	-	-	-	-	See TJ4-h in WP 0035 00.
P80-18	-	-	-	-	See TJ4-h in WP 0035 00.
P80-23	-	-	-	-	See TJ8-102 in WP 0035 01.
P80-24	-	-	-	-	See TJ8-103 in WP 0035 01.
P80-25	-	-	-	-	See TJ8-103 in WP 0035 01.
P80-26	-	-	-	-	See TJ8-104 in WP 0035 01.
P80-27	-	-	-	-	See TJ8-105 in WP 0035 01.
P80-28	-	-	-	-	See TJ8-105 in WP 0035 01.
P80-29	-	-	-	-	See TJ4-R in WP 0035 00.
P80-30	-	-	-	-	See TJ8-106 in WP 0035 01.
P80-31	-	-	-	-	See TJ8-106 in WP 0035 01.
P80-32	-	-	-	-	See TJ8-107 in WP 0035 01.
P80-33	-	-	-	-	See TJ8-108 in WP 0035 01.
P80-34	-	-	-	-	See TJ8-108 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P80-35	-	-	-	-	See TJ6-12 in WP 0035 00.
P80-37	-	-	-	-	See TJ4-h in WP 0035 00.
P80-38	-	-	-	-	See TJ4-h in WP 0035 00.
P80-39	-	-	-	-	See TJ4-h in WP 0035 00.
P81-1	-	-	-	-	See TJ6-101 in WP 0035 00.
P81-2	-	-	-	-	See TJ6-101 in WP 0035 00.
P81-3	-	-	-	-	See TJ5-33 in WP 0035 00.
P81-4	-	-	-	-	See TJ5-22 in WP 0035 00.
P81-5	-	-	-	-	See TJ5-22 in WP 0035 00.
P81-6	-	-	-	-	See TJ8-109 in WP 0035 01.
P81-7	-	-	-	-	See TJ6-112 in WP 0035 00.
P81-8	-	-	-	-	See TJ6-112 in WP 0035 00.
P81-9	-	-	-	-	See TJ6-113 in WP 0035 01.
P81-10	-	-	-	-	See TJ6-114 in WP 0035 01.
P81-11	-	-	-	-	See TJ6-114 in WP 0035 01.
P81-12	-	-	-	-	See TJ6-115 in WP 0035 00.
P81-13	-	-	-	-	See TJ6-125 in WP 0035 00.
P81-14	-	-	-	-	See TJ6-125 in WP 0035 00.
P81-15	-	-	-	-	See TJ7-7 in WP 0035 01.
P81-16	-	-	-	-	See TJ7-7 in WP 0035 01.
P81-17	-	-	-	-	See TJ7-8 in WP 0035 01.
P81-18	-	-	-	-	See TJ7-8 in WP 0035 01.
P81-19	-	-	-	-	See TJ7-9 in WP 0035 01.
P81-20	-	-	-	-	See TJ7-9 in WP 0035 01.
P81-21	-	-	-	-	See TJ7-10 in WP 0035 01.
P81-22	-	-	-	-	See TJ7-10 in WP 0035 01.
P81-23	-	-	-	-	See TJ6-101 in WP 0035 00.
P81-24	-	-	-	-	See TJ5-33 in WP 0035 00.
P81-27	-	-	-	-	See TJ8-109 in WP 0035 01.
P81-29	-	-	-	-	See TJ6-112 in WP 0035 00.
P81-30	-	-	-	-	See TJ6-113 in WP 0035 00.
P81-31	-	-	-	-	See TJ6-113 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P81-32	-	-	-	-	See TJ6-114 in WP 0035 00.
P81-33	-	-	-	-	See TJ6-115 in WP 0035 00.
P81-34	-	-	-	-	See TJ6-115 in WP 0035 00.
P81-35	-	-	-	-	See TJ6-125 in WP 0035 00.
P81-37	-	-	-	-	See TJ7-7 in WP 0035 01.
P81-39	-	-	-	-	See TJ7-8 in WP 0035 01.
P81-41	-	-	-	-	See TJ7-9 in WP 0035 01.
P81-43	-	-	-	-	See TJ7-10 in WP 0035 01.
P82-1	-	-	-	-	See TJ6-56 in WP 0035 00.
P82-2	-	-	-	-	See TJ6-56 in WP 0035 00.
P82-3	-	-	-	-	See TJ6-57 in WP 0035 00.
P82-4	-	-	-	-	See TJ6-58 in WP 0035 00.
P82-5	-	-	-	-	See TJ6-58 in WP 0035 00.
P82-6	-	-	-	-	See TJ6-59 in WP 0035 00.
P82-9	-	-	-	-	See TJ6-61 in WP 0035 00.
P82-10	-	-	-	-	See TJ6-76 in WP 0035 00.
P82-11	-	-	-	-	See TJ6-76 in WP 0035 00.
P82-12	-	-	-	-	See TJ6-83 in WP 0035 00.
P82-13	-	-	-	-	See TJ6-96 in WP 0035 00.
P82-14	-	-	-	-	See TJ6-96 in WP 0035 00.
P82-15	-	-	-	-	See TJ6-97 in WP 0035 00.
P82-16	-	-	-	-	See TJ6-97 in WP 0035 00.
P82-17	-	-	-	-	See TJ6-98 in WP 0035 00.
P82-18	-	-	-	-	See TJ6-98 in WP 0035 00.
P82-19	-	-	-	-	See TJ6-99 in WP 0035 00.
P82-20	-	-	-	-	See TJ6-99 in WP 0035 00.
P82-21	-	-	-	-	See TJ6-100 in WP 0035 00.
P82-22	-	-	-	-	See TJ6-100 in WP 0035 00.
P82-23	-	-	-	-	See TJ6-56 in WP 0035 00.
P82-24	-	-	-	-	See TJ6-57 in WP 0035 00.
P82-25	-	-	-	-	See TJ6-57 in WP 0035 00.
P82-26	-	-	-	-	See TJ6-58 in WP 0035 00.
P82-27	-	-	-	-	See TJ6-59 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P82-28	-	-	-	-	See TJ6-59 in WP 0035 00.
P82-30	-	-	-	-	See TJ6-61 in WP 0035 00.
P82-31	-	-	-	-	See TJ6-61 in WP 0035 00.
P82-32	-	-	-	-	See TJ6-76 in WP 0035 00.
P82-33	-	-	-	-	See TJ6-83 in WP 0035 00.
P82-34	-	-	-	-	See TJ6-83 in WP 0035 00.
P82-35	-	-	-	-	See TJ6-96 in WP 0035 00.
P82-36	-	-	-	-	See TJ6-96 in WP 0035 00.
P82-37	-	-	-	-	See TJ6-97 in WP 0035 00.
P82-39	-	-	-	-	See TJ6-98 in WP 0035 00.
P82-41	-	-	-	-	See TJ6-99 in WP 0035 00.
P82-43	-	-	-	-	See TJ6-100 in WP 0035 00.
P83-1	-	-	-	-	See TJ10-w in WP 0035 01.
P83-2	-	-	-	-	See TJ10-w in WP 0035 01.
P83-3	-	-	-	-	See TJ10-v in WP 0035 01.
P83-4	-	-	-	-	See TJ10-t in WP 0035 01.
P83-5	-	-	-	-	See TJ10-t in WP 0035 01.
P83-6	-	-	-	-	See TJ10-s in WP 0035 01.
P83-7	-	-	-	-	See TJ4-DD in WP 0035 00.
P83-8	-	-	-	-	See TJ4-DD in WP 0035 00.
P83-9	-	-	-	-	See TJ10-r in WP 0035 01.
P83-10	-	-	-	-	See TJ10-q in WP 0035 01.
P83-11	-	-	-	-	See TJ10-q in WP 0035 01.
P83-12	-	-	-	-	See TJ10-Z in WP 0035 01.
P83-13	-	-	-	-	See TJ10-a in WP 0035 01.
P83-15	-	-	-	-	See TJ5-98 in WP 0035 00.
P83-16	-	-	-	-	See TJ5-98 in WP 0035 00.
P83-17	-	-	-	-	See TJ9-96 in WP 0035 01.
P83-18	-	-	-	-	See TJ9-96 in WP 0035 01.
P83-19	-	-	-	-	See TJ9-95 in WP 0035 01.
P83-20	-	-	-	-	See TJ9-95 in WP 0035 01.
P83-21	-	-	-	-	See TJ9-99 in WP 0035 01.
P83-22	-	-	-	-	See TJ9-99 in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P83-23	-	-	-	-	See TJ10-w in WP 0035 01.
P83-24	-	-	-	-	See TJ10-v in WP 0035 01.
P83-25	-	-	-	-	See TJ10-v in WP 0035 01.
P83-26	-	-	-	-	See TJ10-t in WP 0035 01.
P83-27	-	-	-	-	See TJ10-s in WP 0035 01.
P83-28	-	-	-	-	See TJ10-s in WP 0035 01.
P83-29	-	-	-	-	See TJ4-DD in WP 0035 00.
P83-30	-	-	-	-	See TJ10-r in WP 0035 01.
P83-31	-	-	-	-	See TJ10-r in WP 0035 01.
P83-32	-	-	-	-	See TJ10-q in WP 0035 01.
P83-33	-	-	-	-	See TJ10-Z in WP 0035 01.
P83-34	-	-	-	-	See TJ10-Z in WP 0035 01.
P83-35	-	-	-	-	See TJ10-a in WP 0035 01.
P83-36	-	-	-	-	See TJ10-a in WP 0035 01.
P83-38	-	-	-	-	See TJ5-98 in WP 0035 00.
P83-39	-	-	-	-	See TJ9-96 in WP 0035 01.
P83-41	-	-	-	-	See TJ9-95 in WP 0035 01.
P83-43	-	-	-	-	See TJ9-99 in WP 0035 01.
P84-1	-	-	-	-	See TJ5-98 in WP 0035 00.
P84-2	-	-	-	-	See TJ5-98 in WP 0035 00.
P84-3	-	-	-	-	See TJ5-99 in WP 0035 00.
P84-4	-	-	-	-	See TJ5-62 in WP 0035 00.
P84-5	-	-	-	-	See TJ5-62 in WP 0035 00.
P84-6	-	-	-	-	See TJ6-17 in WP 0035 00.
P84-7	-	-	-	-	See TJ6-18 in WP 0035 00.
P84-8	-	-	-	-	See TJ6-18 in WP 0035 00.
P84-9	-	-	-	-	See TJ6-19 in WP 0035 00.
P84-10	-	-	-	-	See TJ6-20 in WP 0035 00.
P84-11	-	-	-	-	See TJ6-20 in WP 0035 00.
P84-12	-	-	-	-	See TJ6-21 in WP 0035 00.
P84-13	-	-	-	-	See TJ6-91 in WP 0035 00.
P84-14	-	-	-	-	See TJ6-91 in WP 0035 00.
P84-15	-	-	-	-	See TJ6-92 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P84-16	-	-	-	-	See TJ6-92 in WP 0035 00.
P84-17	-	-	-	-	See TJ6-93 in WP 0035 00.
P84-18	-	-	-	-	See TJ6-93 in WP 0035 00.
P84-19	-	-	-	-	See TJ6-94 in WP 0035 00.
P84-20	-	-	-	-	See TJ6-94 in WP 0035 00.
P84-21	-	-	-	-	See TJ6-95 in WP 0035 00.
P84-22	-	-	-	-	See TJ6-95 in WP 0035 00.
P84-23	-	-	-	-	See TJ5-98 in WP 0035 00.
P84-24	-	-	-	-	See TJ5-99 in WP 0035 00.
P84-25	-	-	-	-	See TJ5-99 in WP 0035 00.
P84-26	-	-	-	-	See TJ5-62 in WP 0035 00.
P84-27	-	-	-	-	See TJ6-17 in WP 0035 00.
P84-28	-	-	-	-	See TJ6-17 in WP 0035 00.
P84-29	-	-	-	-	See TJ6-18 in WP 0035 00.
P84-30	-	-	-	-	See TJ6-19 in WP 0035 00.
P84-31	-	-	-	-	See TJ6-19 in WP 0035 00.
P84-32	-	-	-	-	See TJ6-20 in WP 0035 00.
P84-33	-	-	-	-	See TJ6-21 in WP 0035 00.
P84-35	-	-	-	-	See TJ6-91 in WP 0035 00.
P84-36	-	-	-	-	See TJ6-91 in WP 0035 00.
P84-37	-	-	-	-	See TJ6-92 in WP 0035 00.
P84-38	-	-	-	-	See TJ6-92 in WP 0035 00.
P84-39	-	-	-	-	See TJ6-93 in WP 0035 00.
P84-40	-	-	-	-	See TJ6-93 in WP 0035 00.
P84-41	-	-	-	-	See TJ6-94 in WP 0035 00.
P84-42	-	-	-	-	See TJ6-94 in WP 0035 00.
P84-43	-	-	-	-	See TJ6-95 in WP 0035 00.
P84-44	-	-	-	-	See TJ6-95 in WP 0035 00.
P85-1	-	-	-	-	See TJ5-81 in WP 0035 00.
P85-2	-	-	-	-	See TJ5-81 in WP 0035 00.
P85-3	-	-	-	-	See TJ5-82 in WP 0035 00.
P85-4	-	-	-	-	See TJ5-83 in WP 0035 00.
P85-5	-	-	-	-	See TJ5-83 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P85-6	-	-	-	-	See TJ5-84 in WP 0035 00.
P85-7	-	-	-	-	See TJ5-85 in WP 0035 00.
P85-8	-	-	-	-	See TJ5-85 in WP 0035 00.
P85-9	-	-	-	-	See TJ5-91 in WP 0035 00.
P85-10	-	-	-	-	See TJ5-96 in WP 0035 00.
P85-11	-	-	-	-	See TJ5-96 in WP 0035 00.
P85-12	-	-	-	-	See TJ5-97 in WP 0035 00.
P85-13	-	-	-	-	See TJ5-18 in WP 0035 00.
P85-14	-	-	-	-	See TJ5-18 in WP 0035 00.
P85-15	-	-	-	-	See TJ6-80 in WP 0035 00.
P85-17	-	-	-	-	See TJ6-88 in WP 0035 00.
P85-18	-	-	-	-	See TJ6-88 in WP 0035 00.
P85-19	-	-	-	-	See TJ6-89 in WP 0035 00.
P85-20	-	-	-	-	See TJ6-89 in WP 0035 00.
P85-21	-	-	-	-	See TJ6-90 in WP 0035 00.
P85-22	-	-	-	-	See TJ6-90 in WP 0035 00.
P85-23	-	-	-	-	See TJ5-81 in WP 0035 00.
P85-24	-	-	-	-	See TJ5-82 in WP 0035 00.
P85-25	-	-	-	-	See TJ5-82 in WP 0035 00.
P85-27	-	-	-	-	See TJ5-84 in WP 0035 00.
P85-28	-	-	-	-	See TJ5-84 in WP 0035 00.
P85-30	-	-	-	-	See TJ5-91 in WP 0035 00.
P85-31	-	-	-	-	See TJ5-91 in WP 0035 00.
P85-32	-	-	-	-	See TJ5-96 in WP 0035 00.
P85-33	-	-	-	-	See TJ5-97 in WP 0035 00.
P85-34	-	-	-	-	See TJ5-97 in WP 0035 00.
P85-35	-	-	-	-	See TJ5-18 in WP 0035 00.
P85-36	-	-	-	-	See TJ5-18 in WP 0035 00.
P85-37	-	-	-	-	See TJ6-80 in WP 0035 00.
P85-38	-	-	-	-	See TJ6-80 in WP 0035 00.
P85-39	-	-	-	-	See TJ6-88 in WP 0035 00.
P85-40	-	-	-	-	See TJ6-88 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P85-41	-	-	-	-	See TJ6-89 in WP 0035 00.
P85-42	-	-	-	-	See TJ6-89 in WP 0035 00.
P85-43	-	-	-	-	See TJ6-90 in WP 0035 00.
P85-44	-	-	-	-	See TJ6-90 in WP 0035 00.
P86-1	-	-	-	-	See TJ10-Y in WP 0035 01.
P86-2	-	-	-	-	See TJ10-Y in WP 0035 01.
P86-3	-	-	-	-	See TJ10-X in WP 0035 01.
P86-4	-	-	-	-	See TJ10-W in WP 0035 01.
P86-5	-	-	-	-	See TJ10-W in WP 0035 01.
P86-6	-	-	-	-	See TJ10-V in WP 0035 01.
P86-7	-	-	-	-	See TJ10-U in WP 0035 01.
P86-8	-	-	-	-	See TJ10-U in WP 0035 01.
P86-9	-	-	-	-	See TJ10-h in WP 0035 01.
P86-10	-	-	-	-	See TJ10-g in WP 0035 01.
P86-11	-	-	-	-	See TJ10-g in WP 0035 01.
P86-12	-	-	-	-	See TJ10-f in WP 0035 01.
P86-13	-	-	-	-	See TJ8-2 in WP 0035 01.
P86-14	-	-	-	-	See TJ8-2 in WP 0035 01.
P86-15	-	-	-	-	See TJ10-AA in WP 0035 01.
P86-16	-	-	-	-	See TJ10-AA in WP 0035 01.
P86-17	-	-	-	-	See TJ10-BB in WP 0035 01.
P86-19	-	-	-	-	See P52-33 in WP 0036 00.
P86-20	-	-	-	-	See P52-33 in WP 0036 00.
P86-21	-	-	-	-	See TJ5-127 in WP 0035 00.
P86-22	-	-	-	-	See TJ5-127 in WP 0035 00.
P86-24	-	-	-	-	See TJ10-X in WP 0035 01.
P86-25	-	-	-	-	See TJ10-X in WP 0035 01.
P86-26	-	-	-	-	See TJ10-W in WP 0035 01.
P86-27	-	-	-	-	See TJ10-V in WP 0035 01.
P86-28	-	-	-	-	See TJ10-V in WP 0035 01.
P86-29	-	-	-	-	See TJ10-U in WP 0035 01.
P86-30	-	-	-	-	See TJ10-h in WP 0035 01.
P86-31	-	-	-	-	See TJ10-h in WP 0035 01.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P86-32	-	-	-	-	See TJ10-g in WP 0035 01.
P86-33	-	-	-	-	See TJ10-f in WP 0035 01.
P86-34	-	-	-	-	See TJ10-f in WP 0035 01.
P86-35	-	-	-	-	See TJ8-2 in WP 0035 01.
P86-38	-	-	-	-	See TJ10-AA in WP 0035 01.
P86-39	-	-	-	-	See TJ10-BB in WP 0035 01.
P86-40	-	-	-	-	See TJ10-BB in WP 0035 01.
P86-41	-	-	-	-	See P52-33 in WP 0036 00.
P86-43	-	-	-	-	See TJ5-127 in WP 0035 00.
P86-44	-	-	-	-	See TJ5-127 in WP 0035 00.
P87-1	-	-	-	-	See TJ5-73 in WP 0035 00.
P87-2	-	-	-	-	See TJ5-73 in WP 0035 00.
P87-3	-	-	-	-	See TJ5-74 in WP 0035 00.
P87-4	-	-	-	-	See TJ5-75 in WP 0035 00.
P87-5	-	-	-	-	See TJ5-75 in WP 0035 00.
P87-6	-	-	-	-	See TJ5-76 in WP 0035 00.
P87-7	-	-	-	-	See TJ5-77 in WP 0035 00.
P87-8	-	-	-	-	See TJ5-77 in WP 0035 00.
P87-9	-	-	-	-	See TJ5-78 in WP 0035 00.
P87-10	-	-	-	-	See TJ5-79 in WP 0035 00.
P87-11	-	-	-	-	See TJ5-79 in WP 0035 00.
P87-12	-	-	-	-	See TJ5-80 in WP 0035 00.
P87-13	-	-	-	-	See TJ6-62 in WP 0035 00.
P87-14	-	-	-	-	See TJ6-62 in WP 0035 00.
P87-15	-	-	-	-	See TJ6-63 in WP 0035 00.
P87-16	-	-	-	-	See TJ6-63 in WP 0035 00.
P87-17	-	-	-	-	See TJ6-64 in WP 0035 00.
P87-18	-	-	-	-	See TJ6-64 in WP 0035 00.
P87-19	-	-	-	-	See TJ6-65 in WP 0035 00.
P87-20	-	-	-	-	See TJ6-65 in WP 0035 00.
P87-21	-	-	-	-	See TJ6-81 in WP 0035 00.
P87-22	-	-	-	-	See TJ6-81 in WP 0035 00.
P87-23	-	-	-	-	See TJ5-73 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P87-24	-	-	-	-	See TJ5-74 in WP 0035 00.
P87-25	-	-	-	-	See TJ5-74 in WP 0035 00.
P87-26	-	-	-	-	See TJ5-75 in WP 0035 00.
P87-27	-	-	-	-	See TJ5-76 in WP 0035 00.
P87-28	-	-	-	-	See TJ5-76 in WP 0035 00.
P87-30	-	-	-	-	See TJ5-78 in WP 0035 00.
P87-32	-	-	-	-	See TJ5-79 in WP 0035 00.
P87-33	-	-	-	-	See TJ5-80 in WP 0035 00.
P87-34	-	-	-	-	See TJ5-80 in WP 0035 00.
P87-35	-	-	-	-	See TJ6-62 in WP 0035 00.
P87-36	-	-	-	-	See TJ6-62 in WP 0035 00.
P87-37	-	-	-	-	See TJ6-63 in WP 0035 00.
P87-38	-	-	-	-	See TJ6-63 in WP 0035 00.
P87-39	-	-	-	-	See TJ6-64 in WP 0035 00.
P87-40	-	-	-	-	See TJ6-64 in WP 0035 00.
P87-41	-	-	-	-	See TJ6-65 in WP 0035 00.
P87-42	-	-	-	-	See TJ6-65 in WP 0035 00.
P87-43	-	-	-	-	See TJ6-81 in WP 0035 00.
P87-44	-	-	-	-	See TJ6-81 in WP 0035 00.
P88-1	-	-	-	-	See TJ5-65 in WP 0035 00.
P88-2	-	-	-	-	See TJ5-65 in WP 0035 00.
P88-3	-	-	-	-	See TJ5-66 in WP 0035 00.
P88-4	-	-	-	-	See TJ5-67 in WP 0035 00.
P88-5	-	-	-	-	See TJ5-67 in WP 0035 00.
P88-6	-	-	-	-	See TJ5-68 in WP 0035 00.
P88-7	-	-	-	-	See TJ5-69 in WP 0035 00.
P88-8	-	-	-	-	See TJ5-69 in WP 0035 00.
P88-9	-	-	-	-	See TJ5-70 in WP 0035 00.
P88-10	-	-	-	-	See TJ5-71 in WP 0035 00.
P88-11	-	-	-	-	See TJ5-71 in WP 0035 00.
P88-12	-	-	-	-	See TJ5-72 in WP 0035 00.
P88-13	-	-	-	-	See TJ5-60 in WP 0035 00.
P88-14	-	-	-	-	See TJ5-60 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P88-15	-	-	-	-	See TJ5-61 in WP 0035 00.
P88-16	-	-	-	-	See TJ5-61 in WP 0035 00.
P88-17	-	-	-	-	See TJ5-62 in WP 0035 00.
P88-18	-	-	-	-	See TJ5-62 in WP 0035 00.
P88-19	-	-	-	-	See TJ5-63 in WP 0035 00.
P88-20	-	-	-	-	See TJ5-63 in WP 0035 00.
P88-21	-	-	-	-	See TJ5-64 in WP 0035 00.
P88-22	-	-	-	-	See TJ5-64 in WP 0035 00.
P88-23	-	-	-	-	See TJ5-65 in WP 0035 00.
P88-24	-	-	-	-	See TJ5-66 in WP 0035 00.
P88-25	-	-	-	-	See TJ5-66 in WP 0035 00.
P88-26	-	-	-	-	See TJ5-67 in WP 0035 00.
P88-27	-	-	-	-	See TJ5-68 in WP 0035 00.
P88-28	-	-	-	-	See TJ5-68 in WP 0035 00.
P88-29	-	-	-	-	See TJ5-69 in WP 0035 00.
P88-30	-	-	-	-	See TJ5-70 in WP 0035 00.
P88-31	-	-	-	-	See TJ5-70 in WP 0035 00.
P88-32	-	-	-	-	See TJ5-71 in WP 0035 00.
P88-33	-	-	-	-	See TJ5-72 in WP 0035 00.
P88-34	-	-	-	-	See TJ5-72 in WP 0035 00.
P88-35	-	-	-	-	See TJ5-60 in WP 0035 00.
P88-37	-	-	-	-	See TJ5-61 in WP 0035 00.
P88-38	-	-	-	-	See TJ5-61 in WP 0035 00.
P88-39	-	-	-	-	See TJ5-62 in WP 0035 00.
P88-40	-	-	-	-	See TJ5-62 in WP 0035 00.
P88-41	-	-	-	-	See TJ5-63 in WP 0035 00.
P88-43	-	-	-	-	See TJ5-64 in WP 0035 00.
P89-1	-	-	-	-	See TJ6-81 in WP 0035 00.
P89-2	-	-	-	-	See TJ6-81 in WP 0035 00.
P89-3	-	-	-	-	See TJ5-55 in WP 0035 00.
P89-4	-	-	-	-	See TJ5-56 in WP 0035 00.
P89-5	-	-	-	-	See TJ5-56 in WP 0035 00.
P89-6	-	-	-	-	See TJ7-120 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P89-9	-	-	-	-	See TJ7-121 in WP 0035 01.
P89-10	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-11	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-12	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-13	-	-	-	-	See TJ7-105 in WP 0035 01.
P89-14	-	-	-	-	See TJ7-105 in WP 0035 01.
P89-15	-	-	-	-	See TJ5-116 in WP 0035 00.
P89-16	-	-	-	-	See TJ5-116 in WP 0035 00.
P89-17	-	-	-	-	See TJ4-P in WP 0035 00.
P89-19	-	-	-	-	See TJ4-J in WP 0035 00.
P89-20	-	-	-	-	See TJ4-J in WP 0035 00.
P89-21	-	-	-	-	See TJ4-J in WP 0035 00.
P89-22	-	-	-	-	See TJ4-J in WP 0035 00.
P89-23	-	-	-	-	See TJ6-81 in WP 0035 00.
P89-24	-	-	-	-	See TJ5-55 in WP 0035 00.
P89-25	-	-	-	-	See TJ5-55 in WP 0035 00.
P89-26	-	-	-	-	See TJ5-56 in WP 0035 00.
P89-27	-	-	-	-	See TJ7-120 in WP 0035 01.
P89-28	-	-	-	-	See TJ7-120 in WP 0035 01.
P89-30	-	-	-	-	See TJ7-121 in WP 0035 01.
P89-31	-	-	-	-	See TJ7-121 in WP 0035 01.
P89-32	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-33	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-34	-	-	-	-	See TJ6-7 in WP 0035 00.
P89-35	-	-	-	-	See TJ7-105 in WP 0035 01.
P89-36	-	-	-	-	See TJ7-105 in WP 0035 01.
P89-37	-	-	-	-	See TJ5-116 in WP 0035 00.
P89-40	-	-	-	-	See TJ4-P in WP 0035 00.
P89-41	-	-	-	-	See TJ4-J in WP 0035 00.
P89-42	-	-	-	-	See TJ4-J in WP 0035 00.
P89-43	-	-	-	-	See TJ4-J in WP 0035 00.
P89-44	-	-	-	-	See TJ4-J in WP 0035 00.
P90-1	-	-	-	-	See TJ5-37 in WP 0035 00.

OIU WIRING LISTS - PART FOUR (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P90-2	-	-	-	-	See TJ5-37 in WP 0035 00.
P90-3	-	-	-	-	See TJ5-38 in WP 0035 00.
P90-4	-	-	-	-	See TJ5-39 in WP 0035 00.
P90-5	-	-	-	-	See TJ5-39 in WP 0035 00.
P90-6	-	-	-	-	See TJ5-125 in WP 0035 00.
P90-7	-	-	-	-	See TJ5-40 in WP 0035 00.
P90-8	-	-	-	-	See TJ5-40 in WP 0035 00.
P90-9	-	-	-	-	See TJ5-41 in WP 0035 00.
P90-10	-	-	-	-	See TJ5-42 in WP 0035 00.
P90-11	-	-	-	-	See TJ5-42 in WP 0035 00.
P90-12	-	-	-	-	See TJ5-43 in WP 0035 00.
P90-13	-	-	-	-	See TJ5-32 in WP 0035 00.
P90-14	-	-	-	-	See TJ5-32 in WP 0035 00.
P90-15	-	-	-	-	See TJ5-33 in WP 0035 00.
P90-16	-	-	-	-	See TJ5-33 in WP 0035 00.
P90-17	-	-	-	-	See TJ4-P in WP 0035 00.
P90-18	-	-	-	-	See TJ4-P in WP 0035 00.
P90-19	-	-	-	-	See TJ4-R in WP 0035 00.
P90-20	-	-	-	-	See TJ4-R in WP 0035 00.
P90-21	-	-	-	-	See TJ4-S in WP 0035 00.
P90-22	-	-	-	-	See TJ4-S in WP 0035 00.
P90-23	-	-	-	-	See TJ5-37 in WP 0035 00.
P90-24	-	-	-	-	See TJ5-38 in WP 0035 00.
P90-25	-	-	-	-	See TJ5-38 in WP 0035 00.
P90-26	-	-	-	-	See TJ5-39 in WP 0035 00.
P90-27	-	-	-	-	See TJ5-125 in WP 0035 00.
P90-28	-	-	-	-	See TJ5-125 in WP 0035 00.
P90-29	-	-	-	-	See TJ5-40 in WP 0035 00.
P90-30	-	-	-	-	See TJ5-41 in WP 0035 00.
P90-31	-	-	-	-	See TJ5-41 in WP 0035 00.
P90-32	-	-	-	-	See TJ5-42 in WP 0035 00.
P90-33	-	-	-	-	See TJ5-43 in WP 0035 00.
P90-34	-	-	-	-	See TJ5-43 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P90-35	-	-	-	-	See TJ5-32 in WP 0035 00.
P90-36	-	-	-	-	See TJ5-32 in WP 0035 00.
P90-37	-	-	-	-	See TJ5-33 in WP 0035 00.
P90-38	-	-	-	-	See TJ5-33 in WP 0035 00.
P90-39	-	-	-	-	See TJ4-P in WP 0035 00.
P90-40	-	-	-	-	See TJ4-P in WP 0035 00.
P90-41	-	-	-	-	See TJ4-R in WP 0035 00.
P90-42	-	-	-	-	See TJ4-R in WP 0035 00.
P90-43	-	-	-	-	See TJ4-S in WP 0035 00.
P90-44	-	-	-	-	See TJ4-S in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL)

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Table 1. OIU Connector Wiring List (Continued)

NOTE

Wire description terms used in the "Remarks" column are defined in the List of Abbreviations (WP 0001 00-2).

Table 1 continues in all five OIU Wiring List Work Packages.

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P91-1	-	-	-	-	See TJ5-36 in WP 0035 00.
P91-2	-	-	-	-	See TJ5-36 in WP 0035 00.
P91-3	-	-	-	-	See TJ5-20 in WP 0035 00.
P91-4	-	-	-	-	See TJ5-21 in WP 0035 00.
P91-5	-	-	-	-	See TJ5-21 in WP 0035 00.
P91-6	-	-	-	-	See TJ5-34 in WP 0035 00.
P91-7	-	-	-	-	See TJ5-35 in WP 0035 00.
P91-8	-	-	-	-	See TJ5-35 in WP 0035 00.
P91-9	-	-	-	-	See TJ5-19 in WP 0035 00.
P91-10	-	-	-	-	See TJ5-45 in WP 0035 00.
P91-11	-	-	-	-	See TJ5-45 in WP 0035 00.
P91-12	-	-	-	-	See TJ4-N in WP 0035 00.
P91-13	-	-	-	-	See TJ4-D in WP 0035 00.
P91-14	-	-	-	-	See TJ4-D in WP 0035 00.
P91-15	-	-	-	-	See TJ5-28 in WP 0035 00.
P91-16	-	-	-	-	See TJ5-28 in WP 0035 00.
P91-17	-	-	-	-	See TJ5-29 in WP 0035 00.
P91-18	-	-	-	-	See TJ5-29 in WP 0035 00.
P91-19	-	-	-	-	See TJ5-30 in WP 0035 00.
P91-20	-	-	-	-	See TJ5-30 in WP 0035 00.
P91-21	-	-	-	-	See TJ5-31 in WP 0035 00.
P91-22	-	-	-	-	See TJ5-31 in WP 0035 00.
P91-23	-	-	-	-	See TJ5-36 in WP 0035 00.
P91-24	-	-	-	-	See TJ5-20 in WP 0035 00.
P91-25	-	-	-	-	See TJ5-20 in WP 0035 00.
P91-26	-	-	-	-	See TJ5-21 in WP 0035 00.
P91-27	-	-	-	-	See TJ5-34 in WP 0035 00.
P91-28	-	-	-	-	See TJ5-34 in WP 0035 00.
P91-29	-	-	-	-	See TJ5-35 in WP 0035 00.
P91-30	-	-	-	-	See TJ5-19 in WP 0035 00.
P91-31	-	-	-	-	See TJ5-19 in WP 0035 00.
P91-32	-	-	-	-	See TJ5-45 in WP 0035 00.
P91-33	-	-	-	-	See TJ4-N in WP 0035 00.
P91-34	-	-	-	-	See TJ4-N in WP 0035 00.
P91-35	-	-	-	-	See TJ4-D in WP 0035 00.
P91-37	-	-	-	-	See TJ5-28 in WP 0035 00.
P91-38	-	-	-	-	See TJ5-28 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P91-39	-	-	-	-	See TJ5-29 in WP 0035 00.
P91-41	-	-	-	-	See TJ5-30 in WP 0035 00
P91-43	-	-	-	-	See TJ5-31 in WP 0035 00.
P92-3	-	-	-	-	See P34-8 in WP 0036 00.
P92-4	-	-	-	-	See P34-9 in WP 0036 00.
P92-5	-	-	-	-	See P34-9 in WP 0036 00.
P92-6	-	-	-	-	See P34-13 in WP 0036 00.
P92-7	-	-	-	-	See P34-14 in WP 0036 00.
P92-8	-	-	-	-	See P34-14 in WP 0036 00.
P92-9	-	-	-	-	See P34-15 in WP 0036 00.
P92-10	-	-	-	-	See P34-16 in WP 0036 00.
P92-11	-	-	-	-	See P34-16 in WP 0036 00.
P92-12	-	-	-	-	See P34-18 in WP 0036 00.
P92-13	-	-	-	-	See UJ2-6 in WP 0035 01.
P92-14	-	-	-	-	See UJ2-6 in WP 0035 01
P92-15	-	-	-	-	See DR7-1 in WP 0036 00.
P92-16	-	-	-	-	See DR7-1 in WP 0036 00.
P92-17	-	-	-	-	See P34-6 in WP 0036 00.
P92-18	-	-	-	-	See P34-6 in WP 0036 00.
P92-19	-	-	-	-	See P34-25 in WP 0036 00.
P92-20	-	-	-	-	See P34-25 in WP 0036 00.
P92-21	-	-	-	-	See DR6-1 in WP 0036 00.
P92-22	-	-	-	-	See DR6-1 in WP 0036 00.
P92-24	-	-	-	-	See P34-8 in WP 0036 00.
P92-25	-	-	-	-	See P34-8 in WP 0036 00.
P92-26	-	-	-	-	See P34-9 in WP 0036 00.
P92-27	-	-	-	-	See P34-13 in WP 0036 00.
P92-28	-	-	-	-	See P34-13 in WP 0036 00.
P92-29	-	-	-	-	See P34-14 in WP 0036 00.
P92-30	-	-	-	-	See P34-15 in WP 0036 00.
P92-31	-	-	-	-	See P34-15 in WP 0036 00.
P92-32	-	-	-	-	See P34-16 in WP 0036 00.
P92-33	-	-	-	-	See P34-18 in WP 0036 00.
P92-34	-	-	-	-	See P34-18 in WP 0036 00.
P92-35	-	-	-	-	See UJ2-6 in WP 0035 01.
P92-36	-	-	-	-	See UJ2-6 in WP 0035 01.
P92-37	-	-	-	-	See DR7-1 in WP 0036 00.
P92-38	-	-	-	-	See DR7-1 in WP 0036 00.
P92-39	-	-	-	-	See P34-6 in WP 0036 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P92-41	-	-	-	-	See P34-25 in WP 0036 00.
P92-44	-	-	-	-	See DR6-1 in WP 0036 00.
P93-1	-	-	-	-	See TJ5-11 in WP 0035 00.
P93-2	-	-	-	-	See TJ5-11 in WP 0035 00.
P93-3	-	-	-	-	See TJ5-12 in WP 0035 00.
P93-4	-	-	-	-	See TJ5-13 in WP 0035 00.
P93-5	-	-	-	-	See TJ5-13 in WP 0035 00.
P93-6	-	-	-	-	See TJ5-14 in WP 0035 00.
P93-7	-	-	-	-	See TJ5-15 in WP 0035 00.
P93-8	-	-	-	-	See TJ5-15 in WP 0035 00.
P93-9	-	-	-	-	See TJ5-16 in WP 0035 00.
P93-10	-	-	-	-	See TJ5-17 in WP 0035 00.
P93-11	-	-	-	-	See TJ5-17 in WP 0035 00.
P93-12	-	-	-	-	See TJ5-18 in WP 0035 00.
P93-13	-	-	-	-	See TJ5-22 in WP 0035 00.
P93-14	-	-	-	-	See TJ5-22 in WP 0035 00.
P93-15	-	-	-	-	See TJ5-23 in WP 0035 00.
P93-16	-	-	-	-	See TJ5-23 in WP 0035 00.
P93-17	-	-	-	-	See TJ5-24 in WP 0035 00.
P93-18	-	-	-	-	See TJ5-24 in WP 0035 00.
P93-19	-	-	-	-	See TJ5-25 in WP 0035 00.
P93-20	-	-	-	-	See TJ5-25 in WP 0035 00.
P93-21	-	-	-	-	See TJ4-B in WP 0035 00.
P93-22	-	-	-	-	See TJ4-B in WP 0035 00.
P93-23	-	-	-	-	See TJ5-11 in WP 0035 00.
P93-24	-	-	-	-	See TJ5-12 in WP 0035 00.
P93-25	-	-	-	-	See TJ5-12 in WP 0035 00.
P93-26	-	-	-	-	See TJ5-13 in WP 0035 00.
P93-27	-	-	-	-	See TJ5-14 in WP 0035 00.
P93-28	-	-	-	-	See TJ5-14 in WP 0035 00.
P93-29	-	-	-	-	See TJ5-15 in WP 0035 00.
P93-30	-	-	-	-	See TJ5-16 in WP 0035 00.
P93-31	-	-	-	-	See TJ5-16 in WP 0035 00.
P93-32	-	-	-	-	See TJ5-17 in WP 0035 00.
P93-33	-	-	-	-	See TJ5-18 in WP 0035 00.
P93-34	-	-	-	-	See TJ5-18 in WP 0035 00.
P93-35	-	-	-	-	See TJ5-22 in WP 0035 00.
P93-36	-	-	-	-	See TJ5-22 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P93-37	-	-	-	-	See TJ5-23 in WP 0035 00.
P93-38	-	-	-	-	See TJ5-23 in WP 0035 00.
P93-39	-	-	-	-	See TJ5-24 in WP 0035 00.
P93-40	-	-	-	-	See TJ5-24 in WP 0035 00.
P93-41	-	-	-	-	See TJ5-25 in WP 0035 00.
P93-42	-	-	-	-	See TJ5-25 in WP 0035 00.
P93-43	-	-	-	-	See TJ4-B in WP 0035 00.
P93-44	-	-	-	-	See TJ4-B in WP 0035 00.
P94-1	-	-	-	-	See TJ4-M in WP 0035 00.
P94-2	-	-	-	-	See TJ4-M in WP 0035 00.
P94-3	-	-	-	-	See TJ4-N in WP 0035 00.
P94-4	-	-	-	-	See TJ5-5 in WP 0035 00.
P94-5	-	-	-	-	See TJ5-5 in WP 0035 00.
P94-6	-	-	-	-	See TJ5-6 in WP 0035 00.
P94-7	-	-	-	-	See TJ5-7 in WP 0035 00.
P94-8	-	-	-	-	See TJ5-7 in WP 0035 00.
P94-9	-	-	-	-	See TJ5-8 in WP 0035 00.
P94-10	-	-	-	-	See TJ5-9 in WP 0035 00.
P94-11	-	-	-	-	See TJ5-9 in WP 0035 00.
P94-12	-	-	-	-	See TJ5-10 in WP 0035 00.
P94-13	-	-	-	-	See TJ4-X in WP 0035 00.
P94-14	-	-	-	-	See TJ4-X in WP 0035 00.
P94-15	-	-	-	-	See TJ4-Y in WP 0035 00.
P94-16	-	-	-	-	See TJ4-Y in WP 0035 00.
P94-17	-	-	-	-	See TJ5-44 in WP 0035 00.
P94-18	-	-	-	-	See TJ5-44 in WP 0035 00.
P94-19	-	-	-	-	See TJ4-a in WP 0035 00.
P94-20	-	-	-	-	See TJ4-a in WP 0035 00.
P94-21	-	-	-	-	See TJ4-b in WP 0035 00.
P94-22	-	-	-	-	See TJ4-b in WP 0035 00.
P94-23	-	-	-	-	See TJ4-M in WP 0035 00.
P94-24	-	-	-	-	See TJ4-N in WP 0035 00.
P94-25	-	-	-	-	See TJ4-N in WP 0035 00.
P94-26	-	-	-	-	See TJ5-5 in WP 0035 00.
P94-27	-	-	-	-	See TJ5-6 in WP 0035 00.
P94-28	-	-	-	-	See TJ5-6 in WP 0035 00.
P94-29	-	-	-	-	See TJ5-7 in WP 0035 00.
P94-30	-	-	-	-	See TJ5-8 in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P94-31	-	-	-	-	See TJ5-8 in WP 0035 00.
P94-32	-	-	-	-	See TJ5-9 in WP 0035 00.
P94-33	-	-	-	-	See TJ5-10 in WP 0035 00.
P94-34	-	-	-	-	See TJ5-10 in WP 0035 00.
P94-35	-	-	-	-	See TJ4-X in WP 0035 00.
P94-36	-	-	-	-	See TJ4-X in WP 0035 00.
P94-39	-	-	-	-	See TJ5-44 in WP 0035 00.
P94-41	-	-	-	-	See TJ4-a in WP 0035 00.
P94-42	-	-	-	-	See TJ4-a in WP 0035 00.
P95-1	-	-	-	-	See P52-44 in WP 0036 00.
P95-2	-	-	-	-	See TJ4-J in WP 0035 00.
P95-3	-	-	-	-	See P52-42 in WP 0036 00.
P95-6	-	-	-	-	See UJ2-11 in WP 0035 01.
P95-7	-	-	-	-	See UJ2-11 in WP 0035 01.
P95-9	-	-	-	-	See TJ4-J in WP 0035 00.
P95-10	-	-	-	-	See TJ4-J in WP 0035 00.
P95-11	-	-	-	-	See P52-44 in WP 0036 00.
P95-12	-	-	-	-	See TJ4-J in WP 0035 00.
P95-13	-	-	-	-	See P52-42 in WP 0036 00.
P95-15	-	-	-	-	See UJ2-11 in WP 0035 01.
P95-16	-	-	-	-	See UJ2-11 in WP 0035 01.
P95-17	-	-	-	-	See UJ2-11 in WP 0035 01.
P95-18	-	-	-	-	See TJ4-J in WP 0035 00.
P95-19	-	-	-	-	See TJ4-J in WP 0035 00.
P95-20	-	-	-	-	See TJ4-J in WP 0035 00.
P96-1	-	-	-	-	See P34-18 in WP 0036 00.
P96-2	-	-	-	-	See P34-6 in WP 0036 00.
P96-3	-	-	-	-	See P34-14 in WP 0036 00.
P96-4	-	-	-	-	See P34-8 in WP 0036 00.
P96-5	-	925	XDS2(+)	-	-
XDS2(+)	-	934	XDS3(+)	-	-
P96-6	-	-	-	-	See P34-29 in WP 0036 00.
P96-7	-	-	-	-	See P34-28 in WP 0036 00.
P96-9	-	34	PS1A2-4	-	TW5-2 (+15V) DISPLAY
P96-10	-	-	-	-	See P67-14 in WP 0036 01.
P96-11	-	-	-	-	See DR31-1 in WP 0036 00.
P96-12	-	35	PS1A2-5	-	TW5-2 (15V RTN) DISPLAY
P96-14	-	-	-	-	See P34-25 in WP 0036 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P96-15	-	-	-	-	See P34-9 in WP 0036 00.
P96-16	-	-	-	-	See UJ2-6 in WP 0035 01.
P96-17	-	-	-	-	See P34-13 in WP 0036 00.
P96-18	-	-	-	-	See P34-16 in WP 0036 00.
P96-19	-	-	-	-	See P34-15 in WP 0036 00.
P96-20	-	926	S1-3	-	-
S1-3	-	932	S2-3	-	-
S2-3	-	933	S3-3	-	-
P96-21	-	-	-	-	See UJ2-13 in WP 0035 01.
P96-22	-	-	-	-	See UJ2-14 in WP 0035 01.
P96-23	-	-	-	-	See UJ2-15 in WP 0035 01.
P96-24	-	930	XDS3(-)	-	-
P96-25	-	931	DS2(-)	-	-
P97-1	-	-	-	-	See TJ5-19 in WP 0035 00.
P97-2	-	-	-	-	See TJ5-64 in WP 0035 00.
P97-3	-	-	-	-	See TJ5-28 in WP 0035 00.
P97-4	-	-	-	-	See TJ8-105 in WP 0035 01.
P97-5	-	-	-	-	See TJ5-25 in WP 0035 00.
P97-6	-	-	-	-	See TJ4-NN in WP 0035 00.
P97-7	-	-	-	-	See J97-7 in WP 0036 00.
P97-8	-	-	-	-	See TJ6-124 in WP 0035 00.
P97-9	-	-	-	-	See TJ6-119 in WP 0035 00.
P97-10	-	-	-	-	See TJ8-104 in WP 0035 01.
P97-11	-	-	-	-	See J97-11 in WP 0036 00.
P97-12	-	-	-	-	See TJ6-109 in WP 0035 00.
P97-13	-	-	-	-	See TJ6-105 in WP 0035 00.
P97-14	-	-	-	-	See TJ5-24 in WP 0035 00.
P97-16	-	-	-	-	See TJ6-81 in WP 0035 00.
P97-17	-	-	-	-	See TJ4-B in WP 0035 00.
P97-18	-	-	-	-	See TJ4-D in WP 0035 00.
P97-19	-	-	-	-	See TJ4-PP in WP 0035 00.
P97-20	-	-	-	-	See TJ7-2 in WP 0035 01.
P97-21	-	-	-	-	See J97-21 in WP 0036 00.
P97-22	-	-	-	-	See TJ5-116 in WP 0035 00.
P97-23	-	-	-	-	See TJ5-18 in WP 0035 00.
P97-24	-	-	-	-	See TJ5-22 in WP 0035 00.
P97-25	-	-	-	-	See TJ5-33 in WP 0035 00.
P98-1	-	-	-	-	See TJ6-108 in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P98-2	-	-	-	-	See J98-2 in WP 0036 00.
P98-3	-	-	-	-	See J98-3 in WP 0036 00.
P98-4	-	-	-	-	See TJ4-R in WP 0035 00.
P98-5	-	-	-	-	See TJ8-98 in WP 0035 01.
P98-6	-	-	-	-	See J98-6 in WP 0036 00.
P98-7	-	-	-	-	See TJ4-H in WP 0035 00.
P98-8	-	-	-	-	See J98-8 in WP 0036 00.
P98-9	-	-	-	-	See TJ5-22 in WP 0035 00.
P98-10	-	-	-	-	See TJ5-33 in WP 0035 00.
P98-11	-	-	-	-	See TJ8-109 in WP 0035 01.
P98-12	-	-	-	-	See TJ6-110 in WP 0035 00.
P98-13	-	-	-	-	See TJ5-18 in WP 0035 00.
P98-14	-	-	-	-	See TJ8-109 in WP 0035 01.
P98-15	-	-	-	-	See TJ5-30 in WP 0035 00.
P98-16	-	-	-	-	See J98-16 in WP 0036 00.
P98-17	-	-	-	-	See J98-17 in WP 0036 00.
P98-18	-	-	-	-	See J98-18 in WP 0036 00.
P98-19	-	-	-	-	See J98-19 in WP 0036 00.
P98-20	-	-	-	-	See TJ8-118 in WP 0035 01.
P98-21	-	-	-	-	See TJ8-118 in WP 0035 01.
P98-22	-	-	-	-	See TJ8-118 in WP 0035 01.
P98-23	-	-	-	-	See TJ4-H in WP 0035 00.
P98-24	-	-	-	-	See TJ6-107 in WP 0035 00.
P98-25	-	-	-	-	See TJ6-111 in WP 0035 00.
P99-1	-	-	-	-	See TJ6-61 in WP 0035 00.
P99-2	-	-	-	-	See TJ10-AA in WP 0035 01.
P99-3	-	-	-	-	See TJ6-56 in WP 0035 00.
P99-4	-	-	-	-	See TJ4-H in WP 0035 00.
P99-7	-	-	-	-	See TJ6-58 in WP 0035 00.
P99-8	-	-	-	-	See TJ10-Y in WP 0035 01.
P99-9	-	-	-	-	See TJ10-g in WP 0035 01.
P99-10	-	-	-	-	See TJ10-f in WP 0035 01.
P99-11	-	-	-	-	See TJ6-15 in WP 0035 00.
P99-12	-	-	-	-	See TJ7-30 in WP 0035 01.
P99-13	-	-	-	-	See TJ7-15 in WP 0035 01.
P99-14	-	-	-	-	See TJ6-83 in WP 0035 00.
P99-15	-	-	-	-	See TJ10-BB in WP 0035 01.
P99-16	-	-	-	-	See TJ6-57 in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P99-17	-	-	-	-	See TJ10-h in WP 0035 01.
P99-18	-	-	-	-	See TJ10-U in WP 0035 01.
P99-19	-	-	-	-	See TJ10-V in WP 0035 01.
P99-20	-	-	-	-	See TJ10-W in WP 0035 01.
P99-21	-	-	-	-	See TJ10-X in WP 0035 01.
P99-22	-	-	-	-	See TJ4-J in WP 0035 00.
P99-23	-	-	-	-	See TJ5-25 in WP 0035 00.
P99-24	-	-	-	-	See TJ7-16 in WP 0035 01.
P99-25	-	-	-	-	See C9(+E3 in WP 0036 00.
P100-1	-	-	-	-	See TJ4-B in WP 0035 00.
P100-2	-	-	-	-	See TJ4-D in WP 0035 00.
P100-3	-	-	-	-	See TJ5-127 in WP 0035 00.
P100-4	-	-	-	-	See TJ5-127 in WP 0035 00.
P100-5	-	-	-	-	See J100-5 in WP 0036 00.
P100-8	-	-	-	-	See TJ6-108 in WP 0035 00.
P100-9	-	-	-	-	See TJ6-105 in WP 0035 00.
P100-10	-	-	-	-	See TJ6-109 in WP 0035 00.
P100-11	-	-	-	-	See TJ8-118 in WP 0035 01.
P101-A	-	-	-	-	See P56-22 in WP 0036 00.
P101-B	-	-	-	-	See P56-4 in WP 0036 00.
P101-D	-	-	-	-	See P56-11 in WP 0036 00.
P101-E	-	-	-	-	See P56-10 in WP 0036 00.
P101-H	-	-	-	-	See DR 19-1 in WP 0036 00.
P102-A	-	-	-	-	See FL1-LD-RTN in WP 036 00.
P102-C	-	-	-	-	See FL1-LD+28V in WP 0036 00.
P103-1	-	-	-	-	See UJ2-16 in WP 0035 01.
P103-2	-	-	-	-	See P36-35 in WP 0036 00.
P103-3	-	-	-	-	See P52-42 in WP 0036 00.
P103-4	-	-	-	-	See TJ4-J in WP 0035 00.
P103-5	-	-	-	-	See P52-44 in WP 0036 00.
P103-6	-	-	-	-	See DR5-3 in WP 0036 00.
P103-7	-	-	-	-	See TJ4-J in WP 0035 00.
P103-8	-	-	-	-	See TJ4-J in WP 0035 00.
P103-9	-	-	-	-	See UJ2-11 in WP 0035 01.
P103-10	-	-	-	-	See UJ2-11 in WP 0035 01
P103-12	-	-	-	-	See UJ2-17 in WP 0035 01.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P103-13	-	-	-	-	See P52-42 in WP 0036 00.
P103-14	-	-	-	-	See TJ4-J in WP 0035 00.
P103-15	-	-	-	-	See P52-44 in WP 0036 00.
P103-16	-	-	-	-	See TJ4-J in WP 0035 00.
P103-17	-	-	-	-	See TJ2-10 in WP 0035 00.
P103-18	-	-	-	-	See UJ3-H in WP 0035 01.
P103-19	-	-	-	-	See UJ2-11 in WP 0035 01.
P104-1	A34-1	-	-	-	See UJ3-X in WP 0035 01.
P104-2	A34-2	-	-	-	See P34-6 in WP 0036 00.
P104-3	A34-3	-	-	-	See UJ3-V in WP 0035 01.
P104-4	A34-4	-	-	-	See P34-16 in WP 0036 00.
P104-5	A34-5	-	-	-	See UJ2-21 in WP 0035 01.
P104-6	A34-6	-	-	-	See UJ2-20 in WP 0035 01.
P104-7	A34-7	-	-	-	See UJ2-18 in WP 0035 01.
P104-8	A34-8	-	-	-	See UJ2-6 in WP 0035 01.
P104-9	A34-9	-	-	-	See P34-8 in WP 0036 00.
P104-10	A34-10	-	-	-	See UJ3-D in WP 0035 01.
P104-11	A34-11	-	-	-	See UJ3-E in WP 0035 01.
P104-12	A34-12	-	-	-	See UJ3-T in WP 0035 01.
P104-13	A34-13	-	-	-	See UJ3-P in WP 0035 01.
P104-14	A34-14	-	-	-	See UJ3-U in WP 0035 01.
P104-15	A34-15	-	-	-	See UJ3-a in WP 0035 01.
P104-17	A34-17	-	-	-	See UJ2-26 in WP 0035 01.
P104-18	A34-18	-	-	-	See UJ2-28 in WP 0035 01.
P104-19	A34-19	-	-	-	See P34-9 in WP 0036 00.
P104-20	A34-20	-	-	-	See P34-12 in WP 0036 00.
P104-21	A34-21	-	-	-	See P34-10 in WP 0036 00.
P104-22	A34-22	-	-	-	See P34-11 in WP 0036 00.
P104-23	A34-46	-	-	-	See UJ3-W in WP 0035 01.
P104-24	A34-47	-	-	-	See UJ3-Z in WP 0035 01.
P104-25	A34-48	-	-	-	See P34-15 in WP 0036 00.
P104-26	A34-49	-	-	-	See P34-14 in WP 0036 00.
P104-27	A34-50	-	-	-	See UJ2-19 in WP 0035 01.
P104-28	A34-51	-	-	-	See UJ2-23 in WP 0035 01.
P104-29	A34-52	-	-	-	See UJ2-22 in WP 0035 01.
P104-30	A34-53	-	-	-	See P34-25 in WP 0036 00.
P104-31	A34-54	-	-	-	See P34-7 in WP 0036 00.
P104-32	A34-55	-	-	-	See UJ3-B in WP 0035 01.
P104-34	A34-57	-	-	-	See UJ2-33 in WP 0035 01.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P104-35	A34-58	-	-	-	See UJ3-S in WP 0035 01.
P104-36	A34-59	-	-	-	See UJ3-Y in WP 0035 01.
P104-37	A34-60	-	-	-	See P34-17 in WP 0036 00.
P104-38	A34-61	-	-	-	See P34-18 in WP 0036 00.
P104-39	A34-62	-	-	-	See UJ2-27 in WP 0035 01.
P104-40	A34-63	-	-	-	See UJ2-25 in WP 0035 01.
P104-41	A34-64	-	-	-	See UJ2-29 in WP 0035 01.
P104-42	A34-65	-	-	-	See UJ2-31 in WP 0035 01.
P104-43	A34-66	-	-	-	See UJ2-32 in WP 0035 01.
P104-44	A34-67	-	-	-	See UJ2-24 in WP 0035 01.
P105-1	A34-39	1616	P105-8	A34-84	-
P105-2	A34-40	-	-	-	See UJ2-4 in WP 0035 01.
P105-4	A34-42	-	-	-	See P36-28 in WP 0036 00.
P105-5	A34-43	1579	P105-14	A34-90	-
P105-6	A34-44	1580	P105-7	A34-45	-
P105-7	A34-45	-	-	-	See P105-6 in this WP.
P105-8	A34-84	-	-	-	See P105-1 in this WP.
P105-9	A34-85	-	-	-	See UJ2-8 in WP 0035 01.
P105-10	A34-86	-	-	-	See UJ2-7 in WP 0035 01.
P105-11	A34-87	-	-	-	See P34-13 in WP 0036 00.
P105-12	A34-88	-	-	-	See DR42-3 in WP 0036 00.
P105-13	A34-89	-	-	-	See DR42-3 in WP 0036 00.
P105-14	A34-90	-	-	-	See P105-5 in this WP.
P106-1	A35-1	-	-	-	See TJ10-b in WP 0035 01.
P106-2	A35-2	-	-	-	See TJ10-d in WP 0035 01.
P106-3	A35-3	-	-	-	See TJ10-H in WP 0035 01.
P106-4	A35-4	-	-	-	See TJ5-127 in WP 0035 00.
P106-5	A35-5	-	-	-	See TJ7-88 in WP 0035 01.
P106-6	A35-6	-	-	-	See TJ7-89 in WP 0035 01.
P106-7	A35-7	-	-	-	See TJ7-90 in WP 0035 01.
P106-8	A35-8	-	-	-	See TJ7-91 in WP 0035 01.
P106-9	A35-9	-	-	-	See TJ7-92 in WP 0035 01.
P106-10	A35-10	-	-	-	See TJ9-12 in WP 0035 01.
P106-11	A35-11	-	-	-	See TJ9-13 in WP 0035 01.
P106-12	A35-12	-	-	-	See TJ9-14 in WP 0035 01.
P106-13	A35-13	-	-	-	See TJ9-15 in WP 0035 01.
P106-14	A35-14	-	-	-	See TJ9-16 in WP 0035 01.
P106-15	A35-15	-	-	-	See TJ9-17 in WP 0035 01.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P106-16	A35-16	-	-	-	See TJ9-18 in WP 0035 01.
P106-17	A35-17	-	-	-	See TJ7-83 in WP 0035 01.
P106-22	A35-22	-	-	-	See TJ9-29 in WP 0035 01.
P106-23	A35-46	-	-	-	See TJ10-b in WP 0035 01.
P106-24	A35-47	-	-	-	See TJ10-d in WP 0035 01.
P106-25	A35-48	-	-	-	See TJ10-H in WP 0035 01.
P106-27	A35-50	-	-	-	See TJ7-88 in WP 0035 01.
P106-28	A35-51	-	-	-	See TJ7-89 in WP 0035 01.
P106-29	A35-52	-	-	-	See TJ7-90 in WP 0035 01.
P106-30	A35-53	-	-	-	See TJ7-91 in WP 0035 01.
P106-31	A35-54	-	-	-	See TJ7-92 in WP 0035 01.
P106-32	A35-55	-	-	-	See TJ9-12 in WP 0035 01.
P106-33	A35-56	-	-	-	See TJ9-13 in WP 0035 01.
P106-34	A35-57	-	-	-	See TJ9-14 in WP 0035 01.
P106-35	A35-58	-	-	-	See TJ9-15 in WP 0035 01.
P106-36	A35-59	-	-	-	See TJ9-16 in WP 0035 01.
P106-37	A35-60	-	-	-	See TJ9-17 in WP 0035 01.
P106-38	A35-61	-	-	-	See TJ9-18 in WP 0035 01.
P106-39	A35-62	-	-	-	See TJ7-83 in WP 0035 01.
P106-42	A35-65	-	-	-	See TJ9-1 in WP 0035 01.
P106-44	A35-67	-	-	-	See UJ2-11 in WP 0035 01.
P107-1	A35-39	-	-	-	See TJ7-83 in WP 0035 01.
P107-2	A35-40	-	-	-	See TJ7-84 in WP 0035 01.
P107-3	A35-41	-	-	-	See TJ9-22 in WP 0035 01.
P107-8	A35-84	-	-	-	See TJ7-83 in WP 0035 01.
P107-9	A35-85	-	-	-	See TJ7-84 in WP 0035 01.
P107-10	A35-86	-	-	-	See TJ9-22 in WP 0035 01.
P107-12	A35-88	-	-	-	See TJ4-J in WP 0035 00.
P107-13	A35-89	-	-	-	See C9(+)E3 in WP 0036 00.
P108-1	A36-1	-	-	-	See TJ7-82 in WP 0035 01.
P108-2	A36-2	-	-	-	See TJ7-81 in WP 0035 01.
P108-3	A36-3	-	-	-	See TJ9-22 in WP 0035 01.
P108-4	A36-4	-	-	-	See TJ9-23 in WP 0035 01.
P108-5	A36-5	-	-	-	See TJ9-24 in WP 0035 01.
P108-6	A36-6	-	-	-	See TJ9-25 in WP 0035 01.
P108-7	A36-7	-	-	-	See TJ9-26 in WP 0035 01.
P108-8	A36-8	-	-	-	See TJ9-27 in WP 0035 01.
P108-9	A36-9	-	-	-	See TJ7-84 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P108-10	A36-10	-	-	-	See TJ9-52 in WP 0035 01.
P108-11	A36-11	-	-	-	See TJ9-53 in WP 0035 01.
P108-12	A36-12	-	-	-	See TJ9-54 in WP 0035 01.
P108-13	A36-13	-	-	-	See TJ9-55 in WP 0035 01.
P108-14	A36-14	-	-	-	See TJ9-56 in WP 0035 01.
P108-15	A36-15	-	-	-	See TJ9-57 in WP 0035 01.
P108-16	A36-16	-	-	-	See TJ7-69 in WP 0035 01.
P108-17	A36-17	-	-	-	See TJ7-80 in WP 0035 01.
P108-23	A36-46	-	-	-	See TJ7-82 in WP 0035 01.
P108-24	A36-47	-	-	-	See TJ7-81 in WP 0035 01.
P108-25	A36-48	-	-	-	See TJ9-22 in WP 0035 01.
P108-26	A36-49	-	-	-	See TJ9-23 in WP 0035 01.
P108-27	A36-50	-	-	-	See TJ9-24 in WP 0035 01.
P108-31	A36-54	-	-	-	See TJ7-84 in WP 0035 01.
P108-32	A36-55	-	-	-	See TJ9-52 in WP 0035 01.
P108-33	A36-56	-	-	-	See TJ9-53 in WP 0035 01.
P108-34	A36-57	-	-	-	See TJ9-54 in WP 0035 01.
P108-35	A36-58	-	-	-	See TJ9-55 in WP 0035 01.
P108-36	A36-59	-	-	-	See TJ9-56 in WP 0035 01.
P108-37	A36-60	-	-	-	See TJ9-57 in WP 0035 01.
P108-38	A36-61	-	-	-	See TJ7-69 in WP 0035 01.
P108-39	A36-62	-	-	-	See TJ7-80 in WP 0035 01.
P108-44	A36-67	-	-	-	See UJ2-11 in WP 0035 01.
P109-1	A36-39	-	-	-	See TJ7-81 in WP 0035 01.
P109-2	A36-40	-	-	-	See TJ7-82 in WP 0035 01.
P109-3	A36-41	-	-	-	See TJ7-80 in WP 0035 01.
P109-5	A36-43	-	-	-	See TJ7-69 in WP 0035 01.
P109-8	A36-84	-	-	-	See TJ7-81 in WP 0035 01.
P109-9	A36-85	-	-	-	See TJ7-82 in WP 0035 01.
P109-10	A36-86	-	-	-	See TJ7-80 in WP 0035 01.
P109-12	A36-88	-	-	-	See TJ4-J in WP 0035 00.
P109-13	A36-89	-	-	-	See C9(+)E3 in WP 0036 00.
P112-1	A38-1	-	-	-	See DR52-1 in WP 0036 00.
P112-2	A38-2	-	-	-	See TJ4-J in WP 0035 00.
P112-3	A38-3	-	-	-	See TJ5-115 in WP 0035 00.
P112-6	A38-6	-	-	-	See TJ5-62 in WP 0035 00.
P112-8	A38-8	-	-	-	See TJ5-2 in WP 0035 00.
P112-9	A38-9	-	-	-	See TJ4-J in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

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Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P112-10	A38-10	-	-	-	See TJ4-h in WP 0035 00.
P112-11	A38-11	-	-	-	See TJ9-57 in WP 0035 01.
P112-12	A38-12	-	-	-	See TJ4-C in WP 0035 00.
P112-14	A38-14	-	-	-	See TJ7-94 in WP 0035 01.
P112-15	A38-15	-	-	-	See TJ9-63 in WP 0035 01.
P112-16	A38-16	-	-	-	See TJ4-e in WP 0035 00.
P112-17	A38-17	-	-	-	See TJ9-57 in WP 0035 01.
P112-18	A38-18	-	-	-	See TJ4-E in WP 0035 00.
P112-20	A38-20	-	-	-	See TJ4-k in WP 0035 00.
P112-21	A38-21	-	-	-	See TJ4-j in WP 0035 00.
P112-22	A38-22	-	-	-	See C9(+)E3 in WP 0036 00.
P112-25	A38-48	-	-	-	See TJ5-115 in WP 0035 00.
P112-28	A38-51	-	-	-	See TJ4-J in WP 0035 00.
P112-29	A38-52	-	-	-	See P52-33 in WP 0036 00.
P112-30	A38-53	-	-	-	See TJ5-65 in WP 0035 00.
P112-32	A38-55	-	-	-	See TJ4-e in WP 0035 00.
P112-33	A38-56	-	-	-	See TJ4-h in WP 0035 00.
P112-35	A38-58	-	-	-	See TJ9-62 in WP 0035 01.
P112-36	A38-59	-	-	-	See TJ9-61 in WP 0035 01.
P112-38	A38-61	-	-	-	See TJ4-c in WP 0035 00.
P112-39	A38-62	-	-	-	See TJ4-e in WP 0035 00.
P112-41	A38-64	-	-	-	See TJ4-J in WP 0035 00.
P112-42	A38-65	1627	P124-B	-	Fan Monitor
P112-43	A38-66	-	-	-	See TJ4-j in WP 0035 00.
P113-1	A38-39	-	-	-	See P67-14 in WP 0036 01.
P113-2	A38-40	-	-	-	See P67-14 in WP 0036 01.
P113-3	A38-41	-	-	-	See TJ9-63 in WP 0035 01.
P113-6	A38-44	-	-	-	See TJ4-e in WP 0035 00.
P113-7	A38-45	-	-	-	See TJ4-J in WP 0035 00.
P113-8	A38-84	-	-	-	See UJ3-A in WP 0035 01.
P113-9	A38-85	-	-	-	See UJ2-5 in WP 0035 01.
P113-10	A38-86	-	-	-	See TJ4-c in WP 0035 00.
P113-12	A38-88	-	-	-	See TJ4-e in WP 0035 00.
P113-13	A38-89	-	-	-	See TJ7-93 in WP 0035 01.
P113-14	A38-90	-	-	-	See TJ4-J in WP 0035 00.
P116-1	-	-	-	-	See TJ7-82 in WP 0035 01.
P116-2	-	-	-	-	See TJ7-82 in WP 0035 01.
P116-3	-	-	-	-	See TJ7-83 in WP 0035 01.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
P116-4	-	-	-	-	See TJ7-84 in WP 0035 01.
P116-5	-	-	-	-	See TJ7-84 in WP 0035 01.
P116-7	-	-	-	-	See UJ2-8 in WP 0035 01.
P116-8	-	-	-	-	See UJ2-8 in WP 0035 01.
P116-9	-	-	-	-	See UJ2-7 in WP 0035 01.
P116-10	-	-	-	-	See TJ5-115 in WP 0035 00.
P116-11	-	-	-	-	See TJ5-115 in WP 0035 00.
P116-13	-	-	-	-	See TJ5-62 in WP 0035 00.
P116-14	-	-	-	-	See TJ5-62 in WP 0035 00.
P116-23	-	-	-	-	See TJ7-82 in WP 0035 01.
P116-24	-	-	-	-	See TJ7-83 in WP 0035 01.
P116-25	-	-	-	-	See TJ7-83 in WP 0035 01.
P116-26	-	-	-	-	See TJ7-84 in WP 0035 01.
P116-29	-	-	-	-	See UJ2-8 in WP 0035 01.
P116-30	-	-	-	-	See UJ2-7 in WP 0035 01.
P116-31	-	-	-	-	See UJ2-7 in WP 0035 01.
P116-32	-	-	-	-	See TJ5-115 in WP 0035 00.
P116-35	-	-	-	-	See TJ5-62 in WP 0035 00.
P116-36	-	-	-	-	See TJ5-62 in WP 0035 00.
P124-B	-	-	-	-	See P112-42 in this WP.
P124-C	-	-	-	-	See UJ2-11 in WP 0035 01.
P124-D	-	-	-	-	See P37-7 in WP 0036 00.
PCM-IN(+)	-	-	-	-	See UJ1-B in WP 0035 01.
PCM-IN(-)	-	-	-	-	See UJ1-A in WP 0035 01.
PCM-OUT(+)	-	-	-	-	See CB1-1-LINE in WP 0036 00.
PCM-OUT(-)	-	-	-	-	See TJ4-J in WP 0035 00.
PS1A1-1	-	-	-	-	See FL1-LD-RTN in WP 0036 00.
PS1A1-2	-	-	-	-	See FL1-LD+28V in WP 0036 00.
PS1A1-3	-	-	-	-	See UJ2-11 in WP 0035 01.
PS1A1-4	-	-	-	-	See TJ4-J in WP 0035 00.
PS1A2-3	-	-	-	-	See P52-42 in WP 0036 00.
PS1A2-4	-	-	-	-	See P96-9 in this WP.
PS1A2-5	-	-	-	-	See P96-12 in this WP.
PS1A2-6	-	-	-	-	See TJ4-J in WP 0035 00.
PS1A2-7	-	-	-	-	See P52-44 in WP 0036 00.
Q1-1	-	-	-	-	See J98-8 in WP 0036 00.
Q1-2	-	-	-	-	See TJ4-H in WP 0035 00.
Q1-CASE	-	-	-	-	See TJ8-118 in WP 0035 01.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

0037 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
R1-1	-	-	-	-	See C8-1 in WP 0036 00.
R1-2	-	-	-	-	See K1-A2 and P74-19 in WP 0036 00.
S1-3	-	-	-	-	See P96-20 in this WP.
S1-4	-	-	-	-	See UJ2-13 in WP 0035 01.
S2-3	-	-	-	-	See P96-20 in this WP.
S2-4	-	-	-	-	See UJ2-14 in WP 0035 01.
S3-3	-	-	-	-	See P96-20 in this WP.
S3-4	-	-	-	-	See UJ2-15 in WP 0035 01.
TB1-1A	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1B	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1C	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1D	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1E	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1F	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1G	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-1H	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2A	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2B	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2D	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2E	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2H	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2J	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-2K	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-3A	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3B	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3C	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3D	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3E	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-3H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4A	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4B	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4C	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4D	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4E	-	-	-	-	See TJ4-J in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TB1-4F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4J	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-4K	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5A	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5B	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5D	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5E	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5J	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-5K	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-6A	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6B	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6C	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6D	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6E	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6F	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6G	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6H	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-6J	-	-	-	-	See TJ4-H in WP 0035 00.
TB1-7A	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7B	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7C	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7D	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7E	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7F	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7G	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7H	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7J	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-7K	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-8A	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8B	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8C	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8D	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8E	-	-	-	-	See TJ4-J in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

0037 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TB1-8F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8J	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-8K	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-9A	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-9B	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-9C	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-9D	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-9F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-9G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-9H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-9J	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-9K	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-10A	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-10B	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-10C	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-10D	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB1-10F	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-10G	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-10H	-	-	-	-	See TJ4-J in WP 0035 00.
TB1-10J	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-1B	-	-	-	-	See P52-44 in WP 0036 00.
TB2-1C	-	-	-	-	See P52-44 in WP 0036 00.
TB2-1D	-	-	-	-	See P52-44 in WP 0036 00.
TB2-1E	-	-	-	-	See P52-44 in WP 0036 00.
TB2-1F	-	-	-	-	See P52-42 in WP 0036 00.
TB2-1G	-	-	-	-	See P52-42 in WP 0036 00.
TB2-1H	-	-	-	-	See P52-42 in WP 0036 00.
TB2-1J	-	-	-	-	See P52-42 in WP 0036 00.
TB2-1K	-	-	-	-	See P52-42 in WP 0036 00.
TB2-2A	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2B	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2C	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2D	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2E	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2F	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2G	-	-	-	-	See TJ4-J in WP 0035 00.

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TB2-2H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2J	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-2K	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3A	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3B	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3C	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3D	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3E	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3F	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3G	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3J	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-3K	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-4A	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-4B	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-4C	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-4D	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-4E	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-4F	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-4G	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-4H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-5A	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5B	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5C	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5D	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5E	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5F	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5G	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5H	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5J	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-5K	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-6A	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6B	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6C	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6D	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6E	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6F	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6G	-	-	-	-	See TJ4-J in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

0037 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TB2-6H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6J	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-6K	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-7A	-	-	-	-	See P52-42 in WP 0036 00.
TB2-7B	-	-	-	-	See P52-42 in WP 0036 00.
TB2-7C	-	-	-	-	See P52-42 in WP 0036 00.
TB2-7D	-	-	-	-	See P52-42 in WP 0036 00.
TB2-7F	-	-	-	-	See P52-44 in WP 0036 00.
TB2-7G	-	-	-	-	See P52-44 in WP 0036 00.
TB2-7H	-	-	-	-	See P52-44 in WP 0036 00.
TB2-8A	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8B	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8C	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8D	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8E	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8G	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8H	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-8K	-	-	-	-	See C9(+)E3 in WP 0036 00.
TB2-9A	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-9B	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-9D	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-9E	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-9G	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-9H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-10A	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-10B	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-10C	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-10D	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-10E	-	-	-	-	See UJ2-11 in WP 0035 01.
TB2-10F	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-10G	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-10H	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-10J	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-10K	-	-	-	-	See TJ4-J in WP 0035 00.
TB2-1A	-	-	-	-	See P52-44 in WP 0036 00.
TB3-1A	-	-	-	-	See TJ4-J in WP 0035 00.
TB3-1B	-	-	-	-	See TJ4-J in WP 0035 00.
TB3-1C	-	-	-	-	See TJ4-J in WP 0035 00.

OIU WIRING LISTS - PART FIVE (ALPHANUMERICAL) - CONTINUED

0037 00

Table 1. OIU Connector Wiring List (Continued)

From	Circuit Card	Wire Number	To	Circuit Card	Remarks
TB3-1D	-	-	-	-	See TJ4-J in WP 0035 00.
TB3-1E	-	-	-	-	See C8-1 in WP 0036 00.
TB3-1F	-	-	-	-	See C8-1 in WP 0036 00.
TB3-1G	-	-	-	-	See C8-1 in WP 0036 00.
TB4-1A	-	-	-	-	See TJ4-J in WP 0035 00.
TB4-1B	-	-	-	-	See TJ4-J in WP 0035 00.
TB4-1C	-	-	-	-	See TJ4-J in WP 0035 00.
TB4-4D	-	-	-	-	See TJ4-J in WP 0035 00.
TB4-1F	-	-	-	-	See UJ2-11 in WP 0035 01.
TB4-1G	-	-	-	-	See UJ2-11 in WP 0035 01.
TB4-1H	-	-	-	-	See UJ2-11 in WP 0035 01.
TB4-1J	-	-	-	-	See UJ2-11 in WP 0035 01.
TB4-1K	-	-	-	-	See UJ2-11 in WP 0035 01.
TJ7-72	-	331	P43-18	A16-45	-
VR1-1	-	-	-	-	See J98-19 in WP 0036 00.
VR1-2	-	-	-	-	See J98-8 in WP 0036 00.
VR1-CASE	-	-	-	-	See TJ8-118 in WP 0035 01.
XDS1(+)	-	-	-	-	See TJ4-J in WP 0035 00.
XDS1(-)	-	-	-	-	See P52-42 in WP 0036 00.

OIU SELF TEST CIRCUIT CARD ASSEMBLY WIRING LIST

0038 00

Table 1. OIU Self Test Circuit Card Assembly Wiring List

Indicated Failure (Shown On Display) Circuit Card	Alternate Failure Circuit Card	Internal Wiring					
		From				To	
		Pin	Connector	Pin	Wire ID	Connector	Pin
A12	A28	A12-34	P39	7	936	P76	16
		A12-44	P39	17	144	TB1-7	J
		A28-88	P63	12	938	P76	37
A13	A25	A13-33	P40	6	242	P94	2
		A13-44	P40	17	127	TB1-7	B
		A25-8	P58	8	511	P94	23
		A25-52	P58	29	402	P48	1
A14	A28	A14-84	P41	30	290	P75	20
		A14-44	P41	17	129	TB1-7	C
		A28-65	P64	42	692	P75	41
A16	A27	A16-43	P43	16	329	P79	20
		A16-73	P43	19	332	P79	22
		A27-43	P61	5	604	P79	41
		A27-42	P61	4	603	P79	43
	A20	A20-44	P47	6	399	P79	42
	A21	A21-44	P49	6	475	P79	44
	A22	A22-46	P52	23	1432	K3	X1
	A22-87	P51	11	904	K3	X2	
A22-3	P52	3	138	TB1-8	H		
A20	A28	A20-19	P48	19	420	P87	28
		A28-51	P64	28	682	P87	27
A21	A27	A21-1	P50	1	443	P84	22
		A21-89	P49	13	136	TB1-7	F
		A27-49	P62	26	633	P84	43
	A13	A13-88	P84	44	705	P75	26
A22	A28	A22-18	P40	34	266	P75	5
		A22-1	P52	18	1566	P112	16
		A28-85	P52	1	137	TB1-7	H
		A38-88	P63	9	481	P52	5
A23	A20	A22-18	P113	12	1610	P52	39
		A23-45	P53	7	979	P88	39
		A23-48	P54	25	78	TB1-9	B
	A29	A20-20	P48	20	421	P88	18
		A29-13	P88	17	841	P116	36
		A38-6	P66	13	948	P116	35
A24	A28	A24-49	P112	6	1533	P116	14
		A28-86	P56	26	1433	P63	10
A31		A31-48	P63	10			
		A31-64	P70	25	1134	P80	15
		A31-65	P70	41	1121	P89	31
			P70	42	1119	P89	28

Table 1. OIU Self Test Circuit Card Assembly Wiring List (Continued)

Indicated Failure (Shown on Display) Circuit Card	Alternate Failure Circuit Card	Internal Wiring					
		From				To	
		Pin	Connector	Pin	Wire ID	Connector	Pin
A31 (Continued)	A29	A29-67	P66	44	1136	P80	38
	A38	A38-10	P112	10	1569	P80	18
	A18	A18-41	P45	14	1120	P89	30
		A18-36	P45	9	1118	P89	27
	A8	N/A	N/A	N/A	N/A	N/A	N/A
	A31	A31-55	P70	32	1143	P81	33
	A27	A27-84	P61	8	607	P81	34
	A7	N/A	N/A	N/A	N/A	N/A	N/A
A32	A29	A32-19	P72	19	1350	P77	35
		A32-18	P72	18	1351	P77	15
		A29-66	P66	43	1234	P77	13
		A29-65	P66	42	1233	P77	16
	A33	A33-1	P74	1	1279	P77	14
A33	A30	A33-86	P73	10	1276	P67	9
		A33-85	P73	9	1275	P67	2
		A30-85	P67	9			
		A30-40	P67	2			
A35	A30	A35-48	P106	25	1471	P67	4
		A30-42	P67	4			
A36	A25	A36-10	P108	10	1474	P77	2
		A25-90	P57	14	1473	P77	1
A38	A29	A38-3	P112	3	1493	P116	10
		A38-48	P112	25	1589	P39	10
		A29-51	P66	28	1495	P116	32
		A12	A12-37	P39	10		

**Table 1. Thermal Sight Collimator
Interconnecting Wiring List
(W/O Sensitive Switch)**

From	To
W1J1	
W1J1-A	W1CB1-2
W1J1-B	T1-2
W1J1-C	W1E1
W1P1	
W1P1-1	T1-3
W1P1-3	W1XDS2-1
W1P1-4	W1XDS1-2
W1P1-5	W1XDS2-2
W1P1-6	T1-5
W1P1-8	W1XDS1-1
W1P1-10	T1-4
W1CB1	
W1CB1-1	T1-1
W1CB1-2	W1J1-A
T1	
T1-1	W1CB1-1
T1-2	W1J1-B
T1-3	W1P1-1
T1-4	W1P1-10
T1-5	W1P1-6
W1XDS1	
W1XDS1-1	W1P1-8
W1XDS1-2	W1P1-4
W1XDS2	
W1XDS2-1	W1P1-3
W1XDS2-1	XDS3-1
W1XDS2-2	XDS3-2
W1XDS2-2	W1P1-5
XDS3	
XDS3-1	W1XDS2-1
XDS3-1	XDS4-1
XDS3-2	XDS4-2
XDS3-2	W1XDS2-2
XDS4	
XDS4-1	XDS3-1
XDS4-2	XDS3-2
W1E1	
W1E1	W1J1-C

**Table 2. Thermal Sight Collimator
Interconnecting Wiring List
(With Sensitive Switch)**

From	To
W1J1	
W1J1-A	W1CB1-2
W1J1-B	T1-2
W1J1-C	W1E1
W1P1	
W1P1-1	T1-3
W1P1-3	W1XDS2-1
W1P1-4	W1XDS1-2
W1P1-5	W1XDS2-2
W1P1-6	T1-5
W1P1-8	W1XDS1-1
W1P1-10	T1-4
W1CB1	
W1CB1-1	T1-1
W1CB1-2	W1J1-A
S2	
S2-C	W1XDS2-2
S2-NO	XDS3-2
T1	
T1-1	W1CB1-1
T1-2	W1J1-B
T1-3	W1P1-1
T1-4	W1P1-10
T1-5	W1P1-6
W1XDS1	
W1XDS1-1	W1P1-8
W1XDS1-2	W1P1-4
W1XDS2	
W1XDS2-1	W1P1-3
W1XDS2-1	XDS3-1
W1XDS2-2	S2-C
W1XDS2-2	W1P1-5
XDS3	
XDS3-1	W1XDS2-2
XDS3-1	XDS4-1
XDS3-2	XDS4-2
XDS3-2	S2-NO

**Table 2. Thermal Sight Collimator
Interconnecting Wiring List
(With Sensitive Switch) (continued)**

From	To
XDS4	
XDS4-1	XDS3-1
XDS4-2	XDS3-2
W1E1	
W1E1	W1J1-C

THERMAL SIGHT COLLIMATOR WIRING LIST - CONTINUED

**Table 3. Thermal Sight Collimator
12951545 Interconnecting Wiring List**

From	To
W2J1	
W2J1-A	W2CB1-1
W2J1-B	W2T1-2
W2J1-C	W2E1
W2CB1	
W2CB1-1	W2J1-A
W2CB1-2	W2T1-1
W2T1	
W2T1-1	W2CB1-2
W2T1-2	W2J1-B
W2T1-3	W2P2-1
W2T1-4	W2P2-10
W2T1-5	W2P2-6
W2P1	
W2P1-1	W2P3-1
W2P1-2	W2P3-3
W2P1-3	W2P3-6
W2P1-4	W2P2-10
W2T1-5	W2P2-6
W2P1	
W2P1-1	W2P3-1
W2P1-2	W2P3-3
W2P1-3	W2P3-6
W2P1-4	W2P3-8
W2P1-5	W2S4-2
W2P1-6	W2S2-C
W2P1-8	W2S3-3
W2P1-11	W2P3-2
W2P1-12	W2P3-4
W2P1-13	W2P3-7
W2P1-15	W2S4-3
W2P1-16	W2S2-NO
W2P1-18	W2S3-1
W2P1-19	W2S3-2
W2DS1	
W2DS1-(+)	W2P2-8
W2DS1-(-)	W2P2-9
W2E1	
W2E1	W2J1-C
W2P1-14	W2P3-9

**Table 3. Thermal Sight Collimator
12951545 Interconnecting Wiring List (continued)**

From	To
W2UJ1	
W2UJ1-CENTER	W2P2-4
W2UJ1-OUTER	W2P2-2
W2S2	
W2S2-C	W2P1-6
W2P2-NO	W2P1-16
W2DS2	
W2DS2-(+)	W2P2-3
W2DS2-(-)	W2P2-5
W2P2	
W2P2-1	W2T1-3
W2P2-2	W2UJ1-OUTER
W2P2-3	W2DS1-(+)
W2P2-4	W2UJ1-CENTER
W2P2-5	W2DS1-(-)
W2P2-6	W2T1-5
W2P2-8	W2DS2-(+)
W2P2-9	W2DS2-(-)
W2P2-10	W2T1-4
W2S3	
W2S3-1	W2P1-18
W2S3-2	W2P1-19
W2S3-3	W2P1-8
W2P3	
W2P3-1	W2P1-1
W2P3-2	W2P1-11
W2P3-3	W2P1-2
W2P3-4	W2P1-12
W2P3-6	W2P1-3
W2P3-7	W2P1-13
W2P3-8	W2P1-4
W2P3-9	W2P1-14
W2S4	
W2S4-2	W2P1-5
W2S4-3	W2P1-15

OIU CHECKOUT PROCEDURES

OIU checkout procedures are to be used any time a fault symptom must be verified and after a repair has been made to make sure the trouble was fixed and that there are no more problems. The direct support checkout procedures are used by the direct support repairer to verify OIU problems that were found by the unit repairer but were beyond his authorized maintenance skill

GENERAL INSTRUCTIONS

Test Equipment/Special Tools:

- None

Equipment Conditions:

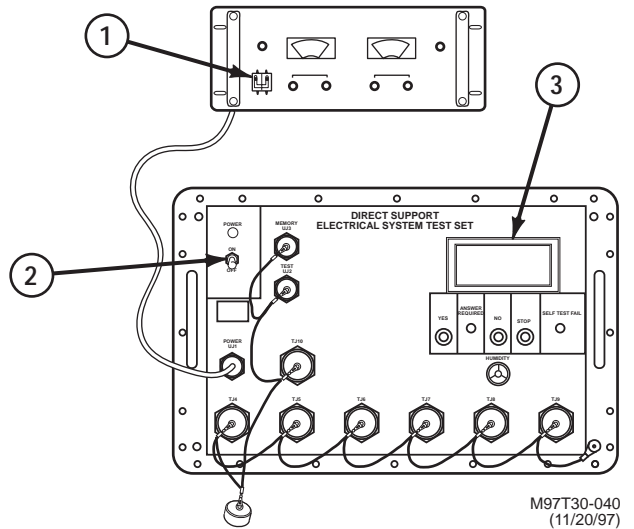
- OIU resting on clean workbench.
- Power supply connected to OIU.
- Power supply adjusted to 24 vdc.

OIU CHECKOUT

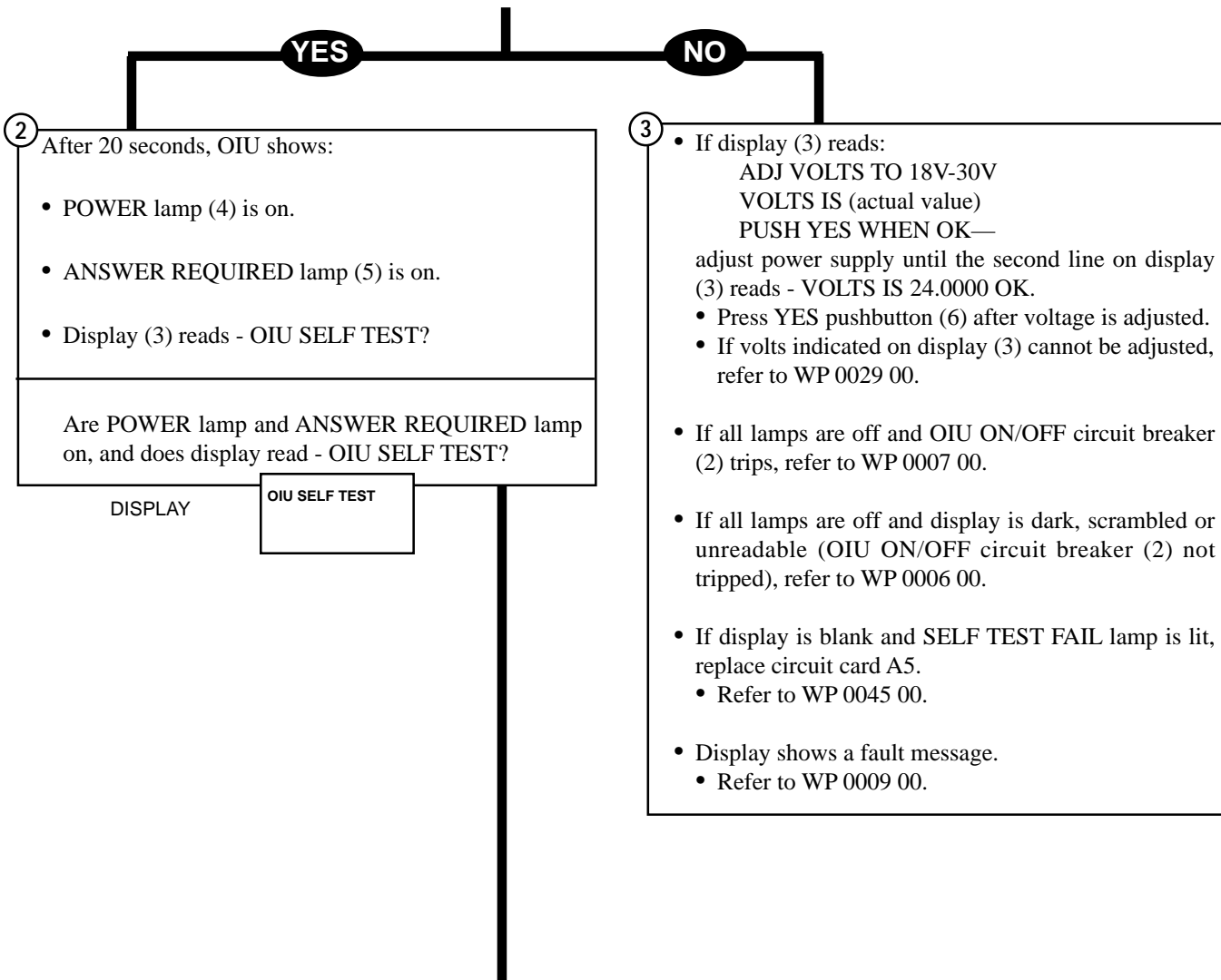
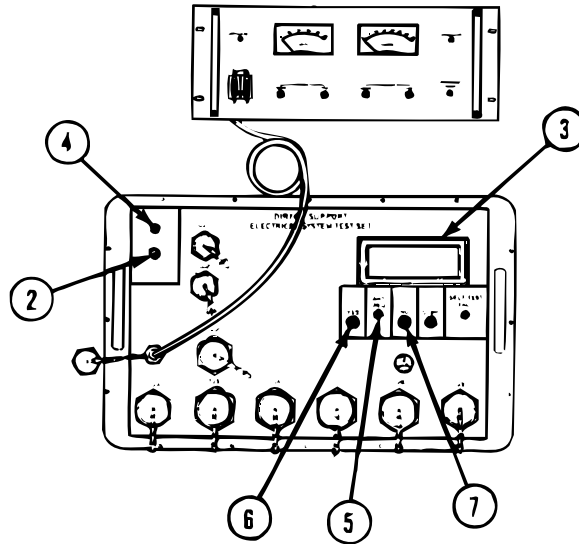
1. Set power supply ON/OFF switch (1) to ON.
- Set OIU ON/OFF circuit breaker (2) to ON.
- Display (3) reads - OIU RAM TEST IN PROGRESS - for about 15 seconds.
- Display (3) changes to - OIU EEPROM HEALTH CHECK IN PROGRESS - for about 3 seconds.
- Display (3) changes to - OIU DSPTS XX.X SELF TEST IN PROGRESS - for about 20 seconds.

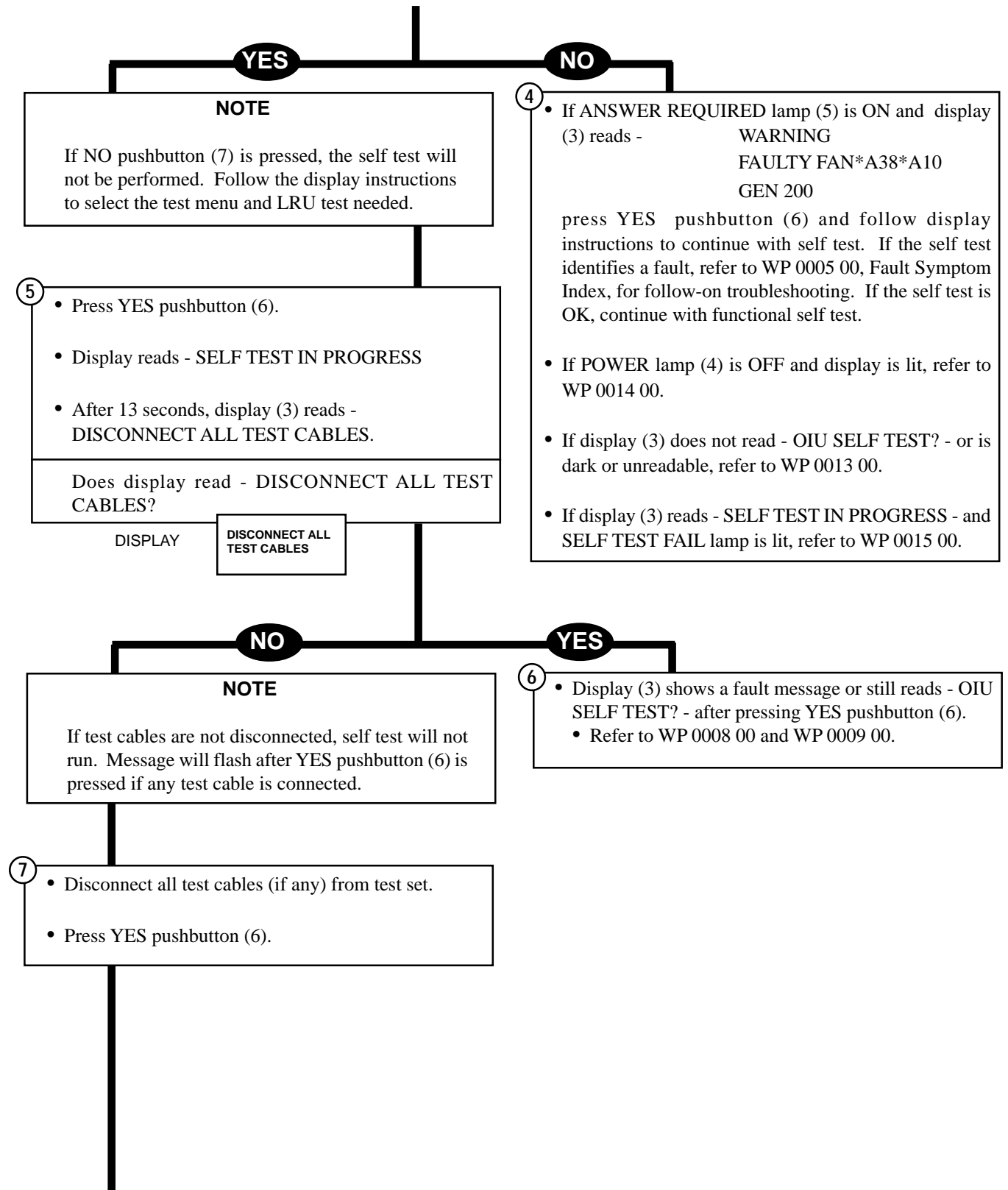
Did display show the three messages described above?

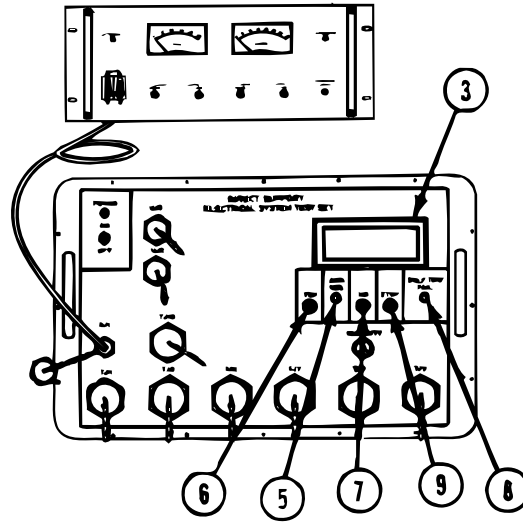
DISPLAY	OIU RAM TEST DISPLAY IN PROGRESS
	OIU EEPROM HEALTH CHECK IN PROGRESS
	OIU DSPTS XX.X SELF TEST IN PROGRESS



M97T30-040 (11/20/97)







8 OIU shows:

- SELF TEST FAIL lamp (8) lights and remains on for 4 seconds.
- Display (3) flashes - SELF TEST IN PROGRESS.

Does SELF TEST FAIL lamp go off after 4 seconds, and does display flash - SELF TEST IN PROGRESS?

SELF TEST IN PROGRESS
DISPLAY

YES

NO

9 • Display (3) flashes - SELF TEST IN PROGRESS - for 23 seconds.

Does display flash - SELF TEST IN PROGRESS - for 23 seconds?

SELF TEST IN PROGRESS
DISPLAY

10 • If SELF TEST FAIL lamp (8) does not go off after 4 seconds, refer to WP 0015 00.

YES

NO

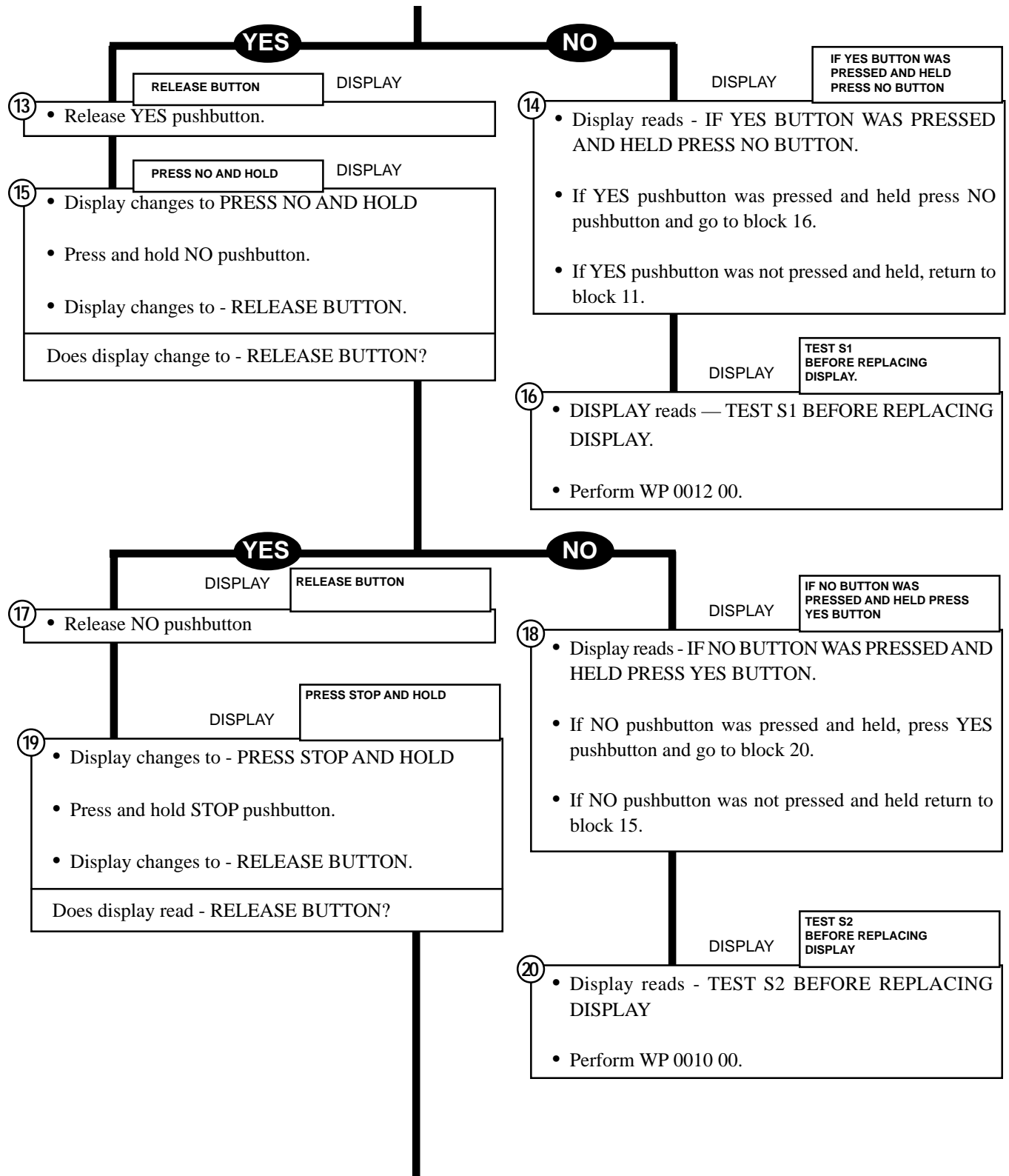
11 • Display changes to - PRESS YES AND HOLD.

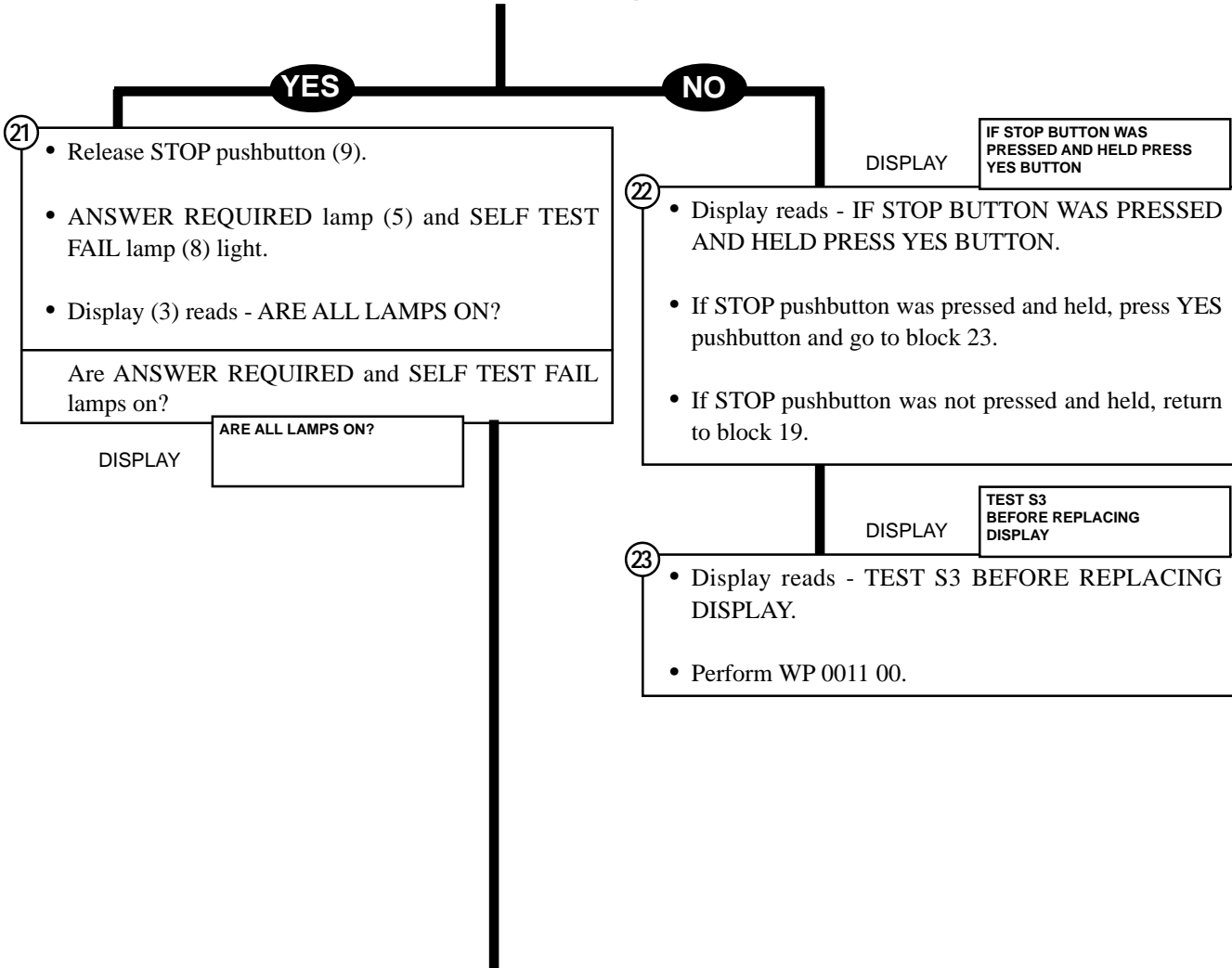
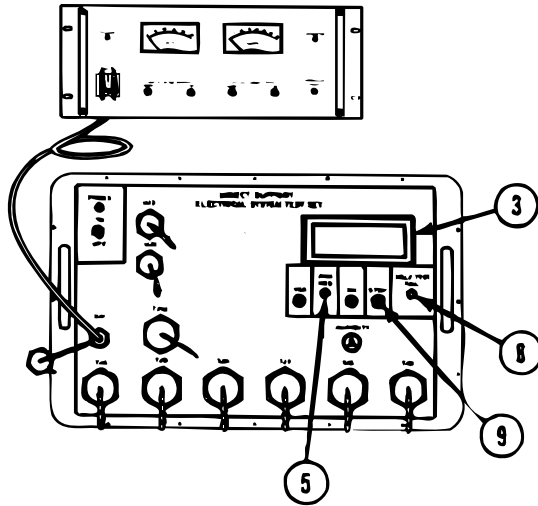
- Press and hold YES pushbutton.
- Display changes to - RELEASE BUTTON.

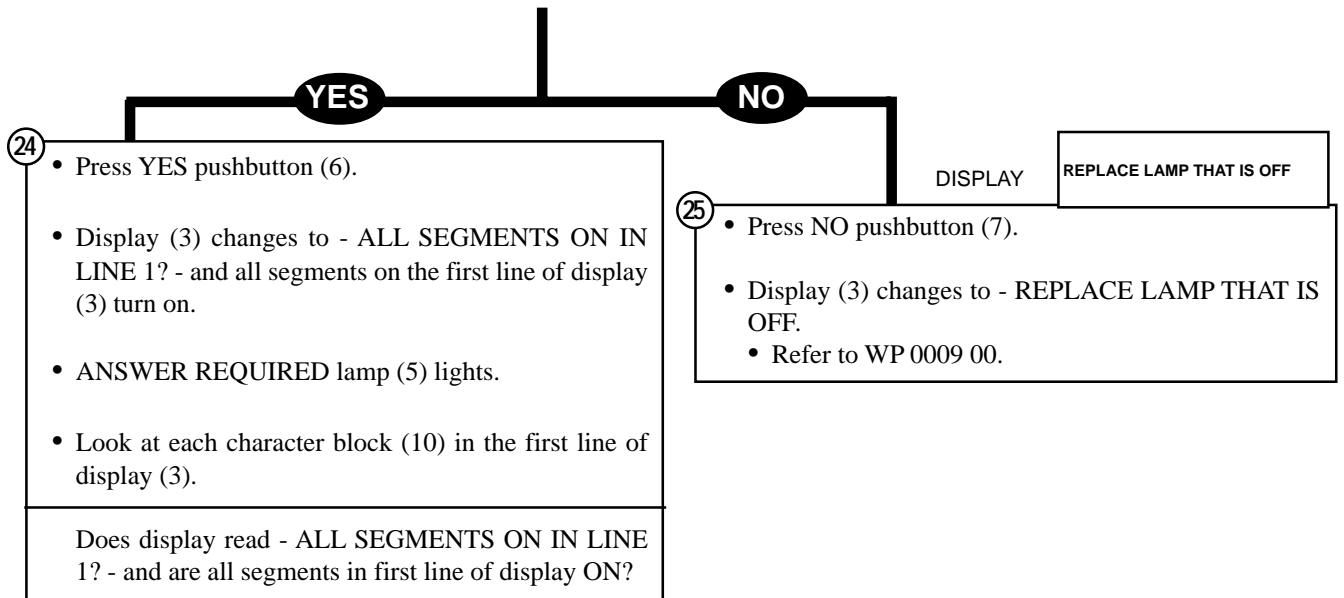
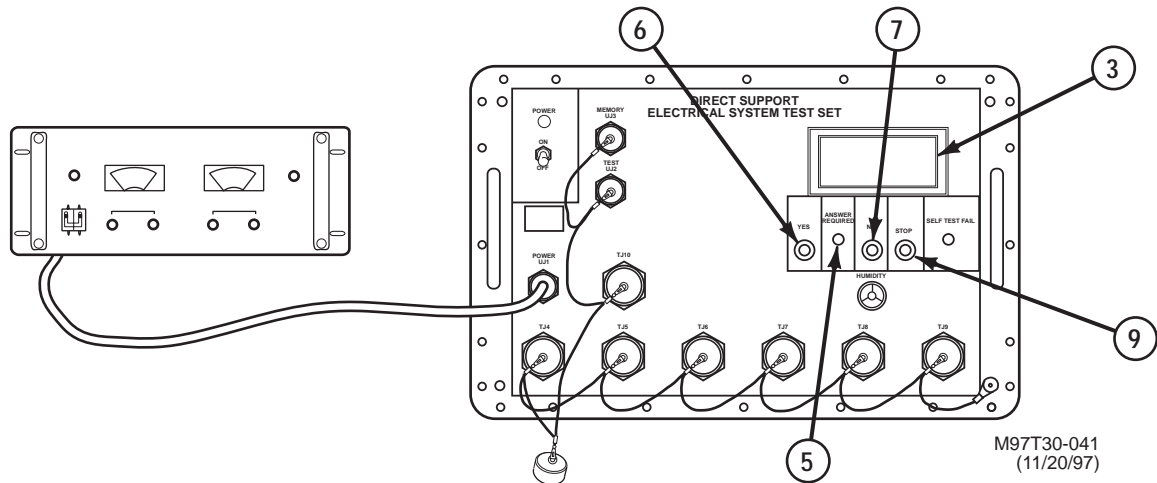
Does display change to - RELEASE BUTTON?

PRESS YES AND HOLD
DISPLAY

12 • Display shows a fault message.
• Refer to WP 0009 00.

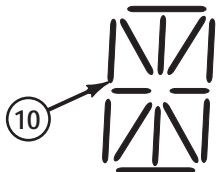






ALL SEGMENTS ON IN LINE 1?

DISPLAY

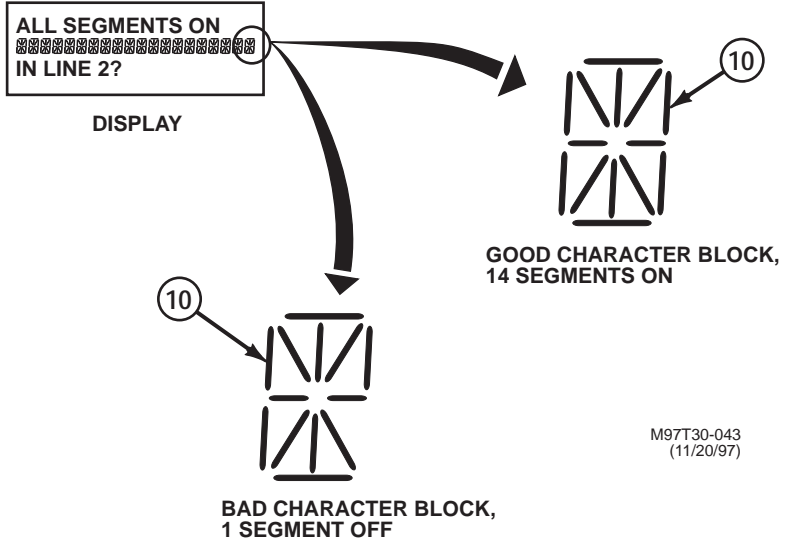
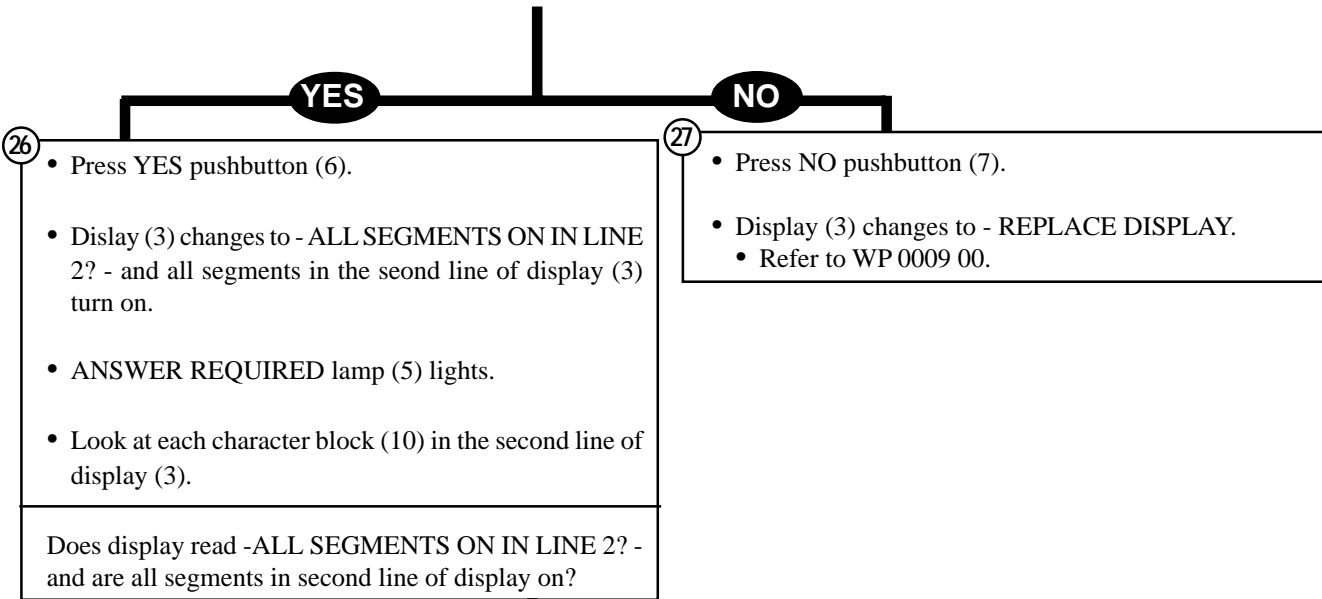


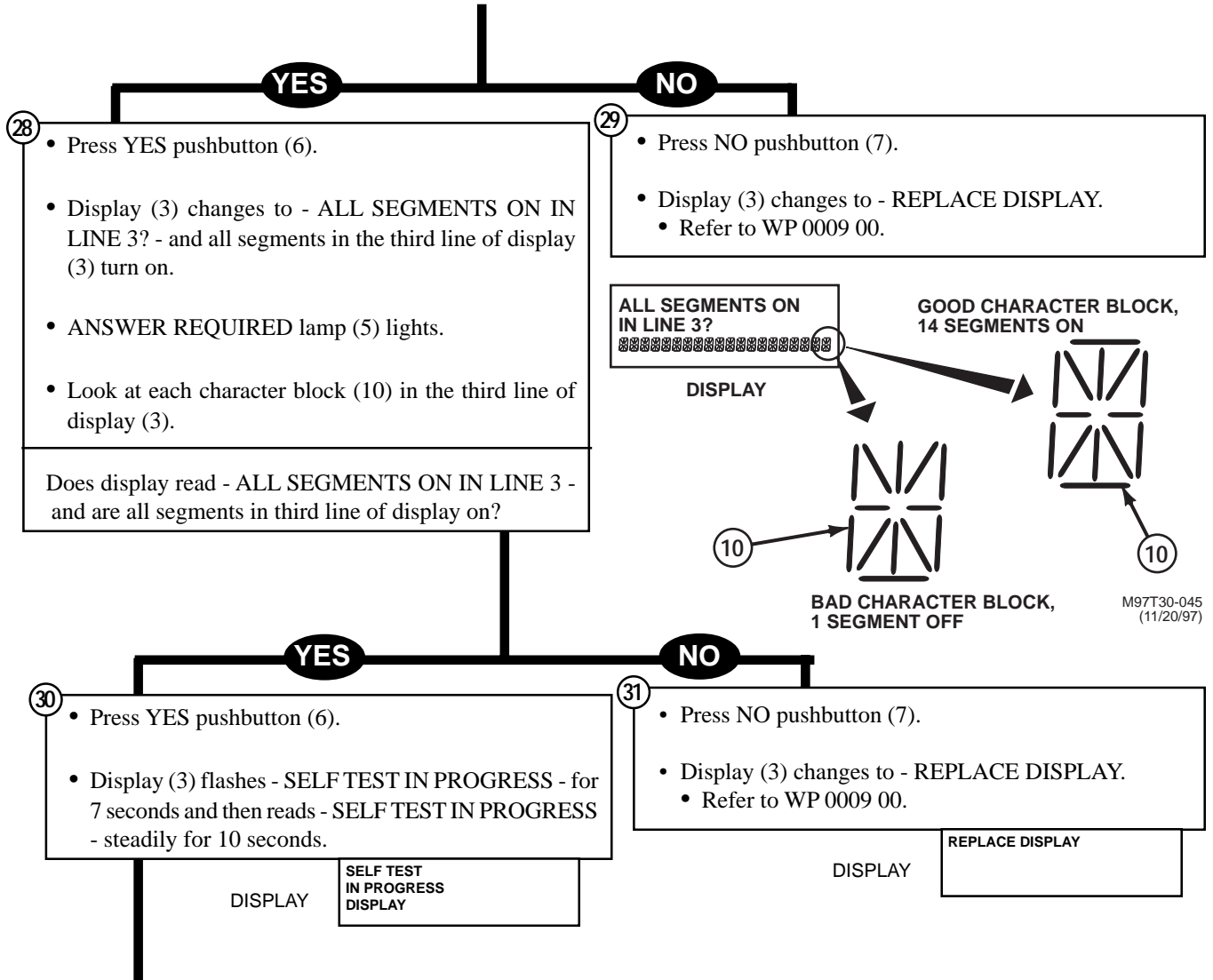
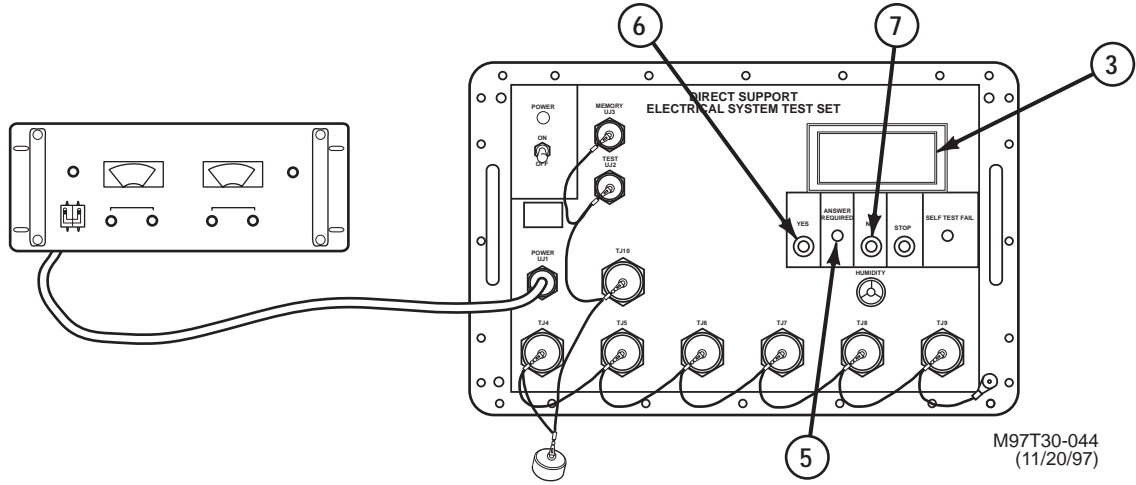
GOOD CHARACTER BLOCK, 14 SEGMENTS ON



BAD CHARACTER BLOCK, 1 SEGMENT OFF

M97T30-042 (12/1/97)



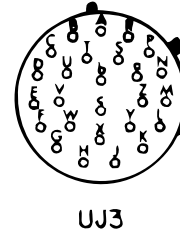


32

- After 25 seconds, display (3) changes to - TEST SET OK.

Does display change to - TEST SET OK?

TEST SET OK DISPLAY



YES **NO**

33

- Press YES pushbutton (6).
- Display (3) changes to - OIU FUNCTIONAL SELF TEST DSPS XX.X - and ANSWER REQUIRED lamp (5) is on.

34

- Display (3) reads one of the messages shown in Table 1.
- Refer to WP 0009 00.

NOTE

If NO pushbutton (7) is pressed, the functional self test will not be performed. Follow display (3) instructions to connect memory module and select LRU test menu.

35

- Press YES pushbutton (6).
- Display (3) reads - ISOLATE GROUND CLIP.
- Make sure ground clip is isolated.
- Press YES pushbutton (6).
- Display reads - DID YOU ISOLATE GROUND CLIP?
- Press YES pushbutton (6).
- Display (3) flashes -
 ADJ VOLTS TO 24.0000
 VOLTS IS XX.XXXX
 PUSH YES WHEN OK.
- Adjust power supply until second line on display (3) reads - VOLTS IS 24.0000 OK.
- When OK flashes to the right of voltage value, push YES pushbutton (6) and hold until display stops flashing.
- Follow display (3) until test set finds a fault or display (3) reads - MEMORY DEVICE AVAILABLE?

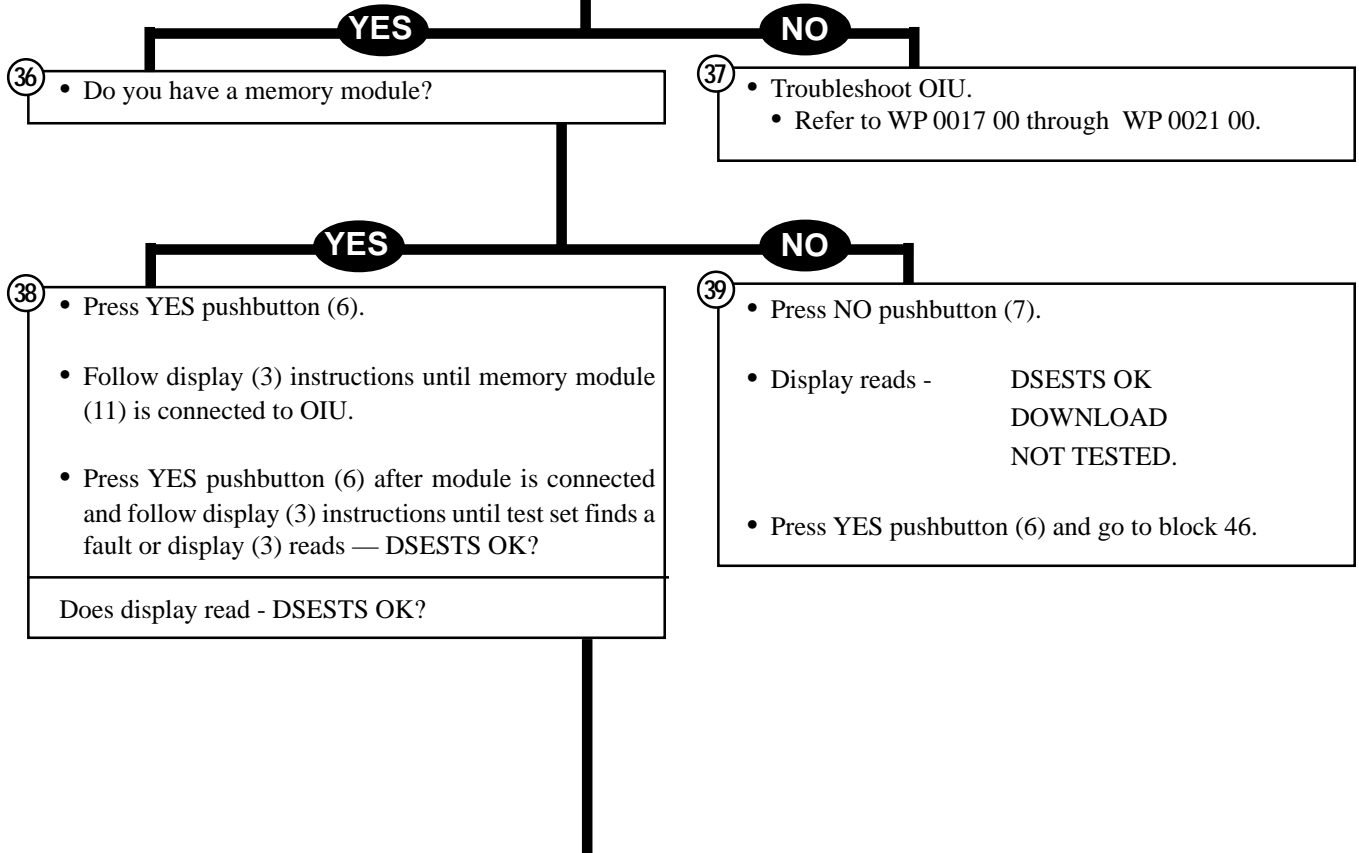
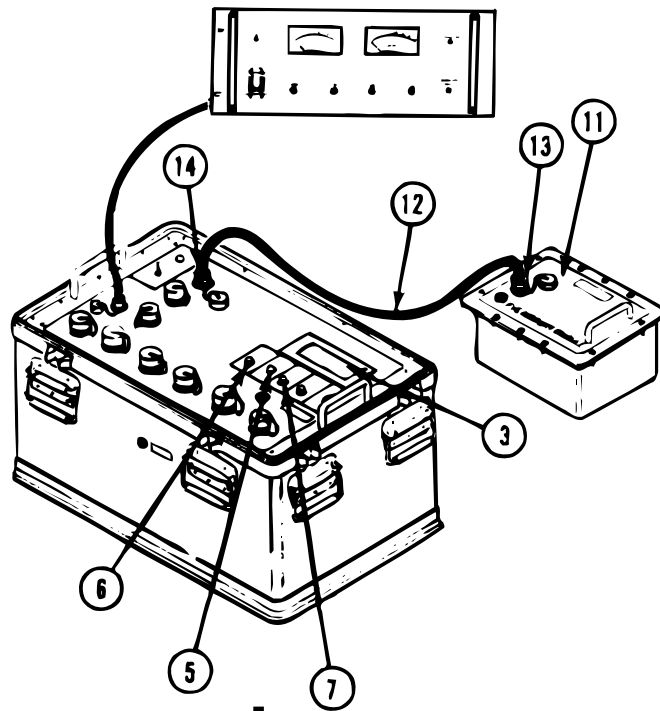
Does display read - MEMORY DEVICE AVAILABLE?

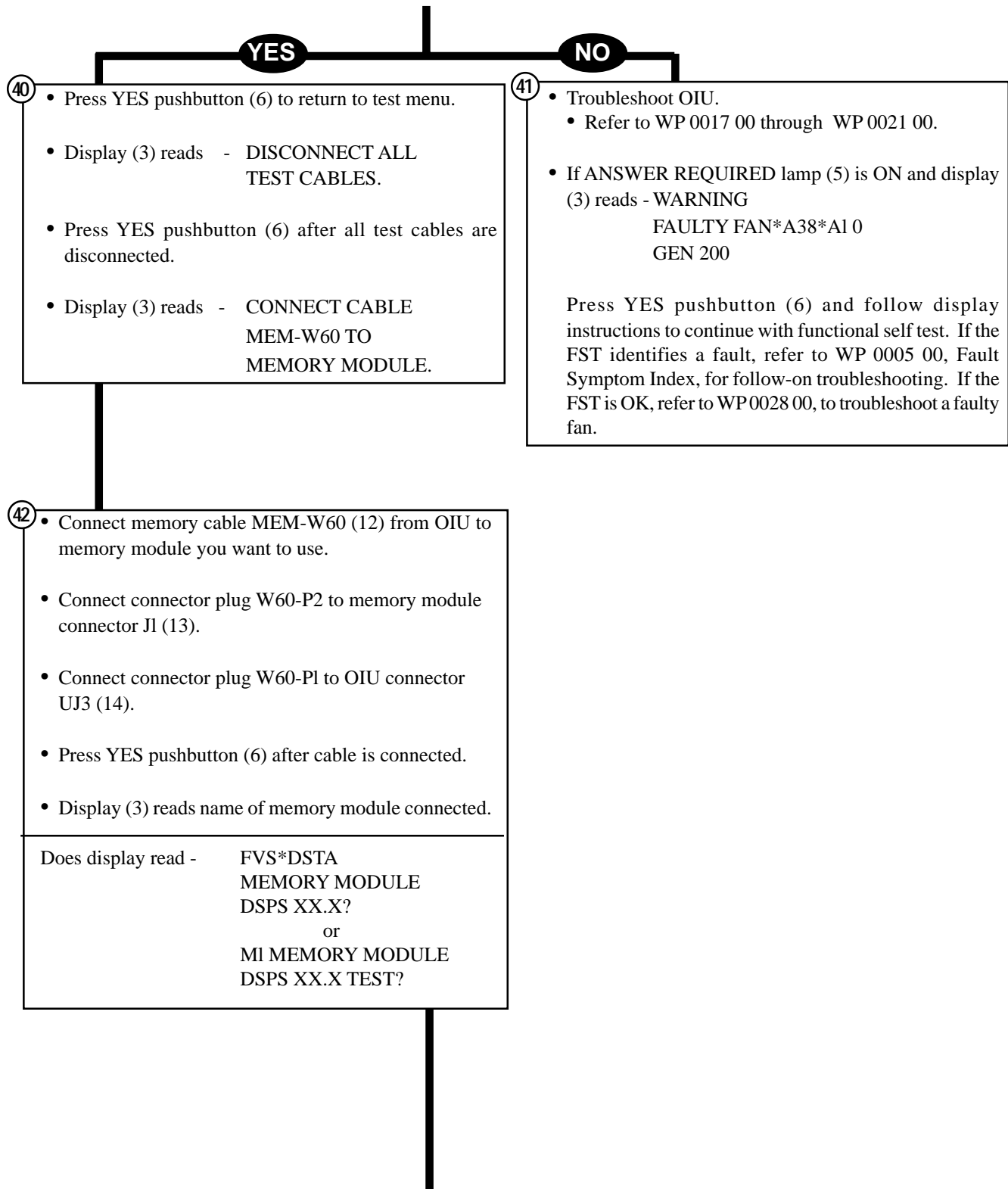
Table 1.

REPLACE A8	REPLACE A9	REPLACE A10
REPLACE A12	REPLACE A13	REPLACE A14
REPLACE A15	REPLACE A16	REPLACE A17
REPLACE A18	REPLACE A20	REPLACE A21
REPLACE A22	REPLACE A23	REPLACE A24
REPLACE A31	REPLACE A32	REPLACE A33
REPLACE A34	REPLACE A35	REPLACE A36
REPLACE A38		

NOTE

When replacing circuit card assembly A20, A21, A35 or A36 (Active Terminator), use preferred circuit card assembly, part number 12322192.





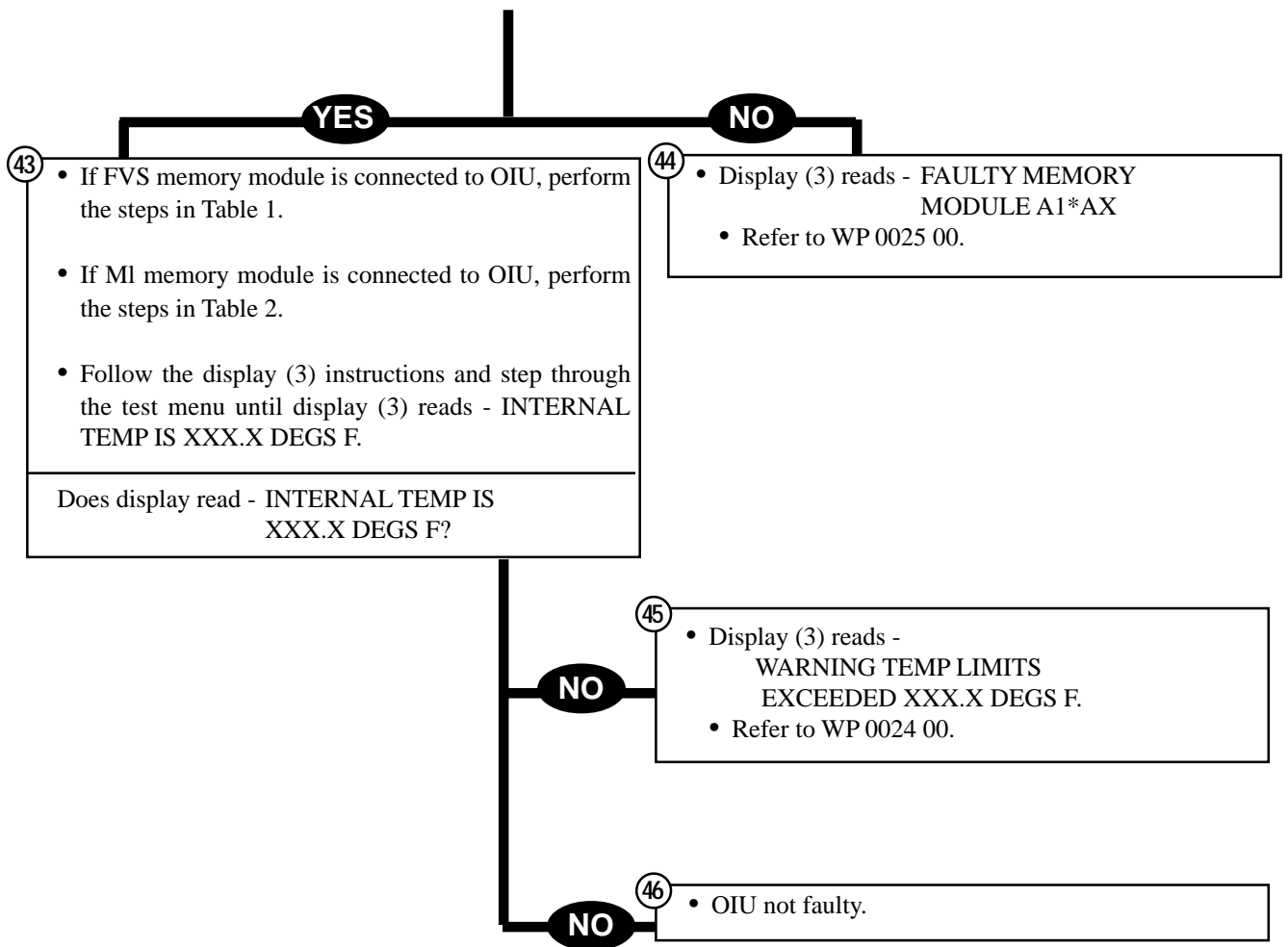
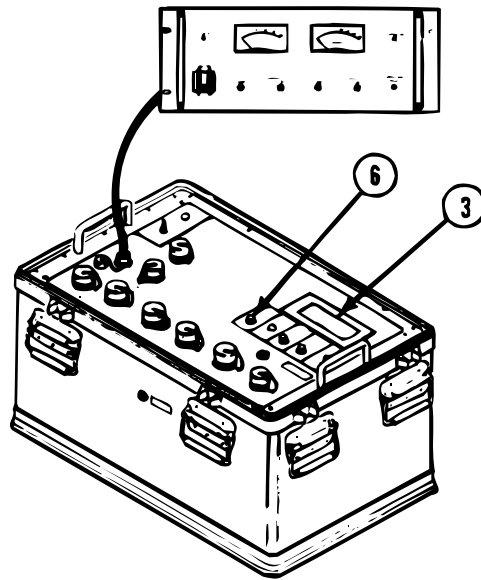


Table 1. FVS Test Menu

Step	Display Message	Panel Lamps On	Operator Action/Remarks
1.	FVS*DSTA MEMORY MODULE DSPS XX.X?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press YES pushbutton.
2.	FVS ASSEMBLY FUNCTIONAL SELF TEST?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press YES pushbutton.
3.	DSTA FST DSPS XX.X?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press NO pushbutton to continue test selection.
4.	EIA FST DSPS XX.X?	POWER, ANSWER REQUIRED	
5.	GPIA FST DSPS XX.X?	POWER, ANSWER REQUIRED	
6.	LRU TEST?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press YES pushbutton.
7.	ANP TEST DSPS XX.X?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press NO pushbutton to continue test selection.
8.	RYA TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
9.	TWB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
10.	TCB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
11.	WCB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
12.	FCB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
13.	HCB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
14.	CHS TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
15.	GHS TEST DSPS XX.X?	POWER, ANSWER REQUIRED	

Table 1. FVS Test Menu (Continued)

Step	Display Message	Panel Lamps On	Operator Action/Remarks
16.	TPI TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
17.	TDB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
18.	VDB TEST DSPS XX.X?	POWER, ANSWER REQUIRED	
19.	ECA*DECA DSPS XX.X?	POWER, ANSWER REQUIRED	
20.	SRU TEST?	POWER, ANSWER REQUIRED	
21.	OIU SELF TEST?	POWER, ANSWER REQUIRED	
22.	INTERNAL TEMP IS XXX.X DEGS F	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press YES pushbutton. • NOTE — If display reads <div style="text-align: center;">WARNING TEMP LIMITS EXCEEDED XXX.X DEGS F</div> go to Troubleshooting Procedure WP 0024 00.

Table 2. M1 Test Menu

Step	Display Message	Panel Lamps On	Operator Action/ Remarks
1.	M1 MEMORY MODULE DSPS XX.X TEST?	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> The DSESTS Program Status (DSPS) number identifies the test program baseline and change level. Press YES pushbutton to continue M1 test selection. Press NO pushbutton to continue test selection.
2.	ADAPTER/ ASSEMBLY FUNCTIONAL SELF TEST?	POWER, ANSWER REQUIRED	
3.	CWS-PCU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
4.	GTD-EU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
5.	CEU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
6.	CCP TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
7.	LOS-EU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
8.	LRF TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
9.	HNB TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
10.	HDB TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
11.	DIP TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
12.	DMP TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
13.	TCP TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
14.	TCU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
15.	TIS-ICU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	

Table 2. M1 Test Menu (Continued)

Step	Display Message	Panel Lamps On	Operator Action/ Remarks
16.	TIS-PCU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
17.	TNB TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
18.	DECU/ECU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
19.	TIS-EU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
20.	TIS-TRU TEST DSPS NO. XX.X?	POWER, ANSWER REQUIRED	
21.	OIU SELF TEST?	POWER, ANSWER REQUIRED	
22.	INTERNAL TEMP IS XXX.X DEGS F	POWER, ANSWER REQUIRED	<ul style="list-style-type: none"> • Press YES pushbutton. • NOTE - If display reads WARNING TEMP LIMITS EXCEEDED XXX.X DEGS F go to Troubleshooting Procedure WP 0024 00.

CHAPTER 3
DIRECT SUPPORT
MAINTENANCE INSTRUCTIONS

THIS WORK PACKAGE COVERS:

Introduction, PMCS procedures

PMCS INTRODUCTION

The checks described in the PMCS table (Table 1) are performed to find, correct, or report problems before they result in serious damage or failure. The interval column tells you when to perform the checks. “Before” checks are performed before power is applied to equipment; “During” checks are performed after equipment is powered up. Both “Before” and “During” checks are performed once each day for each equipment item which will be used. Refer to the troubleshooting procedures in Chapter 2 to correct any malfunctions. If you cannot correct a malfunction, report the problem on DA Form 2404. The “Equipment Is Not Ready/Available” column tells you when and why your equipment cannot be used until it is repaired.

WARNING**ELECTRICAL SHOCK**

High voltage present, to avoid hazard always use caution when performing PMCS with power applied.

NOTE

The terms “ready/available” and “mission/capable” refer to the same status: Equipment is on hand and is able to perform its combat missions (see DA PAM 738-750).

Table 1. Preventive Maintenance Checks and Services

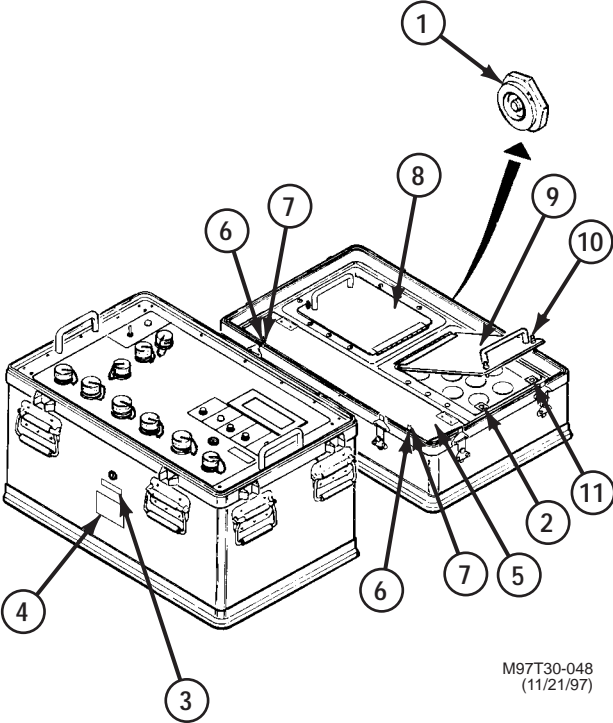
Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
1	Before		OIU Case	 <p style="text-align: right; margin-right: 100px;">M97T30-048 (11/21/97)</p> <ol style="list-style-type: none"> 1. Look at case cover pressure relief valve (1) for damage and check for freedom of movement. 2. Look at case seal (2) for breaks, cracks, and deterioration. 3. Look at identification plate (3) for damage and check that information on plate is legible. 4. Check for missing or damaged decals (4). 5. Open stowage compartment lid (5) and check lid fasteners, stud assembly (6), and receptacle (7) for proper operation. 6. Open stowage module assembly lids (8) and (9) and check lid fasteners, stud assembly (10) and receptacle (11) for proper operation. 	

Table 1. Preventive Maintenance Checks and Services (Continued)

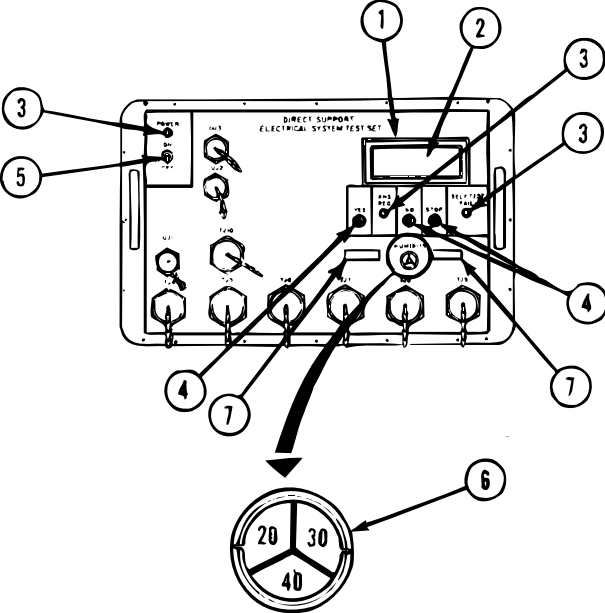
Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
2	Before		OIU Operator Panel	 <ol style="list-style-type: none"> 1. Look at display (1) for cracked or broken EMI window (2). 2. Look at panel indicator lamps (3) for cracked or missing lenses and lamps. 3. Look at panel switches (4) and circuit breaker (5) for any damage or looseness and proper switch action. <p style="text-align: center;">NOTE</p> <p>The humidity indicator is divided into three zones, 20, 30 and 40, as shown on the indicator. The numbers indicate percent of moisture (humidity) inside the electronics assembly. As the desiccant absorbs moisture, the indicator will change from blue to pink. The pink area is first seen in zone 20 and then moves to zones 30 and 40 as the humidity increases. If pink area covers the number 30 on the indicator, put in new desiccant.</p> <ol style="list-style-type: none"> 4. Look at humidity indicator (6) for pink area. 5. Look at identification plates (7) for damage and check that information on plates is legible. 	<p>Lamps cracked or missing.</p> <p>Switches or circuit breaker damaged or have improper switch action.</p>

Table 1. Preventive Maintenance Checks and Services (Continued)

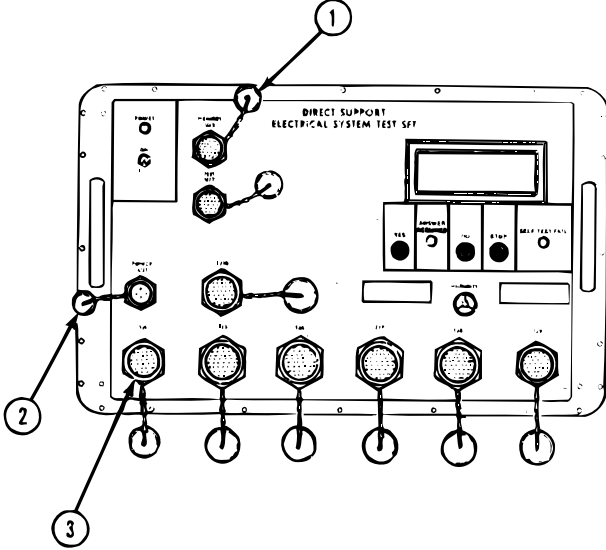
Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
3	Before		OIU PANEL CONNECTORS	 <p>The diagram shows a rectangular panel with various electrical components. At the top, there are two circular covers labeled '1'. On the left side, there is a larger circular cover labeled '2'. Along the bottom edge, there are ten circular panel connectors labeled '3'. The panel also features a digital display, several buttons, and a control knob.</p> <ol style="list-style-type: none"> 1. Unscrew and take off nine test connector covers (1) and power connector cover (2) from 10 panel connectors (3). 2. Look at connector covers (1) and (2) for any damage to threads or attaching chain. 3. Look at panel connectors (3) for bent, pushed-in, corroded, or missing pins. 4. Look at panel connectors (3) for broken shells, cracked inserts, or stripped threads. 5. Screw on all connector covers (1). 	<p>Connectors have bent, pushed in, corroded, or damaged pins.</p> <p>Connectors have broken shells, cracked inserts, or stripped threads.</p>

Table 1. Preventive Maintenance Checks and Services (Continued)

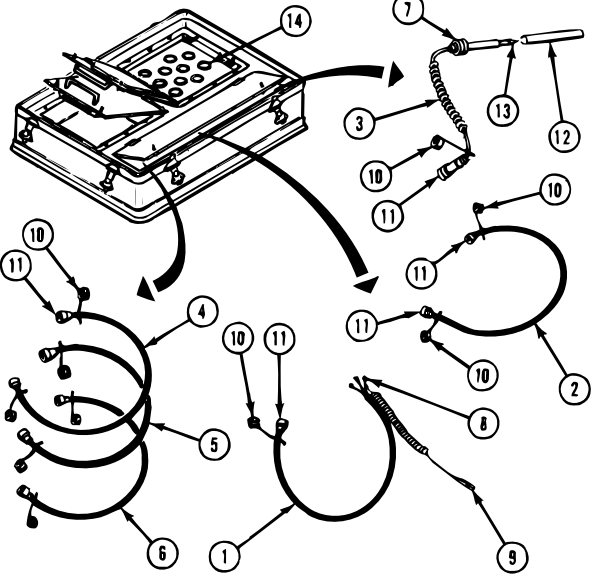
Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
4	Before		CABLES, ADAPTERS, TEST PROBE	 <ol style="list-style-type: none"> 1. Look at cables (1), (2),(3),(4),(5),(6) and test probe (7) for cuts or breaks in insulation. 2. Look at cable (1) for bent, broken, or missing terminal lugs (8) and clip (9). 3. Pull off connector covers (10) and look at connectors (11) for bent, pushed in, corroded, or missing contacts. 4. Unscrew cover (12) from probe tip (13) and look at probe tip (13) for damage. 5. Screw cover (12) on probe tip (13). 6. Put covers (10) on connectors (11). 7. Look at adapters (14) for damage. 	<p>Cables or test probe cut through insulation and into conductors.</p> <p>Cable has bent, broken, or missing terminal lugs or clips.</p> <p>Connectors have bent, pushed in, corroded, or missing contacts.</p> <p>Probe tip is damaged.</p> <p>Any adapter is missing or damaged</p>

Table 1. Preventive Maintenance Checks and Services (Continued)

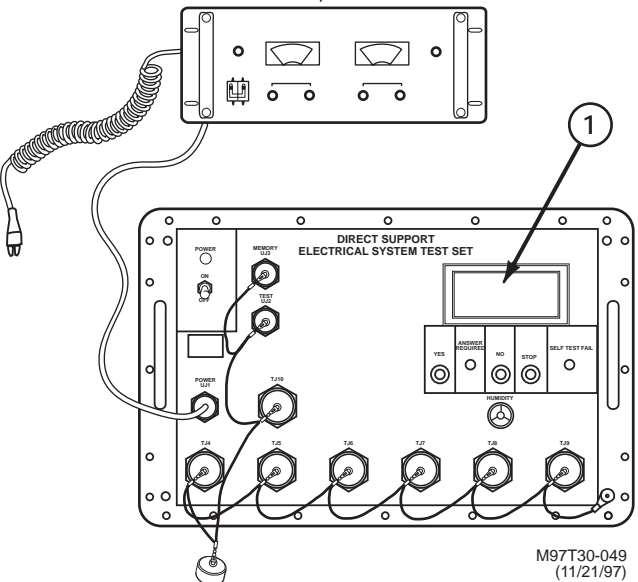
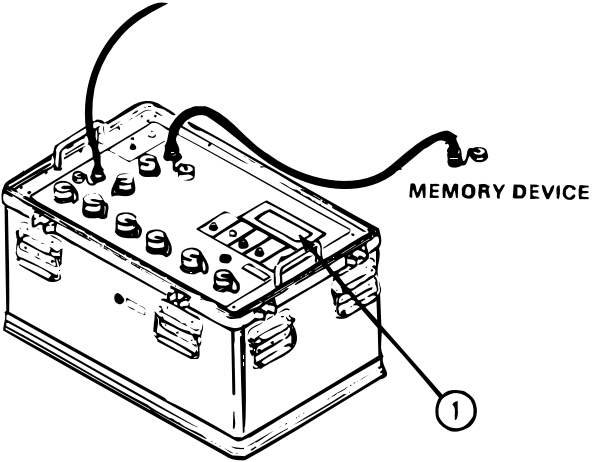
Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
5	During		OIU	<p style="text-align: center;">EXTERNAL POWER SUPPLY, 18-30 VDC</p>  <p style="text-align: right;">M97T30-049 (11/21/97)</p> <ol style="list-style-type: none"> 1. Perform self test; refer to WP 0040 00. 2. At end of self test, OIU display (1) must read DSESTS OK. 	Display reads a fault message.

Table 1. Preventive Maintenance Checks and Services (Continued)

Item No.	Interval	Man-Hour	Item to be Checked or Serviced	Procedure	Equipment Not Ready/ Available If:
6	During		OIU	<p style="text-align: center;">EXTERNAL POWER SUPPLY, 18-30 VDC</p>  <p style="text-align: right;">MEMORY DEVICE</p> <p style="text-align: center;">①</p> <ol style="list-style-type: none"> 1. Perform functional self test; refer to WP 0040 00. 2. At end of functional self test, OIU display (1) must read DSESTS OK. 	Display reads a fault message.

GENERAL MAINTENANCE INSTRUCTIONS

0043 00**COMMON MAINTENANCE TASKS**

Maintenance tasks common to all DSESTS equipment are found in TM 9-4931-586-12-1&P, WP 0043 00 thru WP 0048 00. These tasks are:

- Replace Desiccant
- Replace Identification Plate
- Replace Program Level Identification Plate
- Replace Lens and Lamps
- Repair/Replace Test Cable or Front Panel Connector
- Replace Cable Connector Protective Cover

GENERAL MAINTENANCE PROCEDURES**Cleaning****WARNING****HAZARDOUS VAPORS**

Solvents, isopropyl alcohol, and methanol burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

Mechanical Parts. Use one of the following to remove dirt, grease, oil, etc., from all metal surfaces:

- Dip tank: stir or shake fast for 1 minute in each tank.
- Vapor degreaser: soak for about 2 to 3 minutes.
- Wipe with rags: dip rags in dry cleaning solvent.
- Stiff brush or scraper: clean hard to get-to areas with stiff-bristle brush or scraper.

Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

Electrical Parts. Clean dirt, grease, oil, etc., from metal surface, connectors, and parts by dipping into container of isopropyl alcohol (item 10, WP 0210 00). Dip stiff brush into isopropyl alcohol and brush off parts you cannot dip. Dry with compressed, oil-free air, or wipe dry with clean rag (item 3, WP 0210 00).

Optical Surfaces. Prepare a solution of mild detergent (item 12, WP 0210 00) and potable water; mix per directions on detergent container. Gently apply solution with clean cotton pad (item 11, WP 0210 00) and allow one to three minutes soak time. Rinse surface with potable water. Dry by gently wiping in one direction with clean cotton pad (item 11, WP 0210 00). Lightly wipe with a clean cotton pad (item 11, WP 0210 00) moistened with methanol (item 13, WP 0210 00). Again dry by gently wiping in one direction with clean cotton pad (item 11, WP 0210 00).

Painting

Refer to TM 43-0139 and AR 750-58 for ways to paint and supplies to use.

Soldering Techniques**CAUTION**

Use low wattage soldering iron when replacing wires, connectors, plugs, and receptacles. Connectors, plugs, or receptacles may be damaged if high wattage soldering iron is used.

Solder connections must be bright and clean before soldering. Remove dirt and grease from connections with isopropyl alcohol (item 10, WP 0210 00) and acid swabbing brush (item 2, WP 0210 00). Solder (item 9, WP 0210 00) must be a non-acid type. All wires, parts and soldering iron must be pre-tinned for good connection and maximum transfer of heat. Clean all solder joints with acid swabbing brush and isopropyl alcohol after soldering to obtain a clean, bright surface. When soldering or unsoldering wires or parts, use long, round nose pliers to hold wires or parts.

Tagging Electrical Wires or Parts

Before removing electrical wires from parts, look for pin or terminal identification numbers on parts. Also check for wire numbers and color of wire. If wire numbers are present, write down the wire number and wire termination point for each wire to be removed. If wire numbers are not present, record the wire termination and identify the wire with a tag (item 8, WP 0210 00). Be careful that tags don't come off during the unsoldering procedure. Remove all tags after the wires are put back on the termination points.

Insulation Sleeving

Before unsoldering or cutting wire terminations, cut off insulation sleeving with pocket knife. Use care so as not to damage the wires while removing the insulation sleeving. Before putting the wires back on, measure insulation sleeving with steel rule and cut to proper length. The new insulation sleeving should be twice the diameter of the part over which it will be shrunk. Put new piece of insulation sleeving on wire before putting wire on terminal or part. Solder or crimp wire to terminal or part. Slide insulation sleeving over solder or crimp connection and terminal. Hold thermal gun 4 to 5 inches away from insulation sleeving and apply heat for approximately 30 seconds. Take away thermal gun as soon as insulation sleeving forms to shape of wire and terminal. Let insulation sleeving cool for 30 seconds before handling.

Lacing Tape/Straps

Before cutting lacing tape or straps to free a wire from a wire bundle, note and write down location of original lacings or straps. Cut lacing tape or straps with pocket knife, using care not to cut wires in wire bundle. After repair is made, tie wire bundle with lacing tape (item 6, WP 0210 00) or straps as close as possible to same location as the original lacings or straps.

Cable Clamps

When a wire bundle has to be moved for access to other parts, it may be necessary to loosen or take off cable clamps. To take off a cable clamp, unscrew and take off nut holding the cable clamp. Remove lockwasher and clamp from stud; discard lockwasher. After repair has been made, put cable, cable clamp, and new lockwasher in place. Screw on and tighten nut.

Replacing Wires

When removing a wire that is to be replaced, note the wire routing, lacing tape, cable clamps, insulation sleeving, wire size, and wire color. The new wire must be the same size and color. Measure length of wire being removed with steel rule. Connect the

new wire the same way as the original, either solder or crimp, using insulation sleeving where applicable. Secure wire in wire bundle, if applicable, in the same places as the original.

Replacing Circuit Cards

CAUTION

Circuit card assemblies are electrostatically sensitive devices. Always use approved electrostatic discharge (ESD) protective practices when handling circuit card assemblies.

When replacing circuit cards, hold cards by edges only. Do not touch any electrical components on cards. Do not bend or twist cards. Place circuit cards inside an antistatic plastic bag (item 7, WP0210 00) after removal. Do not stack antistatic plastic bags containing cards. Always wear a wrist strap and work at an ESD-protected workstation.

Front Panel Wire Harness Routing

The wire harness routing has been changed on 1984 and subsequent OIU production units. This change was made to help the repairer gain access for some difficult maintenance tasks. The newer units are wired in a manner that provides service loops in all wire bundles connected to the front panel. These service loops allow the front panel to separate from the OIU, providing access to all front panel mounted components. The newer units are easily identified by looking at the wire bundle between the display assembly and the power supply. The modified units have a large wire bundle running between the display and power supply across the top of the power supply. Refer to Figure 6 of WP 0002 00 for identification of the modified OIU's with the front panel removal capacity. Work Package 0092 00 is the maintenance task that has to be performed to gain access to the front panel mounted components. Each electronics assembly maintenance task that can be improved by removing the front panel is identified on the task initial setup section under preliminary procedures.

END OF TASK

REMOVE/INSTALL OIU ELECTRONICS ASSEMBLY

0044 00

THIS WORK PACKAGE COVERS:

Removal, Installation

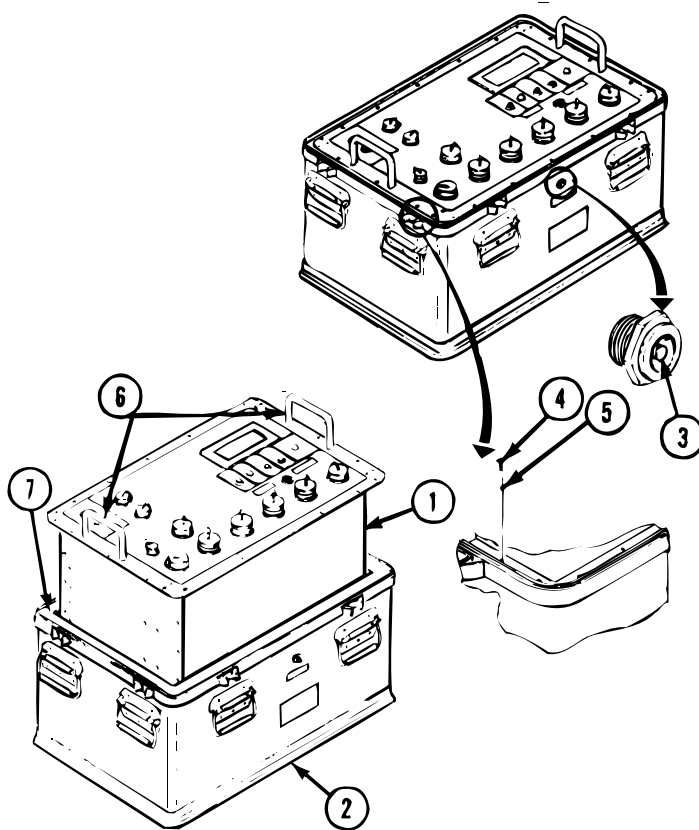
INITIAL SETUP

Tools:

Turret Mechanic's Tool Kit
SC 4931-95-CL-A22

Materials/Parts:

Screw (24)
Washer (24)

**REMOVE**

1. REMOVE ELECTRONICS ASSEMBLY (1) FROM CASE (2).
 - a. Press pressure relief valve (3) to relieve pressure.
 - b. Remove 24 screws (4) and washers (5), from electronics assembly (1). Discard screws and washers.
 - c. Lift electronics assembly (1) from case (2) with two panel handles (6).
 - d. Place electronics assembly (1) on workbench.
2. INSPECT CASE GASKET (7) FOR CRACKS OR BREAKS. IF SEAL (7) IS DAMAGED, REPLACE. REFER TO WP 0098 00.

INSTALL

3. INSTALL ELECTRONICS ASSEMBLY (1) IN CASE (2).
 - a. Lift electronics assembly (1) with handles (6) and place in case (2).
 - b. Install 24 new screws (4) and new washers (5).

END OF TASK

**REPLACE OIU CIRCUIT CARD ASSEMBLY, A5 THRU A10 OR A12 THRU A33,
MAIN CARD CAGE**

0045 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

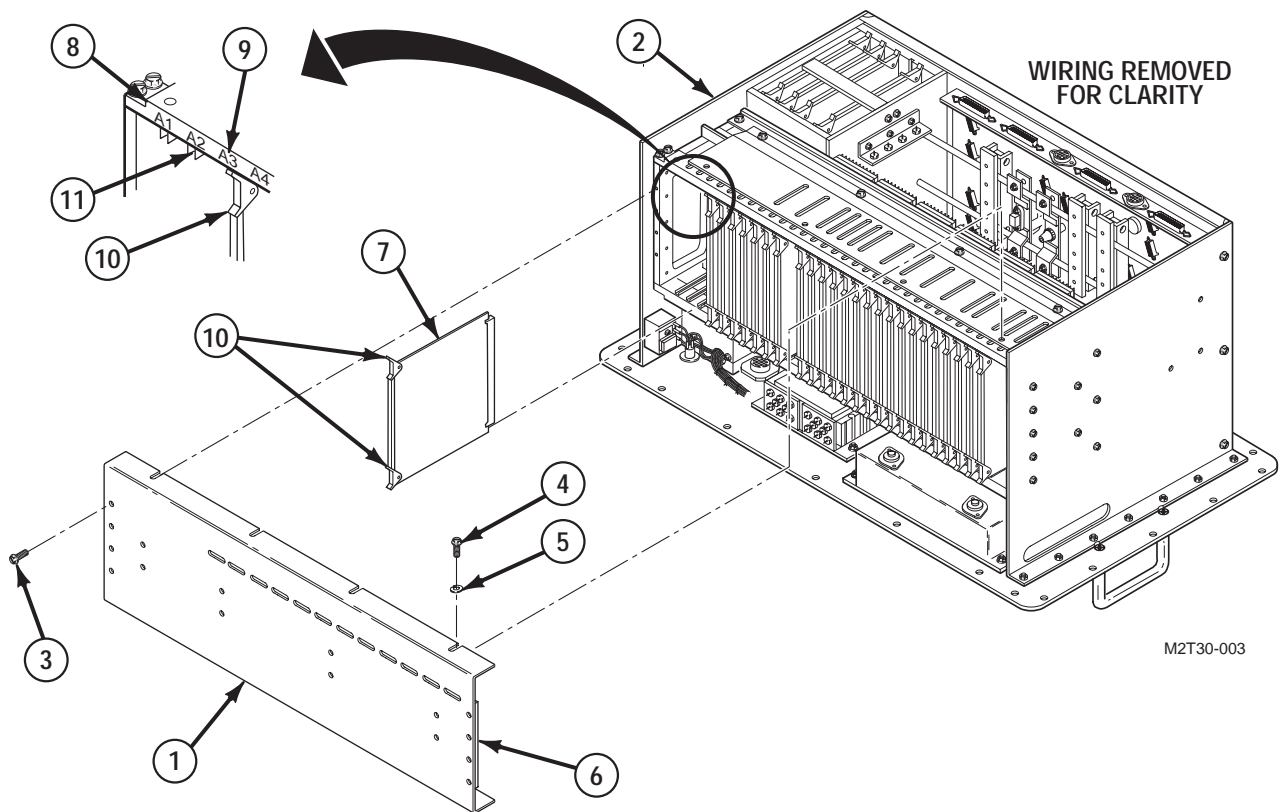
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove Electronics Assembly;
refer to WP 0044 00

Materials/Parts:

Circuit Card Assembly (as required)
Lockwasher (8)
Sealing Compound (Item 4, WP 0210 00)

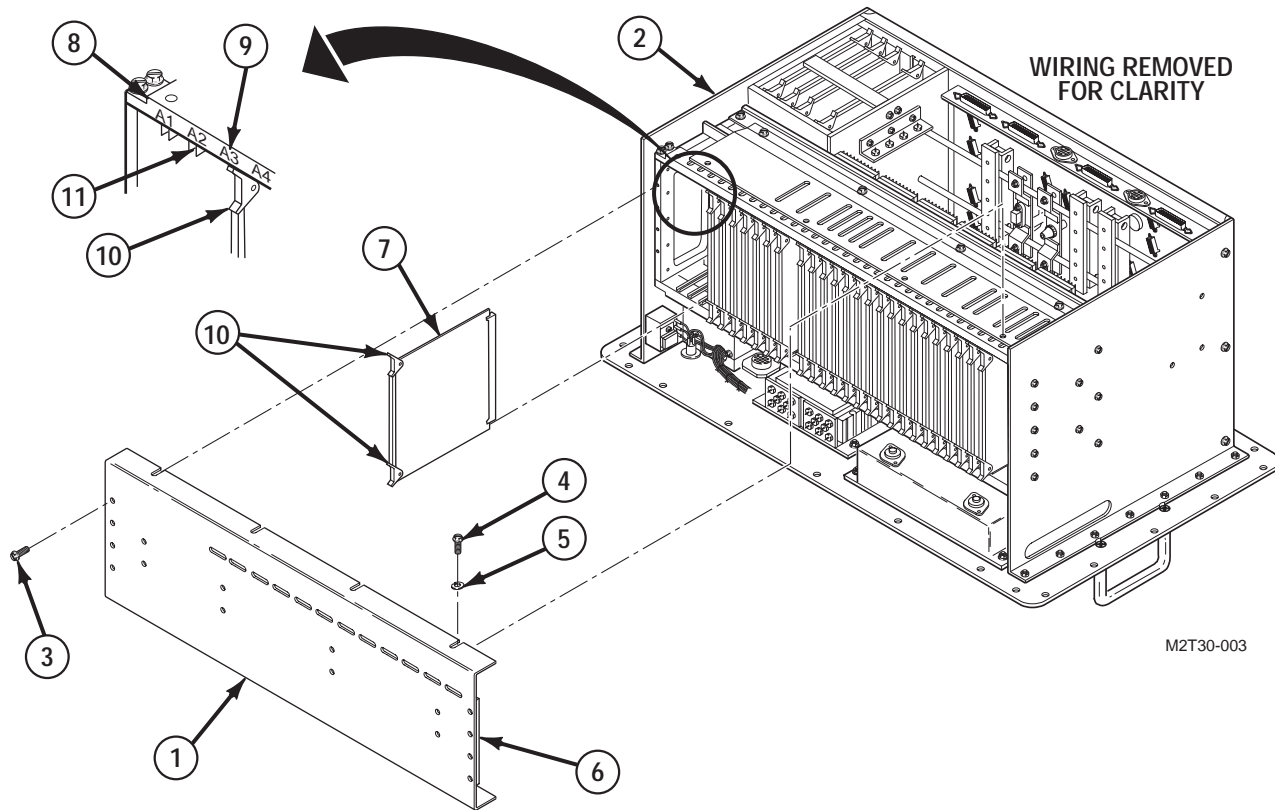


CAUTION

When replacing circuit card A5, make sure the DSPS level of replacement circuit card matches the DSPS level of OIU. DSPS level stickers are on circuit card frame and OIU front panel. An incorrect DSPS level can cause test set failure.

NOTE

Use this task for replacing any circuit card assembly in the main card cage. Circuit card assembly A5 is shown.

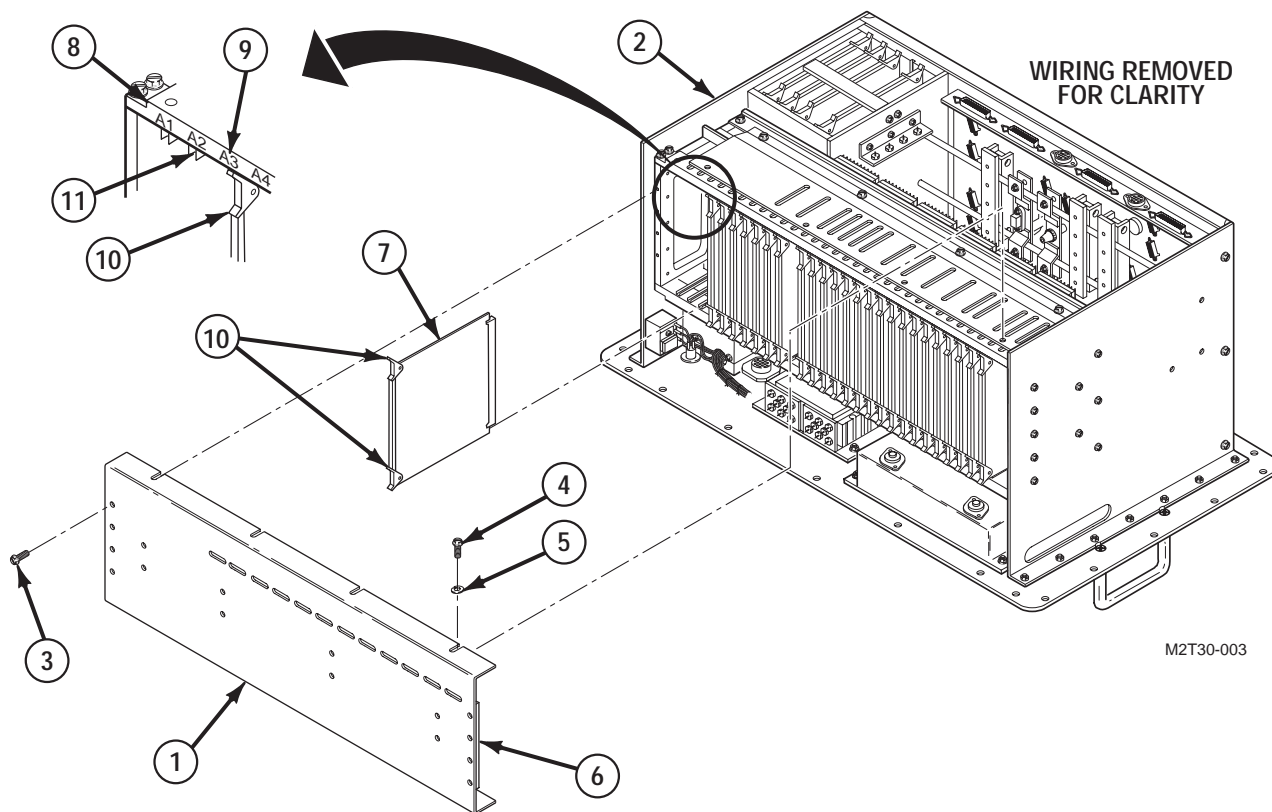
**REMOVE**

1. REMOVE COVER (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove eight screws (3) from cover (1).
 - b. Remove eight screws (4) and lockwashers (5), four on each side of cover (1). Discard lockwashers.
 - c. Remove cover (1) and inspect cover pad (6) for breaks, cracks, or looseness. If damaged, replace pad (6); refer to WP 0087 00.

2. REMOVE CIRCUIT CARD ASSEMBLY (7) FROM CIRCUIT CARD CAGE (8).
 - a. Identify circuit card assembly (7) to be removed by designator (9) printed on card cage (8).
 - b. Pull up on circuit card tabs (10) and remove circuit card assembly (7).
 - c. Inspect guides (11) for cracks or breaks. If damaged, discard and snap new guides (11) in place on card cage (8).

**REPLACE OIU CIRCUIT CARD ASSEMBLY, A5 THRU A10 OR A12 THRU A33,
MAIN CARD CAGE - CONTINUED**

0045 00

**INSTALL**

3. INSTALL NEW CIRCUIT CARD ASSEMBLY (7) IN CIRCUIT CARD CAGE (8).
 - a. Place circuit card assembly (7) in card guides (11).
 - b. Align circuit card assembly (7) with connector in rear of card cage (8).
 - c. Press on circuit card tabs (10) until circuit card assembly (7) seats in connector.

4. INSTALL COVER (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Place cover (1) on electronics assembly (2) and card cage (8).
 - b. Spread a thin coat of sealing compound on threads of 16 screws (3,4).
 - c. Install eight screws (3) in cover (1).
 - d. Install eight screws (4), and new lockwashers (5), four on each side of cover.

END OF TASK

REPLACE OIU POWER SUPPLY

0046 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

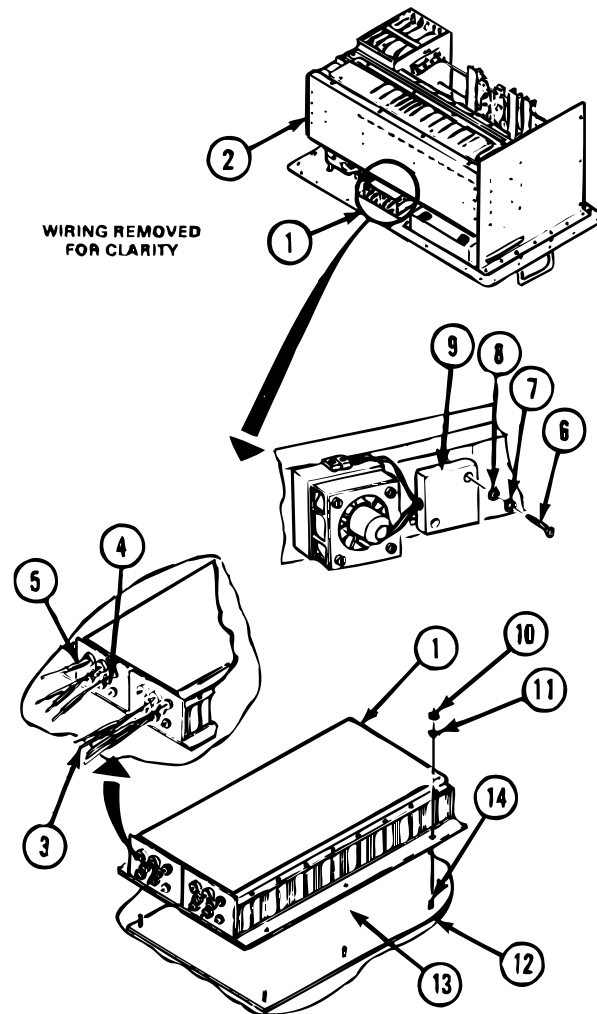
Equipment Conditions:

Do procedures 1 and 3 for 1984 and subsequent production OIUs;
refer to WP 0002 00.
Do procedures 1 and 2 for early production OIU's; refer to WP 0002 00.

Materials/Parts:

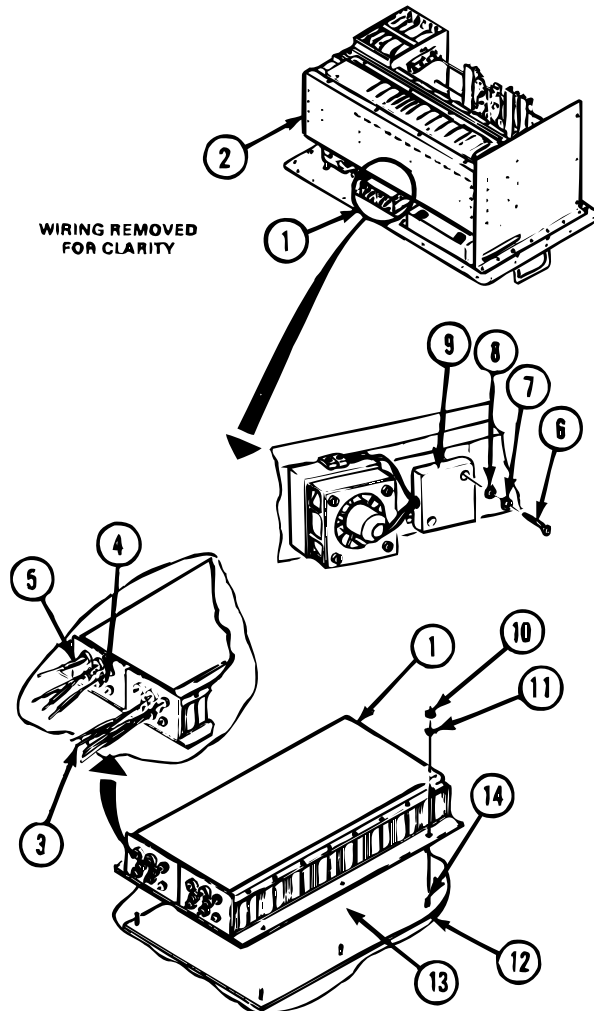
Insulation Sleeving (as required)
Lockwasher fan module (2)
Lockwasher, power supply (6)
Power Supply
Sealing Compound (Item 4, WP 0210 00)

1. Remove electronics assembly: refer to WP 0044 00.
2. Remove cover and load plate assembly; refer to WP 0049 00.
3. Remove front panel; refer to WP 0092 00.



NOTE

Read WP 0043 00 before doing any work.

**REMOVE**

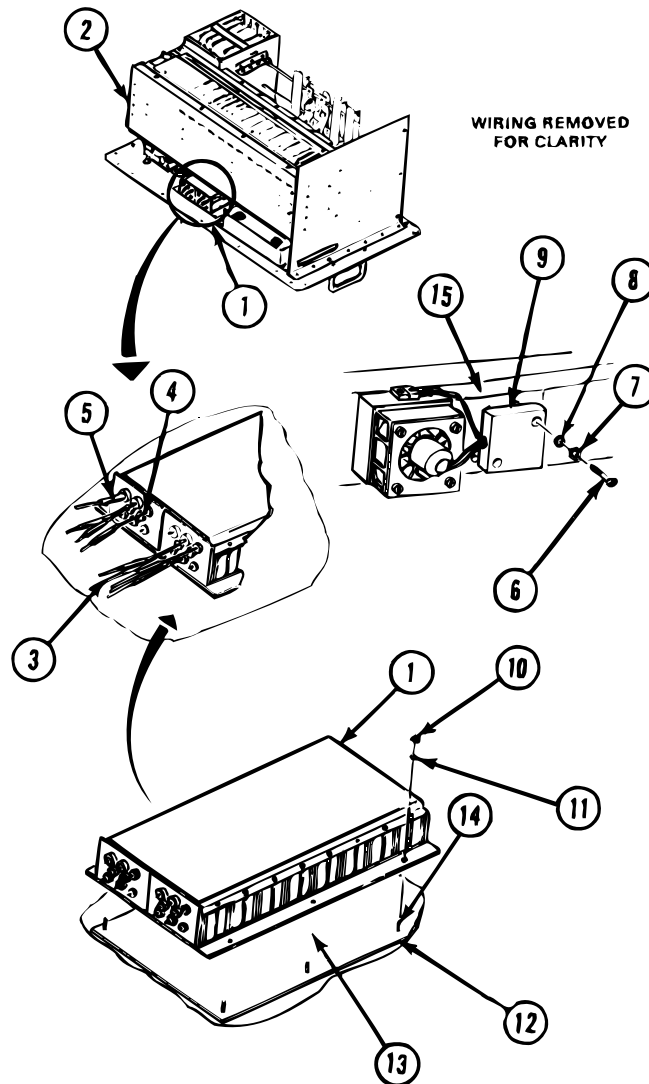
1. REMOVE POWER SUPPLY (1) FROM ELECTRONICS ASSEMBLY (2).

- a. Remove nine wires (3) from terminals (4).
- b. Remove and discard insulation sleeving (5).

NOTE

If front panel has been removed, go to step d.
 If fan does not have a fan module, go to step d.

- c. Remove two screws (6), lockwashers (7), and flat washers (8) securing fan module (9). Discard lockwashers. Move fan module (9) aside for access.
- d. Remove six nuts (10) and lockwashers (11) holding power supply (1) to front panel (12). Discard lockwashers.
- e. Remove power supply (1) from front panel (12). Inspect thermal pad (13) for any damage. If damaged, replace pad (13).

**INSTALL****2. INSTALL POWER SUPPLY (1) IN ELECTRONICS ASSEMBLY (2).**

- a. Apply a thin coat of sealing compound on six studs (14).
- b. Position new power supply (1) on six studs (14) on front panel (12) and install six nuts (10) and new lockwashers (11).
- c. Cut nine 1/2 inch pieces of new insulation sleeving (5) and place on nine wires (3).
- d. Install nine wires (3) on nine terminals (4) on power supply (1).

NOTE

If front panel has been removed and OIU has a fan module, perform step e.

- e. Position fan module (9) on fan duct (15) and install two screws (6), new lockwashers (7), and flat washers (8).

END OF TASK

REPLACE OIU DISPLAY ASSEMBLY**0047 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

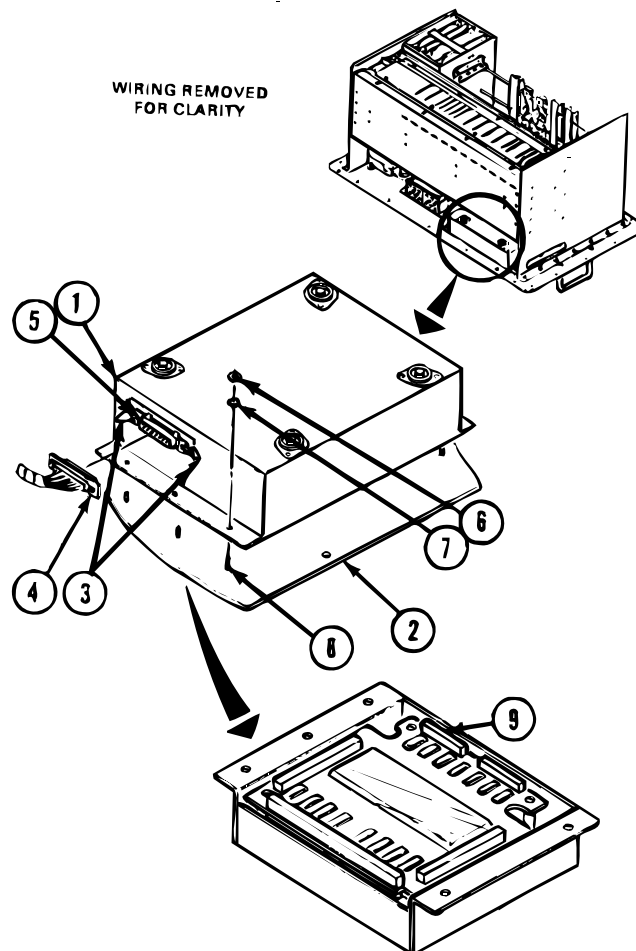
Display Assembly
Lockwasher (6)
Sealing Compound (Item 4, WP 0210 00)

Equipment Conditions:

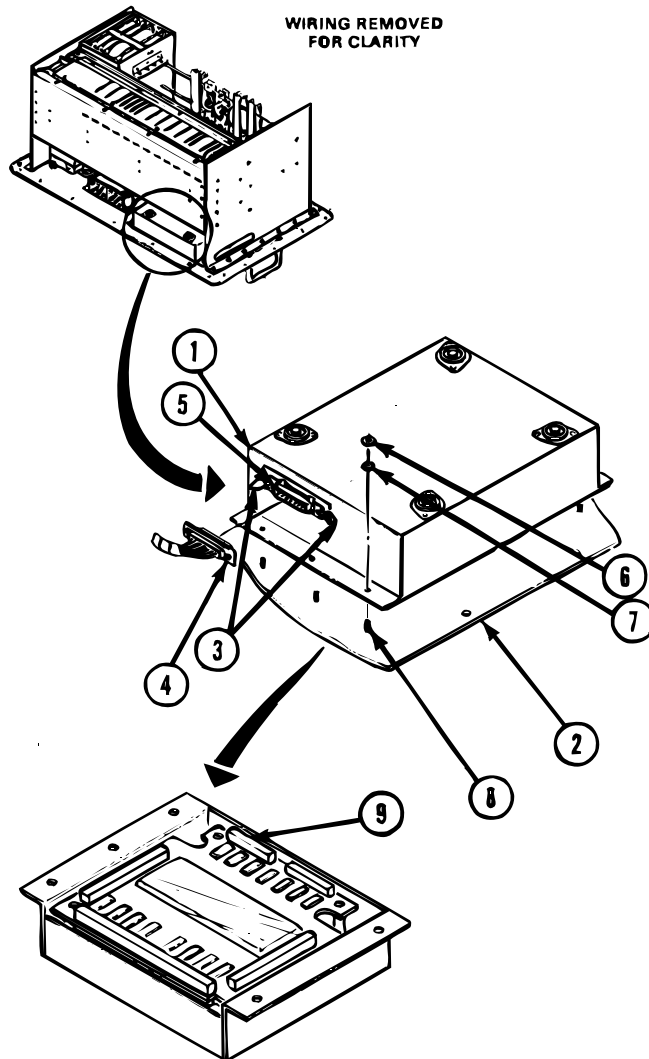
Do preliminary procedures 1 and 3 for 1984 and subsequent production OIUs; refer to WP 0002 00.

Do preliminary procedures 1 and 2 for early production OIUs; refer to WP 0002 00.

1. Remove electronics assembly; refer to WP 0044 00.
2. Remove cover and load plate assembly; refer to WP 0049 00.
3. Remove front panel; refer to WP 0092 00.

**REMOVE****1. REMOVE DISPLAY ASSEMBLY (1) FROM FRONT PANEL (2).**

- a. Release two latches (3) and remove connector plug P96 (4) from connector socket (5) on display assembly (1).
- b. Remove six nuts (6) and lockwashers (7) from studs (8) on front panel (2). Discard lockwashers.
- c. Lift out display assembly (1).
- d. Inspect pads (9) and latches (3) for damage. If pads (9) are damaged, replace; refer to WP 0080 00. If latches (3) are damaged, replace; refer to WP 0091 00.



INSTALL

2. INSTALL DISPLAY ASSEMBLY (1) ON FRONT PANEL (2).

- a. Apply a thin coat of sealing compound on threads of six studs (8) and position display assembly (1) on front panel (2).
- b. Install six nuts (6) and new lockwashers (7) on six studs (8).
- c. Install connector plug P96 (4) onto connector socket (5) on display assembly (1). Push two spring clips (3) into place.

END OF TASK

REPLACE OIU RFI SHIELD COVER

0048 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

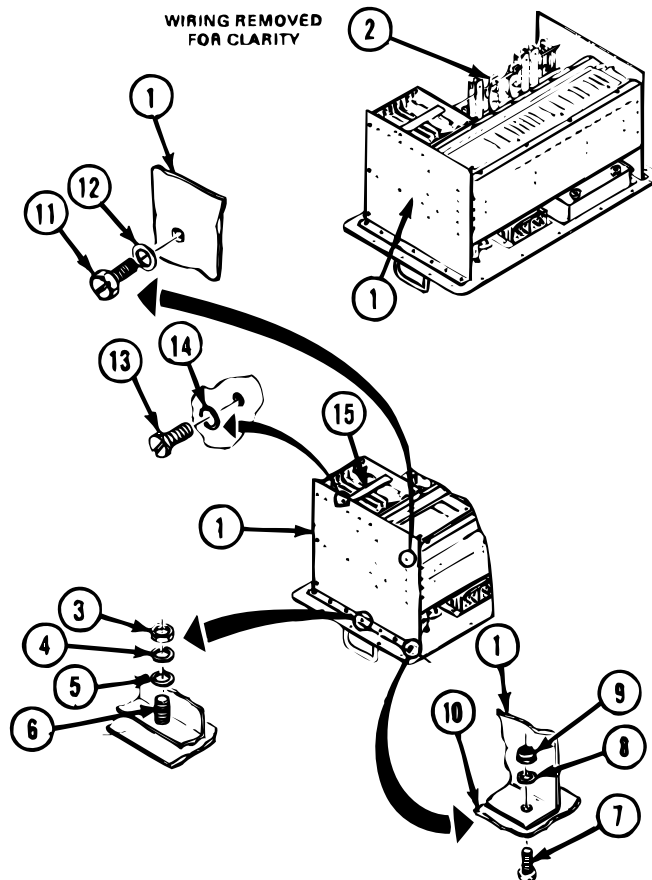
Calibration Specialist Tool Kit
SC 6695-92-A05

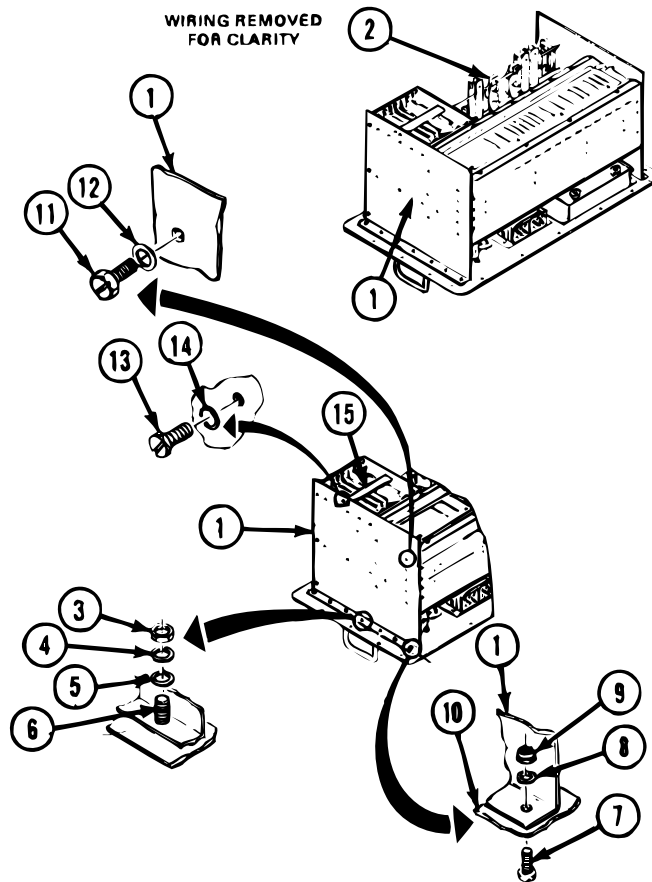
Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

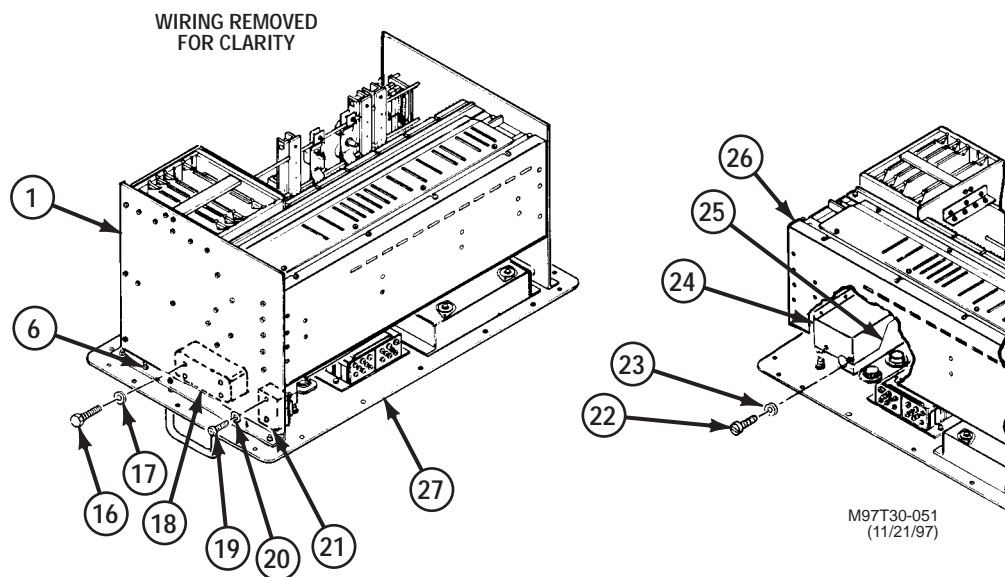
Locknut (2)
Lockwasher (2)
Lockwasher, end plate (24)
Lockwasher, filter assembly (4)
Lockwasher, front panel studs (5)
Lockwasher, PMC (2)
Lockwasher, RFI shield cover (4)
RFI Shield Cover
Screw (2)
Sealing Compound (Item 4, WP 0210 00)



**REMOVE**

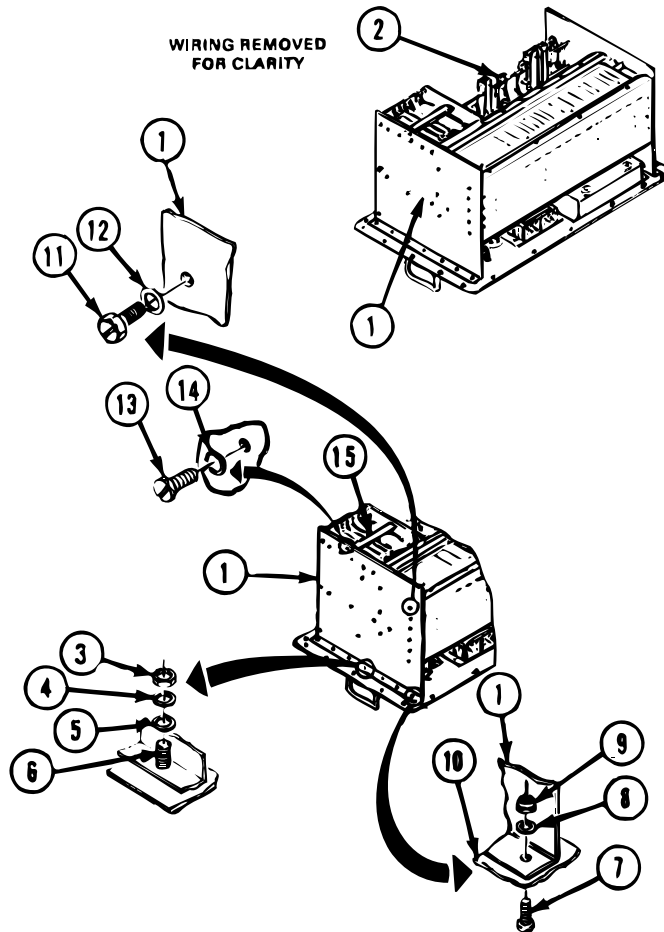
1. REMOVE END PLATE (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove five nuts (3), lockwashers (4), and flat washers (5) from studs (6). Discard lockwashers.
 - b. Remove two screws (7), flat washers (8), and locknuts (9) from front panel (10) and end plate (1). Discard locknuts and screws.
 - c. Remove 24 screws (11) and lockwashers (12) from end plate (1). Discard lockwashers.
 - d. Remove two screws (13) and lockwashers (14) from locking bar (15). Discard lockwashers.
 - e. Lift out locking bar (15) and set aside for later use.
 - f. Remove four screws (16) and lockwashers (17) holding filter assembly (18) to end plate (1). Discard lockwashers.
 - g. Remove two screws (19) and lockwashers (20) holding power monitor control unit (21) to end plate (1). Discard lockwashers.
 - h. Lift end plate (1) clear of studs (6) and set aside for later use.

2. REMOVE RFI SHIELD COVER (24).
 - a. Remove four screws (22) and lockwashers (23) holding RFI shield cover (24) to bracket (25). Discard lockwashers.
 - b. Lift circuit card cage assembly (26) and remove RFI shield cover (24) from bracket (25).



INSTALL

3. INSTALL NEW RFI SHIELD COVER (24) ON RFI FILTER BRACKET (25).
 - a. Place RFI shield cover (24) on bracket (25).
 - b. Install four screws (22) and new lockwashers (23) securing RFI shield cover (24) to bracket (25).
4. INSTALL RFI FILTER (18) AND PMC UNIT (21) ON END PLATE (1).
 - a. Apply a thin coat of sealing compound to the threads of four screws (16).
 - b. Hold filter assembly (18) in position on end plate (1) and install four screws (16) and new lockwashers (17).
 - c. Apply a thin coat of sealing compound to the threads of two screws (19).



- d. Hold PMC unit (21) in position on end plate (1) and install two screws (19) and new lockwashers (20).

INSTALL – Continued

5. INSTALL END PLATE (1) ON ELECTRONICS ASSEMBLY (2).

- a. Position end plate (1) on studs (6).
- b. Apply a thin coat of sealing compound to the threads of 24 screws (11). Install 24 screws (11) and new lockwashers (12).
- c. Install two new screws (7), washers (8), and new locknuts (9) holding front panel (10) to end plate (1).
- d. Apply a thin coat of sealing compound to the threads of five studs (6). Install five nuts (3), new lockwashers (4), and flat washers (5) on five studs (6).
- e. Apply a thin coat of sealing compound to the threads of two screws (13).
- f. Place locking bar (15) in position and install two screws (13) and new lockwashers (14).

END OF TASK

REMOVE/INSTALL OIU COVER AND LOAD PLATE ASSEMBLY**0049 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

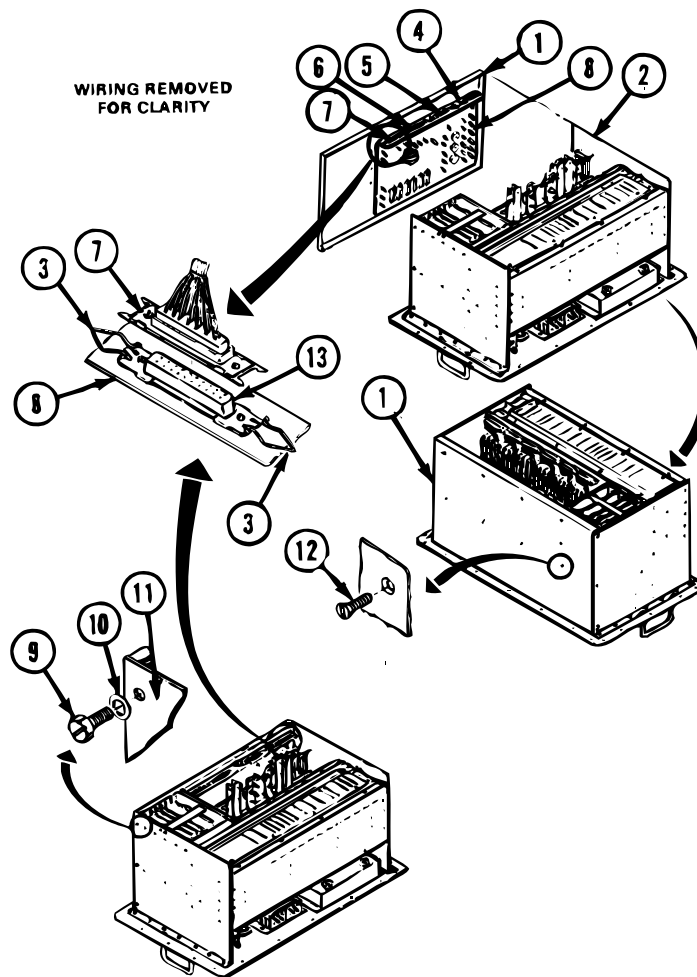
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

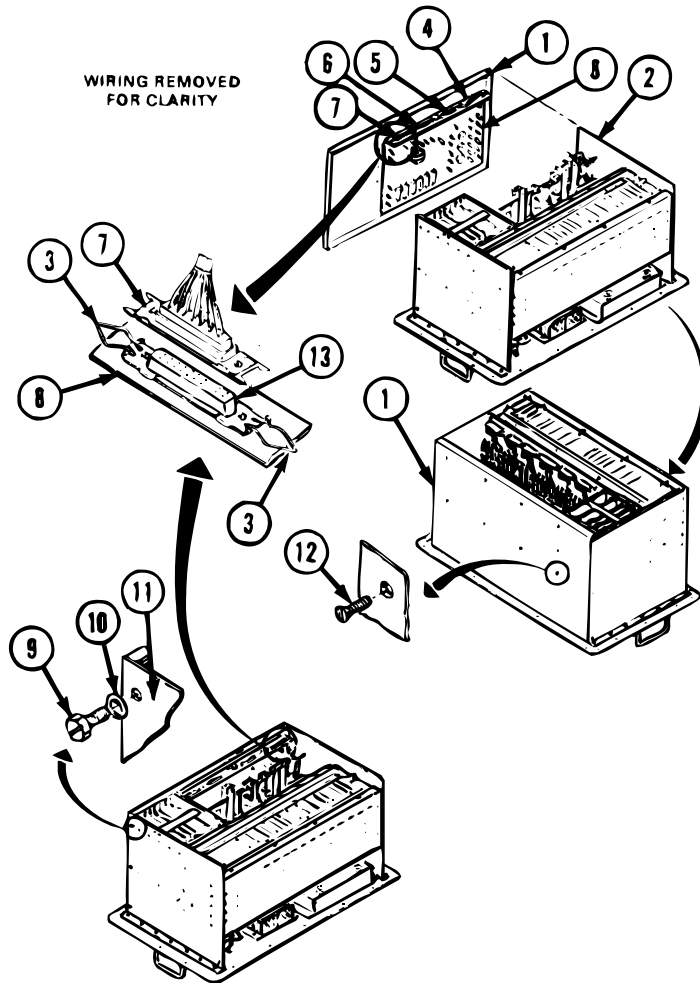
Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Lockwasher(6).
Sealing Compound (Item 4, WP 0210 00.)

**REMOVE**

1. REMOVE COVER ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Release two spring clips (3) on connector plugs P97 (4), P98 (5), P99 (6), and P100 (7). Remove each connector plug from load plate assembly (8).
 - b. Remove six screws (9) and lockwashers (10), three from each end plate (11). Discard lockwashers.
 - c. Remove three screws (12) from cover assembly (1) and lift off.

**INSTALL**

2. INSTALL COVER ASSEMBLY (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Position cover assembly (1) on electronics assembly (2) and install three screws (12).
 - b. Install six screws (9) and new lockwashers (10), three on each end plate (11).
 - c. Install connector plugs P100 (7), P99 (6), P98 (5), and P97 (4) into load plate assembly connector sockets (13) and secure two spring clips (3) on each connector.

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

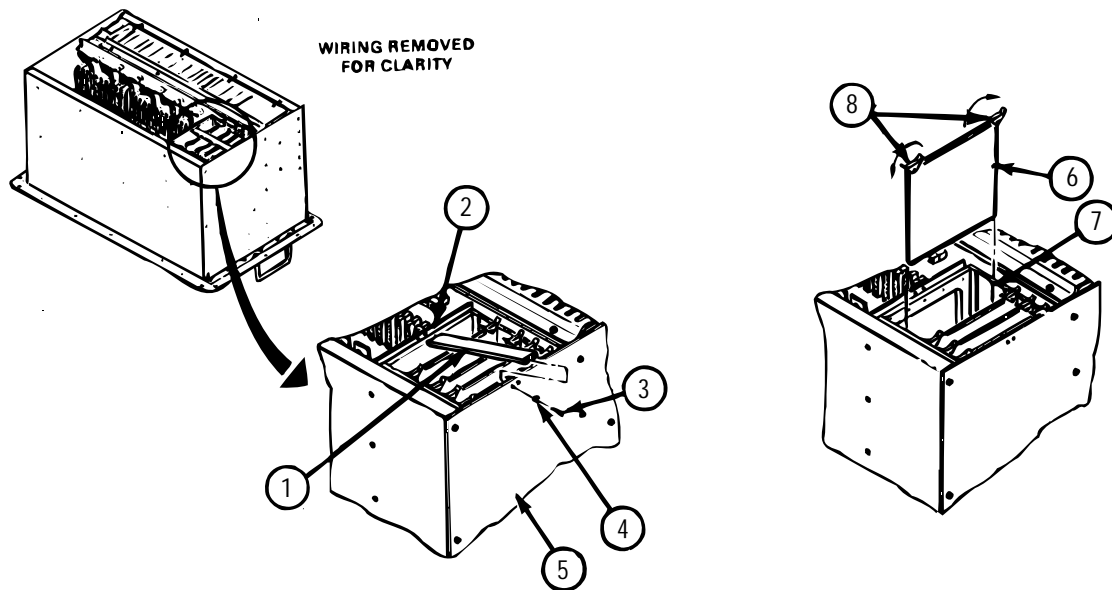
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Lockwasher (2)
Circuit Card Assembly (as required)



NOTE

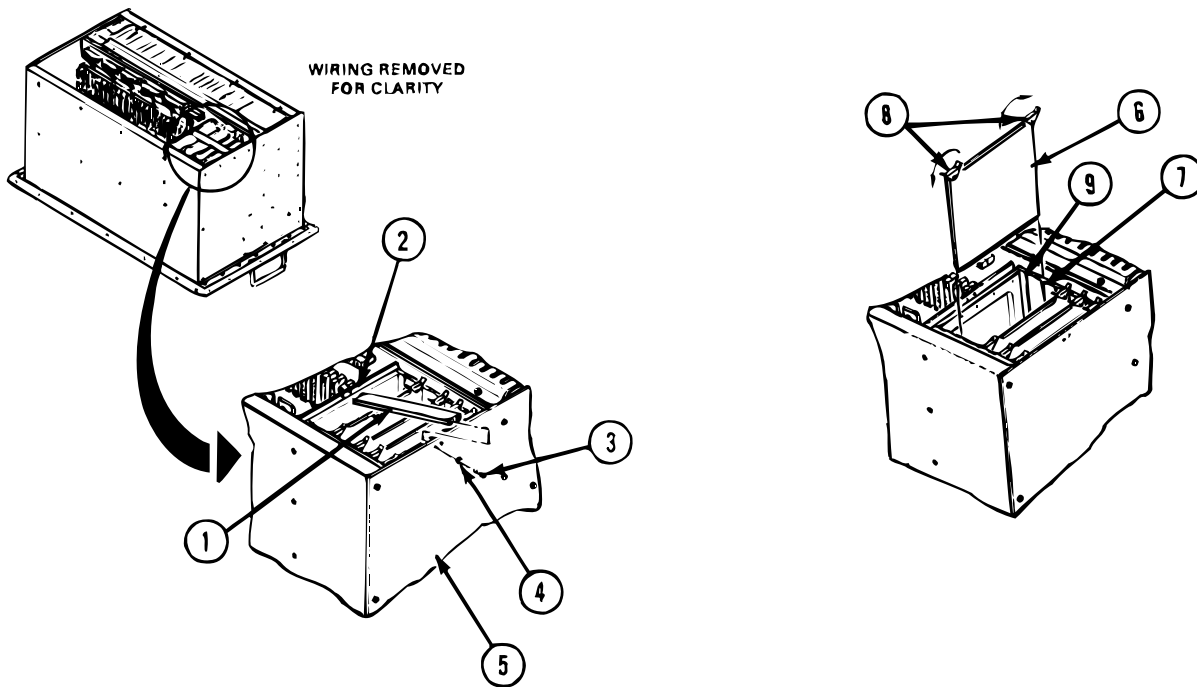
Use this task to remove and install any circuit card assembly in the mini card cage. Circuit card assembly A38 is shown.

REMOVE

1. REMOVE LOCKING BAR (1) FROM MINI CARD CAGE ASSEMBLY (2).
 - a. Remove two screws (3) and lockwashers (4) from end plate (5) holding locking bar (1). Discard lockwashers.
 - b. Remove locking bar (1) from mini card cage (2).
 - c. Inspect locking bar (1) for damage. If OK, set aside for later use. If damaged, replace.

**REPLACE OIU CIRCUIT CARD ASSEMBLY, A34 THRU A36 OR A38,
MINI CARD CAGE - CONTINUED**

0050 00

**REMOVE – Continued****2. REMOVE CIRCUIT CARD ASSEMBLY (6) FROM MINI CARD CAGE (2).**

- a. Identify circuit card (6) to be removed by printed designator (7) on card cage (2).
- b. Pull up on circuit card tabs (8) and remove circuit card assembly (6).

INSTALL**3. INSTALL CIRCUIT CARD ASSEMBLY (6) IN MINI CARD CAGE (2).**

- a. Place circuit card assembly (6) in position in circuit card guides (9). Align circuit card connector with connector in card cage (2).
- b. Press down on circuit card tabs (8) until circuit card assembly (6) seats in connector.

4. INSTALL LOCKING BAR ASSEMBLY (1) IN MINI CARD CAGE ASSEMBLY (2).

- a. Place locking bar assembly (1) in position in mini card cage (2).
- b. Install two screws (3) and new lockwashers (4) securing locking bar assembly (1) to end plate (5).

END OF TASK

REMOVE/INSTALL OIU MINI CARD CAGE ASSEMBLY**0051 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

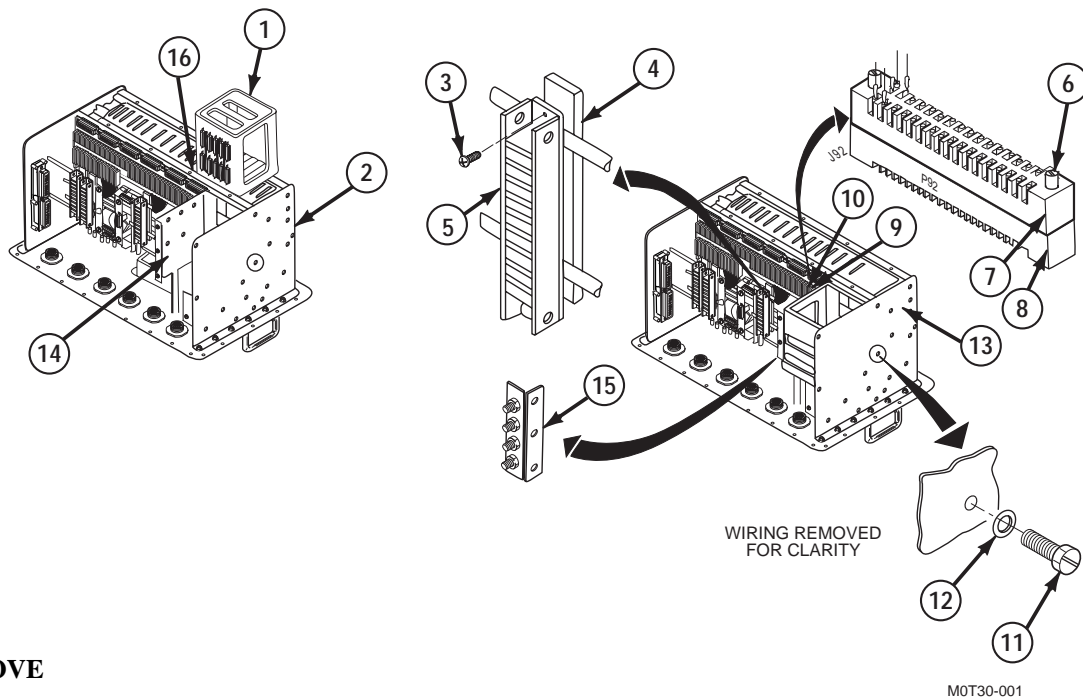
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

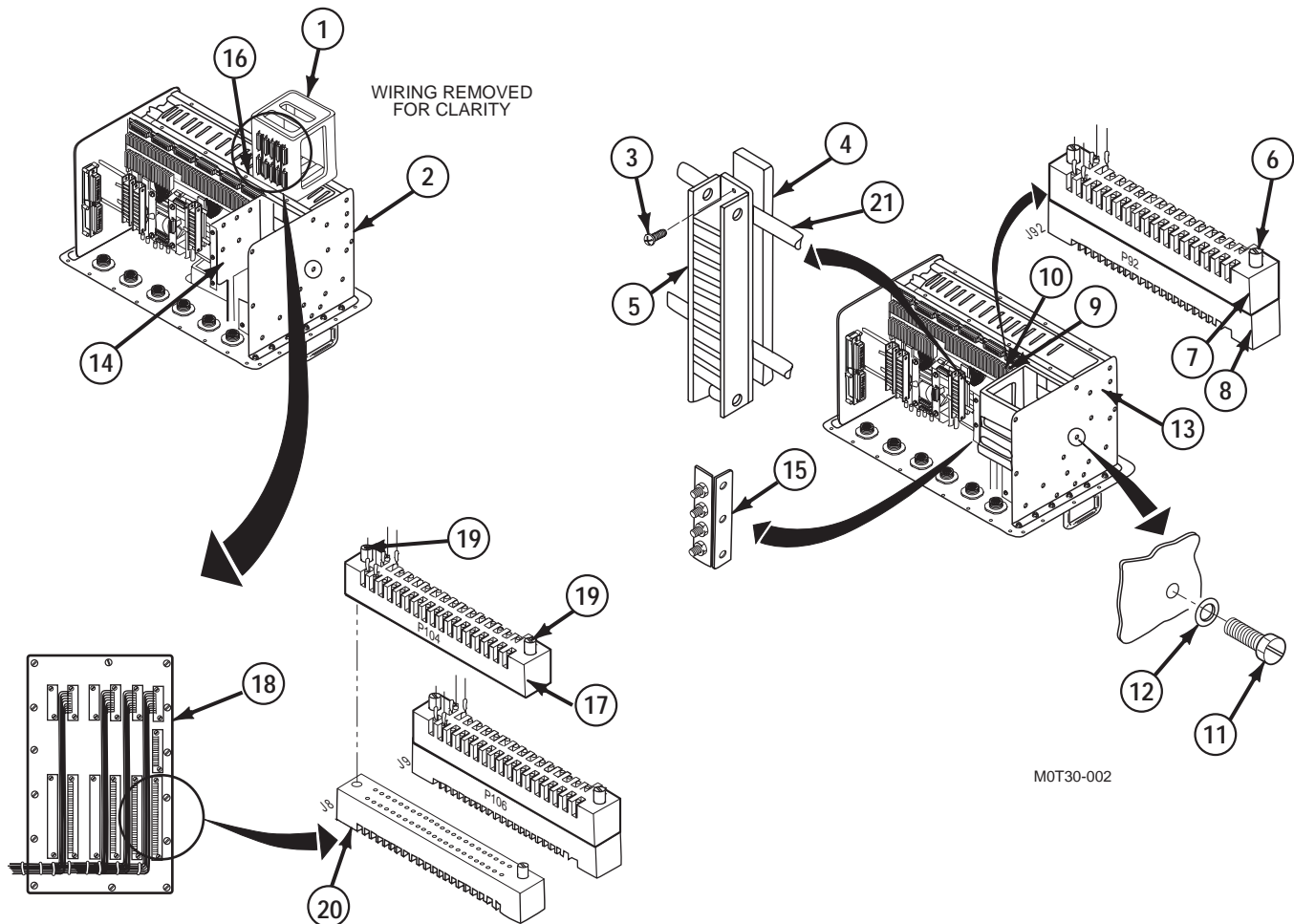
Remove electronics assembly, refer to WP 0044 00.
Remove circuit card assemblies, mini card cage; refer to WP 0050 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Lockwasher (16)
Sealing Compound (Item 4, WP 0210 00)

**REMOVE**

1. REMOVE MINI CARD CAGE ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3) and clamp bar (4) from TB1 track (5). Set clamp bar (4) aside for later use. Move TB1 track (5) out of way.
 - b. Loosen two captive screws (6) on connector plug P92 (7) and remove from connector socket J92 (8).
 - c. Loosen two captive screws (6) on connector plug P34 (9) and remove from connector socket J34 (10).
 - d. Move connector plugs P92 (7) and P34 (9) out of way.
 - e. Remove 16 screws (11) and lockwashers (12) holding mini card cage assembly (1) to electronics assembly (2), eight through end plate (13) and eight through center plate (14). Discard lockwashers.
 - f. Move capacitor mounting plate (15) out of way.
 - g. Lift mini card cage (1) out of electronics assembly (2) as far as wiring (16) will allow.
2. REMOVE CONNECTOR PLUGS (17) FROM MINI CARD CAGE BACKPLANE (18).
 - a. Loosen captive screws (19) on each connector plug (17) on backplane (18) and remove nine connector plugs (17) from connector sockets (20).
 - b. Remove mini card cage assembly (1).

**INSTALL**

3. INSTALL CONNECTOR PLUGS (17) ON MINI CARD CAGE BACKPLANE (18).
 - a. Position mini card cage assembly (1) on electronics assembly (2) and install nine connector plugs (17) to connector sockets (20) on mini card cage backplane (18).
 - b. Tighten two captive screws (19) on each connector plug (17) holding plugs to connector sockets (20) on backplane (18).

4. INSTALL MINI CARD CAGE ASSEMBLY (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Position mini card cage assembly (1) in place in electronics assembly (2).
 - b. Apply a thin coat of sealing compound on threads of 16 screws (11) and install eight screws (11) and new lockwashers (12) holding mini card cage assembly (1) to end plate (13).
 - c. Install eight screws (11) and new lockwashers (12) holding mini card cage assembly (1) and capacitor mounting plate (15) to center plate (14).
 - d. Install connector plugs P34 (9) and P92 (7) into connector sockets J34 (10) and J92 (8). Tighten two captive screws (6) on each.
 - e. Position TB1 track (5) and clamp bar (4) on mounting bars (21) and install two screws (3).

END OF TASK

REPLACE OIU RELAY K1 OR K3**0052 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

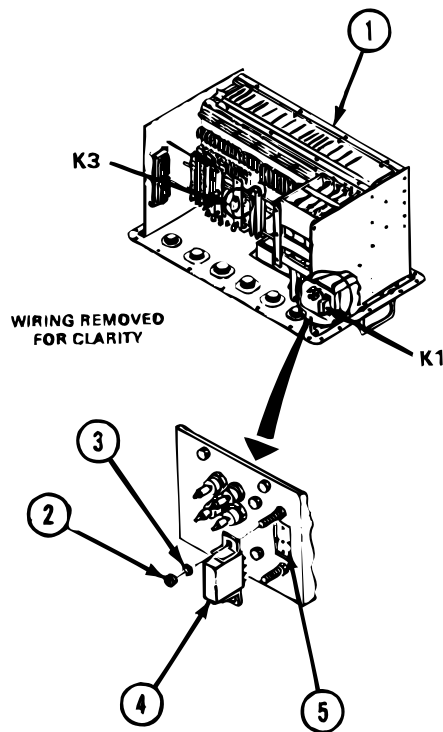
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Relay (as required)

**NOTE**

Use this task to take off relay K1 or relay K3. Relay K1 is shown.

REMOVE

1. REMOVE RELAY K1 OR K3 FROM ELECTRONICS ASSEMBLY (1).
 - a. Remove two nuts (2) and washers (3) from relay (4).
 - b. Remove and discard relay (4).

INSTALL

2. INSTALL NEW RELAY K1 OR K3 ON ELECTRONICS ASSEMBLY (1).
 - a. Install relay (4) in relay socket (5).
 - b. Install two nuts (2) and washers (3).

END OF TASK

REPLACE OIU RELAY K2**0053 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

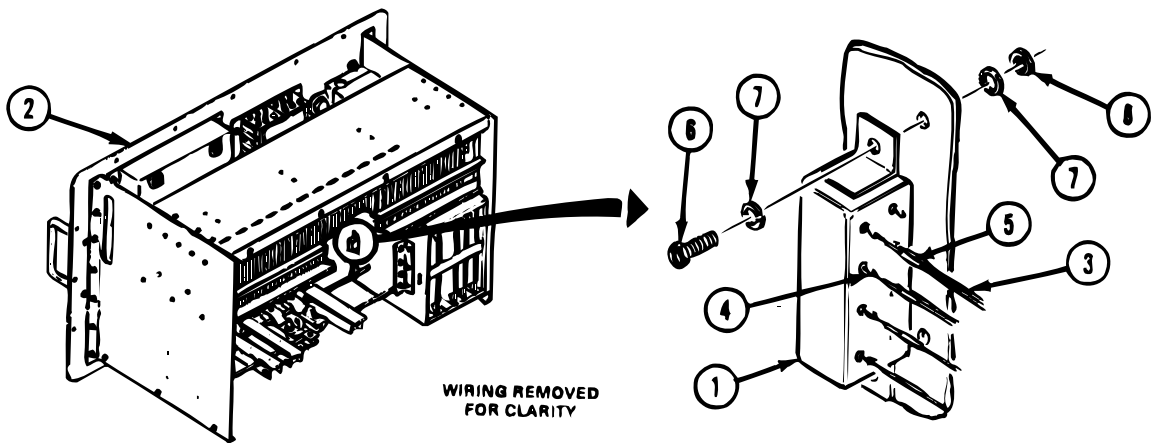
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

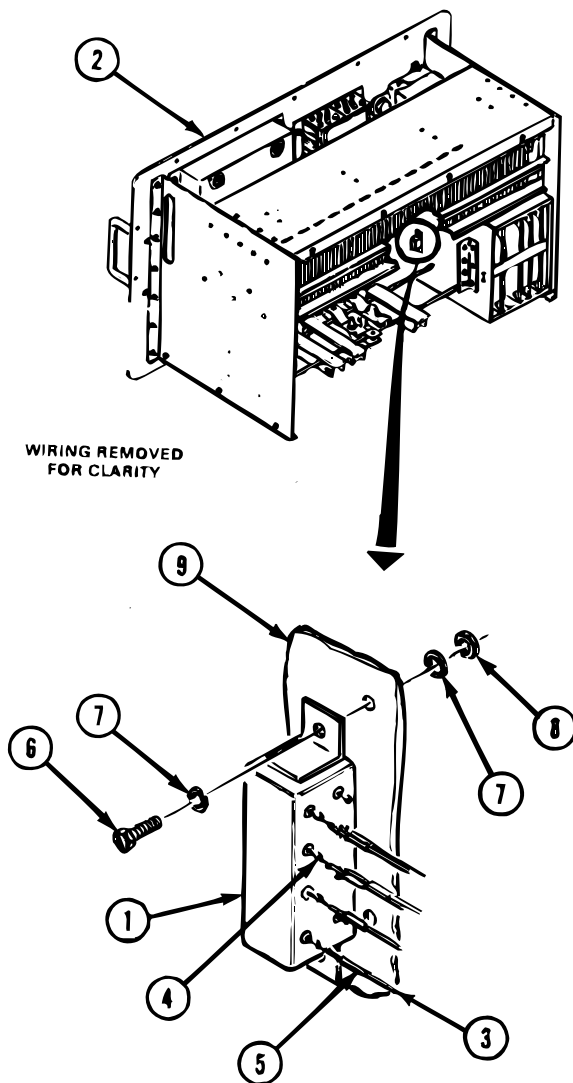
Insulation Sleeving (as required)
Lockwasher (2)
Relay

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE RELAY K2 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove six wires (3) from terminals (4) on relay K2 (1).
 - b. Remove insulation sleeving (5) from wires (3) and discard.
 - c. Remove two screws (6), lockwashers (7), and nuts (8). Discard lockwashers.
 - d. Remove and discard relay (1).

**INSTALL**

2. INSTALL NEW RELAY K2 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Position new K2 relay (1) on center plate (9) and install two screws (6), new lockwashers (7) and nuts (8).
 - b. Cut six 1/2-inch pieces of new insulation sleeving (5) and place one on each wire (3).
 - c. Install six wires (3) on relay terminals (4).

END OF TASK

REPLACE OIU TRANSIENT VOLTAGE PROTECTOR PLATE ASSEMBLY

0054 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

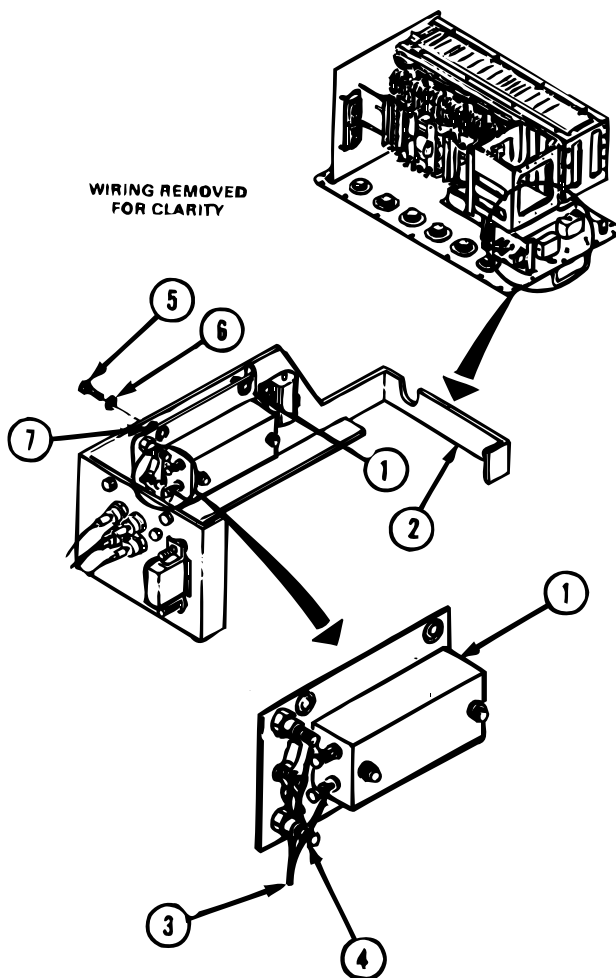
Lockwasher (4)
Transient Voltage Protector Plate
Assembly

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove RFI shield cover; refer to WP 0048 00.
Remove circuit card assemblies; mini card cage; refer to WP 0050 00.
Remove mini card cage assembly; refer to WP 0051 00.
Remove center plate; refer to WP 0088 00.

NOTE

Read WP 0043 00 before doing any work.

**REMOVE**

1. REMOVE TRANSIENT VOLTAGE PROTECTOR PLATE ASSEMBLY (1) FROM RFI SHIELD ASSEMBLY (2).
 - a. Remove harness wires (3) from terminals (4).
 - b. Remove four screws (5) and lockwashers (6). Discard lockwashers.
 - c. Lift out plate assembly (1) and four spacers (7). Turn in plate assembly (1).

INSTALL

2. INSTALL NEW TRANSIENT VOLTAGE PROTECTOR PLATE ASSEMBLY (1) ON RFI SHIELD ASSEMBLY (2).
 - a. Install four screws (5), new lockwashers (6), and spacers (7) securing plate assembly (1) to bracket.
 - b. Solder wires (3) to terminals (4).

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Installation

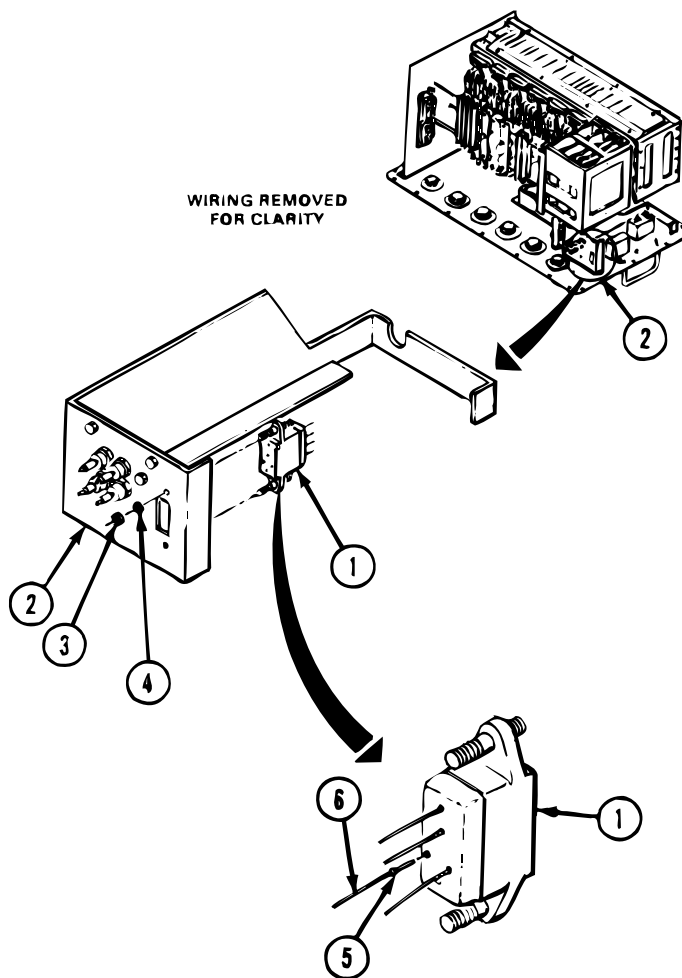
INITIAL SETUP

Tools:

- Calibration Specialist Tool Kit
- SC 6695-92-A05
- Maintenance Kit, Electrical Connector 13440042

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove RFI shield cover; refer to WP 0048 00.
- Remove relay K1; refer to WP 0052 00.

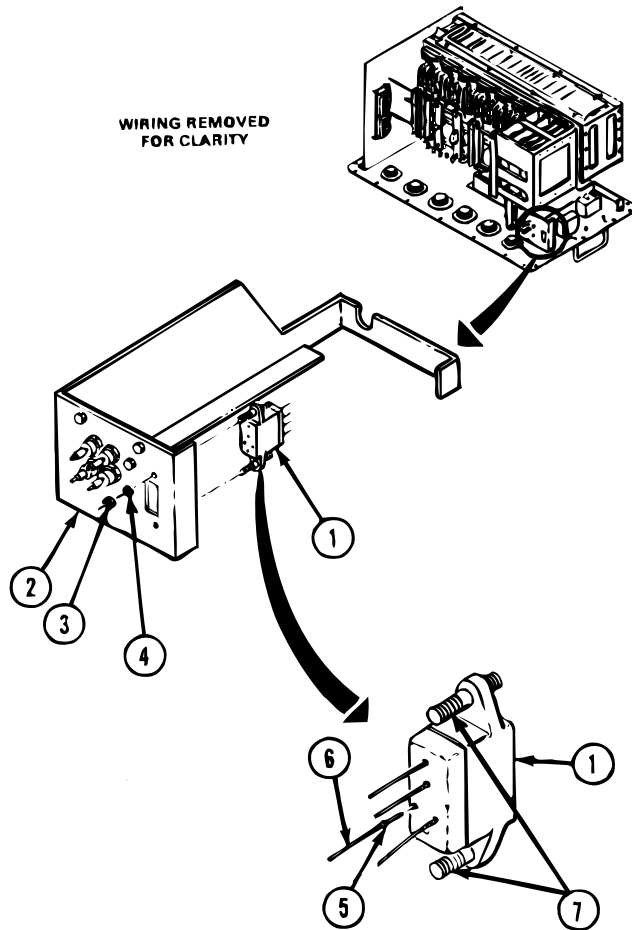


NOTE

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE RELAY SOCKET (1) FROM BRACKET (2).
 - a. Remove two nuts (3) and washers (4) holding relay socket (1) to bracket (2).
 - b. Remove relay socket (1) from bracket (2).
 - c. Remove contacts (5) and wires (6) from relay socket (1).



REMOVE – Continued

NOTE

To replace relay socket (1) remove all contacts (5) from relay socket (1) and discard nuts (3), washers (4) and relay socket (1). To repair relay socket (1) remove defective contacts (5) from relay socket (1) and replace.

- d. Cut wires (6) from defective contacts (5) and discard contacts.

INSTALL

- 2. INSTALL RELAY SOCKET (1) INTO BRACKET (2).

NOTE

If installing new relay socket (1) also install new nuts (3) and washers (4).

- a. Install new contacts (5) on wires (6) and install in relay socket (1).
- b. Position relay socket (1) on bracket (2) and install two nuts (3) and washers (4) on studs (7) to secure relay socket (1) to bracket (2).

END OF TASK

REPAIR/REPLACE OIU RELAY SOCKET XK3 - CONTINUED

0056 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

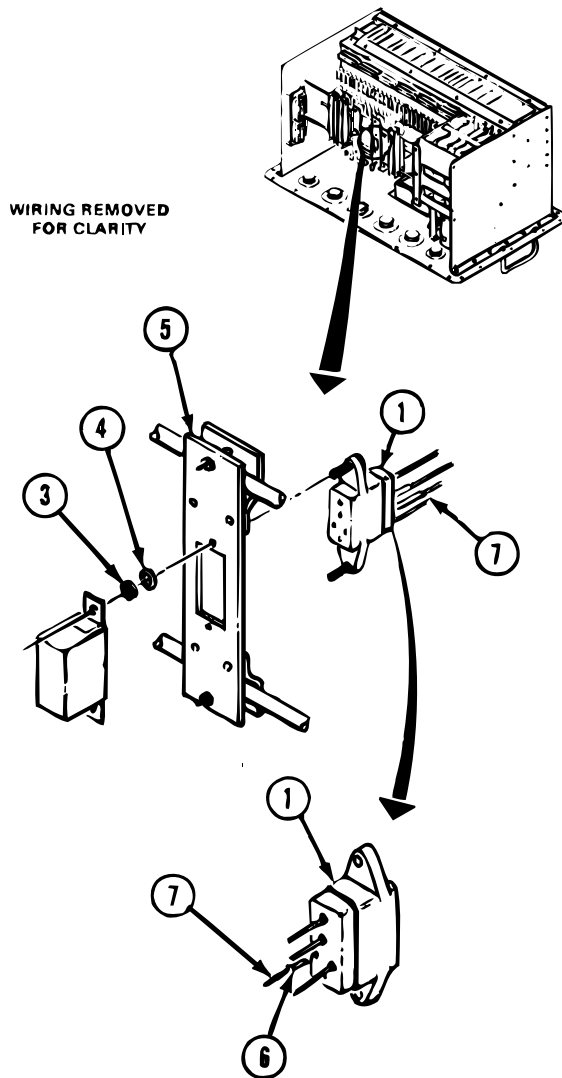
- Calibration Specialist Tool Kit
- SC 6695-92-A05
- Maintenance Kit, Electrical Connector 13440042

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove relay K3; refer to WP 0052 00.

Materials/Parts:

- Nut (2)
- Washer (2)



NOTE

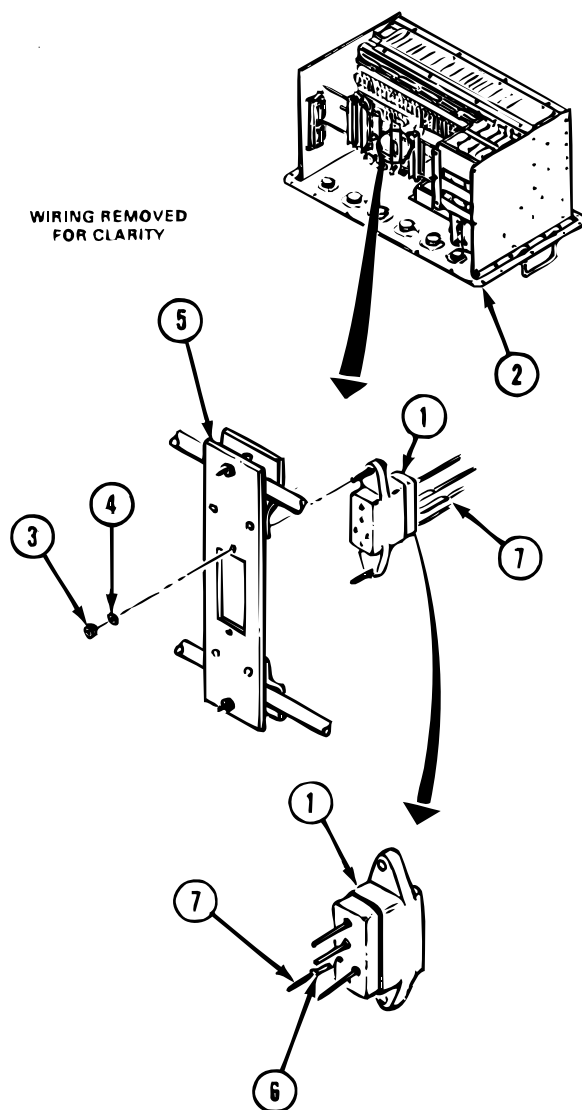
Read WP 00 43 00 before doing any work.

REMOVE

1. REMOVE RELAY SOCKET (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two nuts (3) and washers (4) holding relay socket (1) on bracket (5).
 - b. Remove relay socket (1) from bracket (5).

NOTE

To repair relay socket (1) remove only defective contact (6) from socket and replace on wires (7). To replace relay socket (1) remove all contacts (6) from socket. Discard nuts, washers, and relay socket.



REPAIR/REPLACE OIU RELAY SOCKET XK3 - CONTINUED

0056 00**REMOVE – Continued**

- c. Using removal tool, remove contacts (6) and wires (7) from relay socket (1).
- d. Using wire cutter, cut contacts (6) from wires (7).

INSTALL

- 2. INSTALL RELAY SOCKET (1) INTO ELECTRONICS ASSEMBLY (2).

NOTE

If installing new relay socket (1), also install new nuts (3) and washers (4).

- a. Install new contacts (6) on wires (7).
- b. Install wires (7) and contacts (6) into relay socket (1).
- c. Position relay socket (1) on bracket (5) and install two nuts (3) and washers (4) holding relay socket on bracket.

END OF TASK

REPLACE OIU POWER LAMP HOUSING XDS1

0057 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

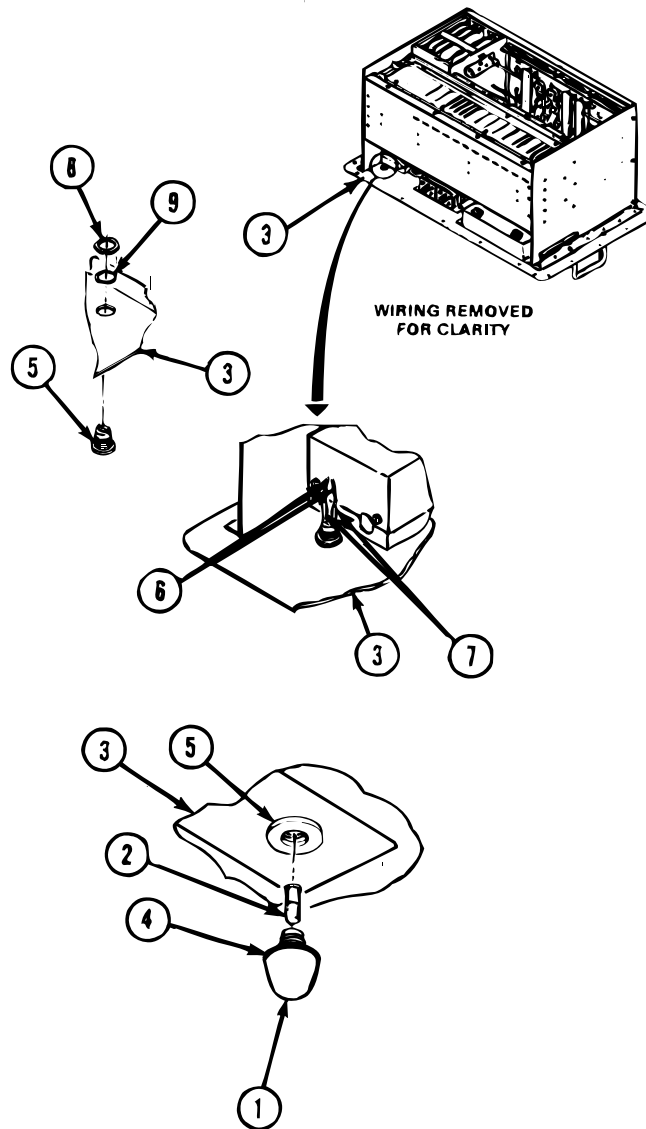
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/ Parts:

Insulation Sleeving (as required)
Lamp Housing

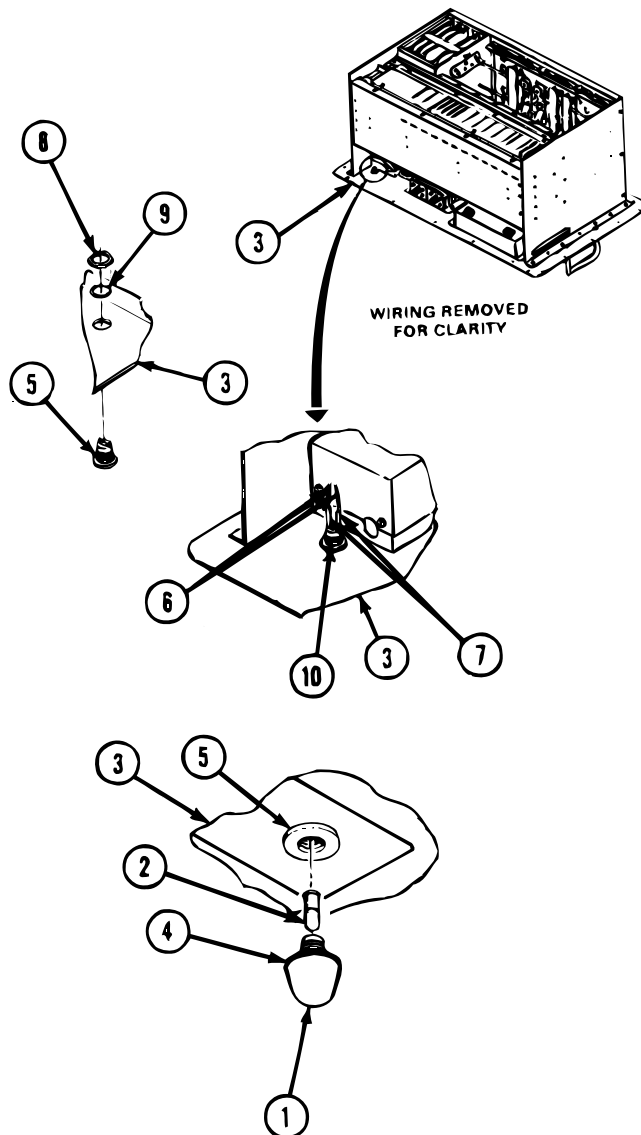


NOTE

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE POWER LAMP LENS (1) AND LAMP (2) FROM FRONT PANEL (3).
 - a. Remove lens (1), preformed packing (4), and lamp (2) from lamp housing (5).
 - b. Inspect lamp (2) for damage. If damaged, discard; if good, set aside for later use.
 - c. Inspect lens (1) and preformed packing (4) for damage. If damaged, discard; if good, set aside for later use.



REMOVE – Continued

2. REMOVE LAMP HOUSING (5) FROM FRONT PANEL (3).
 - a. Remove two wires (6) and insulation sleeving (7) from lamp housing (5).
 - b. Remove nut (8) and lockwasher (9).
 - c. Remove housing (5) from panel (3). Discard housing, nut, and lockwasher.

INSTALL

3. INSTALL NEW LAMP HOUSING (5) ON FRONT PANEL (3).
 - a. Position lamp housing (5) in front panel (3) and install new nut (8) and two new lockwashers (9).
 - b. Cut two 1/2-inch pieces of new insulation sleeving (7) and place one on each wire (6).
 - c. Solder two wires (6) to terminals (10) on lamp housing (5).
4. INSTALL POWER LAMP LENS (1) AND LAMP (2) ON FRONT PANEL (3).
 - a. Install lamp (2) into lens (1) and place preformed packing (4) on lens.
 - b. Install lens (1), lamp (2), and preformed packing (4) into lamp housing (5).

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

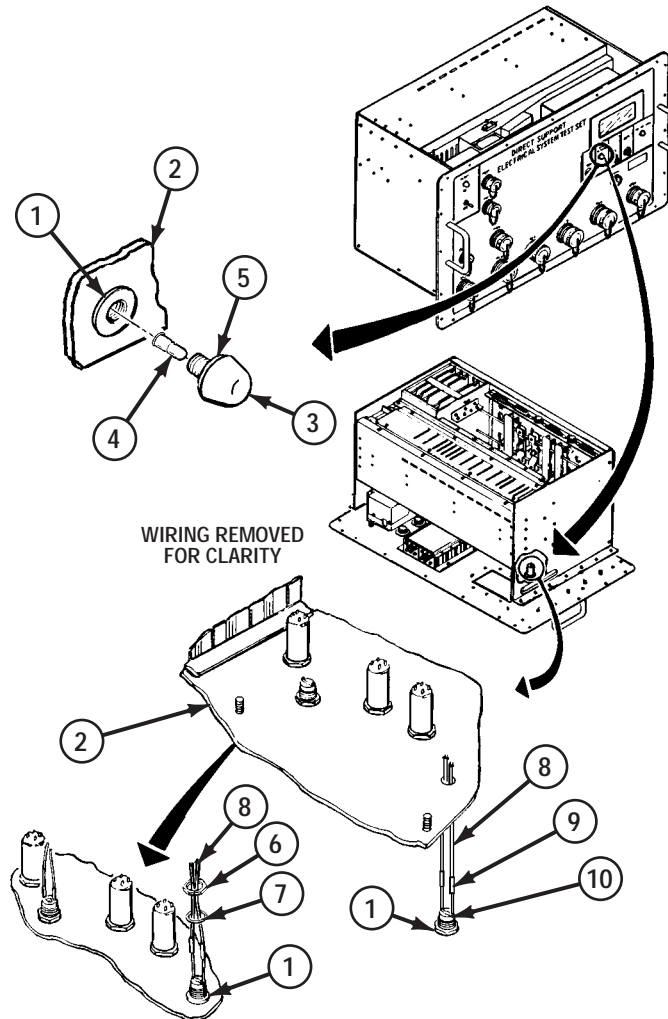
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove display assembly; refer to WP 0047 00.

Materials/Parts:

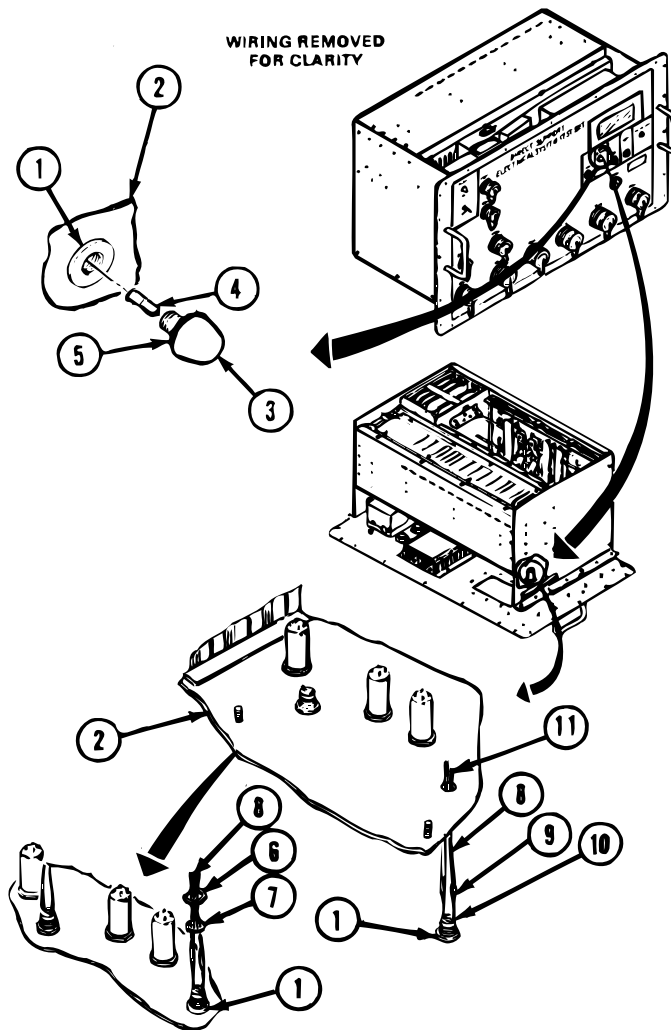
Insulation Sleeving (as required)
Lamp Housing



NOTE

Use this task to remove and install ANSWER REQUIRED or SELF TEST FAILED lamp housing. Only one lamp housing is shown.

Read WP 0043 00 before doing any work.



REMOVE

1. REMOVE ANSWER REQUIRED OR SELF TEST FAIL LAMP HOUSING (1) FROM FRONT PANEL (2).
 - a. Remove lens (3), lamp (4), and preformed packing (5).
 - b. Inspect lamp (4), preformed packing (5), and lens (3) for damage. If damaged, discard; if OK, set aside for later use.
 - c. Remove nut (6) and lockwasher (7) from lamp housing (1) onto wires (8). Discard nut, lockwasher, and indicator light.
 - d. Pull lamp housing (1) from front panel (2) as far as wires (8) will allow.
 - e. Remove two wires (8) and insulation sleeving (9) from terminals (10) on lamp housing (1). Discard lamp housing and insulation sleeving.

INSTALL

2. INSTALL NEW ANSWER REQUIRED OR SELF TEST FAIL LAMP HOUSING (1) INTO FRONT PANEL (2).
 - a. Slide new nut (6) and new lockwasher (7) on wires (8).
 - b. Put two wires (8) through hole (11) in front panel (2).
 - c. Cut two 1/2 inch pieces of new insulation sleeving (9) and place on wires (8).
 - d. Solder two wires (8) on terminals (10) of lamp housing (1).
 - e. Install lamp housing (1) in front panel (2).
 - f. Install preformed packing (5) on lens (3). Place lamp (4) into lens and install on lamp housing (1).

END OF TASK

REPLACE OIU CIRCUIT BREAKER CB1**0059 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

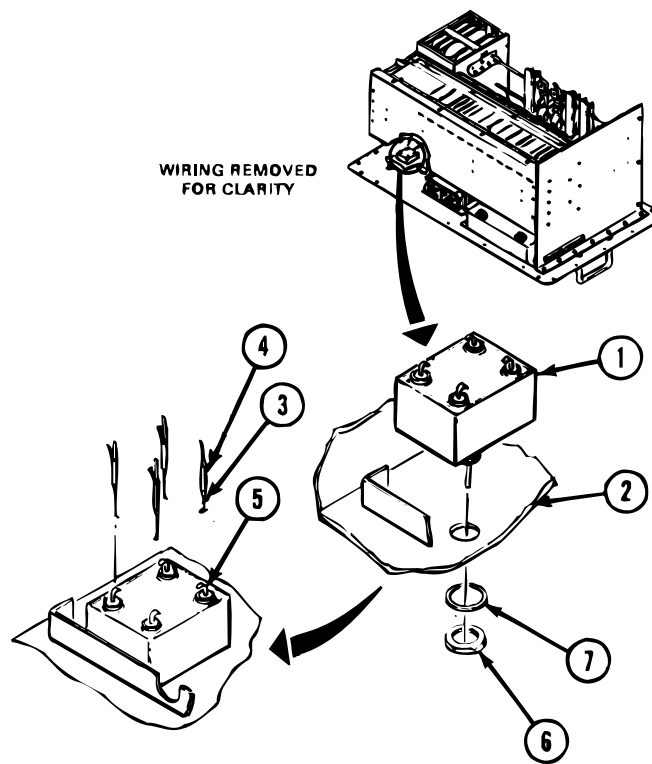
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove RFI shield cover; refer to WP 0048 00.

Materials/Parts:

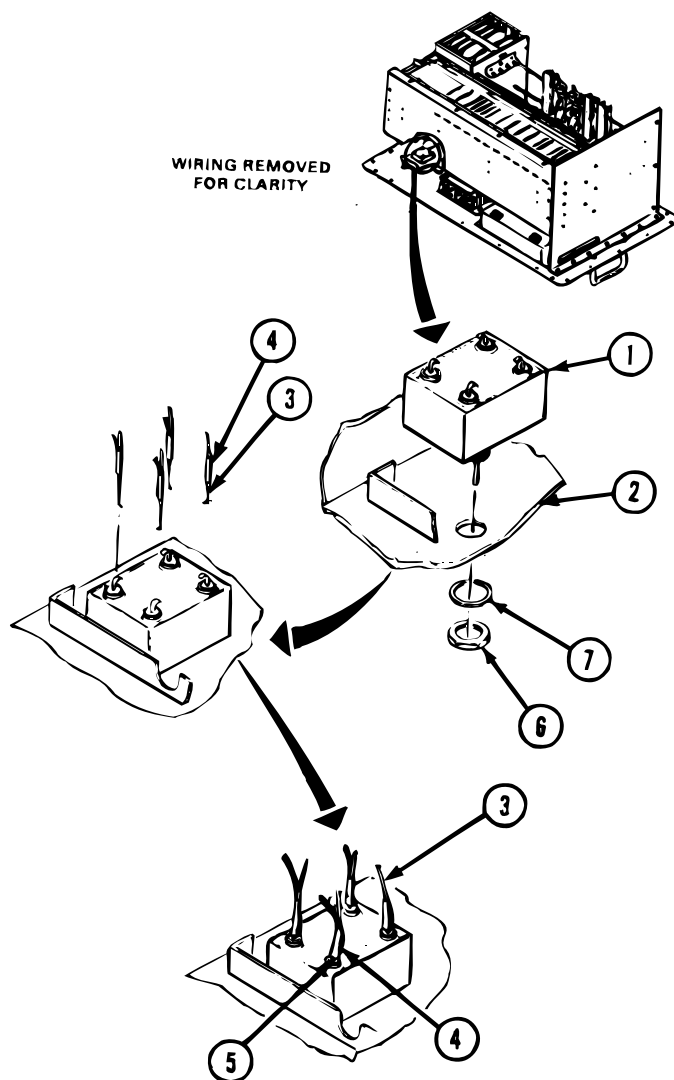
Circuit Breaker
Insulation Sleeving (as required)

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CIRCUIT BREAKER (1) FROM FRONT PANEL (2).
 - a. Remove wires (3) and insulation sleeving (4) from circuit breaker terminals (5).
 - b. Remove nut (6) and lockwasher (7) holding circuit breaker (1) in front panel (2). Discard nut and lockwasher.
 - c. Lift out circuit breaker (1) and discard.



INSTALL

2. INSTALL NEW CIRCUIT BREAKER (1) INTO FRONT PANEL (2).

NOTE

Discard lockring and on-off plate supplied with new circuit breaker.

- a. Install circuit breaker (1), new lockwasher (7), and new nut (6) on front panel (2).
- b. Cut four 5/8-inch pieces of new insulation sleeving (4) and place on four wires (3).
- c. Solder four wires (3) to circuit breaker terminals (5).

END OF TASK

REPLACE OIU PUSHBUTTON SWITCHES S1, S2, OR S3

0060 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

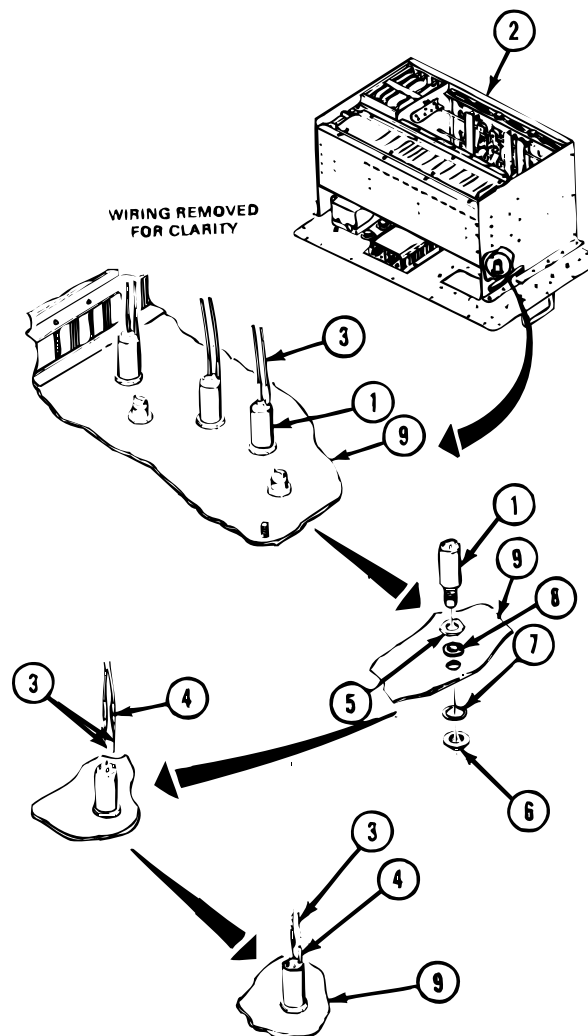
- Calibration Specialist Tool Kit
- SC 6695-92-A05
- Combination Wrench, 9/16 inch (fabricated, WP 0211 00.)

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove display assembly; refer to WP 0047 00.

Materials/Parts:

- Insulation Sleeving (as required)
- Switch



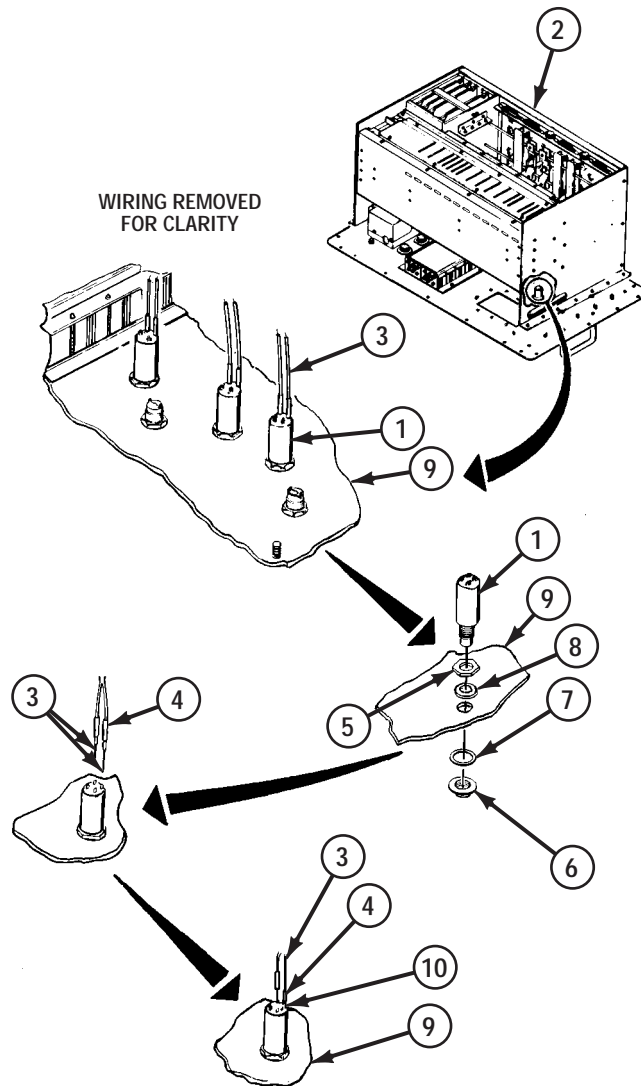
NOTE

Use this task to remove and install any pushbutton switch. STOP pushbutton switch (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE PUSHBUTTON SWITCH (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two wires (3) and insulation sleeving (4) from switch (1). Discard insulation sleeving.
 - b. Loosen nut (5). Remove dress ring (6) and gasket (7).
 - c. Remove switch (1), nut (5), and lockwasher (8) from panel (9). Discard switch, nut, dress ring, lockwasher, and gasket.



INSTALL

2. INSTALL NEW PUSHBUTTON SWITCH (1) INTO ELECTRONICS ASSEMBLY (2).

NOTE

Discard non-turn washer supplied with new switch.

INSTALL – Continued

- a. Install new nut (5) and lockwasher (8) on switch (1).
- b. Install switch (1) in panel (9).
- c. Install new gasket (7) and dress ring (6) on switch (1).
- d. Tighten nut (5).
- e. Cut two 1/2-inch pieces of insulation sleeving (4) and put on two wires (3).
- f. Solder two wires (3) onto switch terminals (10).

END OF TASK

REPLACE OIU FILTER FL1**0061 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

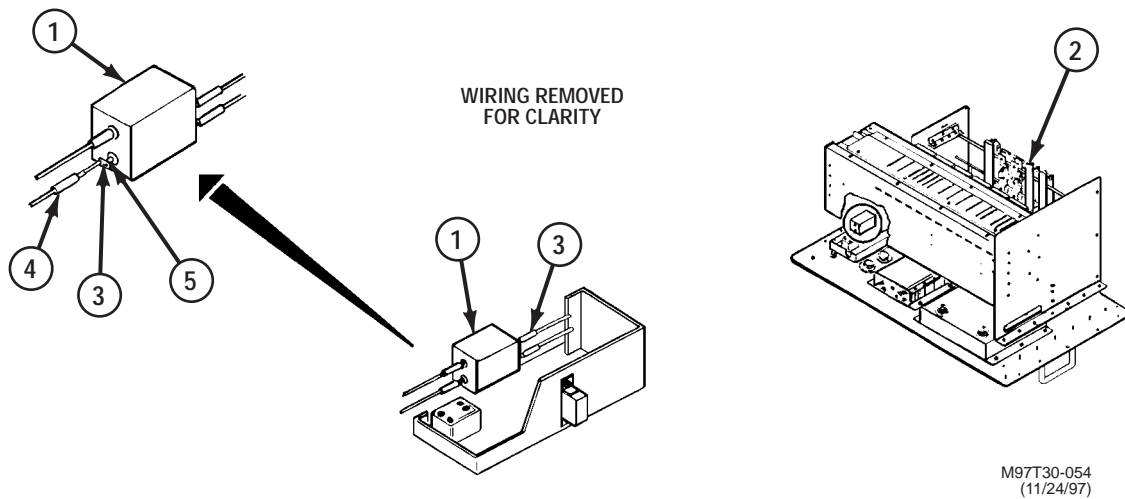
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove RFI shield cover; refer to WP 0048 00.

Materials/Parts:

Filter
Insulation Sleeving (as required)

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE FILTER FL1 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove four wires (3) from filter (1). Discard filter.
 - b. Remove insulation sleeving (4) from wires (3) and discard.

INSTALL

2. INSTALL NEW FILTER FL1 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Cut four 5/8-inch pieces of new insulation sleeving (4) and place on four wires (3).
 - b. Solder four wires (3) to filter FL1 (1) terminals (5).

END OF TASK

REPLACE OIU RESISTOR R1

0062 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

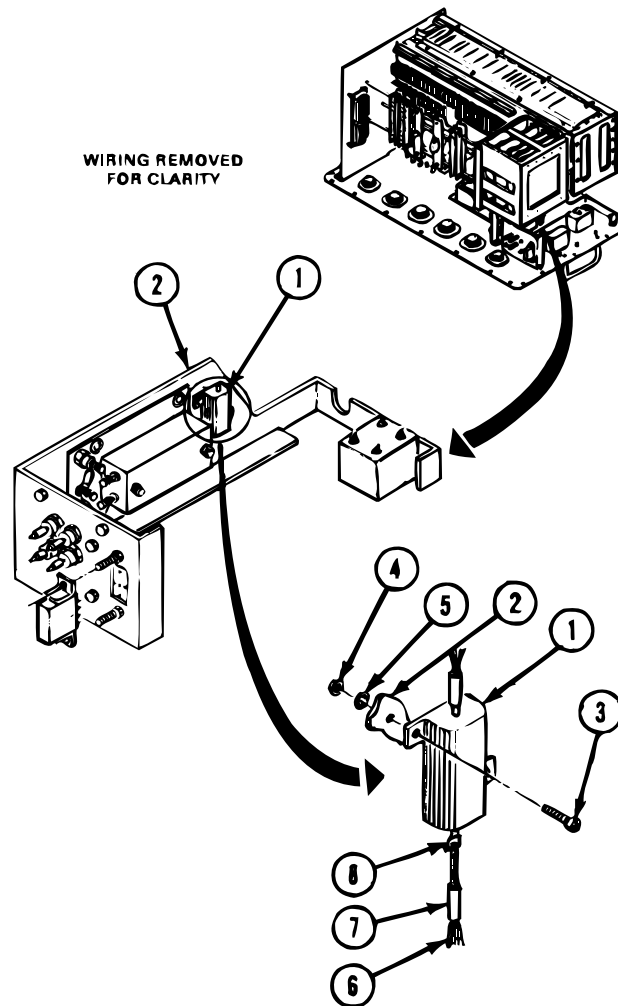
- Calibration Specialist Tool Kit
- SC 6695-92-A05

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove RFI shield cover; refer to WP 0048 00.

Materials/Parts:

- Insulation Sleeving (as required)
- Lockwasher (2)
- Resistor
- Sealing Compound (Item 4, WP 0210 00)

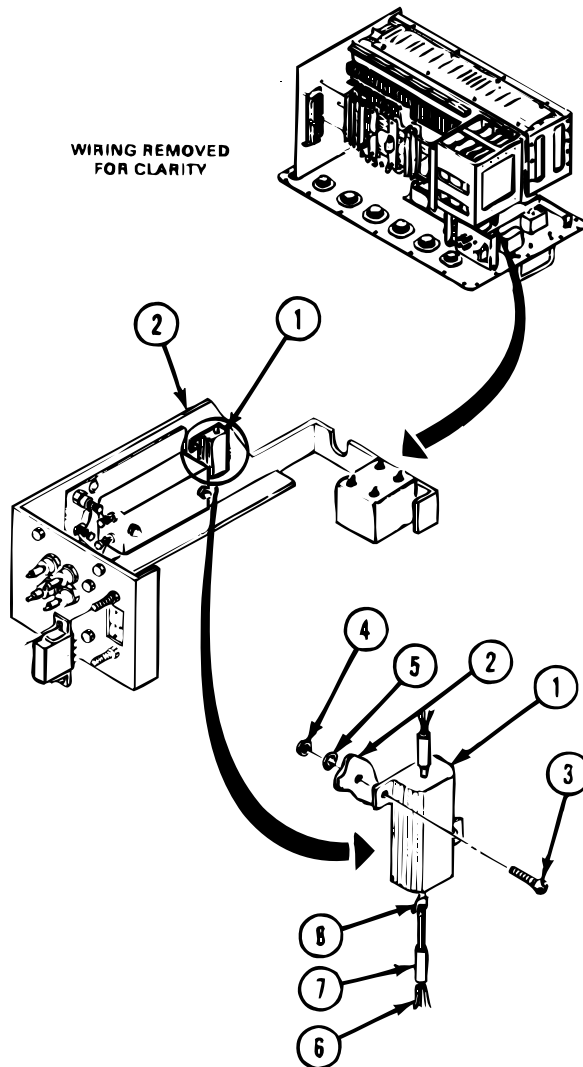


NOTE

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE RESISTOR R1 (1) FROM RFI SHIELD ASSEMBLY BRACKET (2).
 - a. Remove two screws (3), nuts (4), and lockwashers (5) from resistor (1) and bracket (2). Discard lockwashers.
 - b. Remove wires (6) and insulation sleeving (7) from each end of resistor R1 (1). Discard resistor and sleeving.

**INSTALL**

2. INSTALL RESISTOR R1 (1) ON RFI SHIELD ASSEMBLY BRACKET (2).
 - a. Cut two 1/2-inch pieces of new insulation sleeving (7) and place on wires (6). Solder wires (6) to terminals (8) on resistor (1).
 - b. Apply a thin coat of sealing compound to threads of two screws (3) and install resistor (1), screws (3), new lockwashers (5), and nuts (4) holding resistor to bracket (2).

END OF TASK

REPLACE OIU LOAD PLATE ASSEMBLY**0063 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

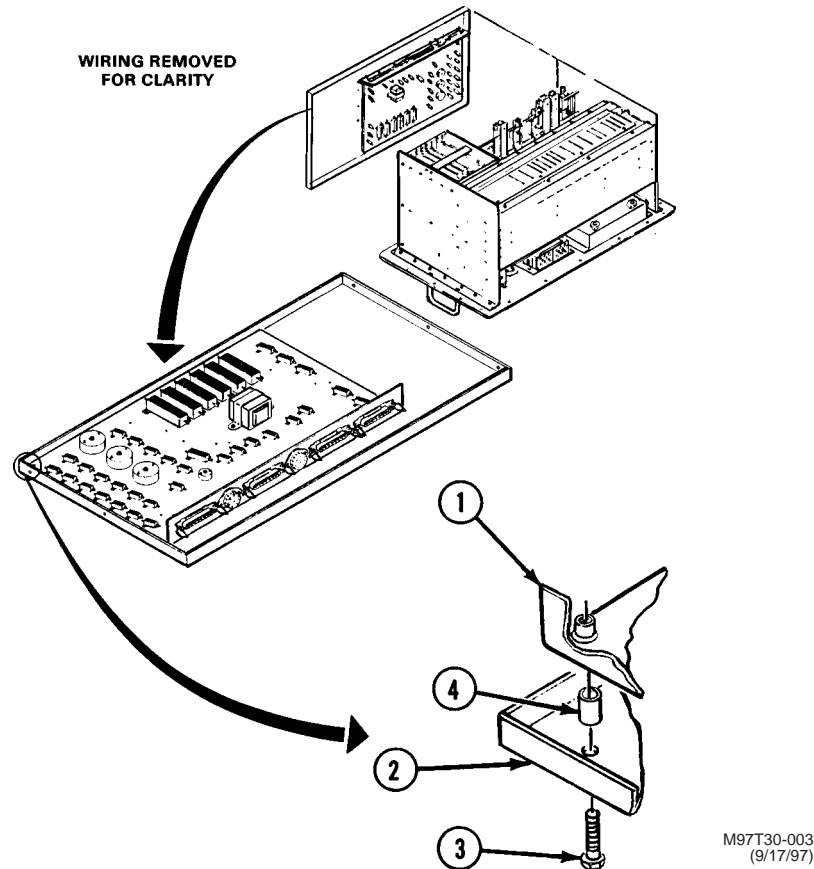
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Load Plate Assembly
Sealing Compound (Item 4, WP 0210 00)



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REMOVE

1. REMOVE LOAD PLATE ASSEMBLY (1) FROM COVER (2).
 - a. Remove seven screws (3) and seven spacers (4) holding load plate assembly (1) on cover (2).
 - b. Remove load plate assembly (1) and turn in.

INSTALL

2. INSTALL NEW LOAD PLATE ASSEMBLY (1) ON COVER (2).
 - a. Apply a thin coat of sealing compound to threads of seven screws (3).
 - b. Install seven screws (3) and seven spacers (4) holding load plate assembly (1) on cover plate (2).

END OF TASK

REPAIR/REPLACE OIU FRONT PANEL ELECTRICAL RECEPTACLE CONNECTOR

0064 00**THIS WORK PACKAGE COVERS:**Removal, Inspection, Repair, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05
Maintenance Kit, Electrical Connector 13440042

Materials/Parts:

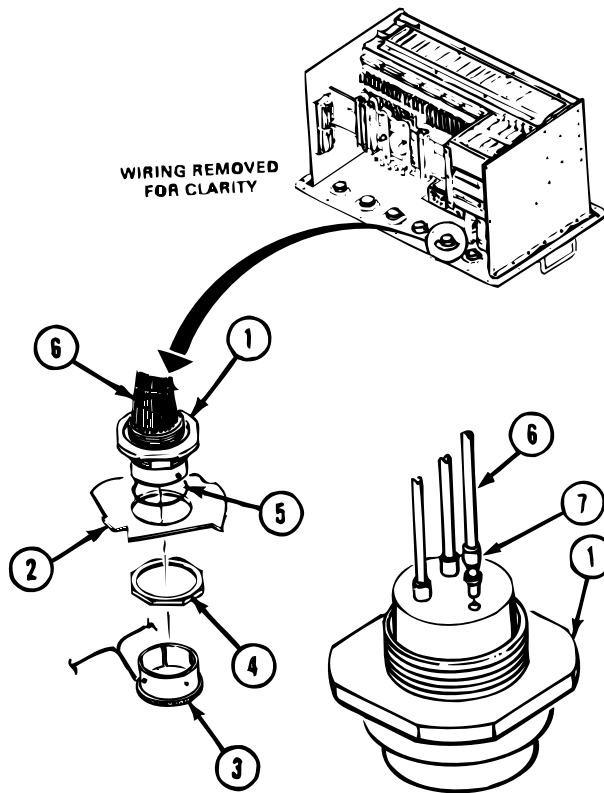
Connector
Contact

Equipment Conditions:

Do procedures 1 and 5 for 1984 and subsequent production OIUs; refer to WP 0002 00.
Do procedure 1 for electrical connector UJ3 on early production OIUs.
Do procedures 1 and 2 for electrical connectors TJ5 through TJ10 and UJ2 on early production OIUs.
Do procedures 1, 2, and 3 for electrical connector TJ4 on early production OIUs.
Do procedures 1, 2, and 4 for electrical connector UJ1 on early production OIUs.

1. Remove electronics assembly; refer to WP 0044 00.
2. Remove cover and load plate assembly; refer to WP 0049 00.
3. Remove relay K1; refer to WP 0052 00.
4. Remove RFI shield cover; refer to WP 0048 00.
5. Remove front panel; refer to WP 0092 00.

REPAIR/REPLACE OIU FRONT PANEL ELECTRICAL RECEPTACLE CONNECTOR - CONTINUED 0064 00



NOTE

Use this task to replace or repair any connector (1) on front panel (2). Only one connector (1) is shown.

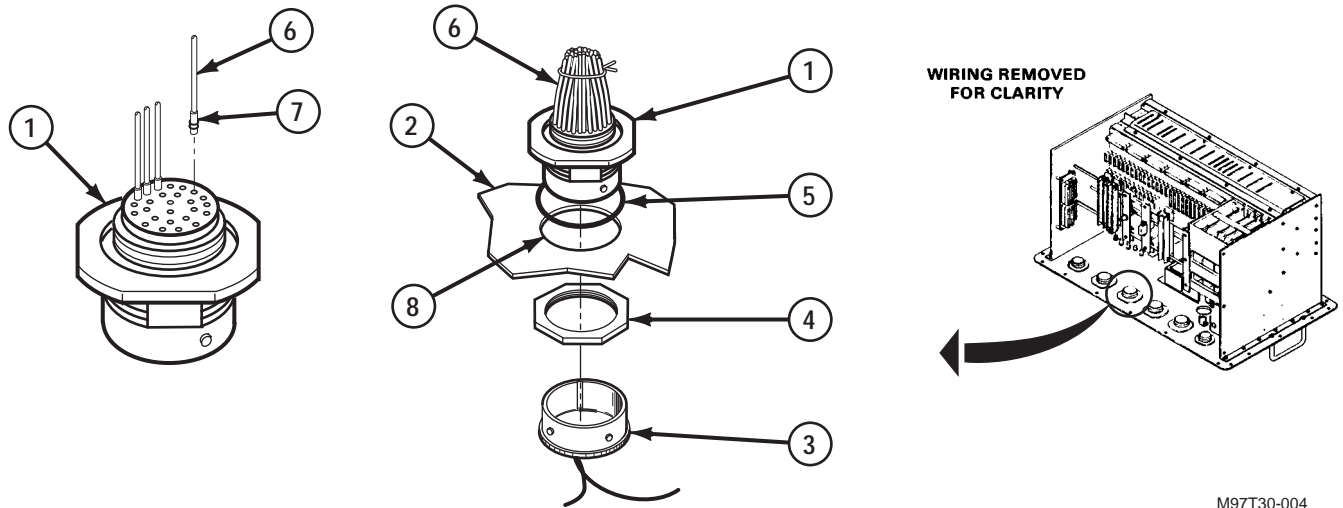
Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR (1) FROM FRONT PANEL (2).
 - a. Unscrew and take off protective cover (3) from connector (1).
 - b. Using socket and drive wrench, unscrew and take off nut (4). Set aside cover (3) and nut (4) for later use.
 - c. Take out connector (1) and gasket (5) from back side of panel (2) as far as wires (6) will allow.

2. REMOVE CONTACT(S) (7) FROM CONNECTOR (1).
 - a. Using insert-extract tool, take contact (7) out of connector (1).
 - b. To repair connector, repeat step 2a until all bad contacts are removed.
 - c. To replace connector, repeat step 2a until all contacts are removed.

REPAIR/REPLACE OIU FRONT PANEL ELECTRICAL RECEPTACLE CONNECTOR - CONTINUED 0064 00



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(9/17/97)

INSPECT

3. INSPECT CONNECTOR (1) FOR CRACKS OR BREAKS.

- a. If bad, turn in connector (1).
- b. If OK, set aside for later use.

REPAIR

4. REPAIR WIRE(S) (6).

- a. Using pliers, cut bad contact (7) from wire (6). Discard bad contact.
- b. Using wire stripper and crimping tool, put new contact (7) on wire (6).

INSTALL

5. INSTALL CONTACTS (7) IN CONNECTOR (1).

- a. Using insert-extract tool, put contact (7) in connector (1).
- b. Repeat step 5a until all contacts are installed.

6. INSTALL CONNECTOR (1) IN FRONT PANEL (2).

- a. Place connector (1) in panel mounting hole (8) from back side of panel (2).
- b. Screw nut (4) on connector (1).
- c. Screw protective cover (3) on connector (1).

END OF TASK

REPLACE OIU PLUG CONNECTOR P34 - P95

0065 00**THIS WORK PACKAGE COVERS:**Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Do preliminary procedures 1 thru 5 for connector plugs P93 or P94.
Do preliminary procedures 1 and 2 for all other connector plugs.

Materials/Parts:

Connector (as required)
Insulation Sleeving (as required)

Do preliminary procedure 5 for connector plugs P75, P76, P78, P79, P81, P82, P84, P85, P87, P88, P90, and P91.

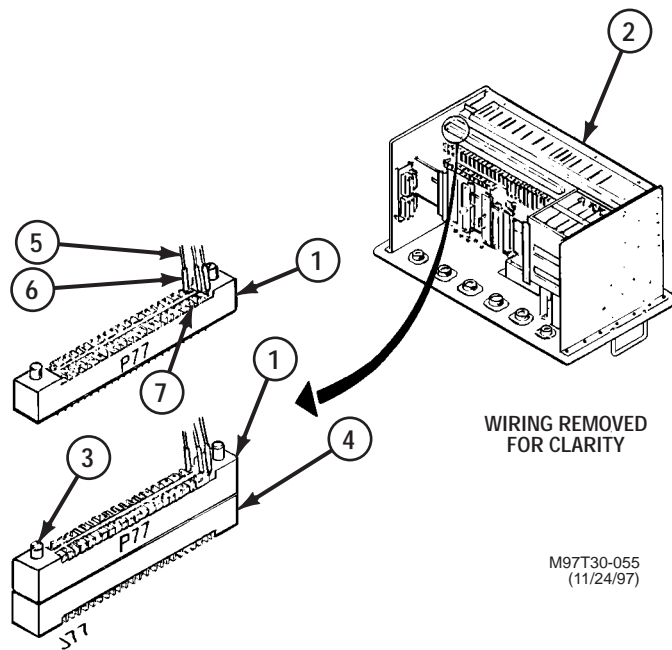
1. Remove electronics assembly; refer to WP 0044 00.
 2. Remove cover and load plate assembly; refer to WP 0049 00.
 3. Remove circuit card assemblies, mini card cage; refer to WP 0050 00.
 4. Remove mini card cage assembly; refer to WP 0051 00.
 5. Remove front panel; refer to WP 0052 00.
-

NOTE

Read WP 0043 00 before doing any work.

Each connector connected to the backplane is identified by a "P" number stamped on the side of the connector. Each mating connector socket on the backplane is identified by the same number preceded by "J" stamped on the backplane. The procedure is the same for removing all connectors P34 through P95. Connector P77 (1) is shown.

To remove some connectors, it may be necessary to loosen the two screws holding connector assembly J101, relay K3, module TB1, module TB2, or module TB4 bracket to mounting bars, and moving them to one side.

**REMOVE**

1. REMOVE CONNECTOR P34-P95 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Unscrew two captive screws (3) on connector P77 (1) and pull connector P77 (1) from connector socket J77 (4).
 - b. Remove each wire (5) and insulation sleeving (6) from connector (1). Discard connector and insulation sleeving.

INSTALL

2. INSTALL CONNECTOR P34-P95 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Cut 3/8-inch pieces of new insulation sleeving (6) and install on each wire (5).
 - b. Solder each wire (5) to new connector terminals (7).
 - c. Plug connector P77 (1) into connector socket J77 (4) and tighten screws (3).

END OF TASK

REPLACE OIU PLUG CONNECTOR P103 - P109, P112, P113

0066 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

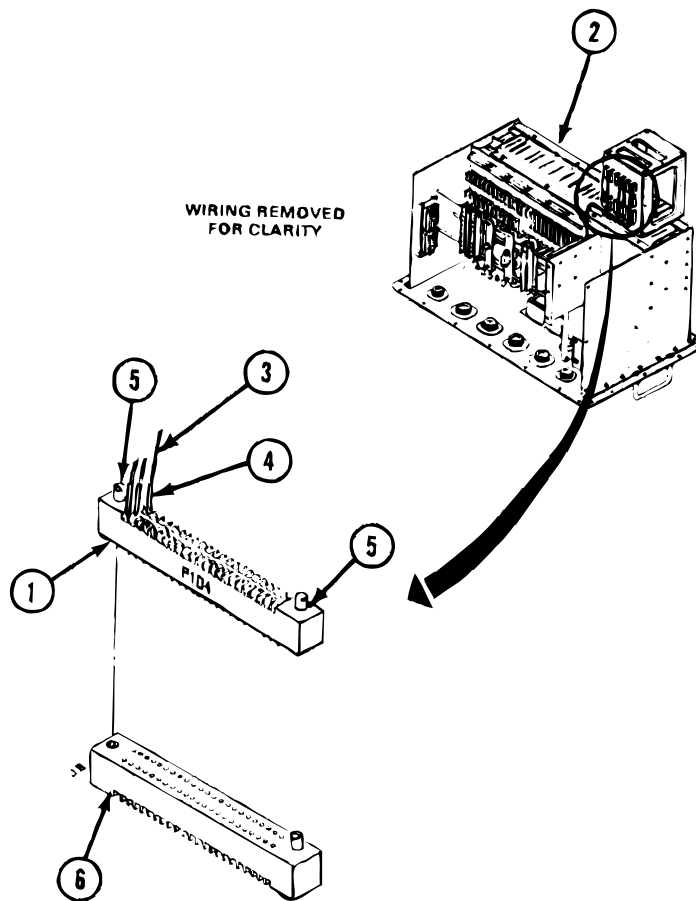
- Calibration Specialist Tool Kit
- SC 6695-92-A05

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove circuit card assembly, mini card cage; refer to WP 0050 00.
- Remove mini card cage assembly; refer to WP 0051 00.

Materials/Parts:

- Connector (as required)
- Insulation Sleeving (as required)



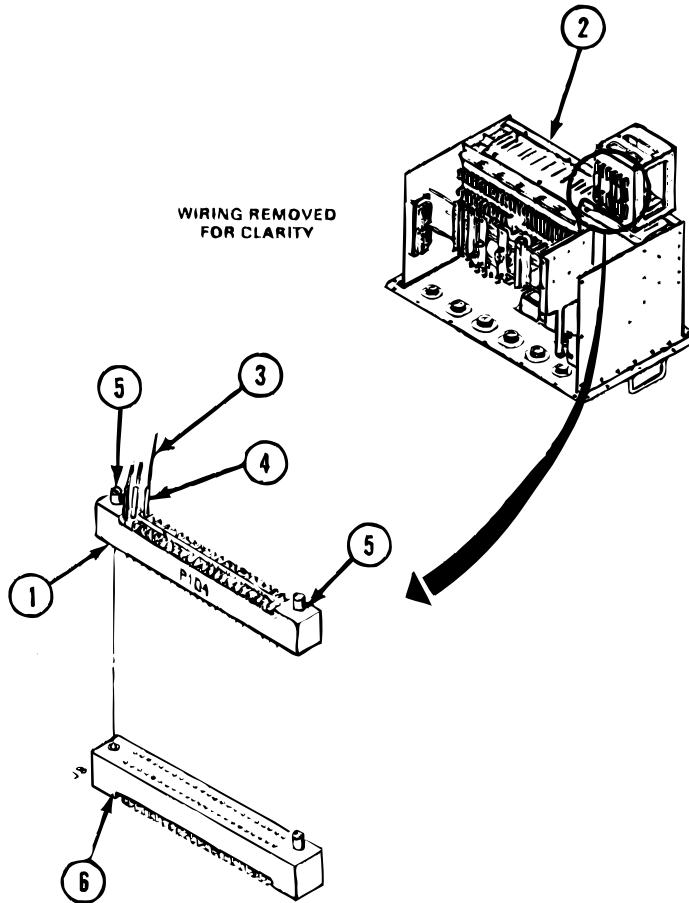
NOTE

Use this task to take out and put in connector plugs P103 through P109, P112, and P113. Only one connector plug (1) is shown.

Read WP 0043 00 before doing any work.

REPLACE OIU PLUG CONNECTOR P103 - P109, P112, P113 - CONTINUED**0066 00****REMOVE**

1. REMOVE CONNECTORS P103 THROUGH P109, P112, AND P113 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove wires (3) and insulation sleeving (4) from connector (1). Discard insulation sleeving.
 - b. Unscrew captive screws (5) on each end of connector (1). Remove connector (1) from connector socket (6) and discard.

**INSTALL**

2. INSTALL NEW CONNECTORS P103 THROUGH P109, P112, AND P113 (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Cut 3/8-inch pieces of new insulation sleeving (4) and place one on each wire (3).
 - b. Solder each wire (3) to new connector (1).
 - c. Place connector (1) on socket (6) and tighten screws (5) holding connector (1) to connector socket (6).

END OF TASK

REPLACE OIU PLUG CONNECTOR P116**0067 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

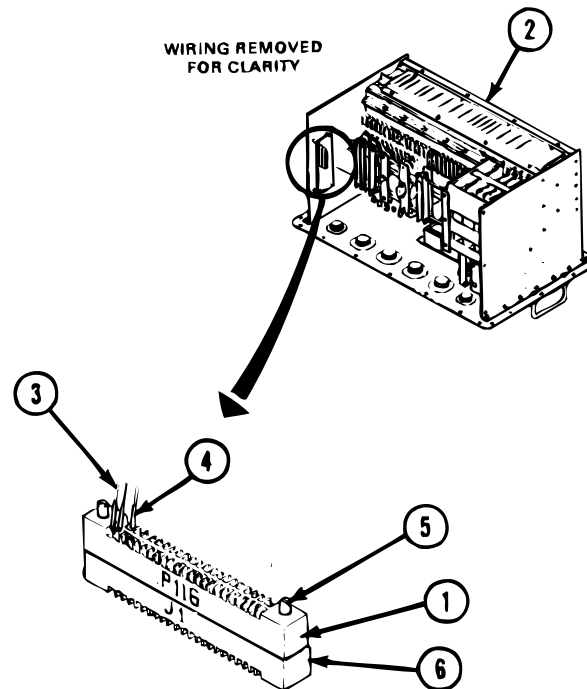
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

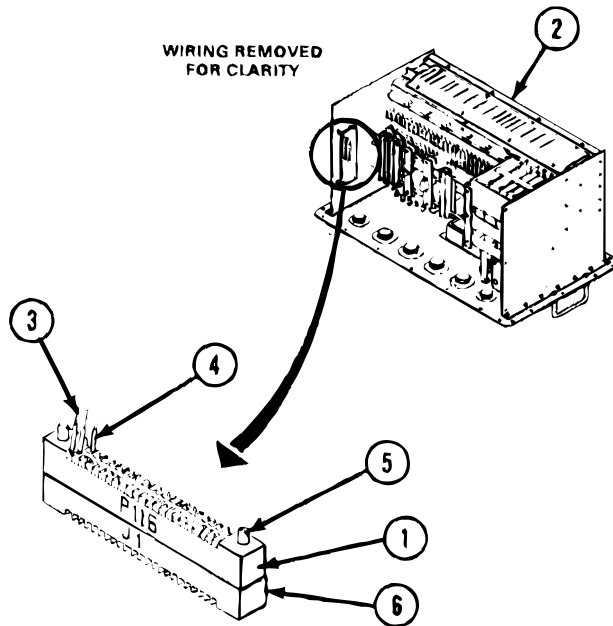
Connector
Insulation Sleeving (as required)

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR PLUG P116 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove wires (3) and insulation sleeving (4) from connector plug P116 (1). Discard insulation sleeving.
 - b. Unscrew captive screws (5) on each end of connector plug (1), holding connector plug (1) to connector socket (6).
 - c. Lift connector plug (1) from connector socket (6) and discard.

**INSTALL**

2. INSTALL NEW CONNECTOR PLUG P116 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Plug connector plug P116 (1) into connector socket J1 (6) and screw in captive screws (5) on each end of connector (1).
 - b. Cut 3/8-inch pieces of new insulation sleeving (4) and place one on each wire (3).
 - c. Solder wires (3) to connector plug P116 (1).

END OF TASK

REPAIR/REPLACE OIU ELECTRICAL CONNECTOR PLUG P96 - P100

0068 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00

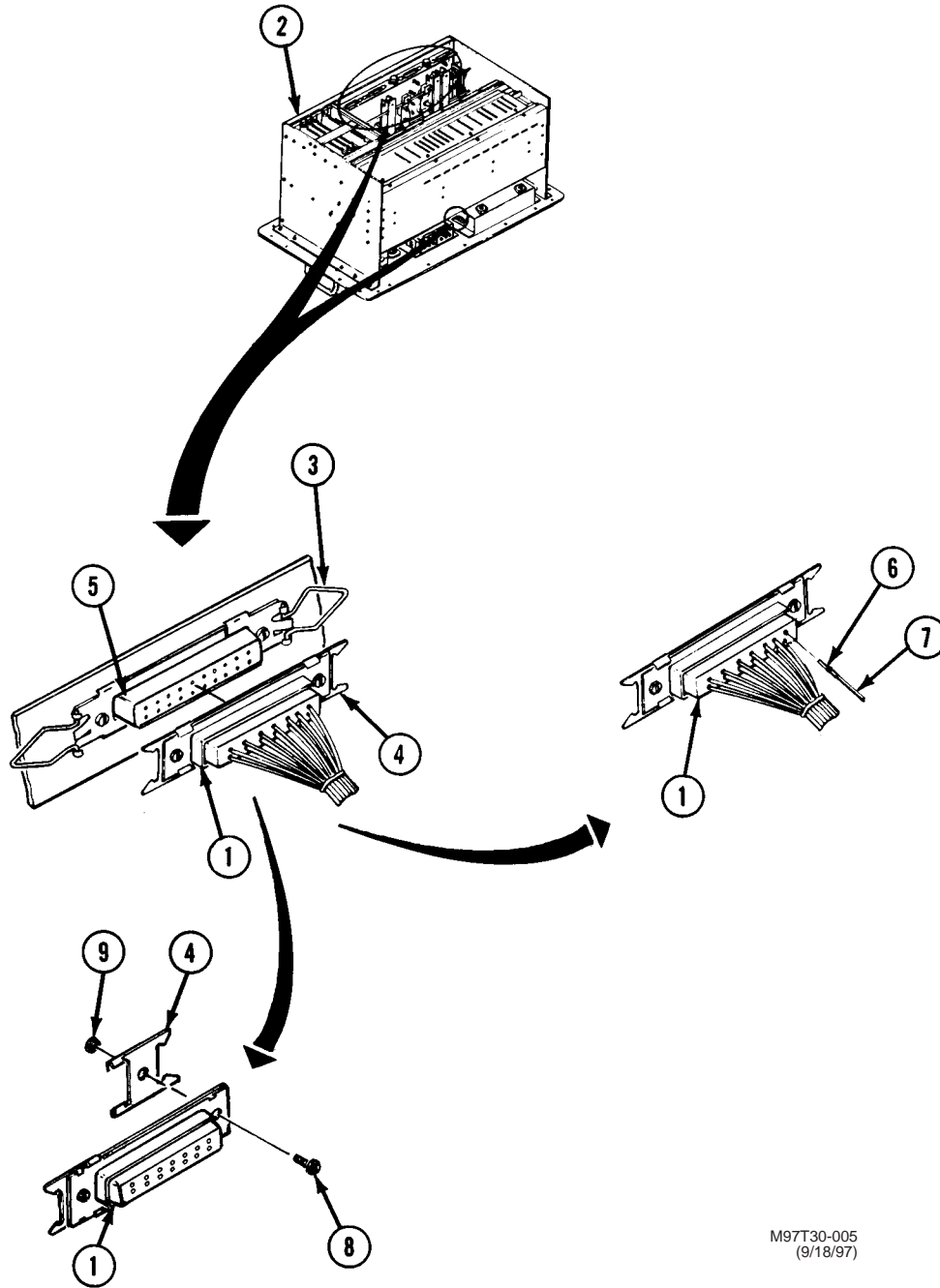
Materials/Parts:

Connector (as required)
Latch assembly (as required)

NOTE

Use this task for replacing or repairing connector P96, P97, P98, P99, or P100.
Only one connector (1) is shown.

Read WP 0043 00 before doing any work.



REMOVE

1. REMOVE CONNECTOR P96, P97, P98, P99, OR P100 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Pull spring clips (3) away from latch assembly (4) on each end of connector plug (1).
 - b. Pull connector plug (1) away from connector socket (5).

NOTE

To replace connector (1) remove all contacts (6) from connector (1).
 To repair connector (1) remove only defective contacts (6).

REMOVE – Continued

2. REMOVE CONTACT (6) FROM CONNECTOR PLUG (1).
 - a. Remove wire (7) and contact (6) from connector plug (1). Discard defective connector plug.
 - b. Cut defective contact (6) from wire (7) and discard defective contact.
3. REMOVE CONNECTOR LATCH (4) FROM CONNECTOR PLUG (1).
 - a. Remove two screws (8) and nuts (9) holding two latches (4) to connector (1).
 - b. Inspect latch (4) for damage. If damaged, discard; if OK, set aside for later use.

INSTALL

4. INSTALL LATCH (4) ON CONNECTOR PLUG (1).
 - a. Place latch (4) on connector plug (1).
 - b. Install two screws (8) and nuts (9) through connector (1) and latch (4).
5. INSTALL CONTACT (6) INTO CONNECTOR PLUG (1).
 - a. Install wires (7) into contacts (6) using crimping tool.
 - b. Install wires (7) and contacts (6) into connector plug (1).
6. INSTALL CONNECTOR PLUG (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Install connector plug (1) into connector socket (5).
 - b. Pull spring clips (3) into latch (4).

END OF TASK

REPLACE OIU CONNECTOR ASSEMBLY J101**0069 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

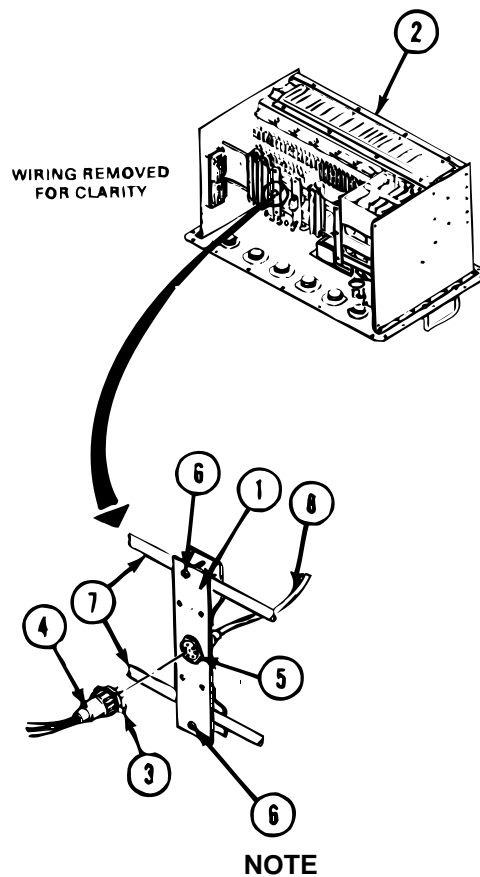
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove front panel electrical receptacle connector;
refer to WP 0064 00.

Materials/Parts:

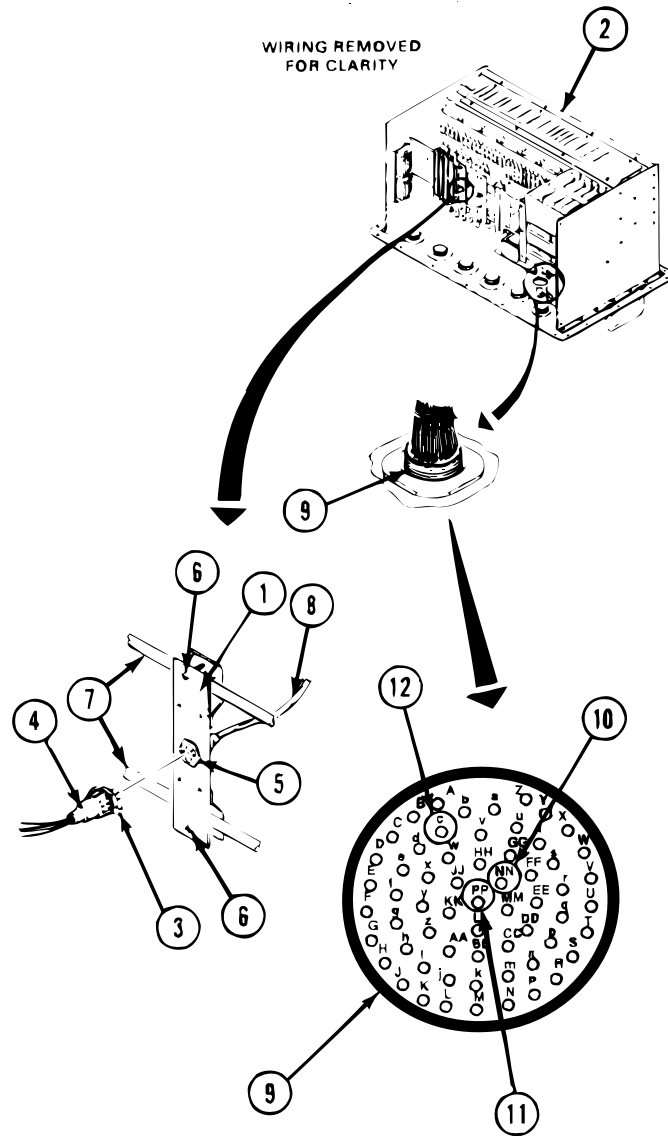
Connector Assembly
Lacing Tape (as required) (Item 6, WP 0210 00)



Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR ASSEMBLY J101 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Turn lock spring (3) holding connector plug (4). Remove connector plug (4) from connector socket (5).
 - b. Remove two screws (6) and remove connector assembly (1) from mounting bars (7).
 - c. Cut connector assembly wires (8) at wiring bundle.

**INSTALL**

2. INSTALL CONNECTOR ASSEMBLY J101 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Place new connector socket assembly J101 (1) in position on mounting bars (7) and install two screws (6).
 - b. Route and tie wires (8) with lacing tape along main wiring bundle to connector socket TJ10 (9).
 - c. Cut wires to contacts NN (10), PP (11), and c (12) of connector socket TJ10 (9) at main wiring bundle.
 - d. Remove wires and contacts NN (10), PP (11), and c (12) from connector socket TJ10 (9).
 - e. Install new connector assembly wires (8) into connector sockets TJ10 (9), red wire to NN (10), yellow wire to PP (11), and white wire to c (12).
 - f. Install connector plug (4) into connector socket (5) and turn lock spring (3).

END OF TASK

REPLACE OIU CONNECTOR ASSEMBLY P101

0070 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

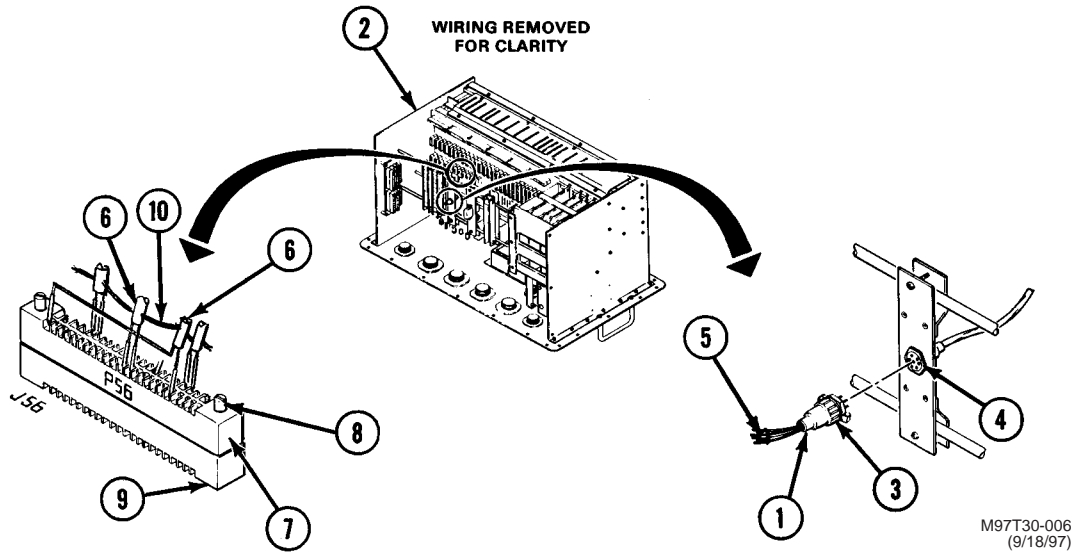
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Connector Assembly



NOTE

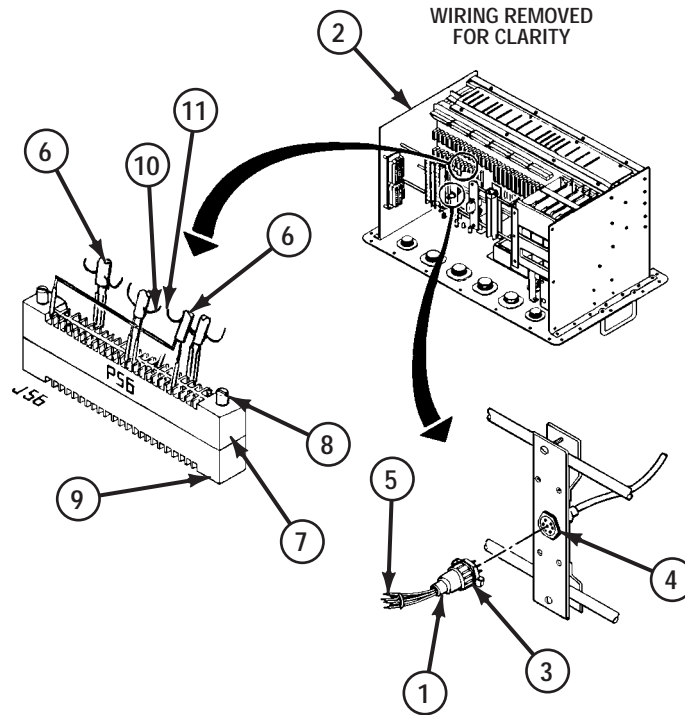
Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR ASSEMBLY P101 CONNECTOR PLUG (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Turn locking spring (3) and remove connector plug (1) from connector socket (4).
 - b. Cut connector plug (1) from connector assembly P101 (5). Discard connector plug.

Table 1.

Shielded Wire Pair	Connector Assy P101	Plug P56
1	Wire 1228	Terminal 4
1	Wire 1229	Terminal 22
2	Wire 1230	Terminal 10
2	Wire 1231	Terminal 11



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REMOVE – Continued

2. REMOVE CONNECTOR ASSEMBLY P101 SHIELDED WIRES (6) FROM CONNECTOR PLUG P56 (7).
 - a. Remove two screws (8) and pull connector plug P56 (7) from connector socket J56 (9).
 - b. Cut splice leads 1250 (10) from two pairs of shielded wires (6).
 - c. Remove two pairs of shielded wires (6) from connector plug P56 (7). See Table 1.
 - d. Discard shielded wires.

INSTALL

3. INSTALL NEW CONNECTOR ASSEMBLY P101 (5) IN ELECTRONICS ASSEMBLY (2).
 - a. Solder splice leads 1250 (11) of two pairs of shielded wires (6) to splice leads (10) cut in step 2a.
 - b. Solder two pairs of shielded wires (6) to connector plug P56 (7). See Table 1.
 - c. Install connector plug (1) in connector socket (4) and turnlock spring (3).
 - d. Install connector plug P56 (7) and screws (8) in connector socket J56 (9).

END OF TASK

REPLACE OIU CONNECTOR J102 OR P102

0071 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

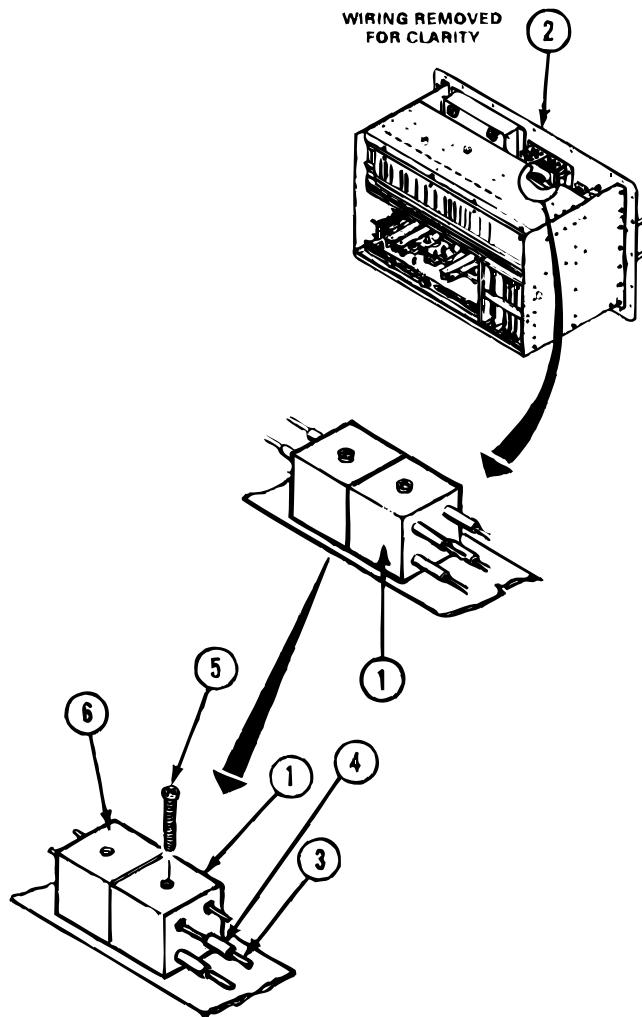
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

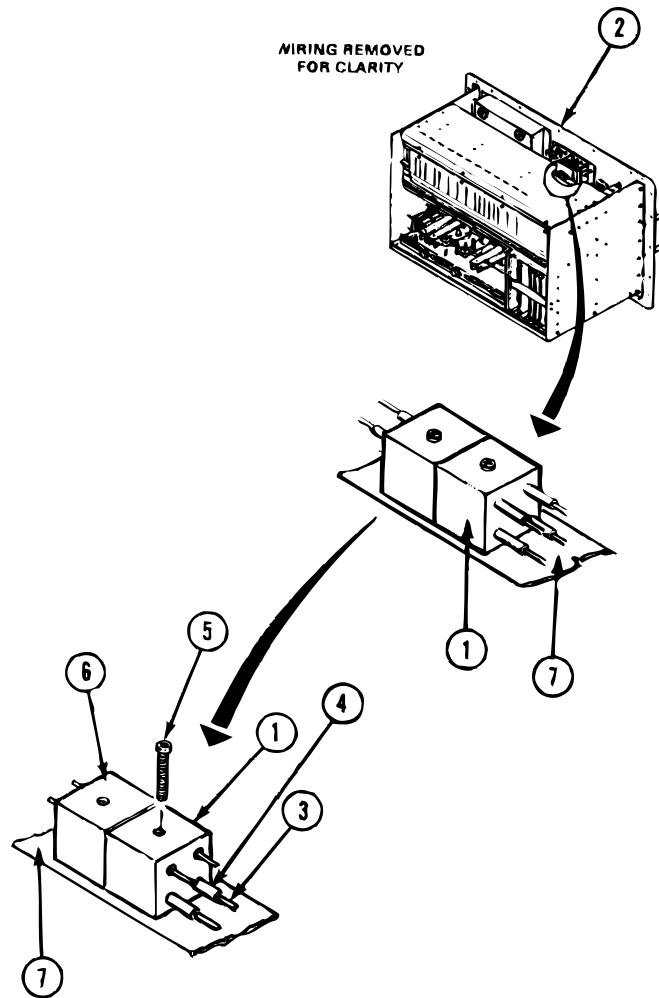
Connector (as required)
Insulation Sleeving (as required)



NOTE

Read WP 0043 00 before doing any work.

Use this task to take off and put on connectors J102 or P102. Connector J102 (1) is shown.

**REMOVE**

1. REMOVE CONNECTOR PLUG (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove four wires (3) from connector plug (1). Discard insulation sleeving (4).
 - b. Remove one screw (5).
 - c. Unplug connector plug (1) from connector socket (6). Discard connector plug.

INSTALL

2. INSTALL NEW CONNECTOR PLUG (1) IN ELECTRONICS ASSEMBLY (2).
 - a. Cut four pieces 1/2-inch insulation sleeving (4) and place on wires (3).
 - b. Plug connector plug (1) into connector socket (6).
 - c. Install screw (5) holding connector plug (1) on fan assembly (7).
 - d. Solder wires (3) to terminals of connector plug (1).

END OF TASK

REPLACE OIU FAN ASSEMBLY

0072 00**THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Acid Swabbing Brush (Item 2, WP 0210 00)
Cleaning Compound (Solvent), (Item 5, WP 0210 00)
Fan Assembly (as required)
Label
Lockwasher (2)
Wiping Rag (Item 3, WP 0210 00)

Equipment Conditions:

Do preliminary procedures 1, 2, 3, for 1984 and subsequent production OIUs; refer to WP 0002 00.
Do preliminary procedures 1, 3, 4, 5, 6, and 7 for early production OIUs; refer to WP 0002 00.

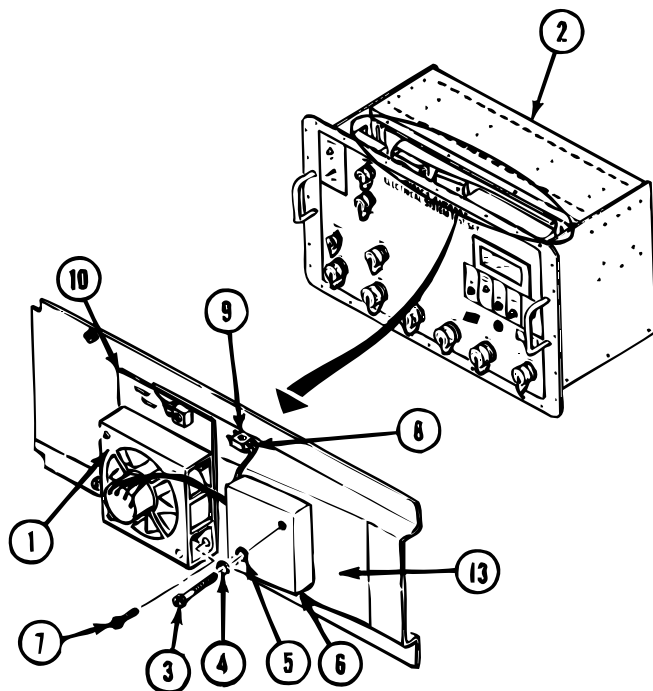
1. Remove electronics assembly; refer to WP 0044 00.
2. Remove front panel; refer to WP 0092 00.
3. Remove cover and load plate assembly; refer to WP 0049 00.
4. Remove connectors UJ2 and UJ3; refer to WP 0064 00.
5. Remove RFI shield cover; refer to WP 0048 00.
6. Remove display assembly; refer to WP 0047 00.
7. Remove fan duct; refer to WP 0095 00.

NOTE

Use this task to remove and install fan assembly 12301893 with label 12323301 or fan assembly 12360015 with label 12360081. Fan assembly 12301893 with control module is shown.

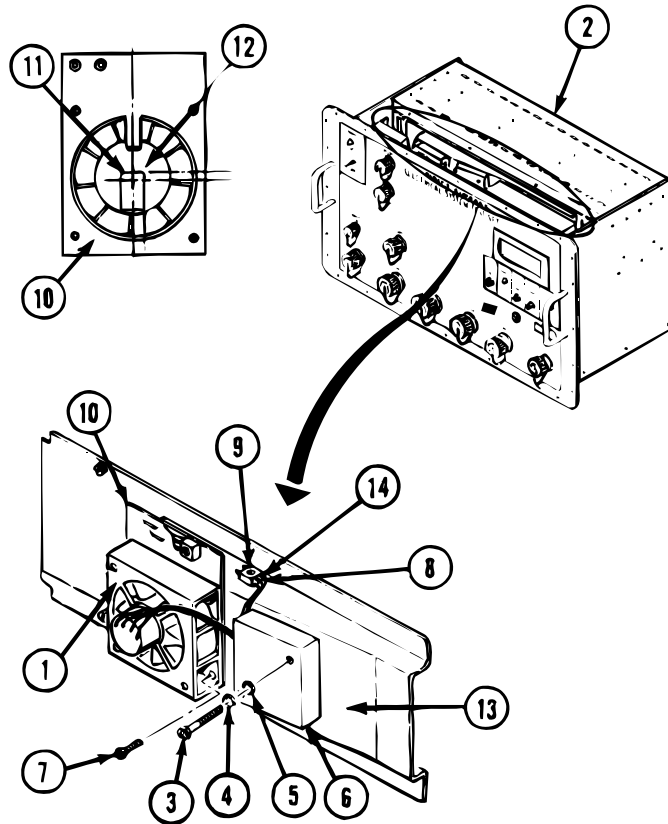
Read WP 0043 00 before doing any work.

Perform step 1a if fan has a control module.



REMOVE

1. REMOVE FAN ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3), lockwashers (4) and flat washers (5) from control module (6). Move control module (6) out of way. Discard lockwashers.
 - b. Remove four 3/32-inch hex screws (7).
 - c. Remove wires (8) from connector socket J102 (9).
 - d. Lift out fan assembly (1) and fan monitor assembly (10). Set monitor assembly (10) aside for later use. Turn in fan assembly (1) and control module (6).



INSTALL

2. INSTALL NEW FAN ASSEMBLY (1) INTO ELECTRONICS ASSEMBLY (2).

- a. Clean new fan assembly hub surface (12) with acid swabbing brush and cleaning compound.
- b. Peel backing off new label (11) using care not to place fingers on label adhesive.
- c. Place new label (11) in position on fan hub surface (12) with knife edge or tweezers and press in place.
- d. Place new fan assembly (1) and fan monitor assembly (10) in position on duct (13).
- e. Put four hex screws (7) through holes in fan assembly (1) and fan monitor assembly (10).
- f. Tighten four screws (7) with 3/32-inch hex drive socket head key (L-type).
- g. Place control module (6) on duct (13) and install two screws (3), new lockwashers (4), and flat washers (5) in holes. Screw in and tighten screws with 3/16-inch wrench.
- h. Solder wires (8) to terminals (14) on connector J102 (9).

END OF TASK

REPLACE OIU MODULE TB1, TB2, OR TB4**0073 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

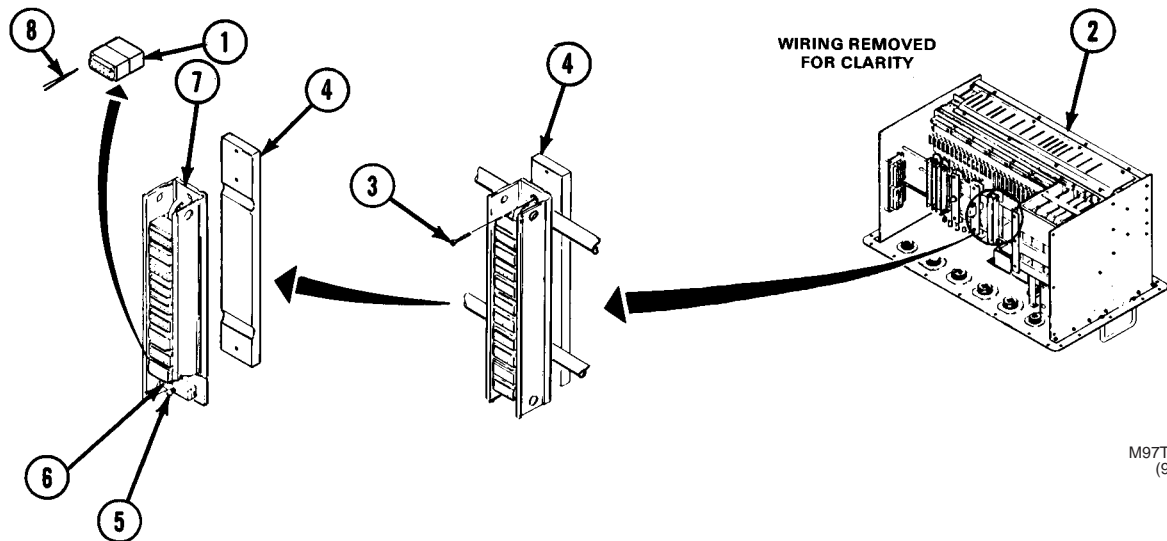
Calibration Specialist Tool Kit
 SC 6695-92-A05
 Maintenance Kit, Electrical Connector 13440042

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
 Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Module (as required)
 Sealing Compound (Item 4, WP 0210 00)



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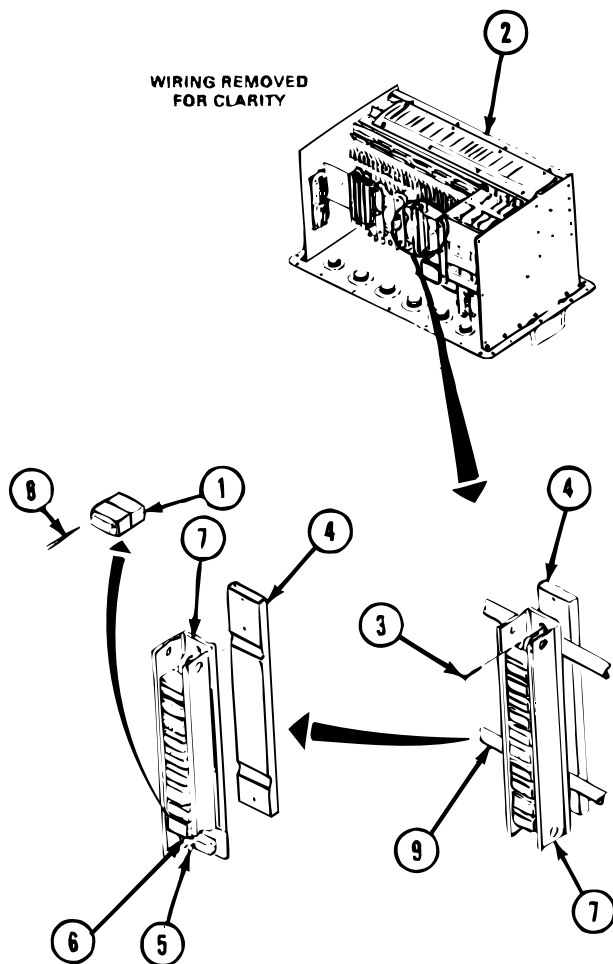
NOTE

Use this task to take out and put in any module in track TB1, TB2, or TB4. Only one module (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE MODULE TB1, TB2, OR TB4 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3) and clamp bar (4). Inspect clamp (4) for damage. If clamp (4) is damaged, discard; if OK, set aside for later use.
 - b. Loosen module retaining clamp screw (5) and slide clamp (6) to end of track (7).
 - c. Remove module (1) from track (7). Inspect track (7) for damage. If OK, set aside for later use; if damaged, turn in.
 - d. Remove wires (8) from module (1). Discard module.

**INSTALL**

2. INSTALL NEW MODULE TB1, TB2, OR TB4 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Install wires (8) into module (1).
 - b. Install module (1) in track (7) and secure with retaining clamp (6). Tighten retaining clamp screw (5).
 - c. Spread a thin coat of sealing compound on threads of two screws (3).
 - d. Install track (7) and clamp (4) on mounting bars (9). Install two screws (3) securing track (7) and clamp (4) to mounting bars (9).

END OF TASK

REPLACE OIU LIFTING HANDLE

0074 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP**Tools:**

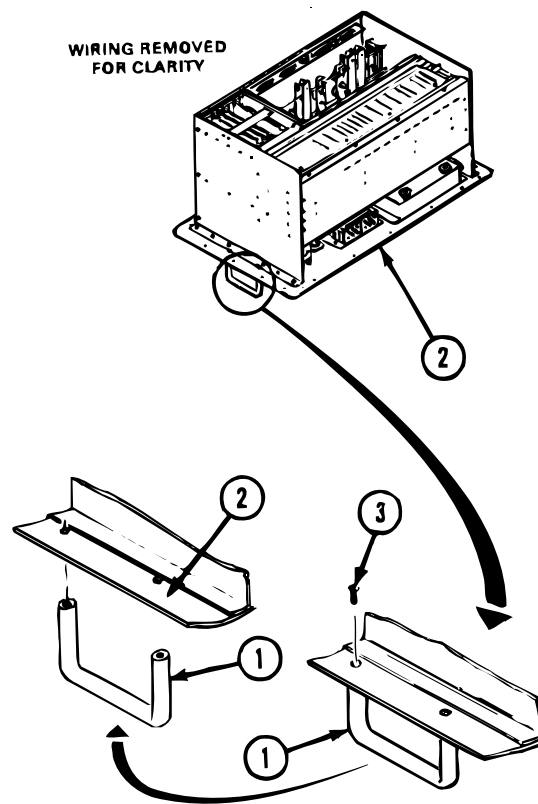
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

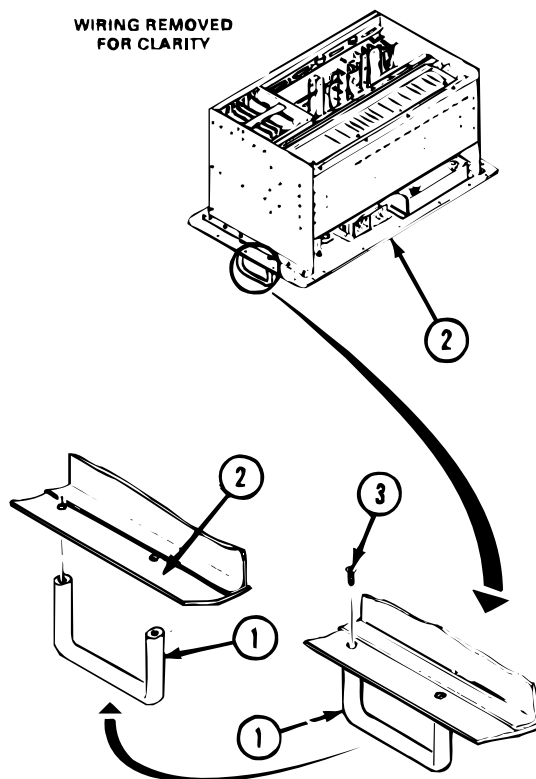
Adhesive (Item 1, WP 0210 00.)
Handle
Sealing Compound (Item 4, WP 0210 00)

**NOTE**

Use this task for taking off and putting on either handle. Only one handle (1) is shown.

REMOVE

1. REMOVE HANDLE (1) FROM FRONT PANEL (2)
 - a. Remove two screws (3) from front panel (2) and handle (1).
 - b. Discard handle.

**INSTALL**

2. INSTALL NEW HANDLE (1) ON FRONT PANEL (2).

WARNING

Adhesives and solvents burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- a. Spread a thin coat of adhesive on mounting surface of handle (1) and two screws (3).
- b. Install two screws (3) thru front panel (2) securing handle (1).

END OF TASK

REPLACE OIU EMI WINDOW**0075 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

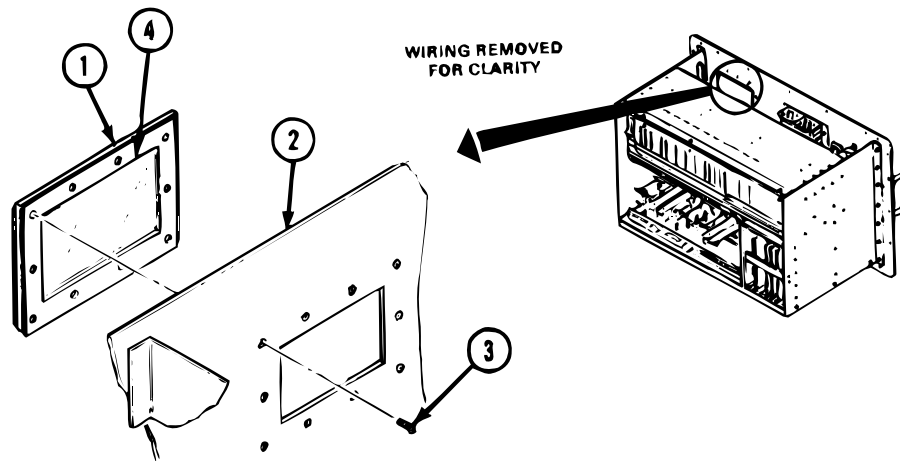
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove display assembly; refer to WP 0047 00.

Materials/Parts:

EMI Window Assembly (Includes Gasket).
Sealing Compound (Item 4, WP 0210 00)

**REMOVE**

1. REMOVE EMI WINDOW (1) FROM FRONT PANEL (2).
 - a. Remove 10 screws (3) from window (1).
 - b. Lift out window (1) and gasket (4). Discard window and gasket.

INSTALL

2. INSTALL NEW EMI WINDOW (1) ON FRONT PANEL (2).
 - a. Place window (1) on front panel (2).
 - b. Apply a thin coat of sealing compound to threads of 10 screws (3).
 - c. Install 10 screws (3) securing window (1) to front panel (2).

END OF TASK

REPLACE OIU MODULE TB3

0076 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

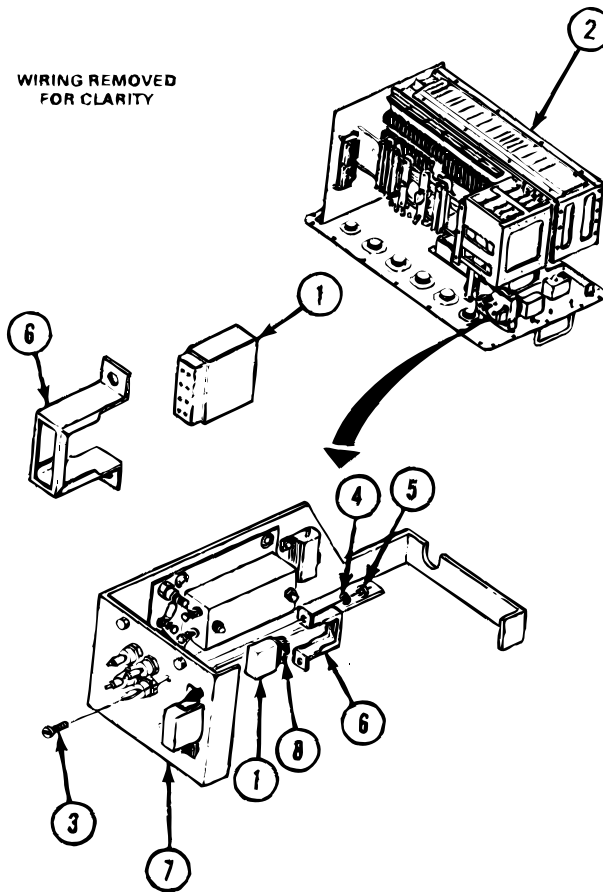
- Calibration Specialist Tool Kit
- SC 6695-92-A05

Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove RFI shield cover; refer to WP 0048 00.

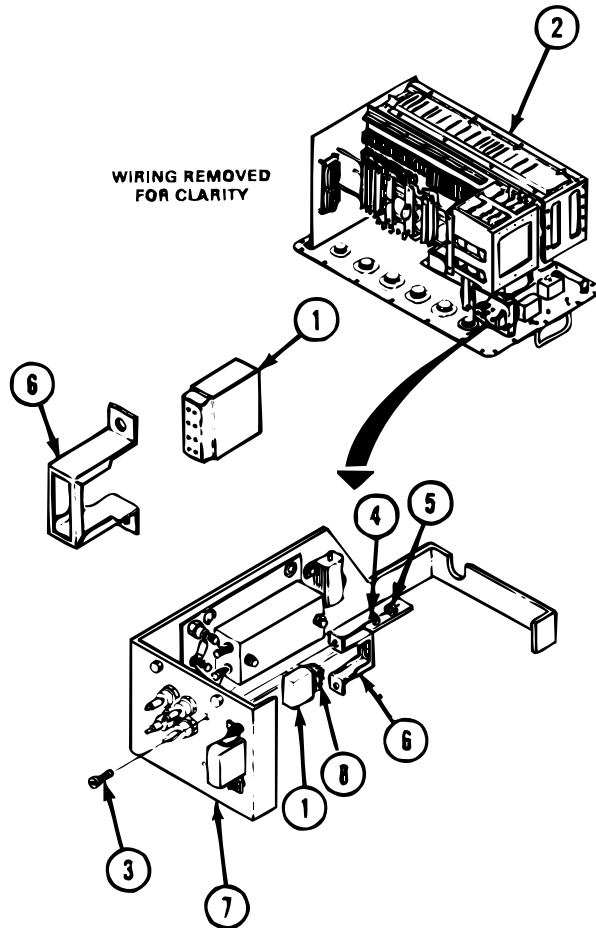
Materials/Parts:

- Lockwasher (2)
- Module
- Sealing Compound (Item 4, WP 0210 00)



NOTE

Read WP 0043 00 before doing any work.

**REMOVE**

1. REMOVE MODULE TB3 (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3), lockwashers (4), and nuts (5) from bracket (6) holding module TB3 (1) to RFI filter bracket (7). Discard lockwashers.
 - b. Remove wires (8) from module (1).
 - c. Remove module (1) and bracket (6); set bracket (6) aside for later use and discard module.

INSTALL

2. INSTALL NEW MODULE TB3 (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Install module (1) into bracket (6) and place in position on RFI filter bracket (7).
 - b. Spread a thin coat of sealing compound on threads of two screws (3).
 - c. Install two screws (3), new lockwashers (4), and nuts (5).
 - d. Install eight wires (8) using installation tool.

END OF TASK

REPLACE OIU CIRCUIT CARD ASSEMBLY I/O TERMINAL BOARD**0077 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

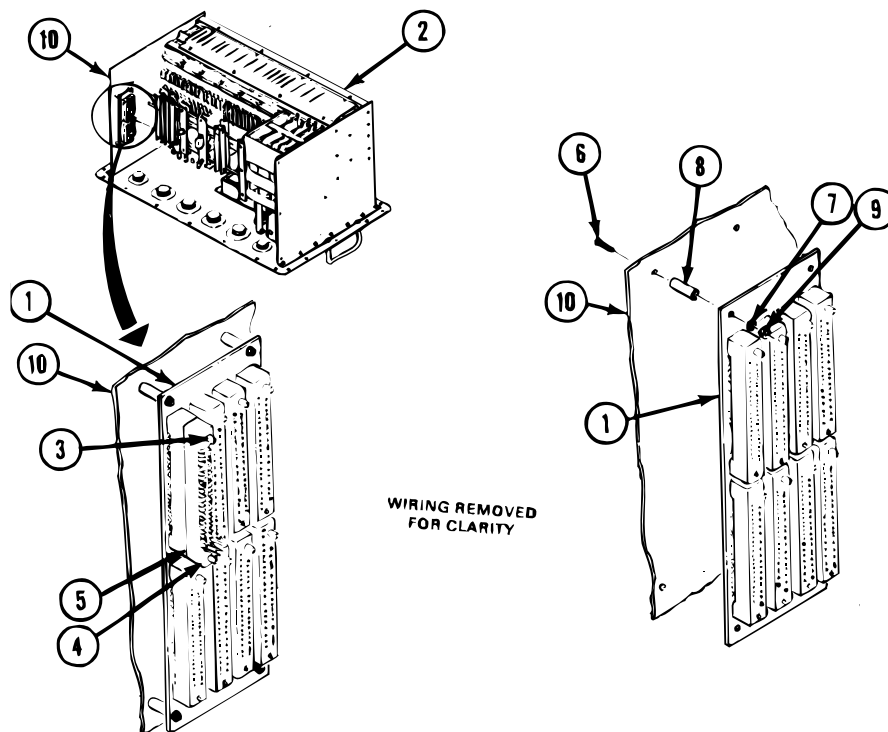
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove mini card cage assembly; refer to WP 0051 00.

Materials/Parts:

Lockwasher (4)
Sealing Compound (Item 4, WP 0210 00)
Terminal Board

**REMOVE**

1. REMOVE CIRCUIT CARD ASSEMBLY I/O TERMINAL BOARD (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Loosen two captive screws (3). Pull connector plug P116 (4) from connector socket J1(5).
 - b. Remove four screws (6), lockwashers (7), spacers (8), and nuts (9). Discard lockwashers.
 - c. Lift out and turn in terminal board (1).

INSTALL

2. INSTALL CIRCUIT CARD ASSEMBLY I/O NEW TERMINAL BOARD (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Spread a thin coat of sealing compound on threads of four screws (6).
 - b. Install four screws (6), spacers (8), new lockwashers (7), and nuts (9) holding terminal board (1) to end plate (10).
 - c. Install connector plug P116 (4) into connector socket J1 (5) and tighten captive screws (3).

END OF TASK

REPLACE OIU TERMINAL BOARD BACKPLANE, MINI CARD CAGE

0078 00**THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

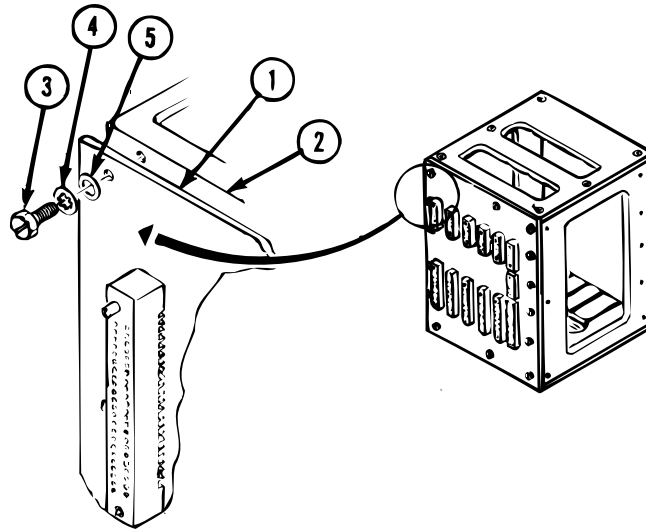
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove circuit card assemblies; mini card cage;
refer to WP 0050 00.
Remove mini card cage assembly; refer to WP 0051 00.

Materials/Parts:

Circuit Card Assembly Backplane
Flat Washer (14)
Lockwasher (14)

**REMOVE**

1. REMOVE TERMINAL BOARD BACKPLANE (1) FROM MINI CARD CAGE (2).
 - a. Remove 14 screws (3), lockwashers (4), and washers (5). Discard lockwashers and washers.
 - b. Lift out backplane (1) and turn in.

INSTALL

2. INSTALL NEW TERMINAL BOARD BACKPLANE (1) ON MINI CARD CAGE (2).
 - a. Install backplane (1) in position on mini card cage (2).
 - b. Install 14 screws (3), new lockwashers (4), and new washers (5).

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP**Tools:**

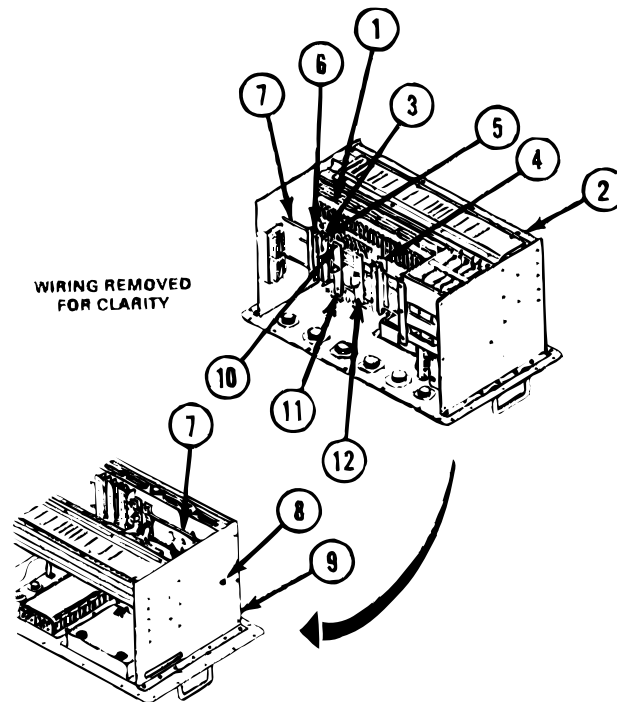
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Circuit Card Assembly Backplane
Lockwasher (26)
Retaining Ring (3)
Sealing Compound (Item 4, WP 0210 00)

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove circuit card assemblies; mini card cage; refer to WP 0050 00.
Remove mini card cage assembly; refer to WP 0051 00.
Remove center plate; refer to WP 0088 00.
Remove circuit card assemblies, main card cage; refer to WP 0045 00.

**REMOVE**

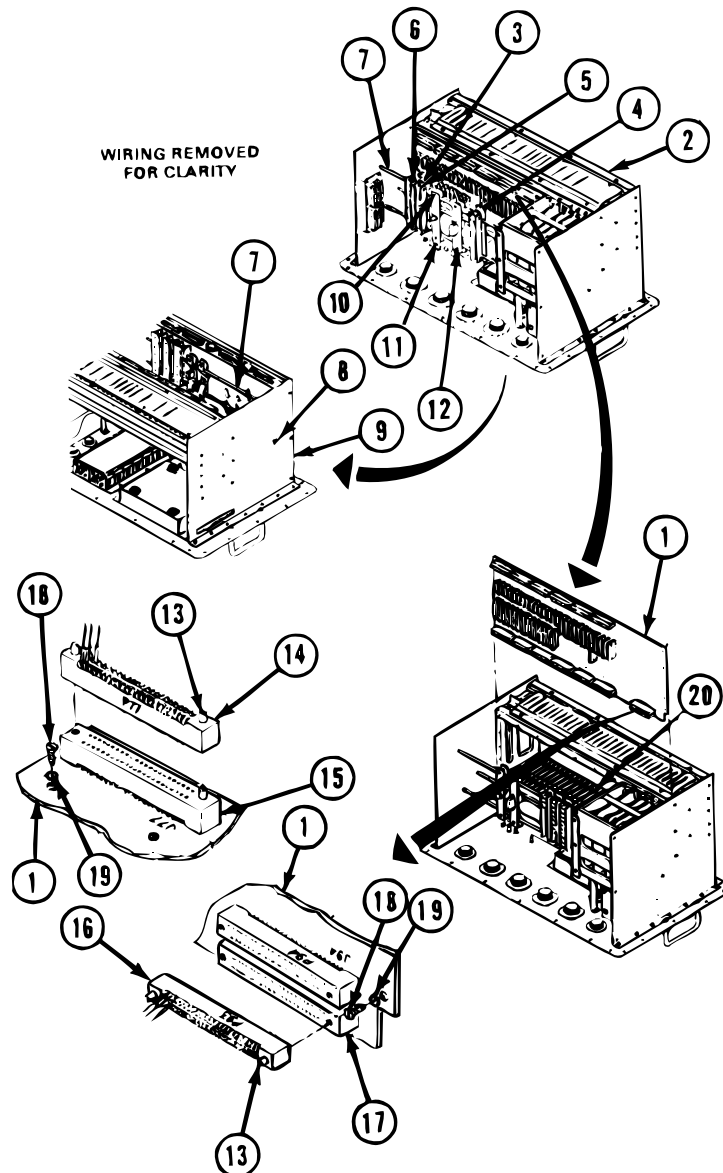
1. REMOVE MAIN CARD CAGE TERMINAL BOARD BACKPLANE (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Loosen six screws (3) holding TB1 track (4) and TB2 track (5) and TB4 track (6) to mounting bars (7).
 - b. Remove three retaining rings (8) holding mounting bars (7) to end plate (9). Discard retaining rings.
 - c. Loosen four screws (10) holding connector assembly J101 mounting bracket (11) and relay K3 mounting bracket (12) to mounting bars (7).

REMOVE – Continued

NOTE

Each connector plug connected to the backplane is identified by a “P” number stamped on the side of the connector. Each mating connector socket on the backplane is identified by the same number preceded by a “J” stamped on the backplane. The procedure is the same for removing all connectors. Move mounting bars as necessary to gain access to connector plug screws.

- d. Loosen two captive screws (13) holding connector plug P77 (14) to connector socket J77 (15) and pull connector plug P77 (14) from connector socket J77 (15).
- e. Remove all connector plugs (16) from all connector sockets (17) on backplane (1).
- f. Remove 26 screws (18) and lockwashers (19) holding backplane (1) to card cage (20). Discard lockwashers.
- g. Remove and turn in backplane (1).



INSTALL

2. INSTALL NEW MAIN CARD CAGE TERMINAL BOARD BACKPLANE (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Spread a thin coat of sealing compound on threads of 26 screws (18).
 - b. Install new backplane (1) and install 26 screws (18) and new lockwashers (19) securing backplane (1) to card cage (20).
 - c. Install connector plugs (16) into connector sockets (17) on backplane (1).
 - d. Tighten captive screw (13) on each end of each connector plug (16).
 - e. Return mounting bars (7) to position in end plate (9) and install three new retaining rings (8).
 - f. Return TB1 track (4), TB2 track (5), and TB4 track (6) to mounting bars (7) and tighten six screws (3).
 - g. Return connector assembly J101 mounting bracket (11) and relay K3 mounting bracket (12) to position on mounting bars (7) and tighten four screws (10).

END OF TASK

REPLACE OIU DISPLAY PADS

0080 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

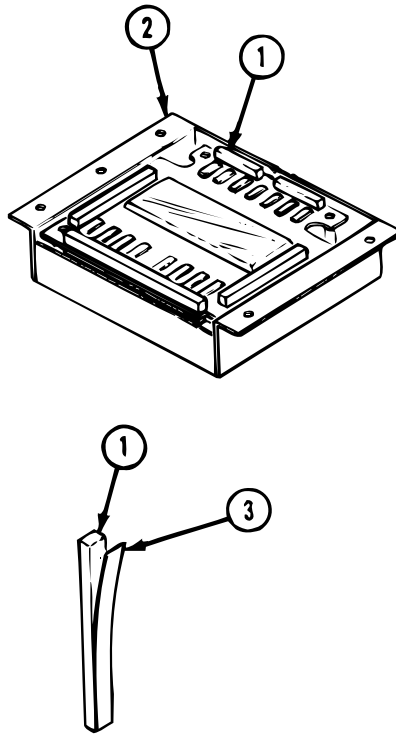
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove display assembly; refer to WP 0047 00.

Materials/Parts:

Cushioning Pad (2)
Cushioning Pad (2)
Cushioning Pad
Wiping Rag (Item 3, WP 0210 00)
Solvent (Item 5, WP 0210 00)

**REMOVE**

1. REMOVE PAD (1) FROM DISPLAY ASSEMBLY (2).
 - a. Remove pads (1) from surface of display assembly (2) and discard.

WARNING

Solvent burns easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well-ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- b. Clean surface of display assembly (2) with solvent and rag to take off old adhesive. Dry surface (2) with clean rag.

INSTALL

2. INSTALL PADS (1) ON DISPLAY ASSEMBLY (2).
 - a. Remove paper backing (3) from new pads (1).
 - b. Install new pads (1) on surface of display assembly (2).

END OF TASK

REPLACE RESISTOR, OIU LOAD PLATE ASSEMBLY**0081 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

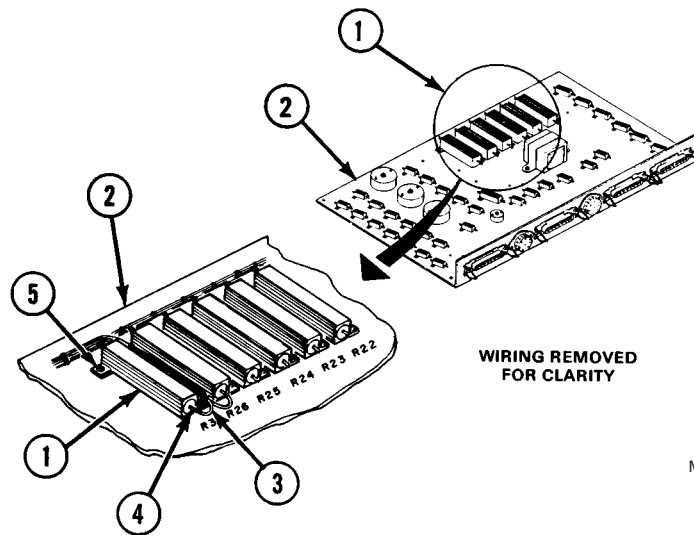
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.

Materials/Parts:

Resistor (as required)

**NOTE**

Use this task to take off and put on any resistor on load plate assembly. Only one resistor (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE RESISTORS (1) FROM LOAD PLATE ASSEMBLY (2).
 - a. Remove wires (3) from resistor terminals (4).
 - b. Remove two screws (5) and remove resistor (1) from load plate assembly (2). Discard resistor.

INSTALL

2. INSTALL NEW RESISTORS (1) ONTO LOAD PLATE ASSEMBLY (2).
 - a. Install new resistor (1) on load plate assembly (2) and install two screws (5) holding resistor (1) to load plate (2).
 - b. Solder wires (3) to resistor terminals (4).

END OF TASK

REPLACE INDUCTOR L1, L2, L3 OR L5, OIU LOAD PLATE ASSEMBLY

0082 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

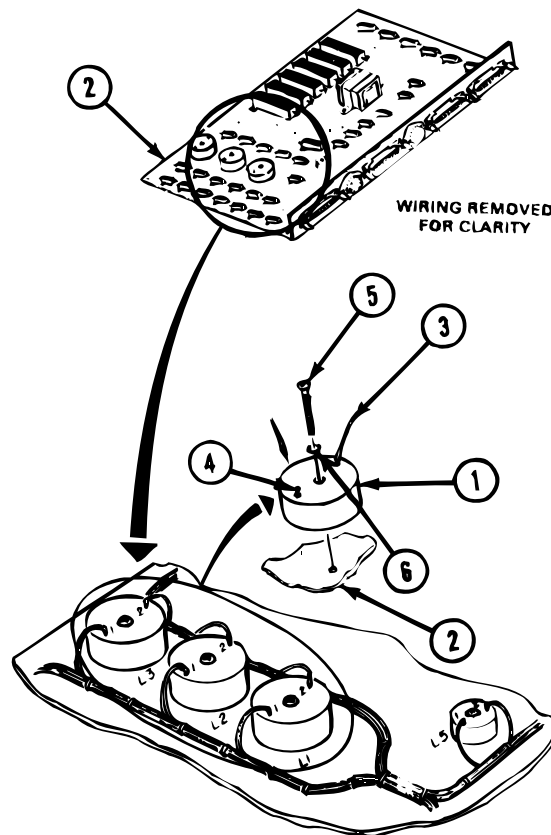
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.

Materials/Parts:

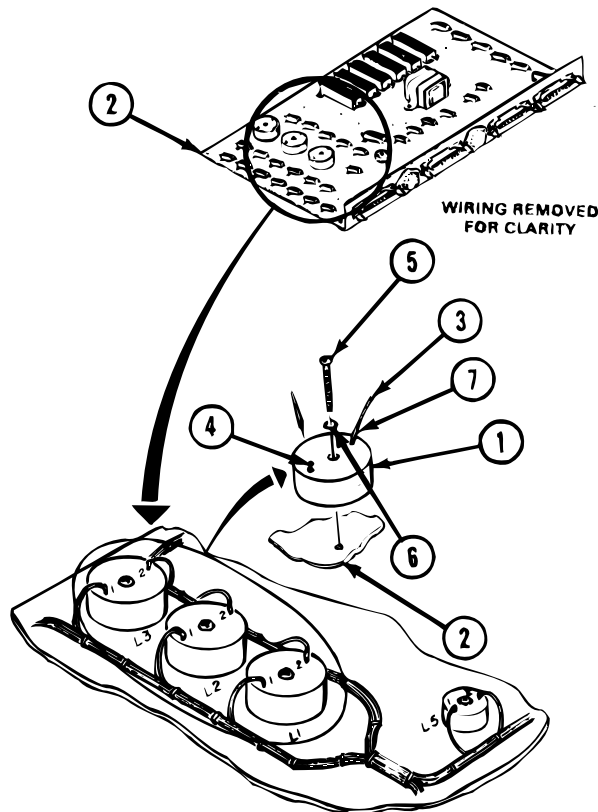
Adhesive (Item 1, WP 0210 00)
Inductor (as required)
Insulation Sleeve (as required)



NOTE

Use this task to take off and put on inductor L1, L2, L3, or L5. Only one inductor (1) is shown.

Read WP 0043 00 before doing any work

**REMOVE**

1. REMOVE INDUCTORS (1) FROM LOAD PLATE ASSEMBLY (2).
 - a. Remove wires (3) from inductor terminals (4).
 - b. Remove screw (5) and washer (6) holding inductor (1) to load plate (2). Discard inductor.

INSTALL

2. INSTALL NEW INDUCTORS (1) ONTO LOAD PLATE ASSEMBLY (2).
 - a. Install new inductor (1) on load plate assembly (2).
 - b. Install screw (5) and washer (6) holding new inductor (1) on load plate assembly (2).
 - c. Cut two 1/2-inch pieces of new insulation sleeving (7) and place on wires (3). Solder wires to inductor terminals (4).

WARNING

Adhesives can burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- d. Coat inductor terminals (4) and insulation sleeving (7) with adhesive.

END OF TASK

REPLACE INDUCTOR L4, OIU LOAD PLATE ASSEMBLY

0083 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

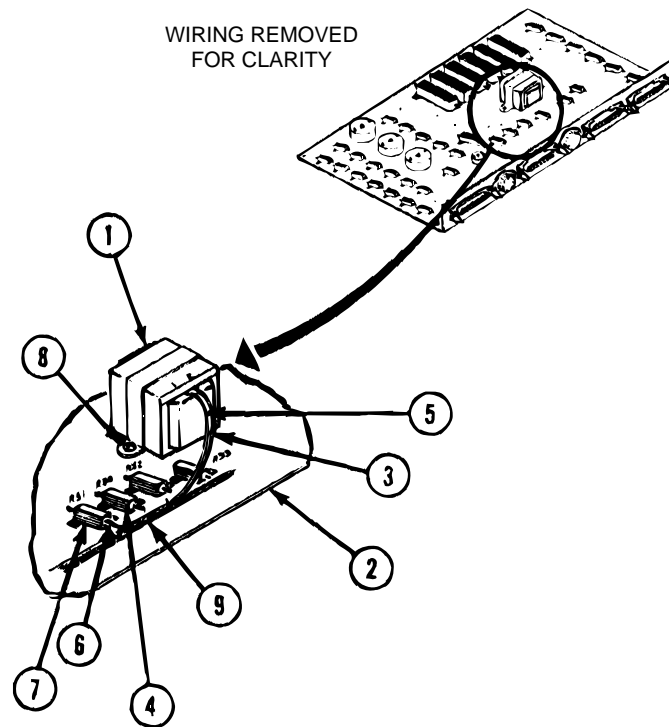
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.

Materials/Parts:

Inductor

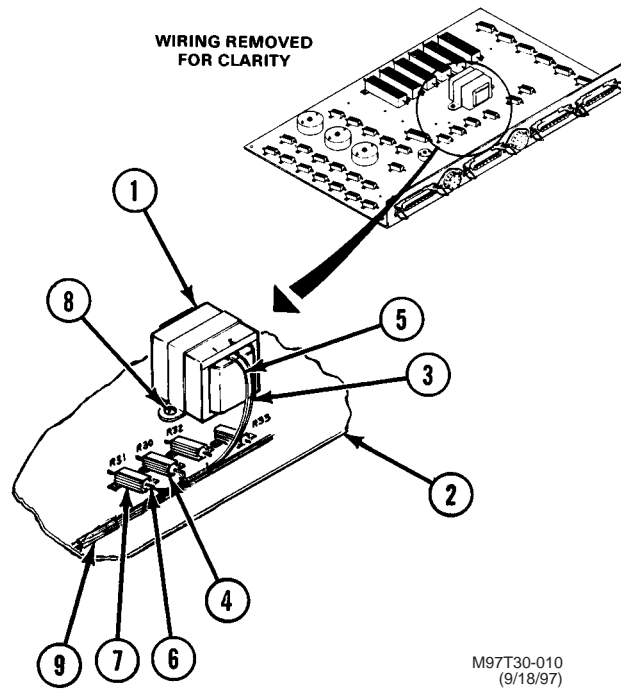


NOTE

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE INDUCTOR L4 (1) FROM LOAD PLATE ASSEMBLY (2).
 - a. Remove wire (3) from resistor R30 (4).
 - b. Remove two wires (5, 6) from resistor R31 (7).
 - c. Remove two screws (8) holding inductor L4 (1) to load plate assembly (2). Discard inductor.

**INSTALL**

2. INSTALL INDUCTOR L4 (1) ONTO LOAD PLATE ASSEMBLY (2).
 - a. Install new inductor L4 (1) on load plate assembly (2) and install two screws (8) holding inductor (1) to load plate assembly (2).
 - b. Solder wire (5) from inductor (1) and wire (6) from wire bundle (9) to terminal on resistor R31 (7).
 - c. Solder wire (3) from inductor (1) to terminal on resistor R30 (4).

END OF TASK

REPLACE TRANSISTOR Q1 OR VOLTAGE REGULATOR VR1, OIU LOAD PLATE ASSEMBLY**0084 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

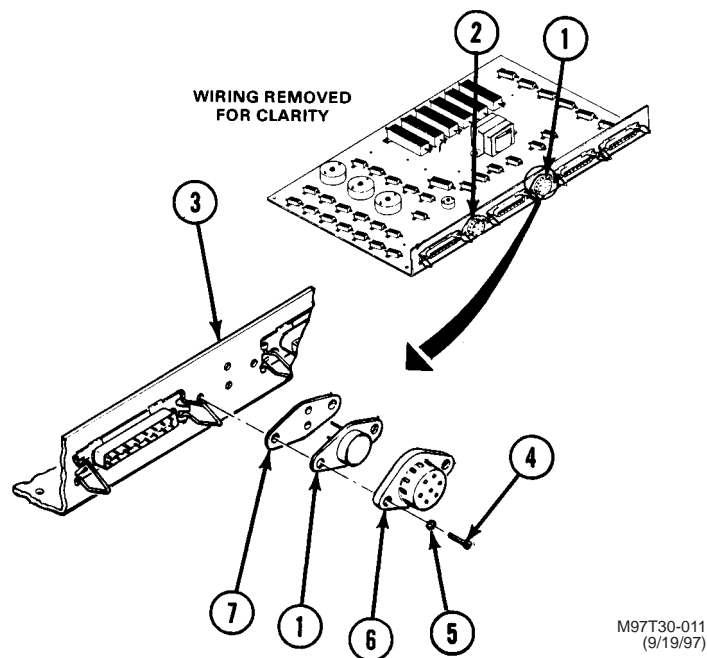
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.

Materials/Parts:

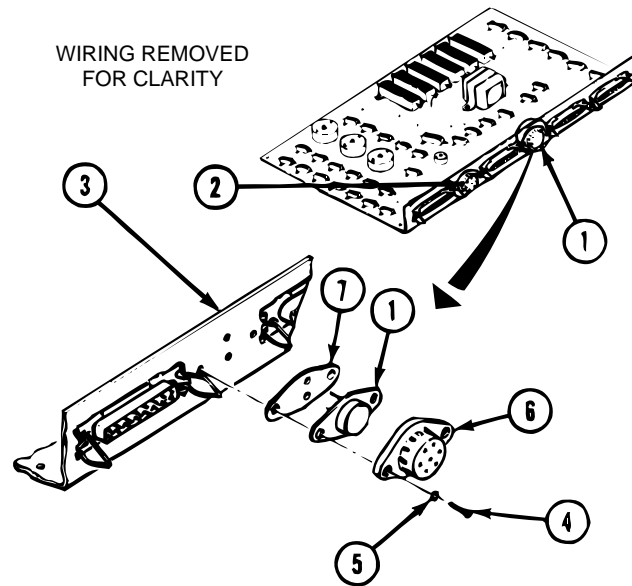
Transistor
Voltage Regulator

**NOTE**

Use this task to remove and install transistor Q1 (1) or voltage regulator VR1 (2).

REMOVE

1. REMOVE TRANSISTOR Q1 (1) OR VOLTAGE REGULATOR VR1 (2) FROM LOAD PLATE ASSEMBLY (3).
 - a. Remove two screws (4) and washers (5) holding cover (6), transistor Q1 (1) and insulator (7) on load plate assembly (3).
 - b. Remove and inspect cover (6) for damage. If damaged, discard; if OK, set aside for later use.
 - c. Remove transistor Q1 (1) and insulator (7). Inspect insulator (7) for damage. If damaged, discard; if OK, set aside for later use.



INSTALL

2. INSTALL NEW TRANSISTOR Q1 (1) OR VOLTAGE REGULATOR VR1 (2) ON LOAD PLATE ASSEMBLY (3).
 - a. Install insulator (7) on transistor Q1 (1) and plug transistor (1) into load plate assembly (3).
 - b. Install cover (6) on transistor (1).
 - c. Install two screws (4) and lockwashers (5) holding cover (6), transistor (1), and insulator (7) on load plate assembly (3).

END OF TASK

REPLACE TRANSISTOR OR VOLTAGE REGULATOR SOCKET, OIU LOAD PLATE ASSEMBLY

0085 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

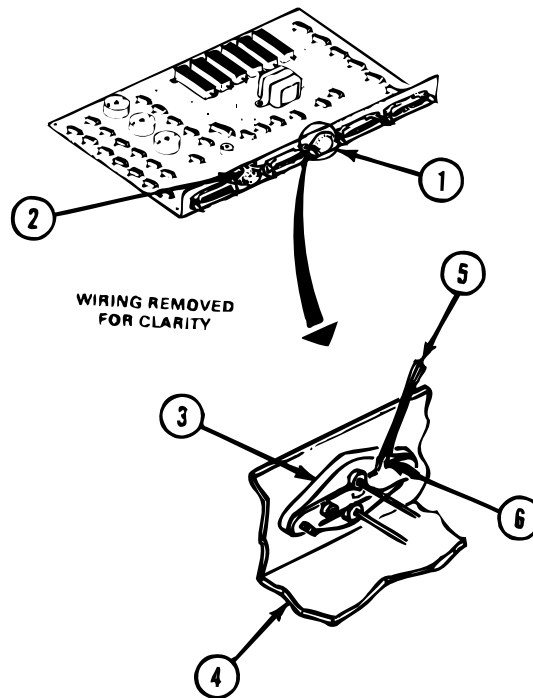
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Insulation Sleeving (as required)
Insulation Sleeving (as required)
Socket

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.
Remove transistor Q1 or voltage regulator VR1; refer to WP 0084 00.



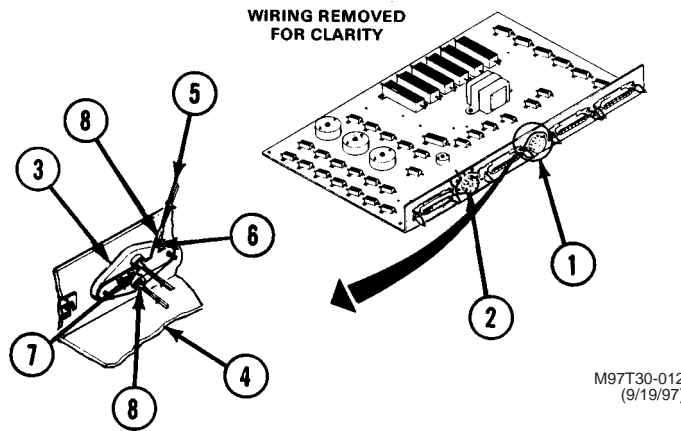
NOTE

Use this task to take off and put on transistor or voltage regulator socket on load plate assembly. Transistor socket (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE TRANSISTOR Q1 (1) OR VOLTAGE REGULATOR VR1 (2) SOCKET (3) FROM LOAD PLATE ASSEMBLY (4).
 - a. Remove three wires (5) from terminals (6) on socket (3).
 - b. Remove and discard socket (3).

**REPLACE TRANSISTOR OR VOLTAGE REGULATOR SOCKET,
OIU LOAD PLATE ASSEMBLY - CONTINUED****0085 00****INSTALL**

2. INSTALL TRANSISTOR Q1 (1) OR VOLTAGE REGULATOR VRI (2) SOCKET (3) ON LOAD PLATE ASSEMBLY (4).
 - a. Cut one 1/2-inch piece of smaller insulation sleeving (7) and place on wire (5).
 - b. Cut two 1/2-inch pieces of larger insulation sleeving (8) and place on wires (5).
 - c. Solder wires (5) to new socket terminals (6).
 - d. Install socket (3) on load plate assembly (4).

END OF TASK

REPAIR/REPLACE OIU LOAD PLATE ASSEMBLY CONNECTOR SOCKETS**0086 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

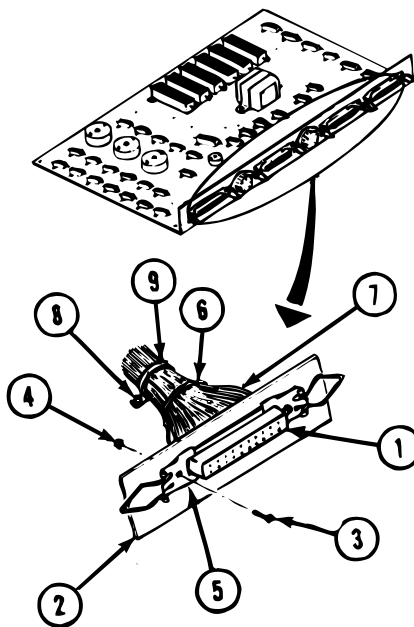
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove load plate assembly; refer to WP 0063 00.

Materials/Parts:

Lacing Tape (Item 6, WP 0210 00)
Sealing Compound (Item 4, WP 0210 00)

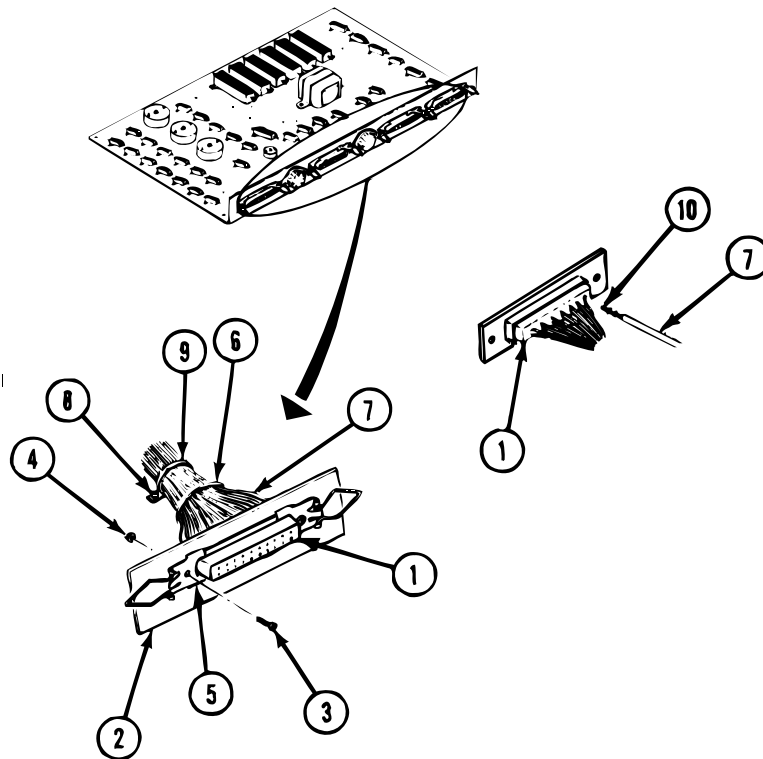
**NOTE**

Use this task for replacing or repairing any connector socket on load plate assembly. Only one connector socket (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE LOAD PLATE ASSEMBLY CONNECTOR SOCKETS (1) FROM LOAD PLATE ASSEMBLY (2).
 - a. Remove two screws (3) and nuts (4) holding two latches (5) and connector socket (1) on load plate assembly (2).
 - b. Remove two latches (5).
 - c. Inspect latches (5) for damage. If damaged, discard; if OK, set aside for later use.
 - d. Remove lacing tape (6) from harness and separate wires (7).
 - e. Remove screw (8) holding cable clamp (9).
 - f. Remove connector socket (1) from load plate assembly (2).

**REMOVE – Continued**

2. REMOVE CONTACTS (10) FROM CONNECTOR (1).
 - a. Remove wire (7) and contact (10) from connector (1) using special insert-extract tool.
 - b. Remove contact (10) from wire (7).

NOTE

To replace connector (1), repeat step 2 and remove all contacts (10) from connector (1). Discard connector socket (1) and go to step 3. To repair connector socket (1) by replacing bad contact (10), go to step 3.

INSTALL

3. INSTALL CONTACTS (10) INTO CONNECTOR SOCKET (1).
 - a. Install new contact (10) on wire (7).
 - b. Install new contact (10) and wire (7) into connector sockets (1) using special insert-extract tool.
4. INSTALL LOAD PLATE ASSEMBLY CONNECTOR SOCKETS (1) INTO LOAD PLATE ASSEMBLY (2).
 - a. Install new connector socket (1) on load plate assembly (2) and install latches (5) on connector socket (1).
 - b. Spread a thin coat of sealing compound on threads of two screws (3).
 - c. Install two screws (3) and nuts (4) securing connector socket (1) and latch (5) to load plate assembly (2).
 - d. Install screw (8) securing cable clamp (9) and secure wires (7) with new lacing tape (6).

END OF TASK

REPLACE OIU COVER ASSEMBLY PAD

0087 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

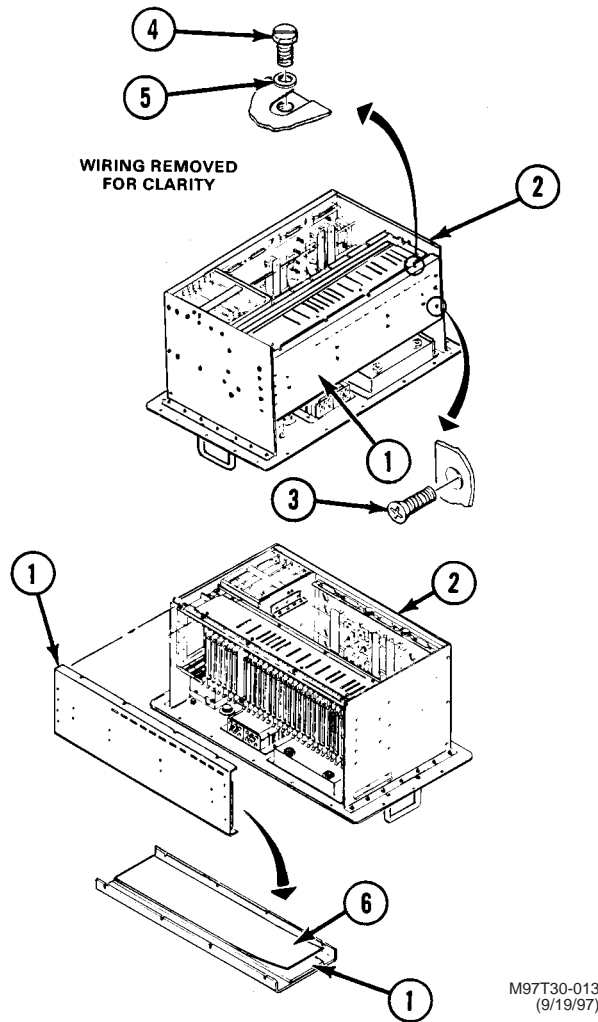
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Acid Swabbing Brush (Item 2, WP 0210 00)
Adhesive (Item 1, WP 0210 00)
Lockwasher (8)
Pad
Sealing Compound (Item 4, WP 0210 00)
Solvent (Item 5, WP 0210 00)
Wiping Rag (Item 3, WP 0210 00)

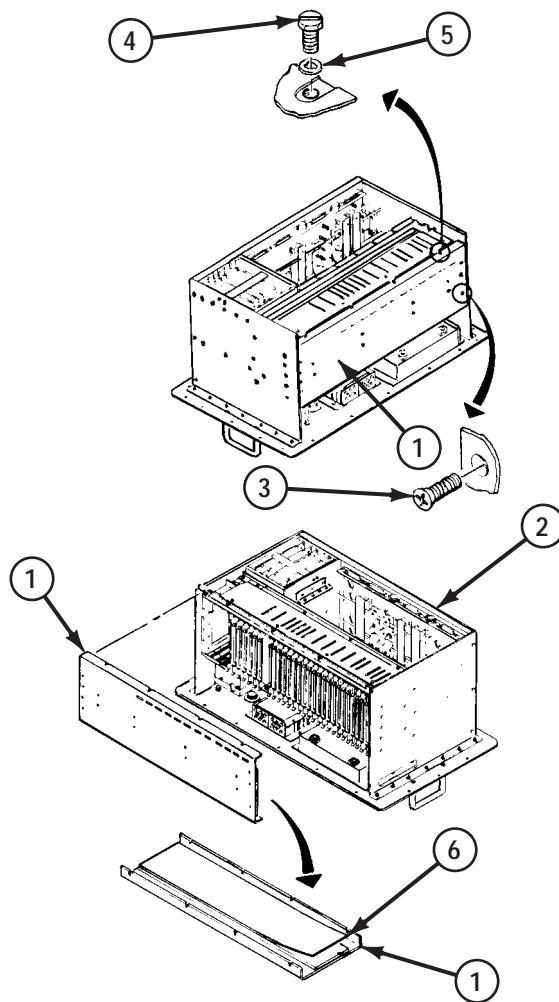
**REMOVE**

1. REMOVE COVER ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove six screws (3) from cover assembly (1).
 - b. Remove eight screws (4) and lockwashers (5), four from each side of cover assembly (1). Discard lockwashers.
 - c. Remove cover assembly (1) from electronics assembly (2) and place on workbench.
2. REMOVE COVER ASSEMBLY PAD (6) FROM COVER ASSEMBLY (1).
 - a. Remove pad (6) from cover assembly (1). Discard pad.

WARNING

Adhesive and solvents burn easily and may give off harmful vapor. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- b. Remove adhesive from cover assembly (1).
- c. Clean surface of cover assembly (1) with knife, solvent, and rag to take off old adhesive. Dry cover assembly (1) with a clean rag.

M97T30-057
(11/24/97)**INSTALL**

3. INSTALL NEW PAD (6) ON COVER ASSEMBLY (1).
 - a. Apply a thin coat of adhesive to cover assembly (1).
 - b. Install pad (6) on cover assembly (1).
4. INSTALL COVER ASSEMBLY (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Apply a thin coat of sealing compound on threads of 14 screws (3, 4).
 - b. Install six screws (3) in cover assembly (1).
 - c. Install eight screws (4) and new lockwashers (5), four on each side of cover assembly.

END OF TASK

REMOVE/INSTALL CENTER PLATE

0088 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

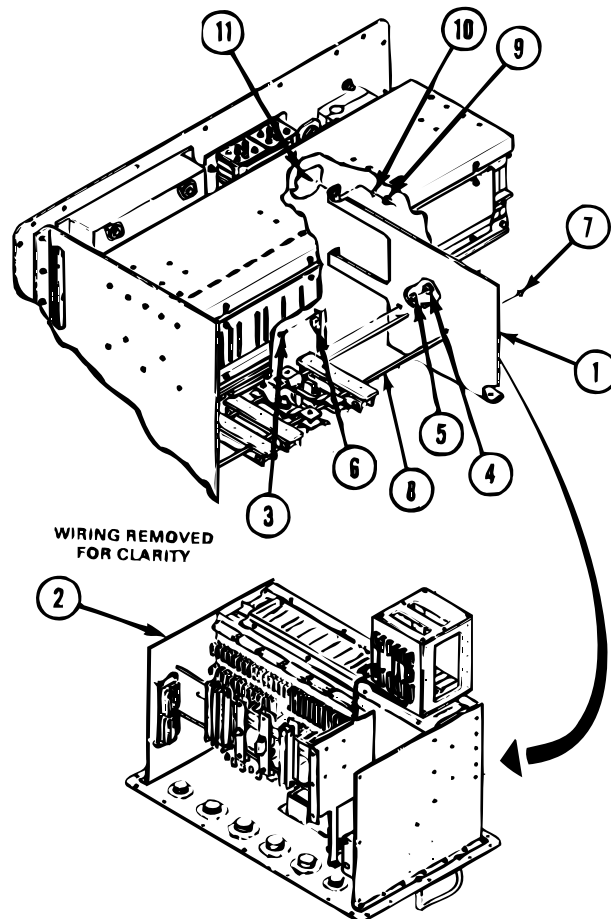
- Calibration Specialist Tool Kit
- SC 6695-92-A05

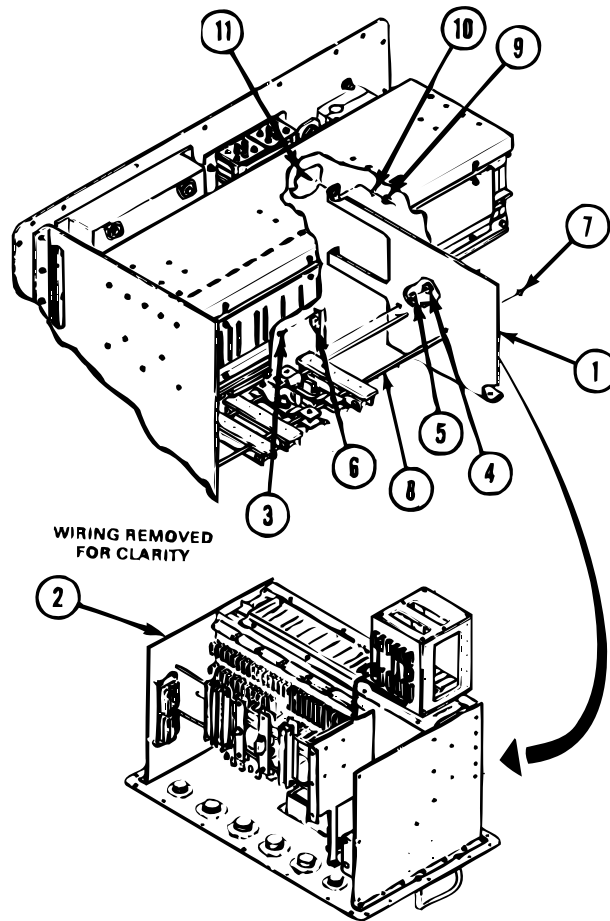
Equipment Conditions:

- Remove electronics assembly; refer to WP 0044 00.
- Remove cover and load plate assembly; refer to WP 0049 00.
- Remove circuit card assemblies; mini card cage; refer to WP 0050 00.
- Remove mini card cage assembly; refer to WP 0051 00.

Materials/Parts:

- Lockwasher, center plate
- Lockwasher, relay
- Retaining Ring
- Sealing Compound (Item 4, WP 0210 00)





REMOVE

1. REMOVE CENTER PLATE (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3), nuts (4), and lockwashers (5) holding relay K2 (6) to center plate (1). Discard lockwashers.
 - b. Remove three retaining rings (7) holding mounting bars (8) to center plate (1). Discard retaining rings.
 - c. Remove two nuts (9) and lockwashers (10) holding center plate (1) to front panel mounting studs (11). Discard lockwashers.
 - d. Remove center plate (1).

INSTALL

2. INSTALL NEW CENTER PLATE (1) INTO ELECTRONICS ASSEMBLY (2).
 - a. Install center plate (1) on front panel mounting studs (11).
 - b. Apply a thin coat of sealing compound to threads of two mounting studs (11) and install two nuts (9) and new lockwashers (10) on mounting studs (11).
 - c. Install mounting bars (8) on center plate (1) and install three retaining rings (7) holding mounting bars (8) to center plate (1).
 - d. Apply a thin coat of sealing compound to threads of two screws (3).
 - e. Place relay K2 (6) on center plate (1) and install two screws (3), new lockwashers (5), and nuts (4).

END OF TASK

REPLACE OIU CAPACITOR C1, C2, C3, OR C4

0089 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

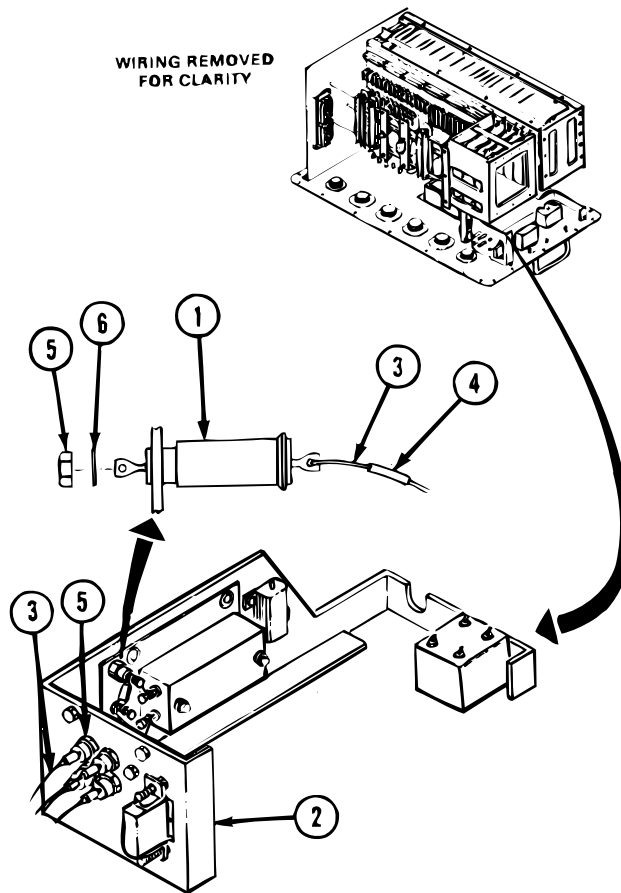
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove RFI shield cover; refer to WP 0048 00.

Materials/Parts:

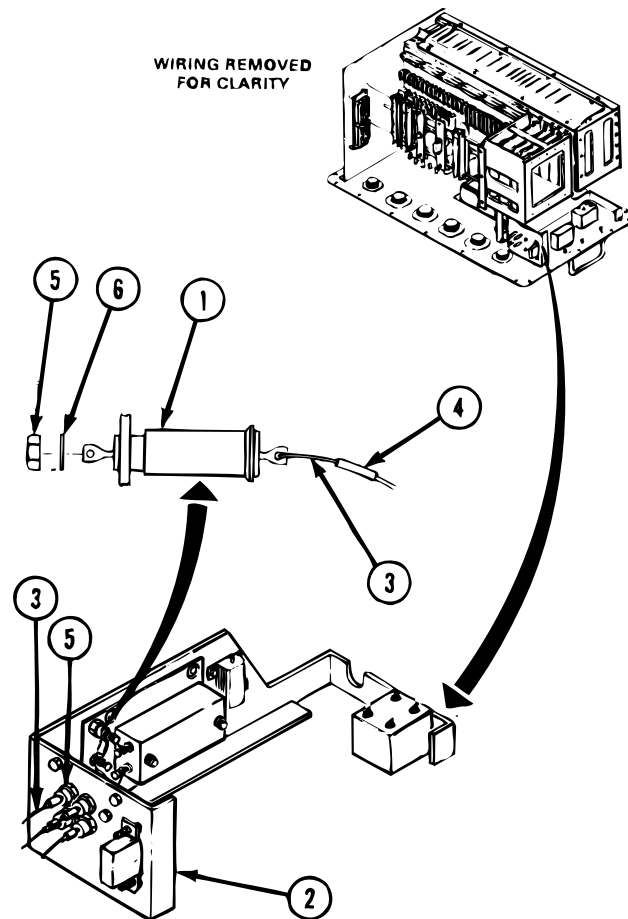
Capacitor
Insulation Sleeving (as required)



NOTE

Use this task to take out and put in capacitor C1, C2, C3, or C4. Only one capacitor (1) is shown.

Read WP 0043 00 before doing any work.

**REMOVE**

1. REMOVE CAPACITORS C1, C2, C3, OR C4 (1) FROM RFI SHIELD BRACKET (2).
 - a. Remove wires (3) and insulation sleeving (4) from capacitor (1).
 - b. Remove nut (5) and lockwasher (6). Discard lockwasher, nut, insulation sleeving, and capacitor.

INSTALL

2. INSTALL NEW CAPACITOR C1, C2, C3, OR C4 (1) ON RFI SHIELD BRACKET (2).
 - a. Cut 1/2-inch piece of new insulation sleeving (4) and place on wires (3).
 - b. Install new capacitor (1) on RFI shield bracket (2) with new nut (5) and new lockwasher (6).
 - c. Install wires (3) and insulation sleeving (4) on capacitor (1).

END OF TASK

REPLACE OIU CAPACITOR C5, C6, C7, OR C8**0090 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

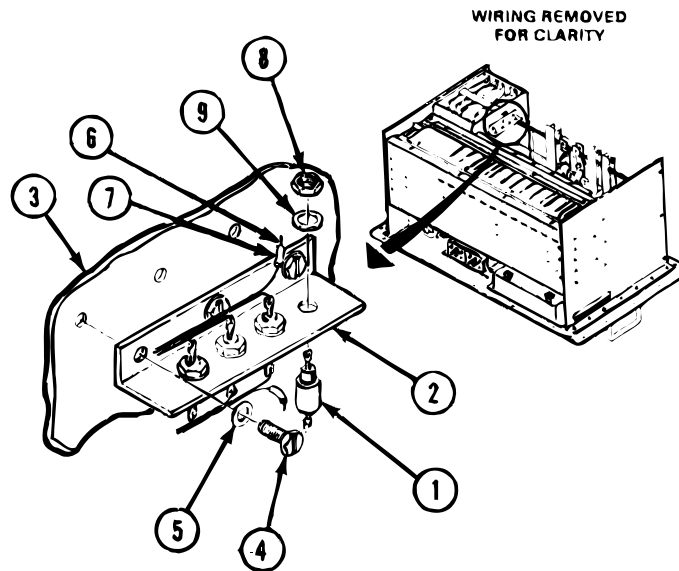
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Capacitor
Insulation Sleeving (as required)
Lockwasher (3)

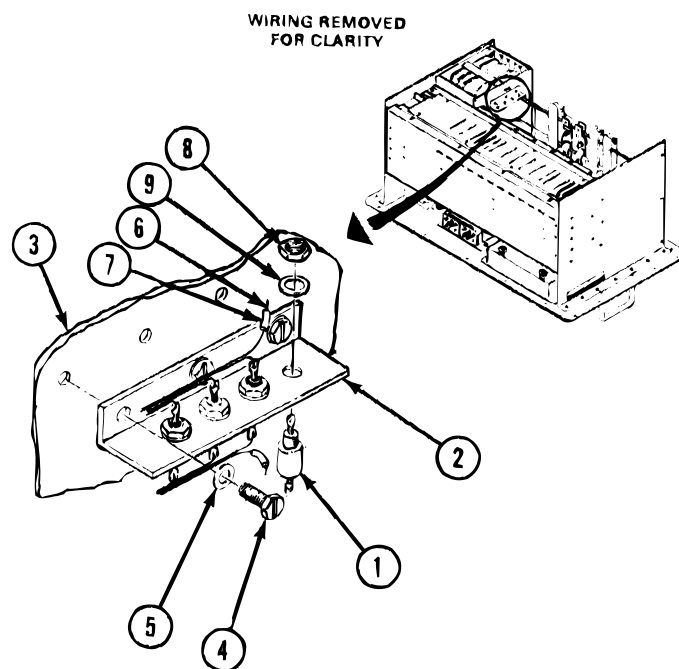
**NOTE**

Use this task to take out and put in capacitor C5, C6, C7, for C8. Only one capacitor (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CAPACITORS C5, C6, C7, OR C8 (1) FROM BRACKET (2) ON CENTER PLATE (3).
 - a. Remove three screws (4) and lockwashers (5) holding bracket (2) to center plate (3). Discard lockwashers.
 - b. Remove wires (6) and insulation sleeving (7) from capacitor (1). Discard insulation sleeving.
 - c. Remove nut (8) and lockwasher (9) from capacitor (1). Discard capacitor, nut, and lockwasher.

**INSTALL**

2. INSTALL NEW CAPACITOR C5, C6, C7, OR C8 (1) ON BRACKET (2) ON CENTER PLATE (3)
 - a. Cut two pieces of insulation sleeving (7) and place on wires (6).
 - b. Install capacitor (1) on bracket (2) with new nut (8) and new lockwasher (9).
 - c. Install wires (6) and insulation sleeving (7) on capacitor (1).
 - d. Install three screws (4) and new lockwashers (5) holding bracket (2) in place on center plate (3).

END OF TASK

REPLACE OIU DISPLAY ASSEMBLY LATCH**0091 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

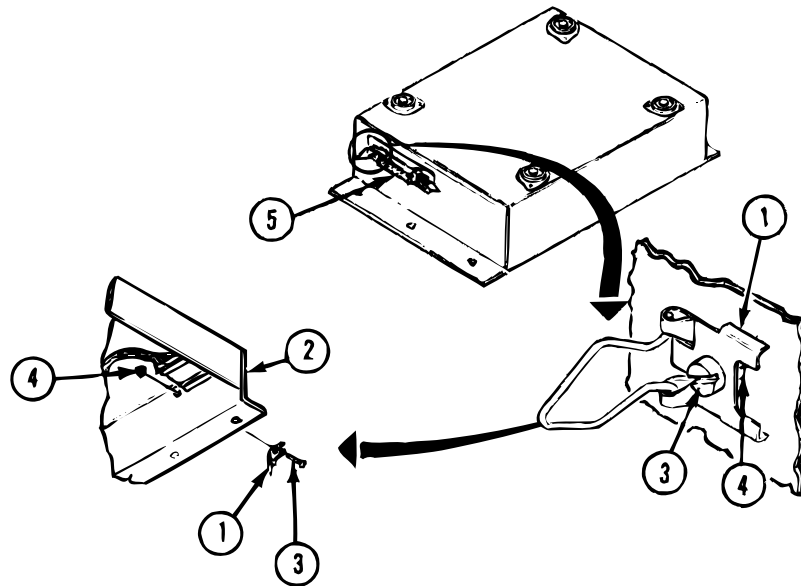
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove display assembly; refer to WP 0047 00.

Materials/Parts:

Latch Assembly
Sealing Compound (Item 4, WP 0210 00)

**NOTE**

Use this task to take off and put on either latch (1) on display assembly (2). Only one latch (1) is shown.

REMOVE

1. REMOVE CONNECTOR LATCH (1) FROM DISPLAY ASSEMBLY (2).
 - a. Remove screws (3) and nut (4) holding latch (1) and connector (5) on display assembly.
 - b. Discard nut, screw, and latch.

INSTALL

2. INSTALL NEW CONNECTOR LATCH (1) ON DISPLAY ASSEMBLY (2).
 - a. Apply a thin coat of sealing compound on threads of new screw (3).
 - b. Place latch (1) on display assembly (2) and install screw (3) and new nut (4) holding connector (5) and latch (1) in display assembly (2).

END OF TASK

REMOVE/INSTALL OIU FRONT PANEL**0092 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

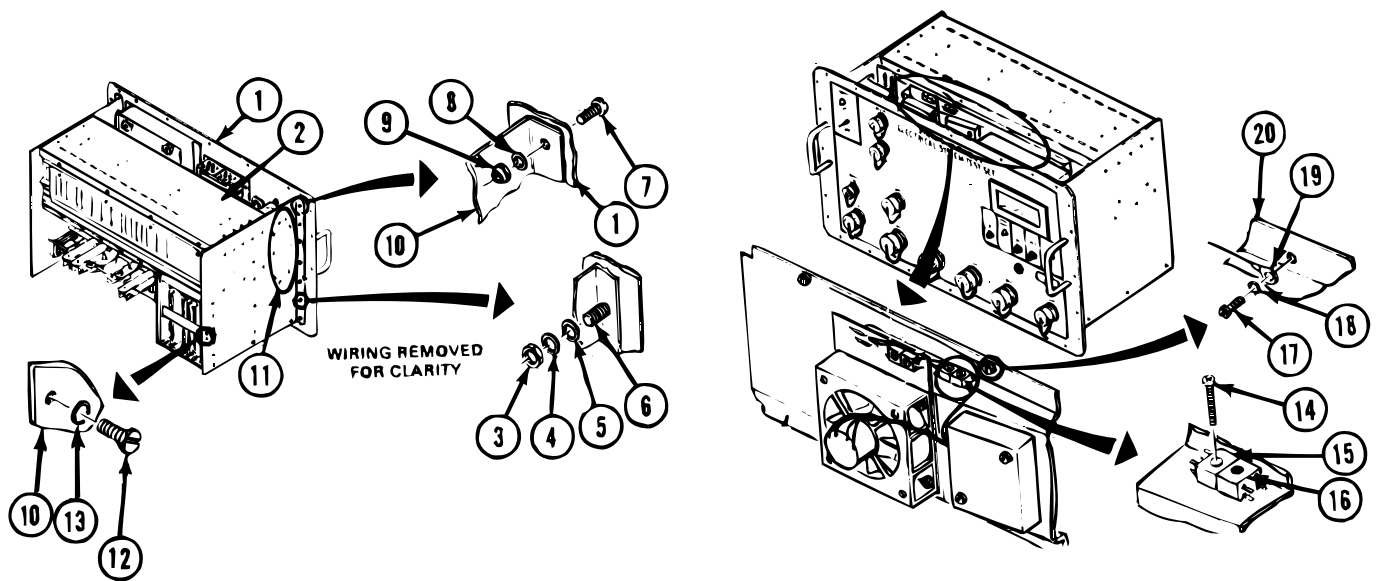
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Locknut (2)
Lockwasher, center plate (2)
Lockwasher, connector (1)
Lockwasher, end plate (20)
Lockwasher, end plate (5)
Lockwasher, terminal lug (1)
Screw (2)
Sealing Compound (Item 4, WP 0210 00)

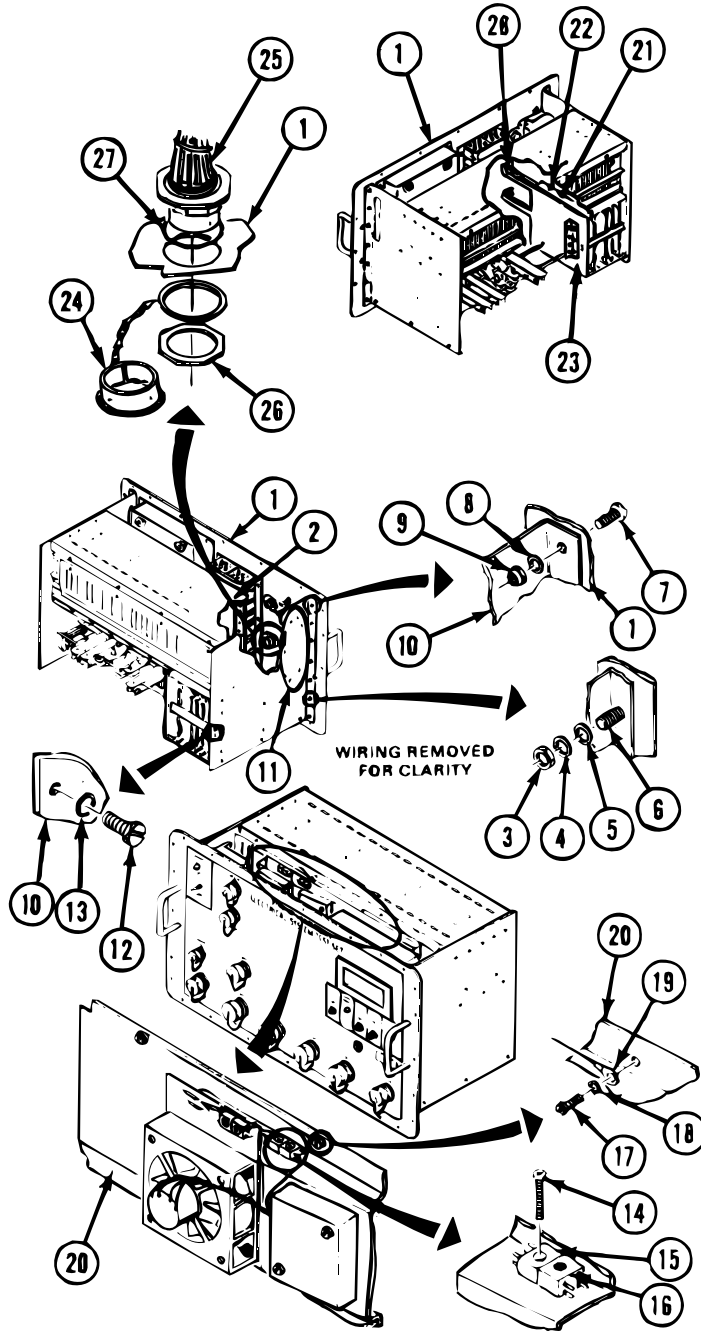
**REMOVE**

1. REMOVE FRONT PANEL (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove five nuts (3), lockwashers (4), and flat washers (5) from studs (6). Discard lockwashers.
 - b. Remove two screws (7), flat washers (8), and locknuts (9) from front panel (1) and end plate (10). Discard locknuts and screws.

NOTE

Do not remove nine screws (11) holding RFI shield cover, PMC, and filter to end plate.

- c. Remove 20 screws (12) and lockwashers (13) from end plate (10).
- d. Remove screw (14) holding connector P102 (15) and unplug connector P102 (15) from connector socket J102 (16).
- e. Remove screw (17) and lockwasher (18) holding terminal lug (19) to fan panel (20). Discard lockwasher.



REMOVE/INSTALL OIU FRONT PANEL - CONTINUED

0092 00**REMOVE – Continued**

- f. Remove two nuts (21) and lockwashers (22) holding center plate (23) to front panel (1). Discard lockwashers.
- g. Remove protective cover (24) from connector TJ10 (25).
- h. Remove nut (26) and cover (24). Set aside cover (24) and nut (26) for later use.
- i. Remove connector (25) and gasket (27) from back side of front panel (1).
- j. Pull top of front panel (1) forward to gain access to parts mounted on the front panel.

INSTALL

2. INSTALL FRONT PANEL (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Position front panel (1) close to electronics assembly (2).
 - b. Install connector TJ10 (25) and gasket (27) in front panel (1).
 - c. Install cover (24) and nut (26) on connector TJ10 (25) and install cover (24) on connector (25).
 - d. Position front panel (1) on electronics assembly (2).
 - e. Apply a thin coat of sealing compound to threads of center plate mounting studs (28) and install two nuts (21) and new lockwashers (22) holding center plate (23) to front panel (1).
 - f. Apply a thin coat of sealing compound to threads of five studs (6) and install five nuts (3), new lockwasher (4), and flat washer (5).
 - g. Install two screws (7), flat washers (8), and locknuts (9) in front panel (1) and end plate (10).
 - h. Apply a thin coat of sealing compound to threads of 20 screws (12) and install 20 screws (12) and new lockwashers (13) securing end plate (10) to electronics assembly (2).
 - i. Plug connector plug P102 (15) into connector socket J102 (16) and install screw (14) holding connector plug P102 (15) on fan panel (20).
 - j. Install screw (17) and new lockwasher (18) holding terminal lug (19) to fan panel (20).

END OF TASK

REPLACE OIU CONNECTOR P124

0093 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

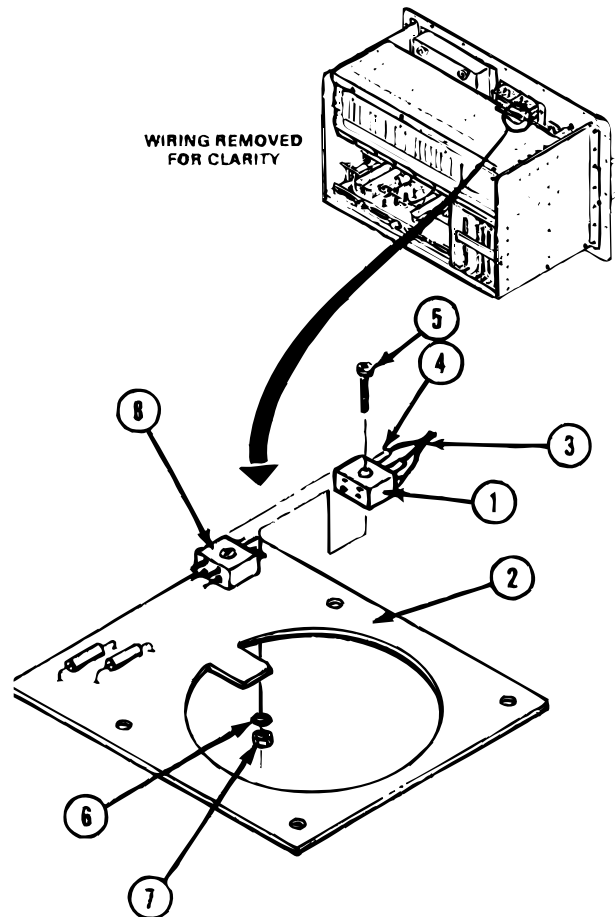
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

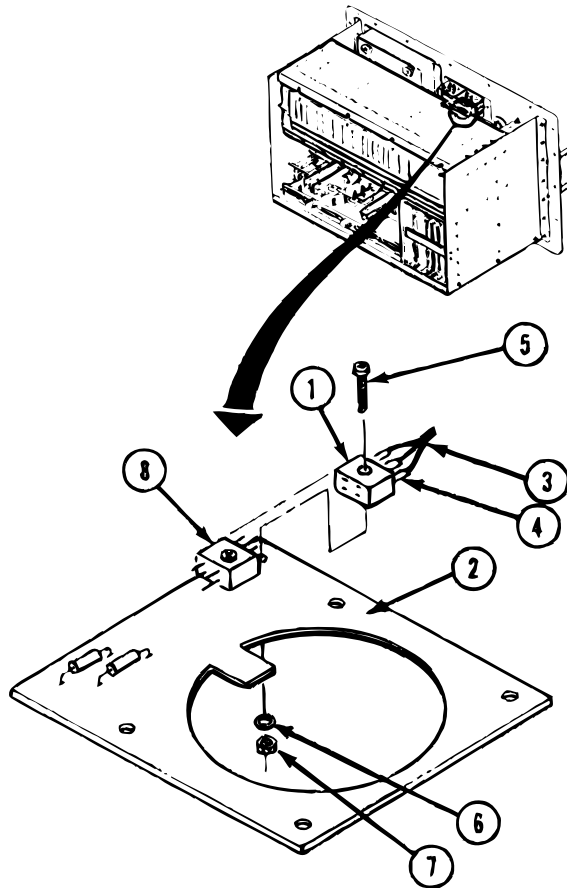
Materials/Parts:

Connector (as required)
Insulation Sleeving (as required)
Lockwasher



NOTE

Read WP 0043 00 before doing any work.

**REMOVE**

1. REMOVE CONNECTOR PLUG P124 (1) FROM FAN MONITOR ASSEMBLY (2).
 - a. Remove three wires (3) and insulation sleeving (4) from connector plug P124 (1).
 - b. Remove one screw (5), lockwasher (6), and nut (7) holding connector plug P124 (1) on fan monitor assembly (2). Discard lockwasher.
 - c. Remove connector plug P124 (1) from connector socket J124 (8) and discard.

INSTALL

2. INSTALL CONNECTOR PLUG P124 (1) INTO FAN MONITOR ASSEMBLY (2).
 - a. Install connector plug P124 (1) on connector socket J124 (8) and install screw (5), new lockwasher (6), and nut (7).
 - b. Cut three 1/2-inch pieces of new insulation sleeving (4) and place on three wires (3).
 - c. Install wires (3) and insulation sleeving (4) on terminals on connector plug P124 terminals (1).

END OF TASK

REPLACE OIU FAN MONITOR ASSEMBLY**0094 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

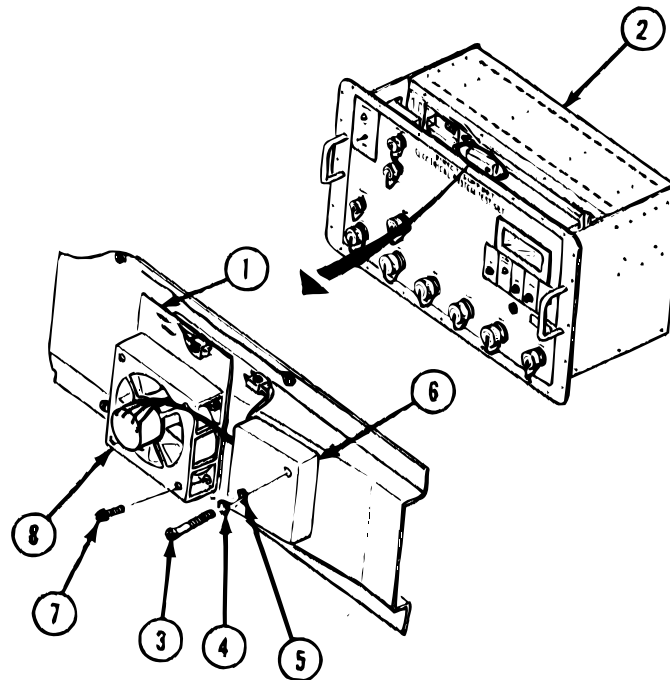
Circuit Card Assembly
Lockwasher (2)

Equipment Conditions:

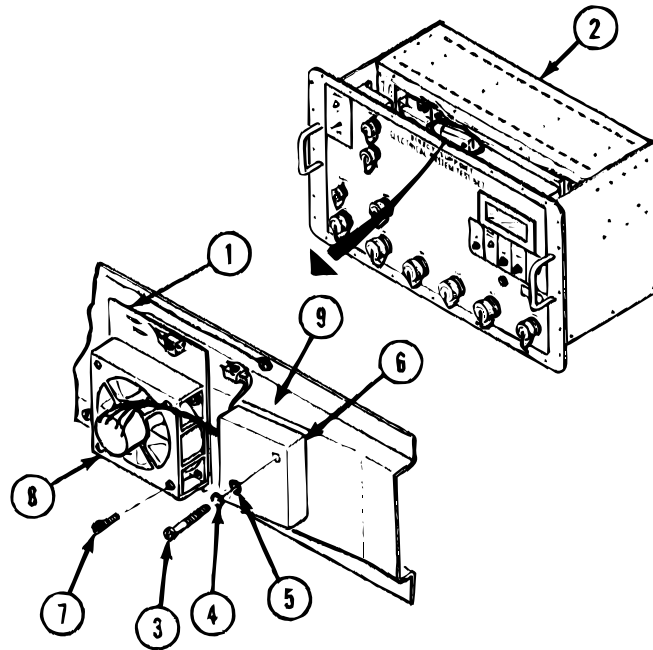
Do preliminary procedures 1 and 2 for 1984 and subsequent production OIUs; refer to WP 0002 00.

Do preliminary procedures 1, 3, 4, 5, 6 and 7 for early production OIUs; refer to WP 0002 00.

1. Remove electronics assembly; refer to WP 0044 00.
2. Remove front panel; refer to WP 0092 00.
3. Remove cover and load plate assembly; refer to WP 0049 00.
4. Remove connector UJ3, refer to WP 0064 00.
5. Remove RFI shield cover; refer to WP 0048 00.
6. Remove display assembly; refer to WP 0047 00.
7. Remove fan duct; refer to WP 0095 00.

**NOTE**

Do step 1a if fan has a control module.

**REMOVE**

1. REMOVE FAN MONITOR ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove two screws (3), lockwasher (4) and flatwashers (5) from control module (6). Discard lockwashers.
 - b. Remove four screws (7) holding fan (8) to fan monitor assembly (1).
 - c. Lift out fan (8), control module (6), and fan monitor assembly (1). Set fan (8) and control module (6) aside for later use. Discard fan monitor assembly.

INSTALL

2. INSTALL NEW FAN MONITOR ASSEMBLY (1) INTO ELECTRONICS ASSEMBLY (2).

NOTE

Do step 2b if fan has a control module.

- a. Position fan (8) and fan monitor assembly (1) on duct (9) and install four screws (7).
- b. Install two screws (3), new lockwashers (4), and flat washers (5) holding control module (6) on duct (9).

END OF TASK

REMOVE/INSTALL OIU FAN DUCT**0095 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

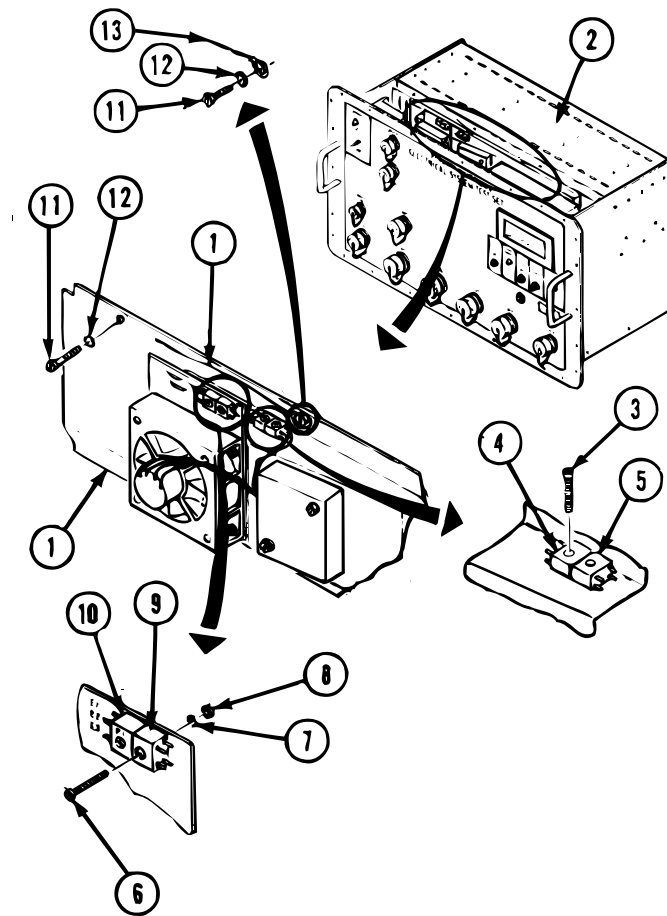
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

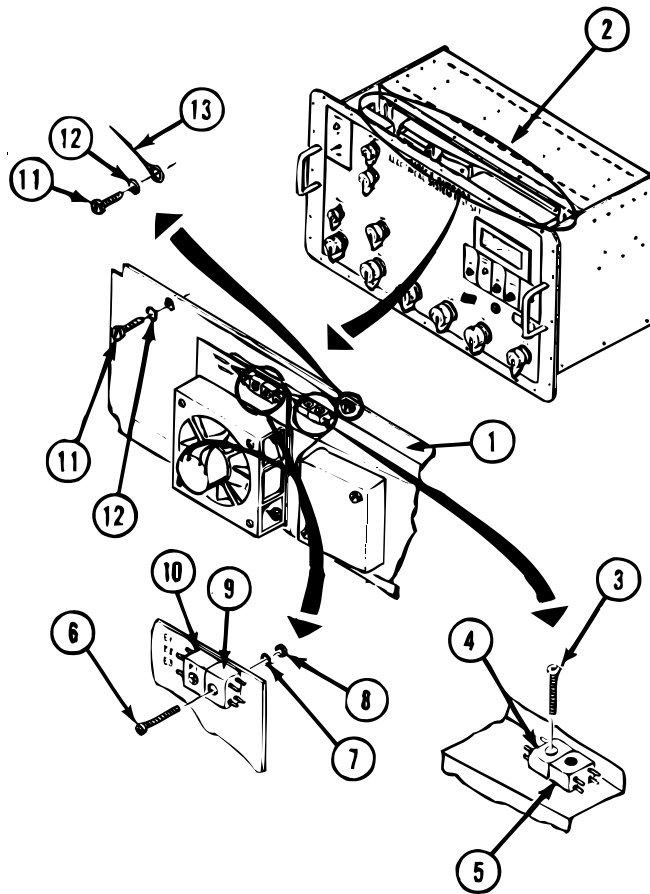
Lockwasher (8)
Lockwasher

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.
Remove connector UJ3; refer to WP 0064 00.
Remove RFI shield cover; refer to WP 0048 00.
Remove display assembly; refer to WP 0047 00.

**REMOVE****1. REMOVE FAN DUCT (1) FROM CARD CAGE ASSEMBLY (2).**

- a. Remove screw (3) from connector plug P102 (4) and unplug from connector socket J102 (5).
- b. Remove screw (6), lockwasher (7), and nut (8) from connector plug P124 (9) and unplug from connector socket J124 (10). Discard lockwasher.
- c. Remove screw (11) and lockwasher (12) from top of fan duct (1) holding ground wire (13). Discard lockwashers.
- d. Remove seven screws (11) and lockwashers (12) from top and bottom of fan duct (1). Discard lockwashers.
- e. Lift out fan duct (1).

**INSTALL****NOTE**

Fan duct includes fan assembly and fan monitor printed circuit board assembled on duct prior to installation on card cage.

2. INSTALL FAN DUCT (1) ONTO CARD CAGE ASSEMBLY (2).
 - a. Place fan duct (1) on card cage assembly (2) and install screw (11) and new lockwasher (12) holding ground wire (13) and fan duct (1) on card cage assembly (2).
 - b. Install seven remaining screws (11) and new lockwashers (12) securing fan duct (1) to card cage assembly (2).
 - c. Plug connector plug P124 (9) into connector socket J124 (10) and install screw (6), new lockwasher (7), and nut (8).
 - d. Plug connector plug P102 (4) into connector socket J102 (5) and install screw (3).

END OF TASK

REPLACE OIU CAPACITOR C9**0096 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

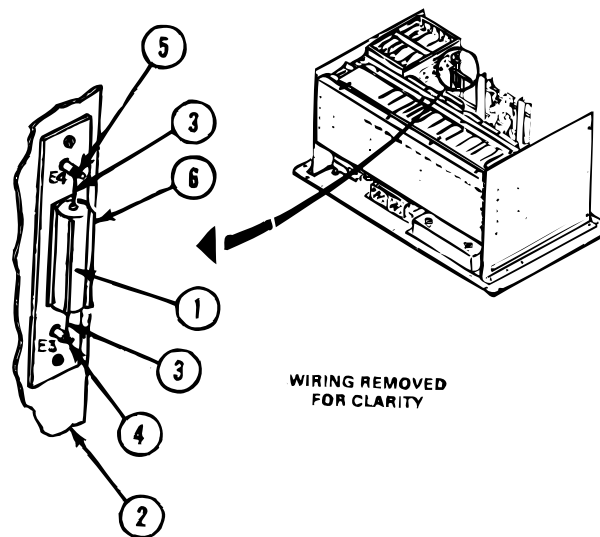
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.
Remove cover and load plate assembly; refer to WP 0049 00.

Materials/Parts:

Capacitor

**REMOVE**

1. REMOVE CAPACITOR C9 (1) FROM MOUNTING PLATE (2).
 - a. Remove wires (3) from terminals E3 (4) and E4 (5).
 - b. Remove capacitor (1) from spring clip (6).
 - c. Discard capacitor.

INSTALL

2. INSTALL NEW CAPACITOR C9 (1) INTO MOUNTING PLATE (2).
 - a. Install capacitor C9 (1) into spring clip (6).
 - b. Install wires (3) onto terminals E3 (4) and E4 (5).

END OF TASK

REPLACE OIU POWER MONITOR CONTROLLER

0097 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

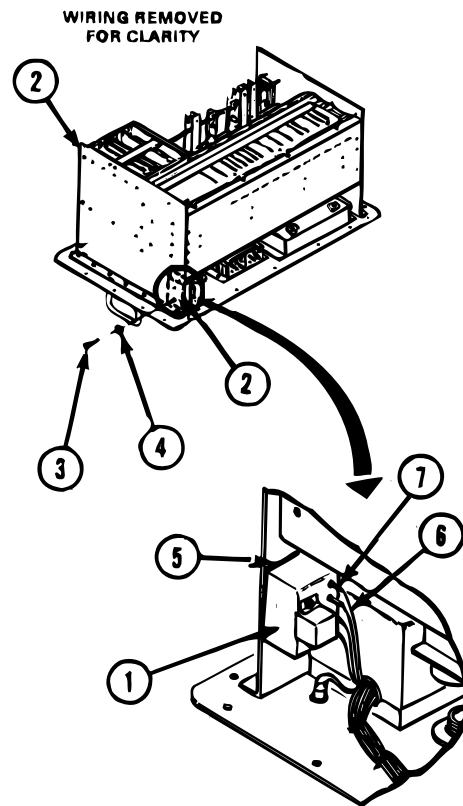
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Power Monitor Controller
Insulator
Screw (2)
Shoulder Washer (2)
Sealing Compound (Item 4, WP 0210 00)

**REMOVE**

1. REMOVE POWER MONITOR CONTROLLER (PMC) (1) FROM END PLATE (2).

NOTE

Some PMCs may be mounted with insulated screws and no shoulder washers. If PMC is mounted with insulated screws, new PMC must also be mounted with new insulated screws.

- a. Remove two screws (3) and two shoulder washers (4) holding PMC (1) to end plate (2). Discard screws, shoulder washers and insulator.
- b. Remove four wires (6) on PMC (1). Discard PMC.

INSTALL

2. INSTALL NEW POWER MONITOR CONTROLLER (1) ON END PLATE (2).
 - a. Install four wires (6) on four terminals (7) of PMC (1).
 - b. Spread a thin coat of sealing compound on threads of two screws (3).
 - c. Install two new screws (3) and two new shoulder washers (4) with new insulator (5) holding PMC (1) on end plate (2).

END OF TASK

REPLACE OIU CASE GASKET

0098 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP**Tools:**

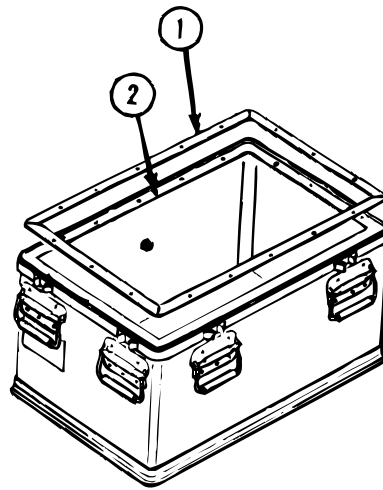
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Acid Swabbing Brush (Item 2, WP 0210 00)
Adhesive (Item 1, WP 0210 00)
Gasket
Rag, wiping (Item 3, WP 0210 00)
Solvent (Item 5, WP 0210 00)

**REPLACE**

1. REMOVE GASKET (1) FROM CASE (2).
 - a. Scrape off old gasket (1) and adhesive with pocket knife. Discard gasket.

WARNING

Adhesives and solvents burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- b. Clean surface of case (2) with solvent and rag. Dry case surface (2) with a clean rag.

INSTALL

2. INSTALL NEW GASKET (1) ON CASE (2).
 - a. Spread a thin coat of adhesive on case surface (2) with brush.
 - b. Place gasket (1) on case surface (2). Align 24 screw holes in gasket (1) with holes on case surface (2) and press gasket (1) in place.

END OF TASK

REPLACE OIU ELECTRICAL CONNECTOR PROTECTIVE COVER ASSEMBLY**0099 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

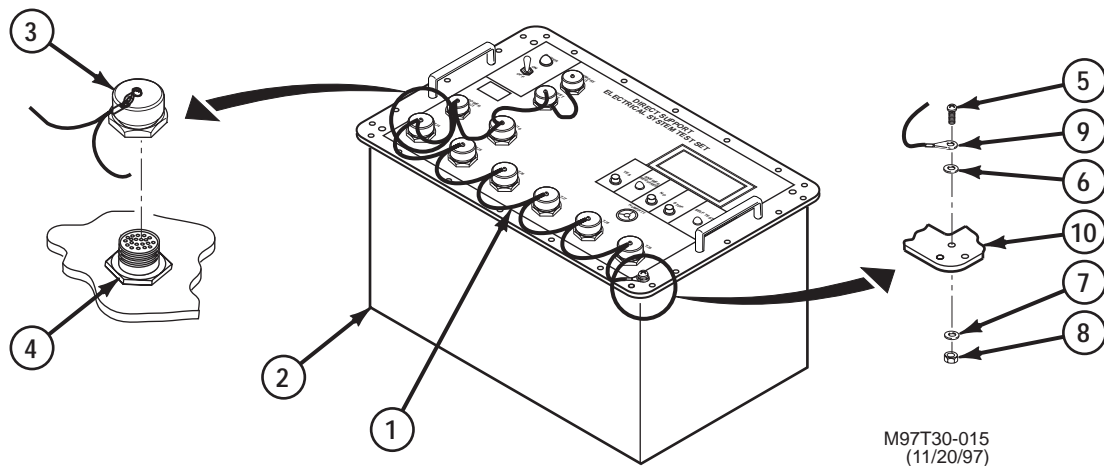
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove electronics assembly; refer to WP 0044 00.

Materials/Parts:

Nut
Plastic Washer
Protective Cover Assembly
Screw

**REMOVE**

1. REMOVE PROTECTIVE COVER ASSEMBLY (1) FROM ELECTRONICS ASSEMBLY (2).
 - a. Remove protective covers (3) from connectors (4).
 - b. Remove screw (5), plastic washer (6), flat washer (7), and nut (8) securing eyelet (9) of protective cover assembly (1) to panel (10). Discard protective cover assembly, screw, plastic washer, and nut.

INSTALL

2. INSTALL NEW PROTECTIVE COVER ASSEMBLY (1) ON ELECTRONICS ASSEMBLY (2).
 - a. Secure eyelet (9) of protective cover assembly (1) to panel (10) with new screw (5), new plastic washer (6), flat washer (7), and new nut (8).
 - b. Install protective covers (3) on connectors (4).

END OF TASK

REPLACE TEST PROBE FRONT HOUSING ASSEMBLY

0100 00

THIS WORK PACKAGE COVERS:

Removal, Installation

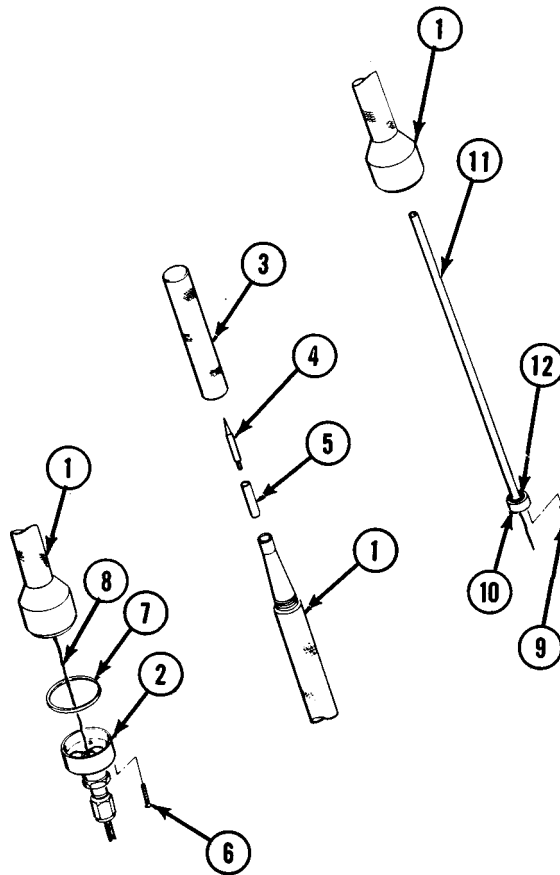
INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Adhesive (Item 1, WP 0210 00)
Gasket
Performed Packing

M97T30-017
(9/23/97)**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE FRONT HOUSING ASSEMBLY (1) FROM TEST PROBE REAR HOUSING (2).
 - a. Remove protective cap (3) from front housing (1).
 - b. Remove probe tip (4) and insulation sleeving (5).
 - c. Remove three screws (6) from rear housing (2) holding front housing (1) to rear housing (2).

CAUTION

Handle probe rear housing carefully when removing to avoid breaking wires.

- d. Remove rear housing (2) and gasket (7) from front housing (1) as far as wire (8) will allow.

REMOVE – Continued

- e. Remove three screws (9) from shaft retainer (10) and remove housing (2) from shaft (11).
- f. Remove preformed packing (12) and gasket (7). Discard packing and gasket.
- g. Inspect all parts for damage. Turn in damaged parts and set good parts aside for later use.

INSTALL

2. INSTALL FRONT HOUSING ASSEMBLY (1) ON TEST PROBE REAR HOUSING (2).
 - a. Install new gasket (7) on front housing (1), install new preformed packing (12) on shaft (11) and slide front housing (1) down over shaft (11).
 - b. Install three screws (9) holding retainer (10) to front housing (1).
 - c. Apply a thin coat of adhesive to threads of three screws (6). Install three screws (6) holding rear housing (2) to front housing (1).
 - d. Install insulation sleeving (5) on probe tip (4).
 - e. Install probe tip (4).
 - f. Install protective cap (3) on front housing (1).

END OF TASK

REPLACE TEST PROBE CIRCUIT CARD ASSEMBLY**0101 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

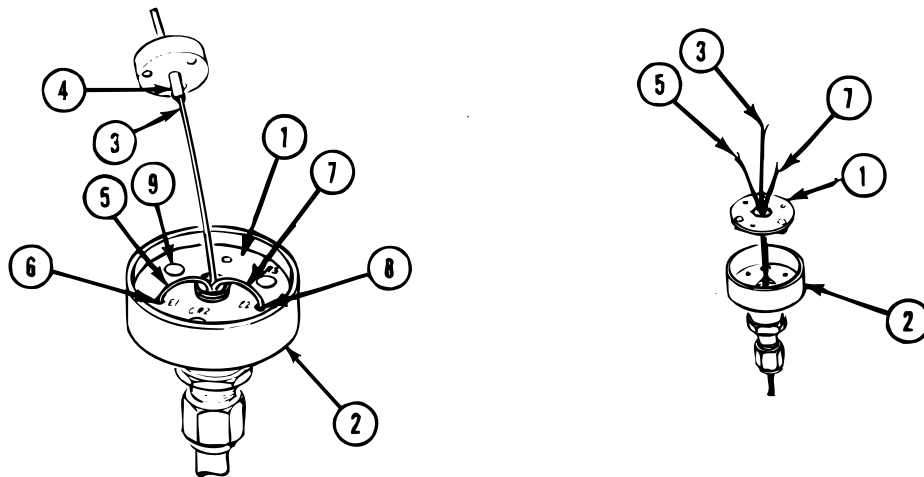
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove test probe front housing assembly; refer to WP 0100 00.

Materials/Parts:

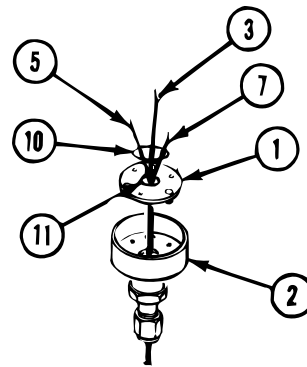
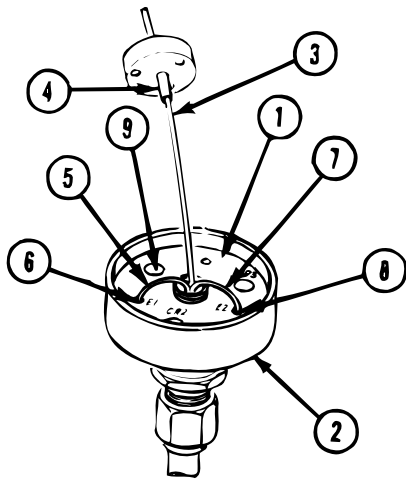
Adhesive (Item 1, WP 0210 00)
Circuit Card Assembly

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE TEST PROBE CIRCUIT CARD ASSEMBLY (1) FROM TEST PROBE REAR HOUSING (2).
 - a. Remove white wire (3) connected to shaft (4).
 - b. Remove red wire (5) connected to terminal E1 (6) on circuit card assembly (1).
 - c. Remove black wire (7) connected to terminal E2 (8) on circuit card assembly (1).
 - d. Remove circuit card assembly (1) from rear housing (2) and turn in.
 - e. Remove adhesive from rear housing LED holes (9).

**INSTALL**

2. INSTALL TEST PROBE CIRCUIT CARD ASSEMBLY (1) INTO TEST PROBE REAR HOUSING (2).
 - a. Apply a bead of adhesive around each LED (9) on new circuit card assembly (1). Position new circuit card (1) in rear housing (2) with three wires (10) through hole (11) in center of circuit card assembly (1).
 - b. Install red wire (5) to terminal E1 (6) on circuit card assembly (1).
 - c. Install black wire (7) to terminal E2 (8) on circuit card assembly (1).
 - d. Install white wire (3) to probe shaft (4).

END OF TASK

REMOVE/INSTALL TEST PROBE CONNECTOR

0102 00

THIS WORK PACKAGE COVERS:

Removal, Installation

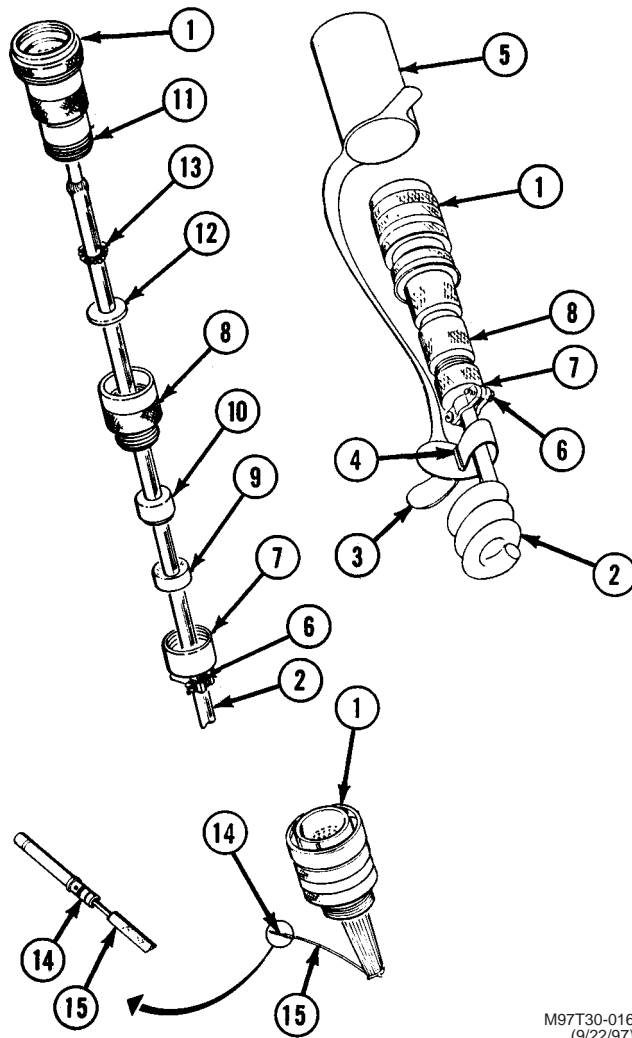
INITIAL SETUP

Tools:

Calibration Specialist Tool Kit

SC 6695-92-A05

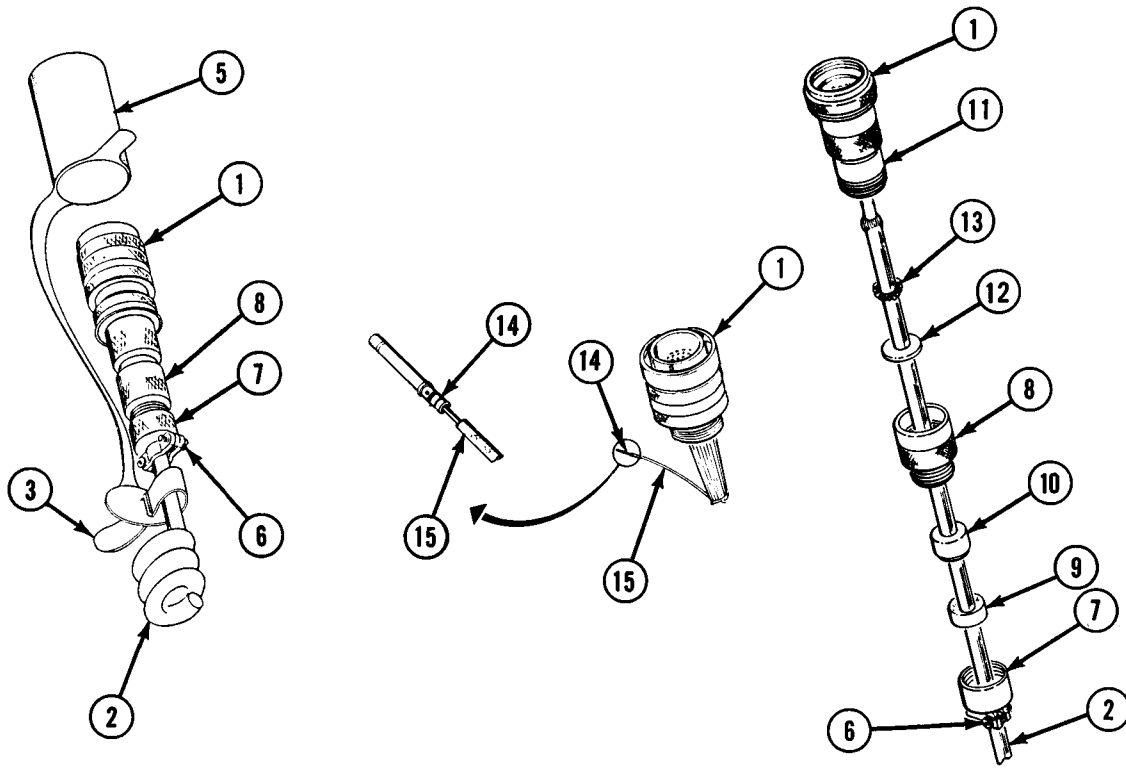
Maintenance Kit, Electrical Connector 13440042



M97T30-016
(9/22/97)

NOTE

Read WP 0043 00 before doing any work.



M97T30-018
(9/23/97)

REMOVE

1. REMOVE TEST PROBE CONNECTOR (1) FROM TEST PROBE CABLE ASSEMBLY (2).
 - a. Remove dust cover strap (3) from locking hole (4) and remove dust cover (5).
 - b. Remove two clamp screws (6) and clamp (7) from adapter (8). Slide clamp (7), bushing (9), and packing (10) down cable assembly (2).
 - c. Remove adapter (8) from backshell (11) and slide adapter (8), washer (12), and spring (13) down cable assembly (2).
 - d. Remove backshell (11) from connector (1).
 - e. Remove contacts (14) from connector (1) using insert-extract tool.

NOTE

To remove connector, repeat step e and take out all contacts in connector (1).
Get rid of bad connector. To repair connector by replacing bad contacts, continue with step f.

- f. Remove defective contacts (14) from wires (15).

REMOVE/INSTALL TEST PROBE CONNECTOR - CONTINUED

0102 00**INSTALL**

2. INSTALL TEST PROBE CONNECTOR (1) ON TO TEST PROBE CABLE ASSEMBLY (2).
 - a. Install new contacts (14) on wires (15) and install into connector (1) using insert-extract tool.
 - b. Install backshell (11) on connector (1).
 - c. Slide spring (13), washer (12), and adapter (8) onto backshell (11) and install adapter (8).
 - d. Slide packing (10), bushing (9), and clamp (7) into place on adapter (8) and install clamp (7).
 - e. Install two clamp screws (6).
 - f. Install connector dust cover (5) and strap (3).

END OF TASK

REPLACE TEST PROBE ASSEMBLY

0103 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

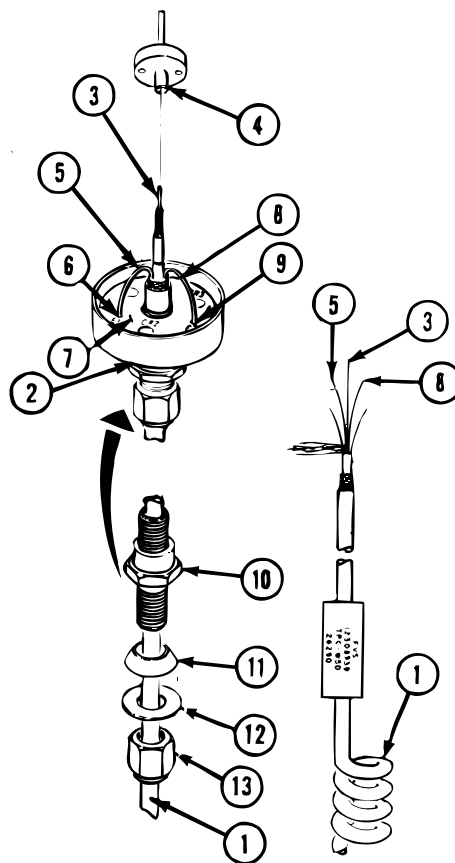
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove test probe front housing assembly; refer to WP 0100 00.

Materials/Parts:

Cable Assembly
Insulation Sleeve (as required)



NOTE

Read WP 0043 00 before doing any work.

REMOVE

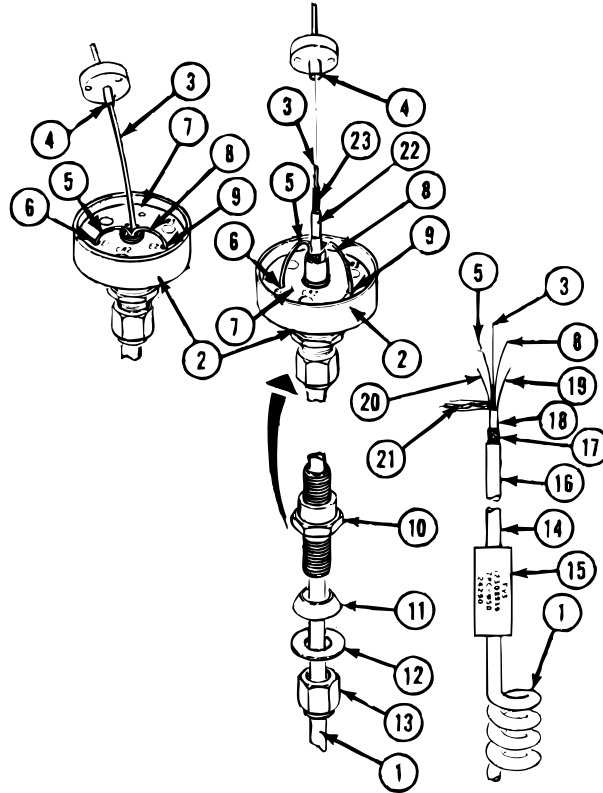
1. REMOVE TEST PROBE CABLE ASSEMBLY (1) FROM TEST PROBE TPC-W50 REAR HOUSING (2).
 - a. Remove white wire (3) connected to shaft (4).
 - b. Remove red wire (5) connected to terminal E1 (6) on circuit card (7).

REPLACE TEST PROBE ASSEMBLY - CONTINUED

0103 00

REMOVE – Continued

- c. Remove black wire (8) connected to terminal E2 (9) on circuit card (7).
- d. Remove fitting (10) from rear housing (2) and remove cable assembly (1).
- e. Remove fitting (10), seal (11), washer (12), and cap (13) from cable (1).
- f. Inspect all parts for damage. If damaged, turn in; if OK, set aside for later use.



INSTALL

2. INSTALL TEST PROBE CABLE ASSEMBLY (1) INTO TEST PROBE TPC-W50 REAR HOUSING (2).

- a. Place new cable (1) on workbench. Cut straight end (14) to 18 inches.
- b. Cut and mark a piece of new insulation sleeving (15) 1 3/8-inches long and mark as follows:

FVS
12309939
TPC-W50
24290

- c. Install sleeving (15) on cable (1). Do not shrink sleeving.
- d. Strip outer cable insulation (16), outer shield (17) and inner cable insulation (18) back about 2 inches from end of cable (1) to expose white (3), black (8), red (5), yellow (19), green (20) wires and reinforcing strings (21).

INSTALL – Continued

- e. Cut yellow (19) and green (20) wires and reinforcing strings (21) off at end of outer shield.
- f. Strip black (8) and red (5) wire insulation back 1/8-inch.
- g. Strip 2 inches of shield (22) from white wire (3). Strip 1/8-inch of inner insulation (23) from white wire (3).
- h. Install cap (13), washer (12), seal (11), fitting (10), and rear housing (2) with circuit card (7) on cable (1).
- i. Install fitting (10) into rear housing (2).
- j. Pull cable through circuit board (7) until wire extends 2 inches above circuit board card (7).
- k. Install cap (13) onto fitting (10) and tighten hand tight plus 1/2 turn.
- l. Position insulation sleeving (15) on cable 6 inches from cap (13) and shrink in place.
- m. Install red wire (5) on terminal E1 (6), black wire (8) on terminal E2 (9) of circuit card (7) and white wire (3) onto end of shaft (4).

END OF TASK

REPLACE MEMORY MODULE TURNLOCK STUD FASTENER**0104 00****THIS WORK PACKAGE COVERS:**

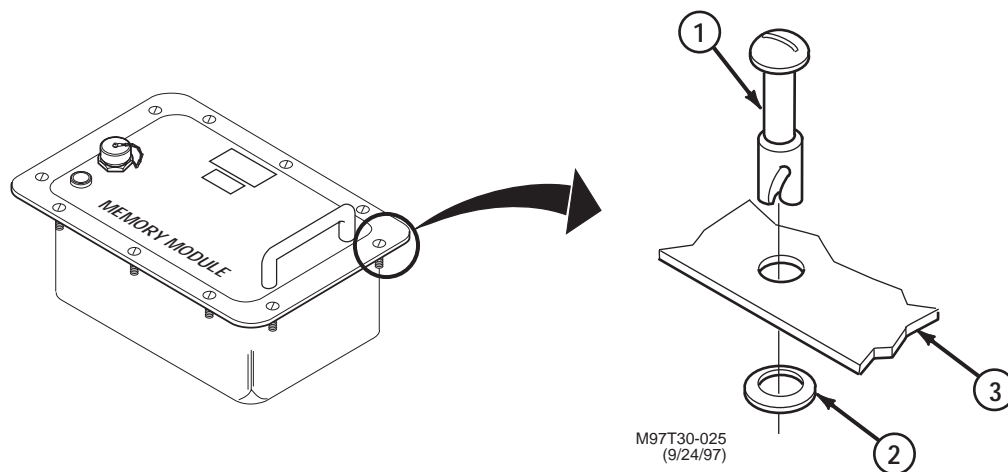
Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Grommet
Turnlock Fastener Stud

**NOTE**

Use this task to remove or install any memory module turnlock stud fastener.

REMOVE

1. REMOVE TURNLOCK STUD FASTENER (1) AND GROMMET (2) FROM MEMORY MODULE (3).
 - a. Remove grommet (2) from turnlock stud fastener (1). Use diagonal cutting pliers.
 - b. Remove turnlock stud fastener (1) from memory module (3). Discard turnlock fastener stud and grommet.

INSTALL

2. INSTALL NEW TURNLOCK STUD FASTENER (1) AND GROMMET (2) IN MEMORY MODULE (3).
 - a. Put turnlock stud fastener (1) in hole in memory module (3).
 - b. Put new grommet (2) over end of turnlock stud fastener (1).
 - c. Press edge of grommet (2) until it will not slide off turnlock stud fastener (1).

END OF TASK

REMOVE/INSTALL MEMORY MODULE COVER ASSEMBLY

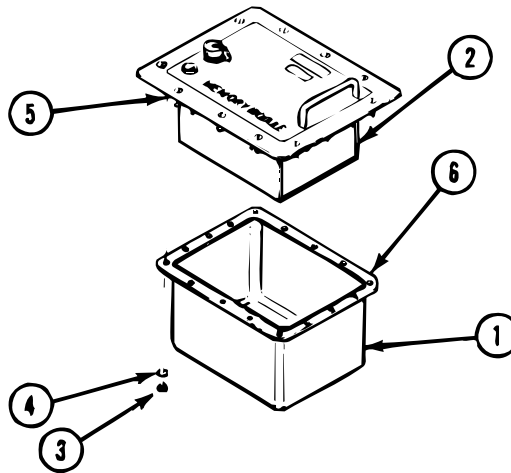
0105 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP**Tools:**Calibration Specialist Tool Kit
SC 6695-92-A05**Materials/Parts:**

Lockwasher (16)

**REMOVE**

1. REMOVE COVER ASSEMBLY (1) FROM MEMORY MODULE (2).
 - a. Remove sixteen nuts (3) and lockwashers (4) from turnlock stud fasteners (5) on memory module (2). Discard lockwashers.
 - b. Take memory module (2) from cover assembly (1).
 - c. Inspect RFI gasket (6) for cracks or breaks. If bad, replace RFI gasket (6); refer to WP 0113 00.

INSTALL

2. Install cover assembly (1) on memory module (2).
 - a. Place cover assembly (1) in position on memory module (2).
 - b. Install 16 nuts (3) and new lockwashers (4) on 16 turnlock stud fasteners (5) on memory module (2).

END OF TASK

REPLACE MEMORY MODULE CIRCUIT CARD ASSEMBLY A1 THRU A3**0106 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

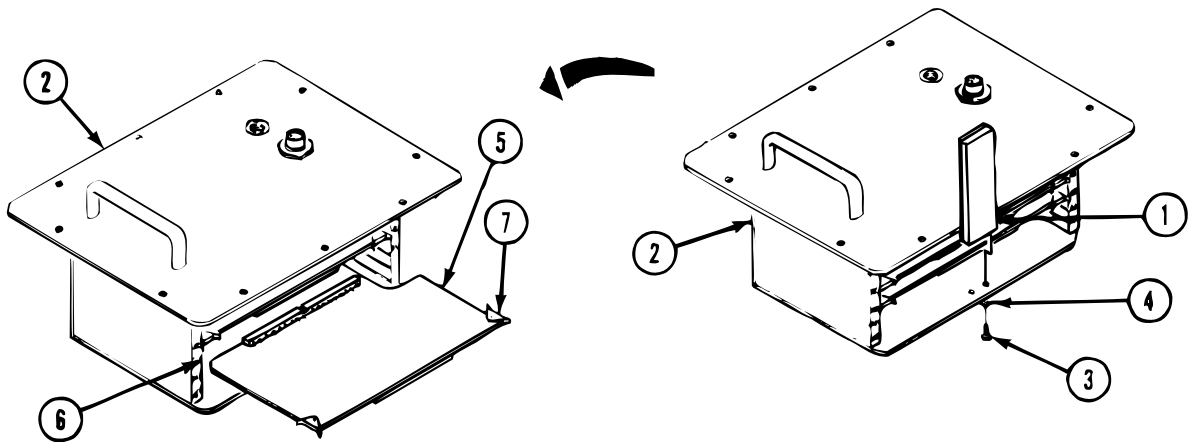
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove cover assembly from memory module; refer to WP 0105 00.

Materials/Parts:

Circuit Card
Lockwasher (2)

**CAUTION**

When replacing circuit card A2 or A3, make sure the DSPS level of replacement circuit card matches the DSPS level of memory module. DSPS level stickers are on circuit card frame and memory module front panel. Mismatched DSPS levels can cause test set failure or incorrect LRU diagnosis.

NOTE

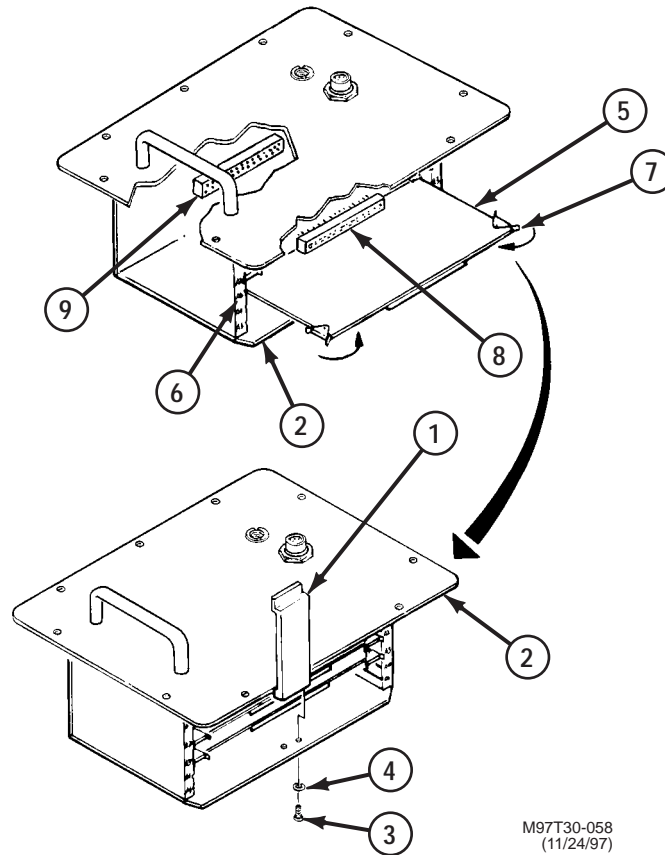
Use this task to remove circuit card assemblies A1, A2, and A3 from the memory module. Circuit card A3 is shown.

REMOVE

1. REMOVE LOCKING BAR (1) FROM MEMORY MODULE (2).
 - a. Remove two screws (3) and lockwashers (4) holding locking bar (1) to memory module (2). Discard lockwashers.
 - b. Remove locking bar (1) from memory module (2) and set aside for later use.

REMOVE – Continued

2. REMOVE CIRCUIT CARD (5) FROM MEMORY MODULE (2).
 - a. Identify circuit card (5) to be removed by designator printed on card guide (6).
 - b. Pull up on circuit card tabs (7) and remove circuit card (5) from memory module (2).

**INSTALL**

3. INSTALL CIRCUIT CARD (5) IN MEMORY MODULE (2).
 - a. Place circuit card (5) in position in memory module (2) and align circuit card connector (8) with connector (9) in memory module.
 - b. Press down on circuit card tabs (7) until circuit card (5) seats into position.
4. INSTALL LOCKING BAR (1) ON MEMORY MODULE (2) WITH TWO SCREWS (3) AND NEW LOCKWASHERS (4).

END OF TASK

REPLACE MEMORY MODULE VOLTAGE REGULATOR**0107 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

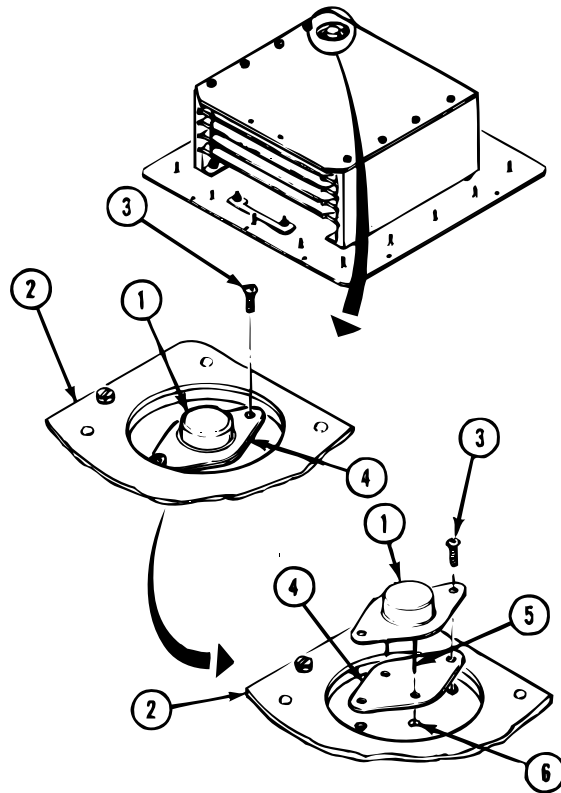
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove memory module access cover; refer to WP 0105 00.

Materials/Parts:

Voltage Regulator

**REMOVE**

1. REMOVE VOLTAGE REGULATOR (1) FROM PLATE ASSEMBLY (2).
 - a. Remove two screws (3) from voltage regulator (1).
 - b. Pull voltage regulator (1) and insulator (4) from plate assembly (2).
 - c. Inspect insulator (4) for any cracks or breaks. If bad, discard insulator; if OK, set aside for later use.

INSTALL

2. INSTALL VOLTAGE REGULATOR (1) ON PLATE ASSEMBLY (2).
 - a. Place insulation (4) on back of voltage regulator (1).
 - b. Align voltage regulator terminals (5) with socket terminals (6) and push regulator into socket.
 - c. Install two screws (3).

END OF TASK

REPLACE MEMORY MODULE VOLTAGE REGULATOR SOCKET

0108 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

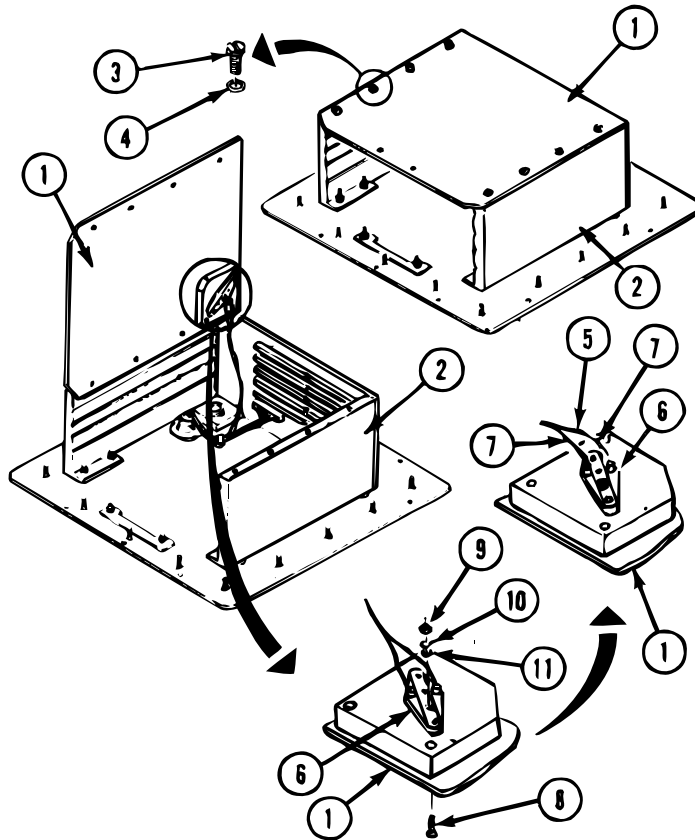
Remove cover assembly from memory module; refer to WP 0105 00.
Remove circuit card assembly A1 thru A33; refer to WP 0106 00.
Remove voltage regulator; refer to WP 0107 00.

Materials/Parts:

Insulation Sleeving
Lockwasher
Sealing Compound (Item 4, WP 0210 00)
Socket
Washer

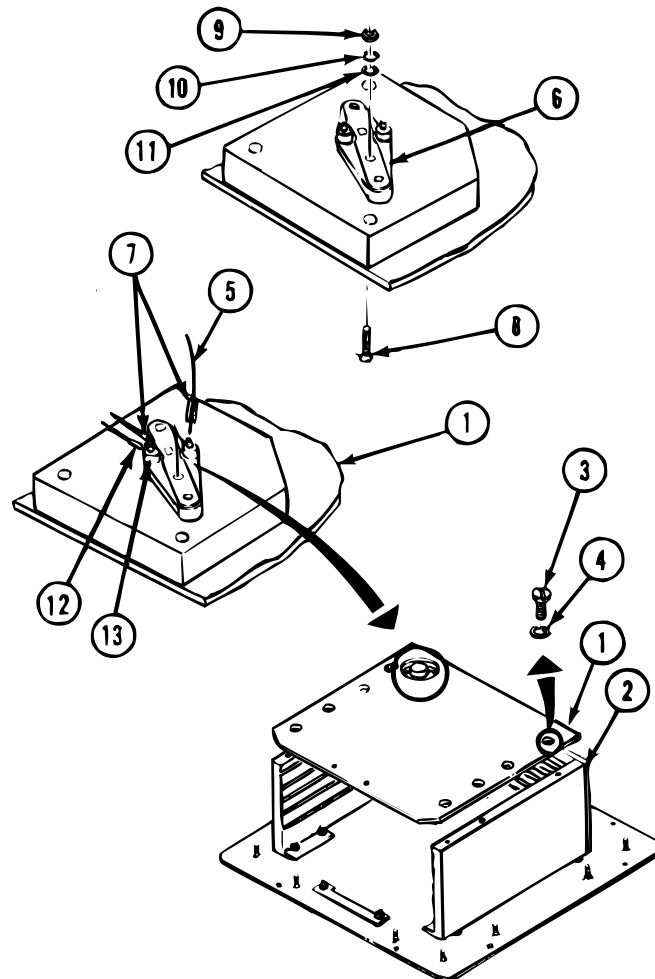
NOTE

Read WP 0043 00 before doing any work.



REMOVE

1. REMOVE PLATE ASSEMBLY (1) FROM MEMORY MODULE (2).
 - a. Remove eight screws (3) and lockwashers (4). Discard lockwashers.
 - b. Pull plate assembly (1) as far away from memory module (2) as wires (5) will allow.
2. REMOVE VOLTAGE REGULATOR SOCKET (6) FROM PLATE ASSEMBLY (1).
 - a. Unsolder three wires (5) from socket (6). Discard insulation sleeving (7).
 - b. Remove screw (8), nut (9), lockwasher (10), and plastic washer (11) from socket (6). Discard socket, lockwasher, and plastic washer.

**INSTALL**

3. INSTALL NEW VOLTAGE REGULATOR SOCKET (1) ON PLATE ASSEMBLY (2).
 - a. Place socket (1) in position on plate assembly (1) and put screw (8) through plate assembly (1) and socket (6).
 - b. Apply light coat of sealing compound to threads of screw (8) projecting thru socket (1).
 - c. Install new plastic washer (11), new lockwasher (10), and nut (9) on screw (8).
4. INSTALL PLATE ASSEMBLY (1) ON MEMORY MODULE (2).
 - a. Cut two 1/2-inch pieces of new insulation sleeving (7) and one 3/4-inch piece of new insulation sleeving (12).
 - b. Put insulation sleeving (7) and (12) on three wires (5) and solder wires to socket terminals (13).
 - c. Place plate assembly (1) in position on memory module (2).
 - d. Apply thin coat of sealing compound to threads of eight screws (3).
 - e. Install eight screws (3) and new lockwashers (4) in plate assembly (1).

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Repair, Installation

INITIAL SETUP

Tools:

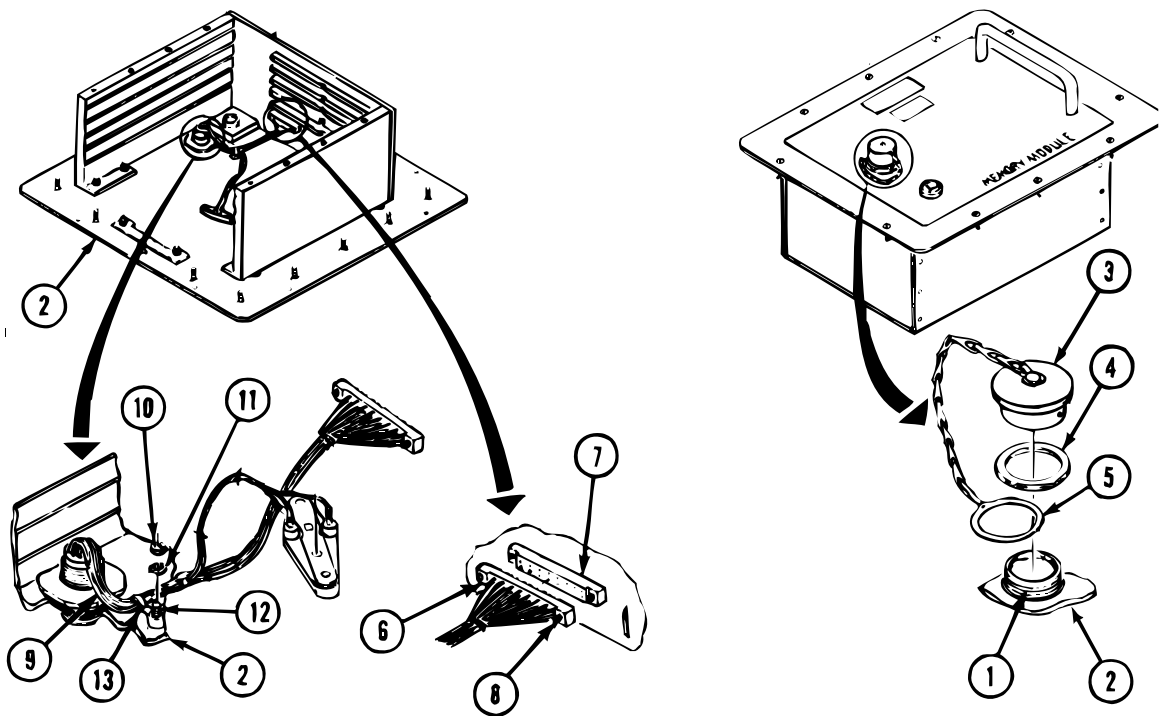
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove memory module cover assembly; refer to WP 0105 00.
Remove circuit card assembly A1 thru A3; refer to WP 0106 00.
Remove voltage regulator; refer to WP 0107 00.
Remove voltage regulator socket; refer to WP 0108 00.

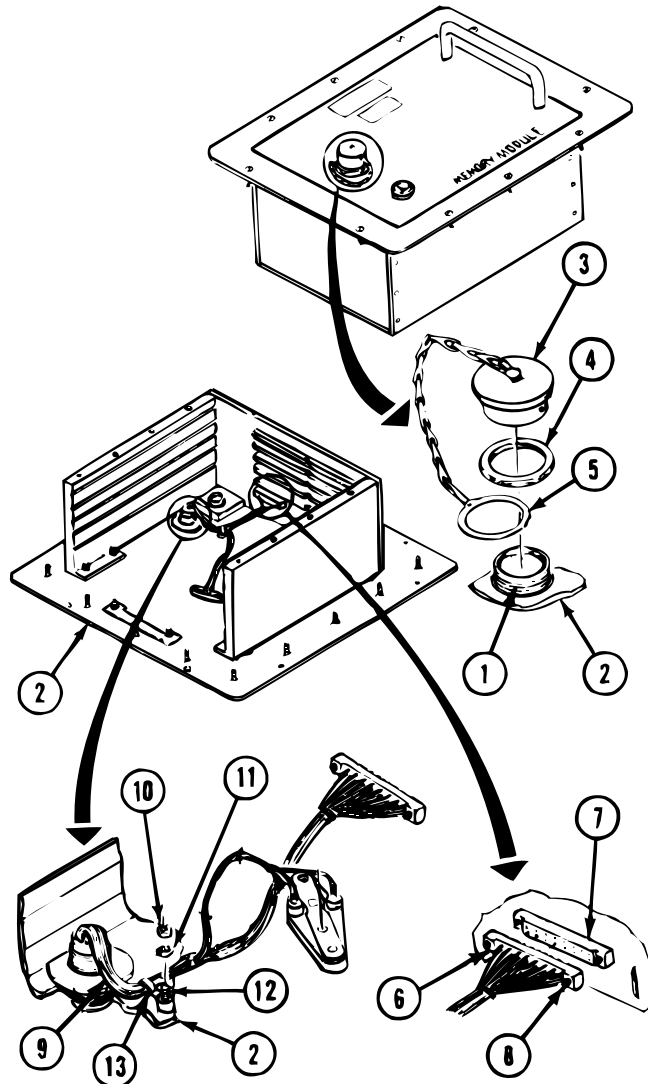
Materials/Parts:

Lockwasher
Sealing Compound (Item 4, WP 0210 00)



NOTE

Read WP 0043 00 before doing any work.



REMOVE

1. REMOVE CONNECTOR J1 (1) FROM PANEL (2).
 - a. Remove protective cover (3), connector jam nut (4), and protective cover ring (5) from connector J1 (1).
 - b. Pull connector J1 (1) from panel (2).

2. REMOVE CONNECTOR PLUG PI (6) FROM BACKPLANE SOCKET (7).
 - a. Loosen two screws (8) holding connector plug PI (6) on backplane socket (7).
 - b. Pull connector plug PI (6) from backplane socket (7).

3. REMOVE HARNESS ASSEMBLY (9) FROM MEMORY MODULE (2).
 - a. Remove nut (10) and lockwasher (11) from stud (12). Discard lockwasher.
 - b. Lift cable clamp (13) clear of stud (12) and remove harness assembly (9) from memory module (2).

REPAIR/REPLACE

4. TO REPAIR OR REPLACE CONNECTOR J1, REFER TO TM 9-4931-586-12-1&P.

INSTALL

5. INSTALL HARNESS ASSEMBLY (9) IN MEMORY MODULE (2).
 - a. Put connector J1 (1) with gasket in panel (2).
 - b. Place connector plug (6) in backplane socket (7) and tighten two screws (8).
 - c. Apply a thin coat of sealing compound to threads of stud (12).
 - d. Install clamp (13), new lockwasher (11), and nut (10) on stud (12).
6. INSTALL CONNECTOR PROTECTIVE COVER RING (5), NUT (4), AND PROTECTIVE COVER (3) ON CONNECTOR J1 (1).

END OF TASK

REPLACE MEMORY MODULE CIRCUIT CARD ASSEMBLY BACKPLANE

0110 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

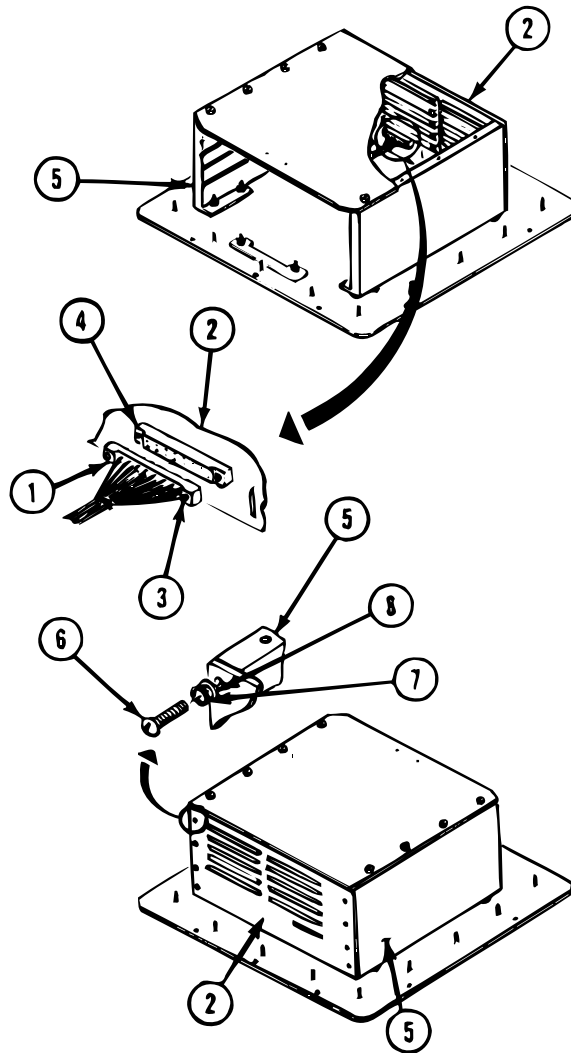
Calibration Specialist Tool Kit
SC 6695-92-A05

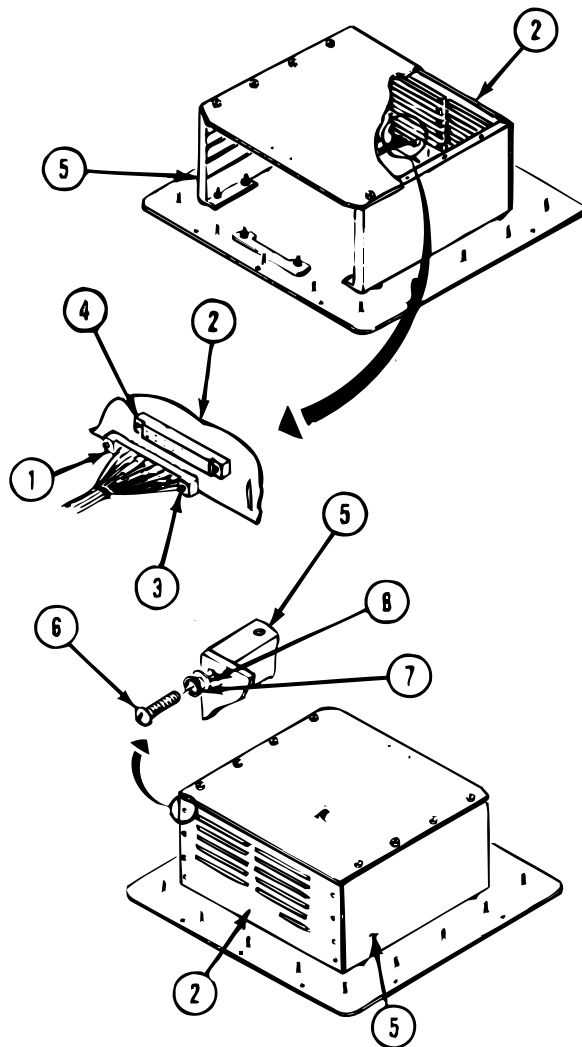
Equipment Conditions:

Remove memory module cover assembly; refer to WP 0105 00.
Remove circuit card assemblies; refer to WP 0106 00.

Materials/Parts:

Circuit Card Assembly Backplane
Lockwasher (8)
Washer (8)





REMOVE

1. REMOVE CONNECTOR (1) FROM CIRCUIT CARD ASSEMBLY BACKPLANE (2).
 - a. Loosen two screws (3) in connector plug (1).
 - b. Pull connector plug (1) from connector socket (4).

2. REMOVE CIRCUIT CARD ASSEMBLY BACKPLANE (2) FROM CIRCUIT CARD GUIDES (5).
 - a. Remove eight screws (6), lockwashers (7), and plastic washers (8) holding backplane (2) to two guides. Discard lockwashers and plastic washers. Turn in backplane (2).

INSTALL

3. INSTALL NEW CIRCUIT CARD ASSEMBLY BACKPLANE (2) ON CIRCUIT CARD GUIDES (5).
 - a. Place backplane (2) in position on two guides (5).
 - b. Install eight screws (6), new lockwashers (7), and new plastic washers (8).
4. INSTALL CONNECTOR PLUG (1) IN CONNECTOR SOCKET (4) ON BACKPLANE (2) AND TIGHTEN TWO SCREWS (3).

END OF TASK

REPLACE MEMORY MODULE BACKPLANE CONNECTOR PLUG**0111 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

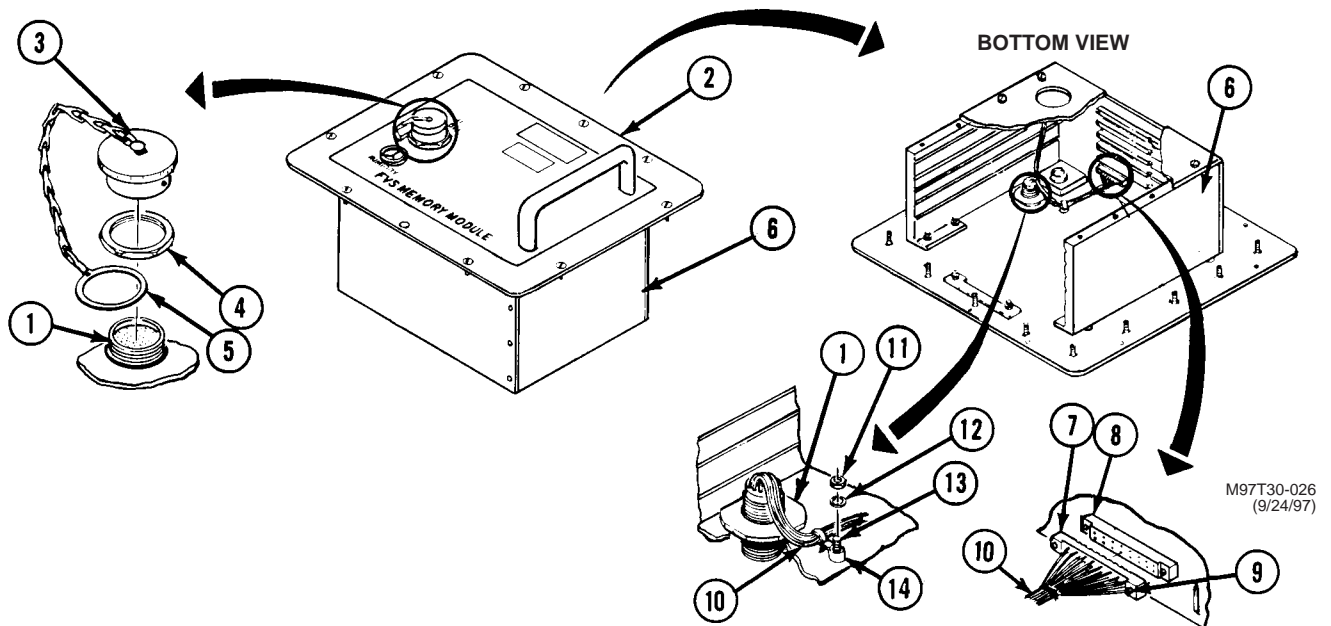
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Connector
Insulation Sleeving
Lockwasher

Equipment Conditions:

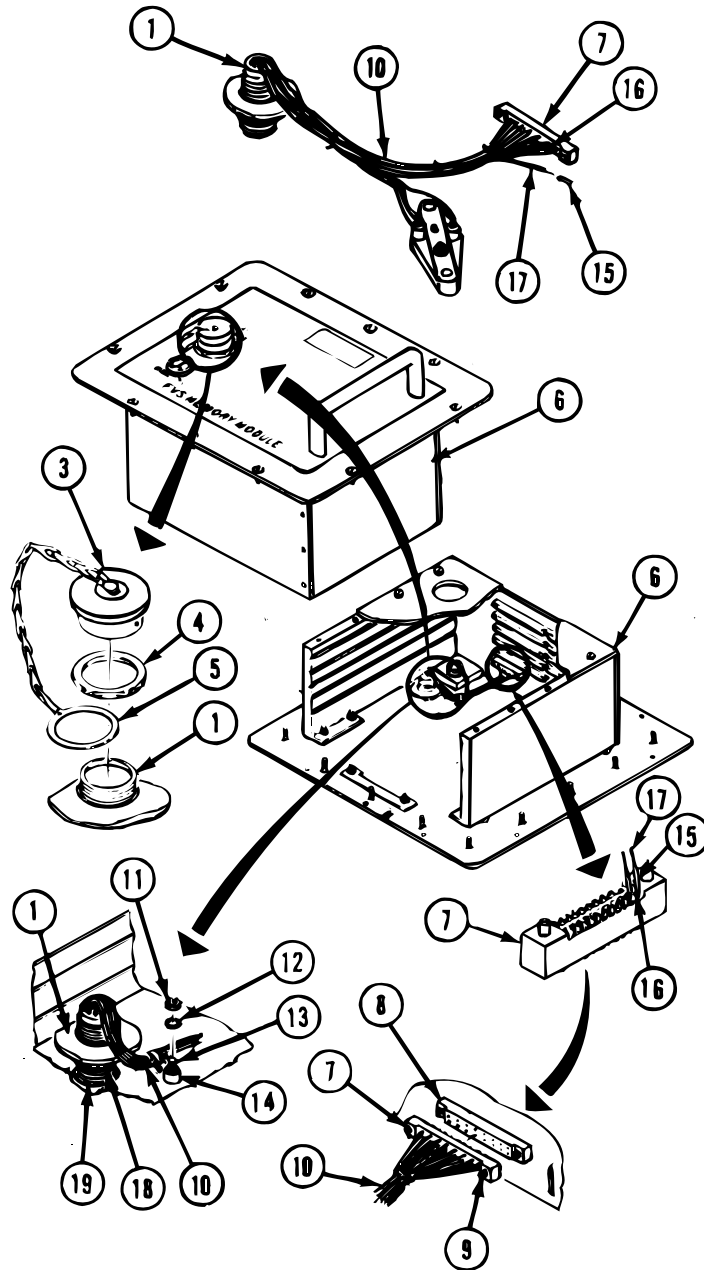
Remove memory module cover assembly; refer to WP 0105 00.
Remove circuit card assemblies; refer to WP 0106 00.
Remove voltage regulator; refer to WP 0107 00.
Remove voltage regulator socket; refer to WP 0108 00.

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR J1 (1) FROM PANEL (2).
 - a. Remove protective cover (3), connector jam nut (4), and protective cover ring (5) from connector J1 (1).
 - b. Pull connector J1 (1) from panel (2) into memory module assembly (6).
2. REMOVE CONNECTOR PLUG P1 (7) FROM BACKPLANE SOCKET (8).
 - a. Loosen two screws (9) holding connector plug P1 (7) in backplane socket (8).
 - b. Pull connector plug P1 (7) from backplane socket (8).
3. REMOVE HARNESS ASSEMBLY (10) FROM MEMORY MODULE (6).
 - a. Remove nut (11) and lockwasher (12) from stud (13). Discard lockwasher (12).
 - b. Lift cable clamp (14) clear of stud (13) and remove harness assembly (10) from memory module (6).



REMOVE – Continued

4. REMOVE CONNECTOR PLUG P1 (7) FROM HARNESS ASSEMBLY (10).
 - a. Remove insulation sleeving (15) from terminals (16).
 - b. Unsolder wires (17) from terminals (16).
 - c. Discard connector plug P1 (7) and insulation sleeving (15).

REPLACE MEMORY MODULE BACKPLANE CONNECTOR PLUG - CONTINUED

0111 00**INSTALL**

5. INSTALL NEW CONNECTOR PLUG P1 (7) ON HARNESS ASSEMBLY (10).
 - a. Cut 3/8-inch pieces of new insulation sleeving (15) and slide sleeving on each wire (17).
 - b. Solder wires (17) to terminals (16) on connector plug P1 (7).
6. INSTALL HARNESS ASSEMBLY (10) IN MEMORY MODULE (6).
 - a. Put connector J1 (1) in panel mounting hole (18). Make sure gasket (19) is on connector J1 (1).
 - b. Install connector plug P1 (7) on backplane socket (8). Tighten two screws (9).
 - c. Put cable clamp (14) over stud (13).
 - d. Install new lockwasher (12) and nut (11) on stud (13).
7. INSTALL PROTECTIVE COVER RING (5), CONNECTOR JAM NUT (4), AND PROTECTIVE COVER (3) ON CONNECTOR J1 (1).

END OF TASK

REPLACE MEMORY MODULE HANDLE**0112 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

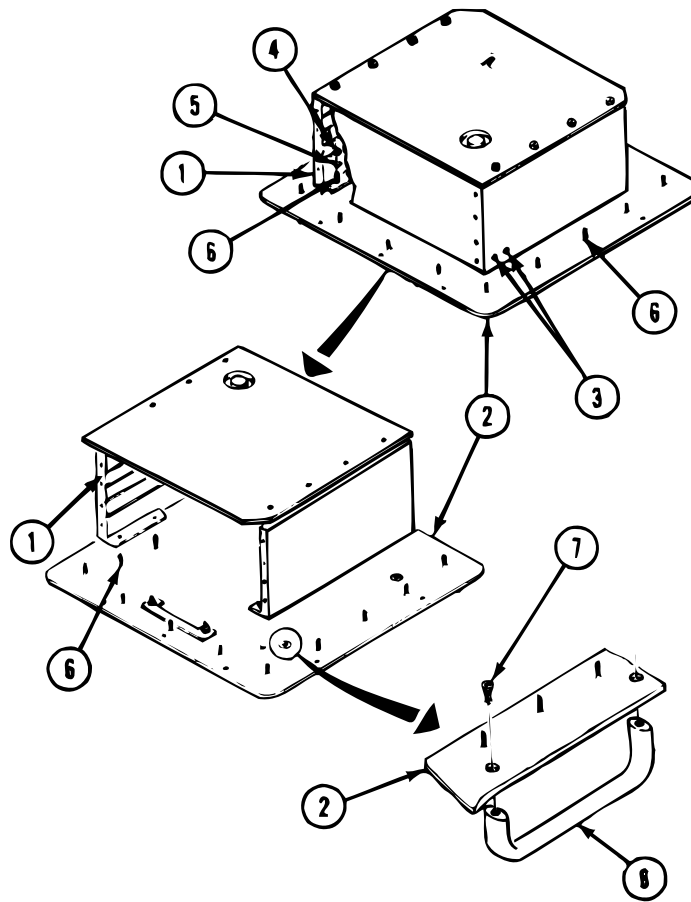
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

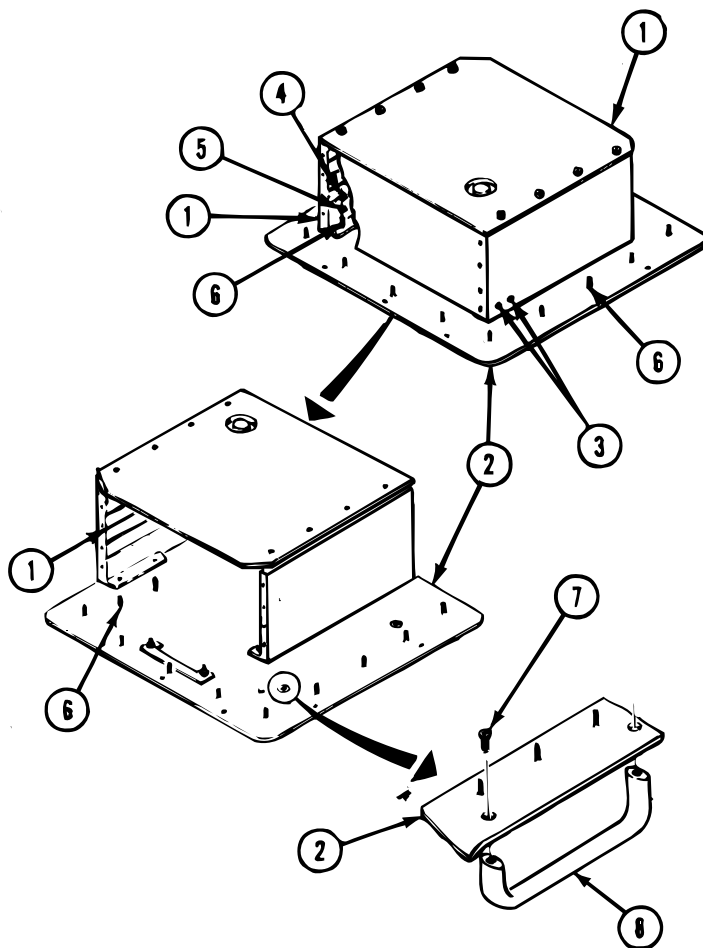
Remove memory module cover assembly; refer to WP 0105 00.
Remove circuit card assemblies; refer to WP 0106 00.

Materials/Parts:

Handle
Lockwasher
Sealing Compound (Item 4, WP 0210 00)

**REMOVE**

1. REMOVE CARD CAGE GUIDES (1) FROM PANEL ASSEMBLY (2).
 - a. Remove two screws (3) from guide (1).
 - b. Remove eight nuts (4) and lockwashers (5) holding two card cage guides (1) to panel (2). Discard lockwashers.
 - c. Lift two card cage guides (1) clear of studs (6) and move card guides to gain access to handle screws (7).
2. REMOVE TWO SCREWS (7) HOLDING HANDLE (8) TO PANEL ASSEMBLY (2). DISCARD HANDLE.

**INSTALL**

3. INSTALL NEW HANDLE (8) ON PANEL (2).
 - a. Apply a thin coat of sealing compound to threads of two screws (7).
 - b. Place handle (8) in position on panel assembly (2) and install two screws (7).
4. INSTALL CARD CAGE GUIDES (1) ON PANEL ASSEMBLY (2).
 - a. Apply thin coat of sealing compound to threads of eight studs (6).
 - b. Mount card cage guides (1) on eight studs (6).
 - c. Install eight nuts (4) and new lockwashers (5).
 - d. Install two screws (3) in card cage guide (1).

END OF TASK

REPLACE MEMORY MODULE RFI GASKET

0113 00

THIS WORK PACKAGE COVERS:

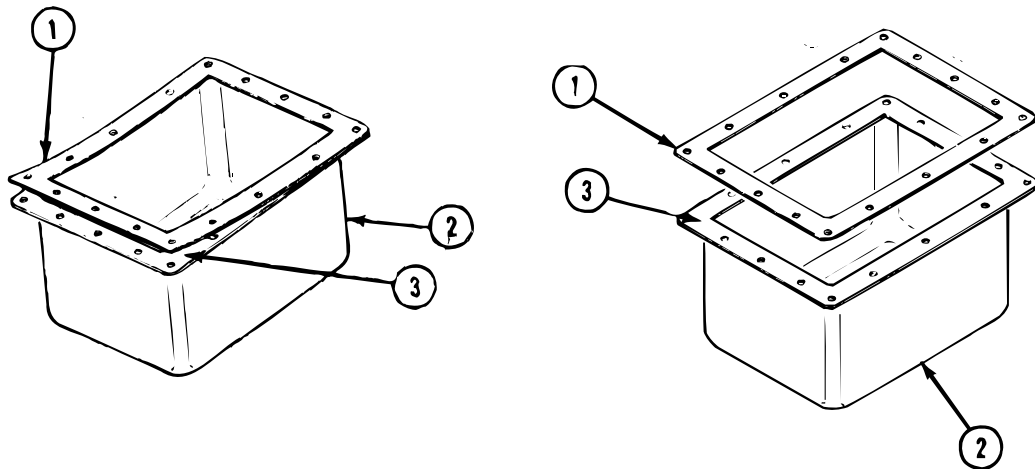
Removal, Installation

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Acid Swabbing Brush (Item 2, WP 0210 00)
Adhesive (Item 1, WP 0210 00)
Gasket
Solvent (Item 5, WP 0210 00)
Wiping Rag (Item 3, WP 0210 00)

**REMOVE**

1. REMOVE GASKET (1) FROM COVER (2).
 - a. Scrape off gasket (1) and adhesive with knife. Discard gasket.
 - b. Clean mounting surface (3) with solvent and rag.

WARNING

Adhesives and solvents burn easily and can give off harmful vapors. To avoid injury, keep away from open fire and use in a well ventilated area. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

INSTALL

2. INSTALL NEW GASKET (1) ON COVER (2).
 - a. Apply thin coat of adhesive to mounting surface (3) with brush.
 - b. Place gasket (1) on mounting surface (3). Align 16 screw holes in gasket (1) with holes in mounting surface (3) and press gasket in place.

END OF TASK

THIS WORK PACKAGE COVERS:

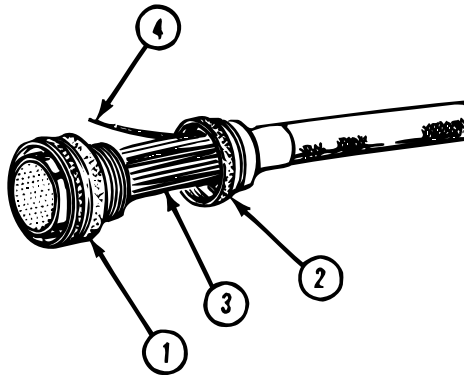
Removal, Inspection, Repair, Installation

INITIAL SETUP**Tools:**

Maintenance Kit Electrical Connector
13440042
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Connector (as required)
Contact (as required)

**NOTE**

Read WP 0043 00 before doing any work.

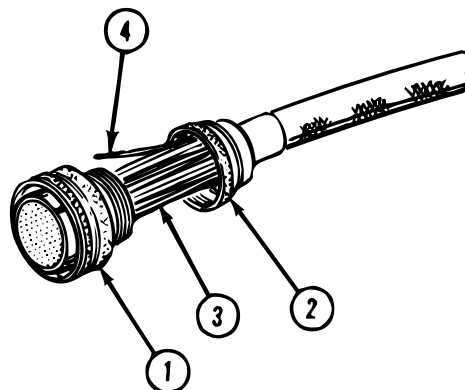
REMOVE

1. REMOVE CONNECTOR (1) FROM COUPLING NUT (2).
 - a. Using connector holding pliers and strap wrench, unscrew coupling nut (2) from connector (1).
 - b. Pull connector (1) away from coupling nut (2) as far as wires (3) will allow.

NOTE

If repairing wire(s) (3) do steps 2a and b. If replacing electrical connector, do steps 2a and c.

2. REMOVE CONTACT(S) (4) FROM CONNECTOR (1).
 - a. Using insert-extract tool, take contact (4) out of connector (1).
 - b. Repeat step 2a until all bad contacts are removed.
 - c. Repeat step 2a until all contacts are removed to replace connector.

**INSPECT**

3. INSPECT CONNECTOR (1) FOR CRACKS OR BREAKS.

- a. If bad, turn in connector (1).
- b. If OK, set aside for later use.

REPAIR

4. REPAIR WIRE(S) (3).

- a. Using pliers, cut bad contact (4) from wire (3). Discard bad contact.
- b. Using wire stripper and crimping tool, put new contact (4) on wire (3).

INSTALL

5. INSTALL CONTACT(S) (4) IN CONNECTOR (1).

- a. Using insert-extract tool, put contact (4) in connector (1).
- b. Repeat step 5a until all contacts are installed.

6. INSTALL CONNECTOR (1) ON COUPLING NUT (2).

- a. Using connector holding pliers and strap wrench or soft jaw pliers, screw coupling nut (2) on connector (1).

END OF TASK

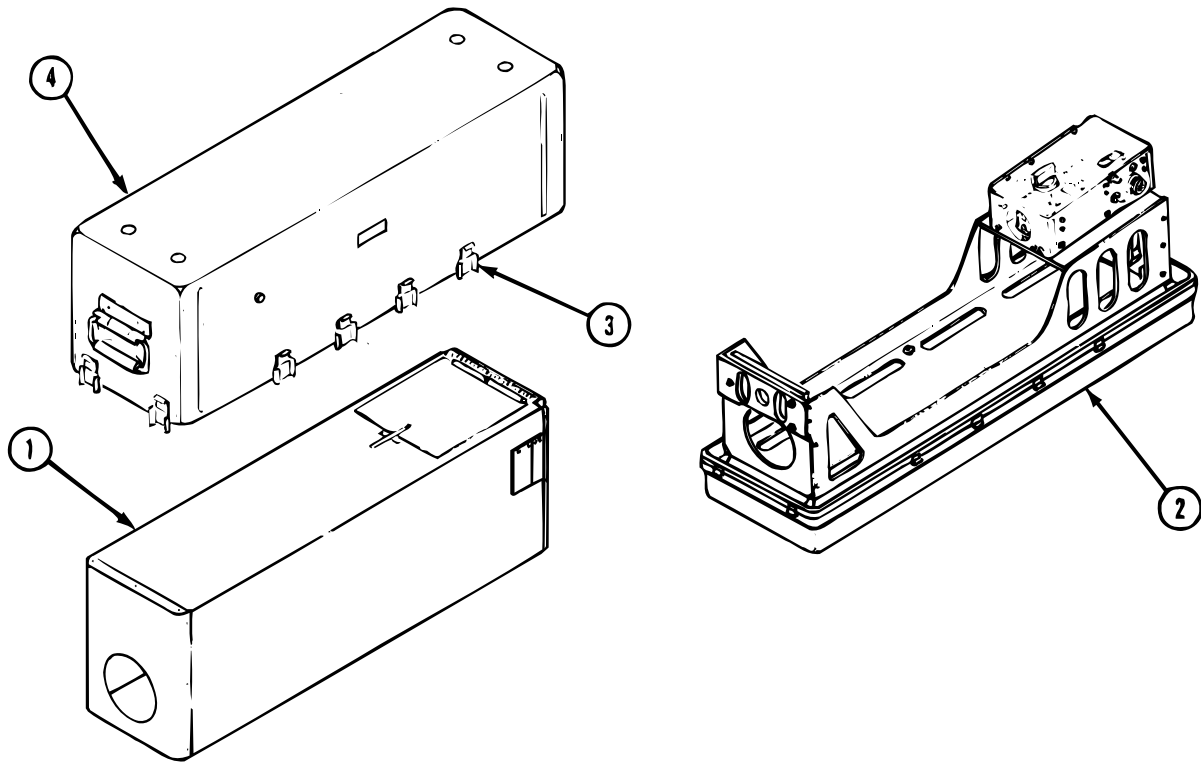
REMOVE/INSTALL COLLIMATOR SM-D-969722 SHROUD

0115 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP**Materials/Parts:**Shroud

REMOVE

1. REMOVE SHROUD (1) FROM THERMAL SIGHT COLLIMATOR (2).
 - a. Release 12 latches (3) and remove container case cover (4) from thermal sight collimator (2).
 - b. Remove shroud (1) from thermal sight collimator.

INSTALL

2. INSTALL SHROUD (1) ON THERMAL SIGHT COLLIMATOR (2).
 - a. Install shroud (1) on thermal sight collimator (2).
 - b. Install container case cover (4) on thermal sight collimator (2) and secure 12 latches (3).

END OF TASK

REMOVE/INSTALL COLLIMATOR SM-D-969722 COVERS

0116 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

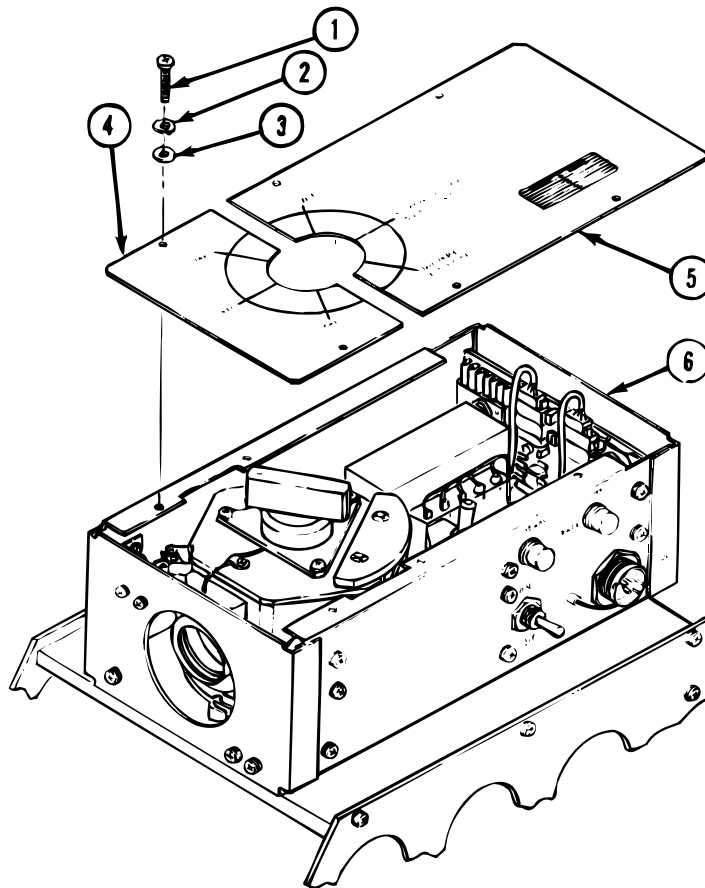
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.

Materials/Parts:

Lockwashers (6)
Covers

**NOTE**

Use this task to replace the left, right, or both covers.

REMOVE

1. REMOVE SIX SCREWS (1), LOCKWASHERS (2), FLAT WASHERS (3), LEFT COVER (4), AND RIGHT COVER (5) FROM TEMPERATURE CONTROLLER ASSEMBLY (6). DISCARD LOCKWASHERS.

INSTALL

2. INSTALL LEFT AND RIGHT COVERS (4, 5), SIX FLAT WASHERS (3), NEW LOCKWASHERS (2) AND SCREWS (1) ON TEMPERATURE CONTROLLER ASSEMBLY (6).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 READY AND POWER ON INDICATOR LAMPS**0117 00****THIS WORK PACKAGE COVERS:**

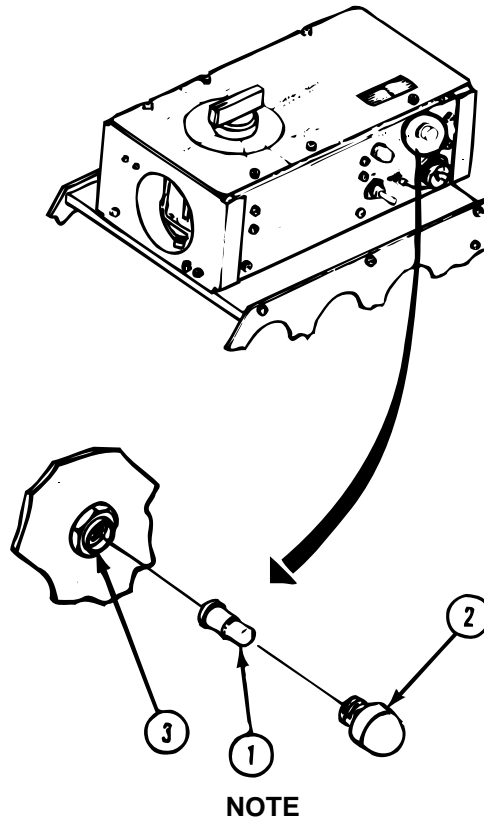
Removal, Installation

INITIAL SETUP**Material/Parts:**

Lamp

Equipment Conditions:

Remove shroud; refer to WP 0115 00.



Use this task to replace either the READY or POWER ON indicator lamps. POWER ON indicator lamp is shown.

REMOVE

1. REMOVE INDICATOR LAMP (1).
 - a. Unscrew lens cap (2) from lampholder (3).
 - b. Pull lamp (1) from lampholder (3).

INSTALL

2. INSTALL NEW INDICATOR LAMP (1).
 - a. Insert lamp (1) into lampholder (3).
 - b. Install lens cap (2) on lampholder (3).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 TARGET SELECT KNOB**0118 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

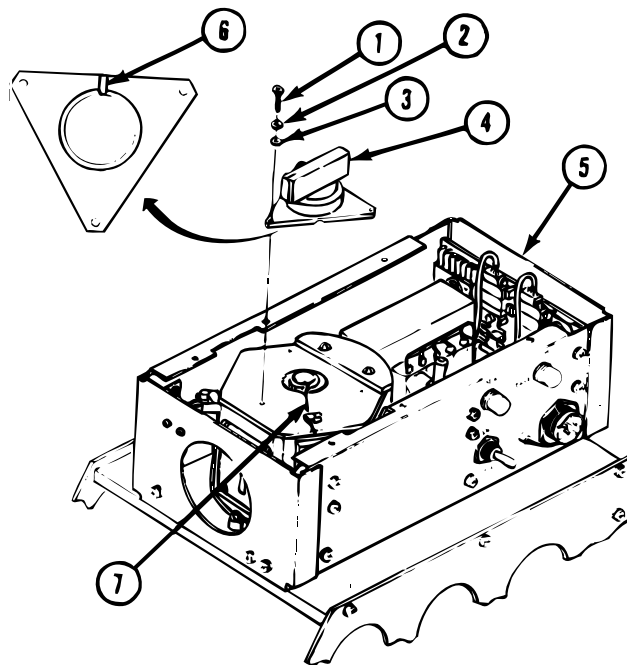
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Target Select Knob
Lockwashers (3)

**REMOVE**

1. REMOVE THREE SCREWS (1), LOCKWASHERS (2), FLAT WASHERS (3), AND TARGET SELECT KNOB (4) FROM TEMPERATURE CONTROLLER ASSEMBLY (5). DISCARD LOCKWASHERS.

INSTALL

2. INSTALL NEW TARGET SELECT KNOB (4) ON TEMPERATURE CONTROLLER ASSEMBLY (5).
 - a. Position target select knob (4) on temperature controller assembly (5) so that channel (6) is over wire (7).
 - b. Install three screws (1), new lockwashers (2), and flat washers (3) to secure target select knob (4).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 CIRCUIT BREAKER CB1

0119 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

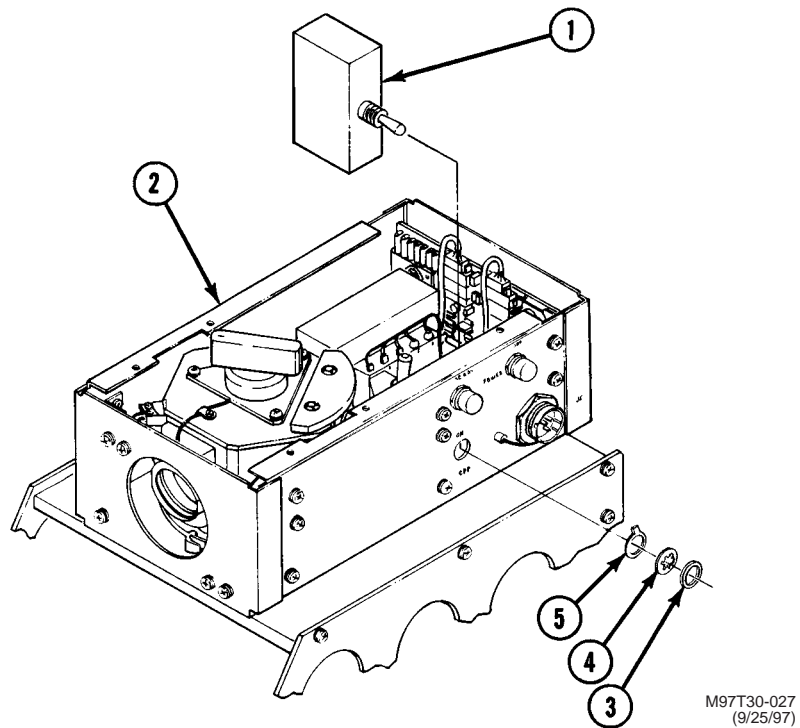
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Circuit Breaker
Key Washer
Lockwasher
Nut
Silicone Compound (Item 14, WP 0210 00)



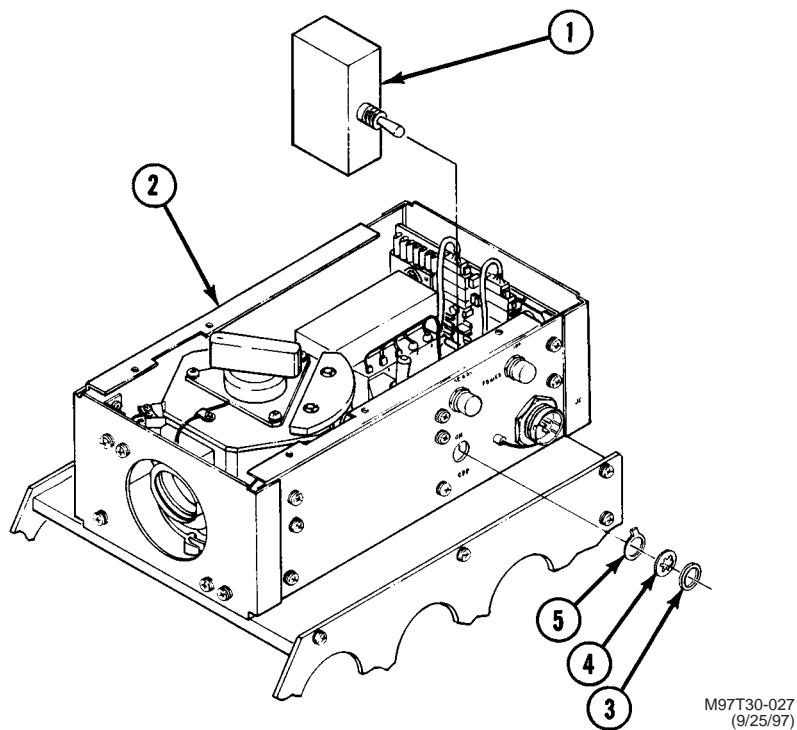
NOTE

Read WP 0043 00, before doing any work.

Refer to foldout Figure 7 or 8 of WP 0004 00.

REMOVE

1. REMOVE CIRCUIT BREAKER CB1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Remove nut (3), lockwasher (4), and key washer (5) from circuit breaker CB1 (1). Discard all removed parts.
 - b. Push circuit breaker CB1 (1) inside temperature controller assembly (2).
 - c. Carefully remove silicone compound from circuit breaker CB1 (1) terminals.
 - d. Unsolder wires from circuit breaker CB1 (1) terminals.
 - e. Remove circuit breaker CB1 (1) from temperature controller assembly (2).

**INSTALL**

2. INSTALL NEW CIRCUIT BREAKER CBI (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Solder wires on circuit breaker CBI (1) terminals.
 - b. Apply silicone compound to circuit breaker CBI (1) terminals.
 - c. Position circuit breaker CBI (1) in temperature controller assembly (2).
 - d. Install new key washer (5), new lockwasher (4) and new nut (3) on circuit breaker CBI (1).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 TRANSFORMER T1

0120 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

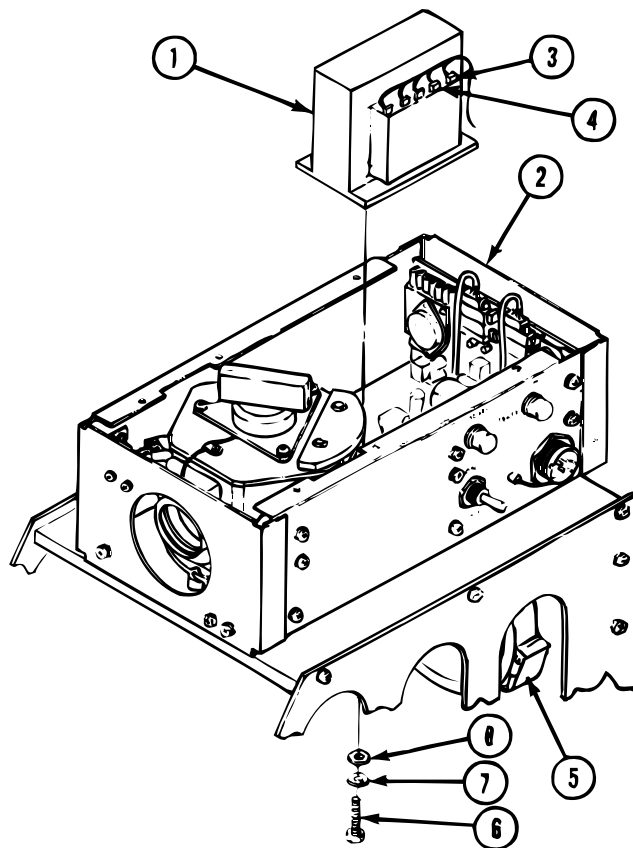
Materials/Parts:

Transformer
Lockwashers (4)
Silicone Compound (Item 14, WP 0210 00.)

NOTE

Read WP 0043 00, before doing any work.

Refer to foldout Figure 7 or 8 of WP 0004 00 located at rear of this TM.

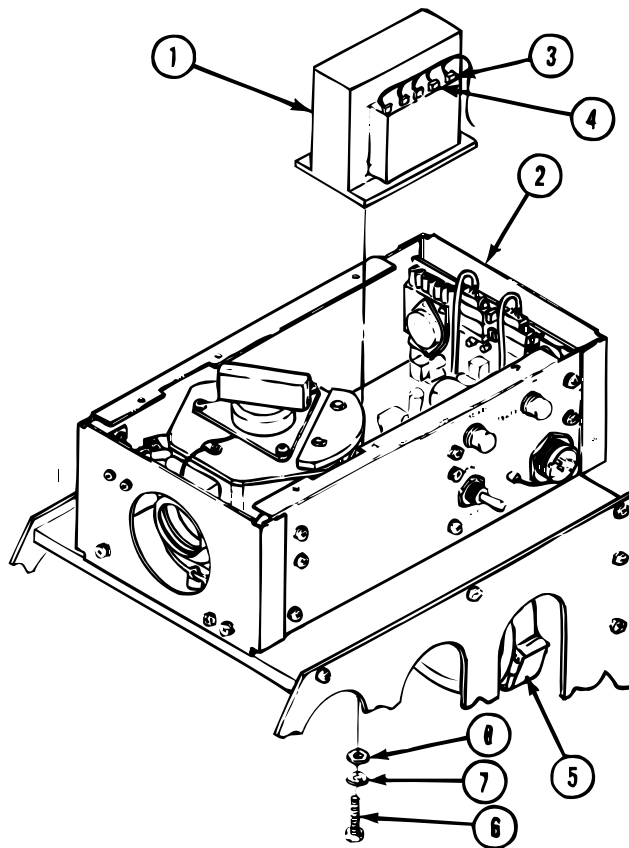
**REMOVE**

1. REMOVE TRANSFORMER T1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Remove silicone compound from terminals 1 (3) and 2 (4) of transformer T1 (1).
 - b. Unsolder wires from terminals of transformer T1 (1).

CAUTION

Be careful not to scratch or break collimating mirror (5) when removing attaching hardware for transformer T1 (1).

- c. Remove four screws (6), lockwashers (7), and flat washers (8) attaching transformer T1 (1) to bottom of temperature controller assembly (2). Discard lockwashers.
- d. Remove transformer T1 (1) from temperature controller assembly (2).

**INSTALL**

2. INSTALL NEW TRANSFORMER T1 (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Position transformer T1 (1) in temperature controller assembly (2).

CAUTION

Be careful not to scratch or break collimating mirror (5) when installing attaching hardware for transformer T1.

- b. Install four screws (6), new lockwashers (7), and flat washers (8) to secure transformer T1 (1) to temperature controller assembly (2).
- c. Solder wires to terminals of transformer T1 (1).
- d. Apply silicone compound to terminals 1 (3) and 2 (4) of transformer T1 (1).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 CIRCUIT CARD A1A1

0121 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

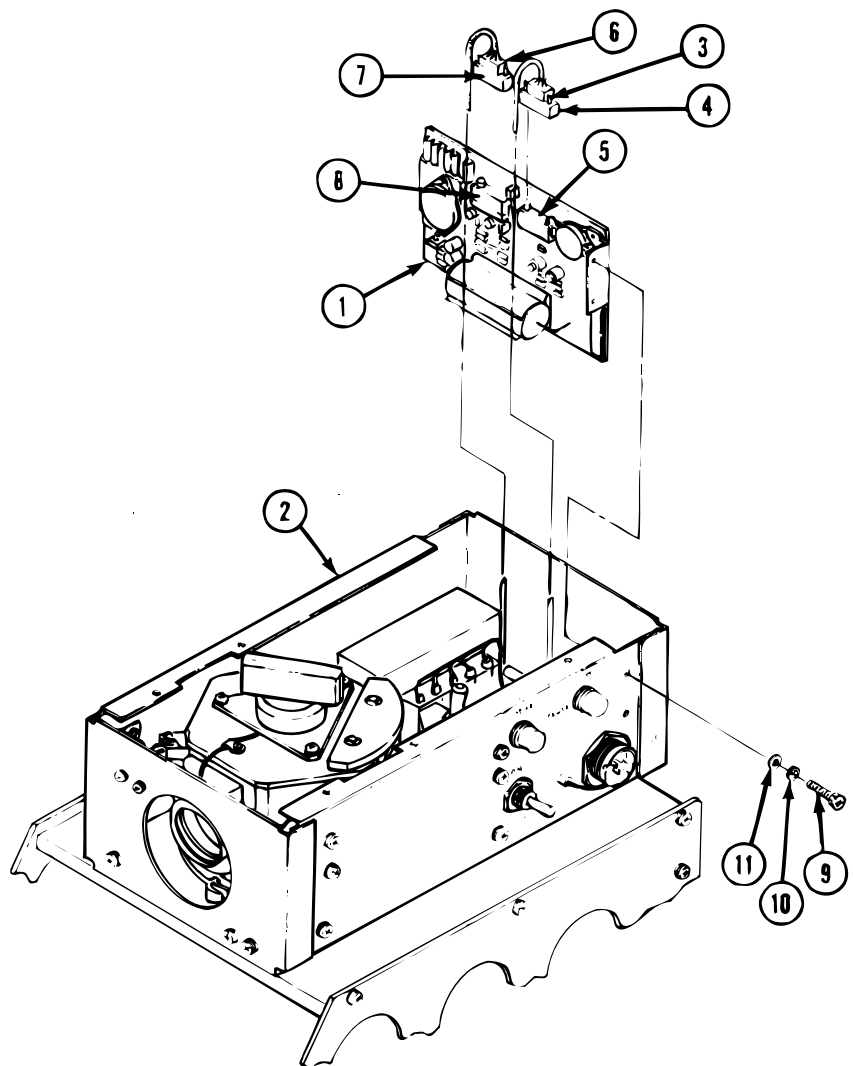
Calibration Specialist Tool Kit
SC 6695-92-A05

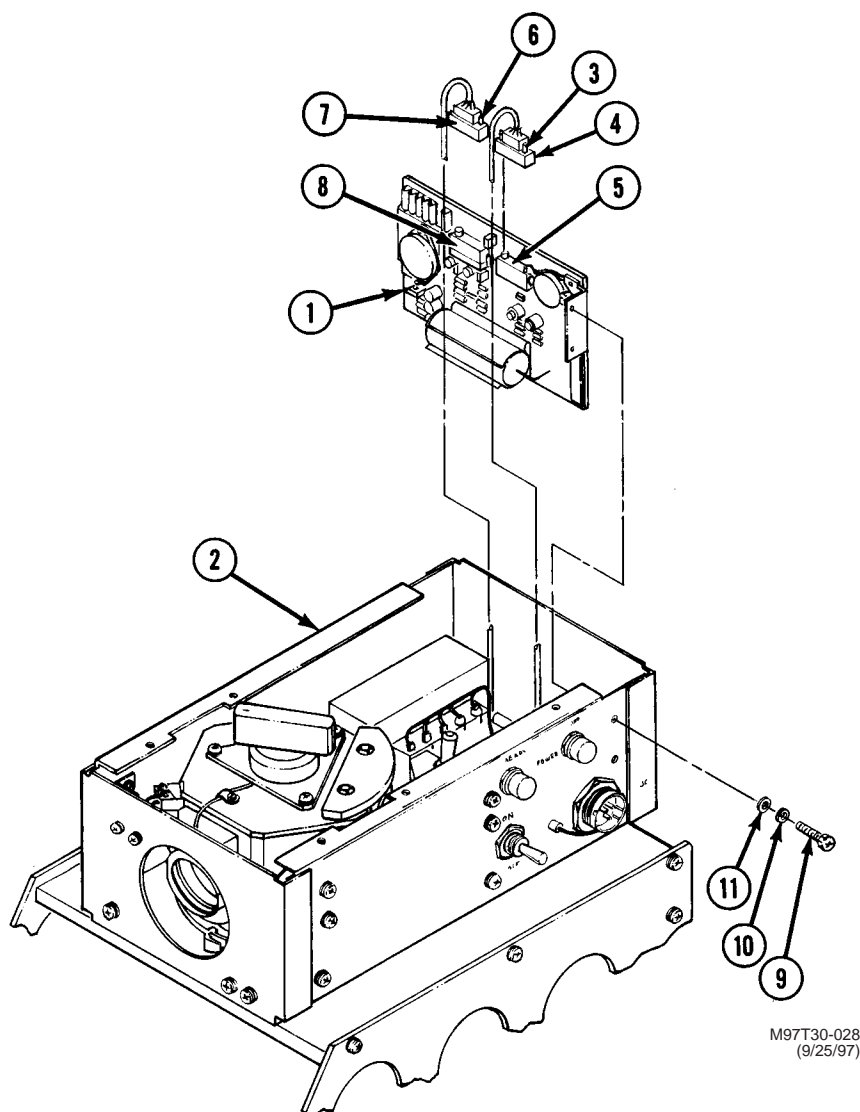
Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Circuit Card A1A1
Lockwashers (4)





REMOVE

1. REMOVE CIRCUIT CARD A1A1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Alternately loosen two screws (3) and remove connector W1P1 (4) from circuit card A1A1 J2 (5).
 - b. Alternately loosen two screws (6) and remove connector A2P1 (7) from circuit card A1A1 J1 (8).
 - c. Remove four screws (9), lockwashers (10), and flat washers (11). Discard lockwashers.
 - d. Remove circuit card A1A1 (1) from temperature controller assembly (2).

NOTE

After replacement of circuit card A1A1, the thermal sight collimator must be calibrated before it is returned to service.

INSTALL

2. INSTALL NEW CIRCUIT CARD A1A1 (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Position circuit card A1A1 (1) in temperature controller assembly (2).
 - b. Install four screws (9), new lockwashers (10), and flat washers (11).
 - c. Install connector A2P1 (7) on circuit card A1A1 J1 (8) and alternately tighten two screws (6).
 - d. Install connector W1P1 (4) on circuit card A1A1 J2 (5) and alternately tighten two screws (3).

END OF TASK

**REPLACE COLLIMATOR SM-D-969722 SPINDLE AND DRUM ASSEMBLY, DETENT ASSEMBLY,
ON/ALIGN SWITCH, AND SWITCH BRACKET**

0122 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.
Remove target select knob; refer to WP 0118 00.

Materials/Parts:

Lockwashers

Reference:

TB 9-5855-1890-35

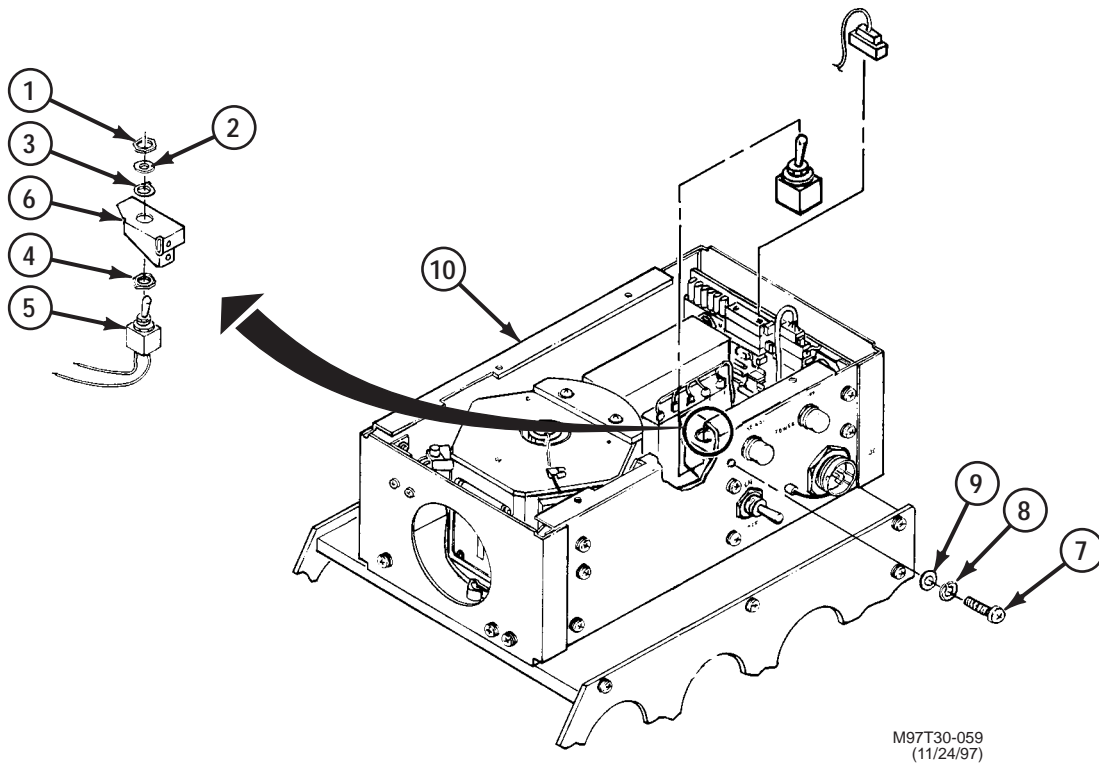
NOTE

Read WP 0043 00 before doing any work.

Refer to Figures 7 and 8 of WP 0004 00 located at rear of this TM.

**REPLACE COLLIMATOR SM-D-969722 SPINDLE AND DRUM ASSEMBLY, DETENT ASSEMBLY,
ON/ALIGN SWITCH, AND SWITCH BRACKET - CONTINUED**

0122 00

M97T30-059
(11/24/97)**NOTE**

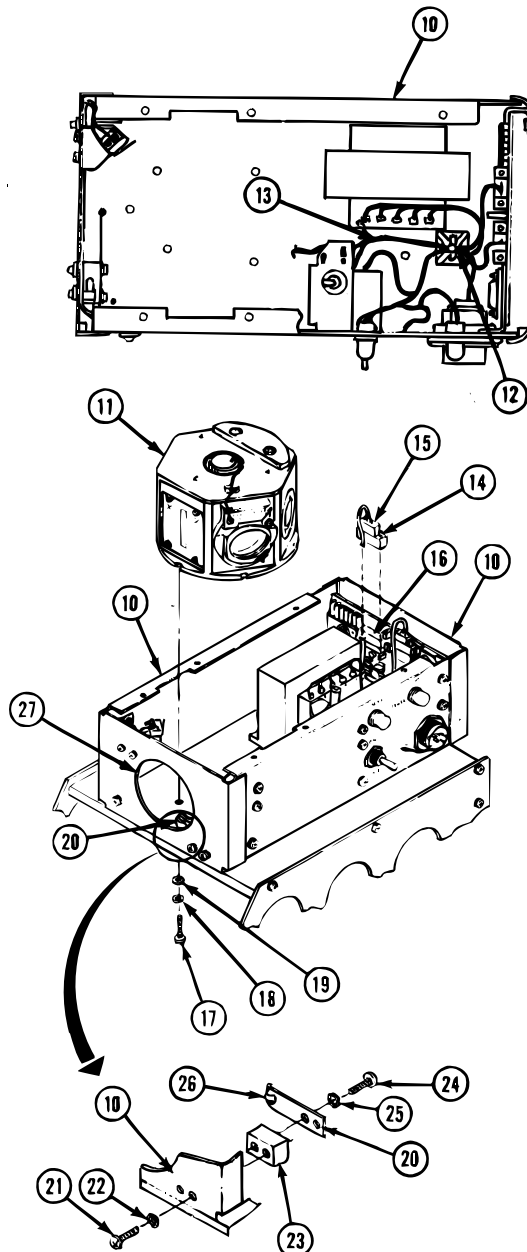
Perform steps 1 and 2 to remove the ON/ ALIGN switch. Perform steps 1 and 3 to remove the switch bracket. Perform steps 1 and 4 to remove the drum and spindle assembly. Perform step 5 to remove the detent assembly.

REMOVE

1. REMOVE NUT (1), LOCKWASHER (2), KEY WASHER (3), NUT (4) AND ON/ALIGN SWITCH (5) FROM SWITCH BRACKET (6). DISCARD LOCKWASHER.
2. UNSOLDER WIRES FROM ON/ALIGN SWITCH (5).
3. REMOVE TWO SCREWS (7), LOCKWASHERS (8), FLAT WASHERS (9) AND SWITCH BRACKET (6) FROM TEMPERATURE CONTROLLER ASSEMBLY (10). DISCARD LOCKWASHERS.
4. REMOVE SPINDLE AND DRUM ASSEMBLY (11) FROM TEMPERATURE CONTROLLER ASSEMBLY (10).
 - a. Cut the cable tie (12) securing the A2P1 cable (13).
 - b. Alternately loosen two screws (14) and remove connector A2P1 (15) from circuit card A1A1 J1 (16).
 - c. Remove four screws (17), lockwashers (18), flat washers (19) and spindle and drum assembly (11) from temperature controller assembly (10). Discard lockwashers.
5. REMOVE DETENT ASSEMBLY (20) FROM TEMPERATURE CONTROLLER ASSEMBLY (10).
 - a. Remove two screws (21), flat washers (22) and the plate spacer (23) from temperature controller assembly (10).
 - b. Remove two screws (24), flat washers (25) and detent assembly (20) from plate spacer (23).

REPLACE COLLIMATOR SM-D-969722 SPINDLE AND DRUM ASSEMBLY, DETENT ASSEMBLY, ON/ALIGN SWITCH, AND SWITCH BRACKET- CONTINUED

0122 00



NOTE

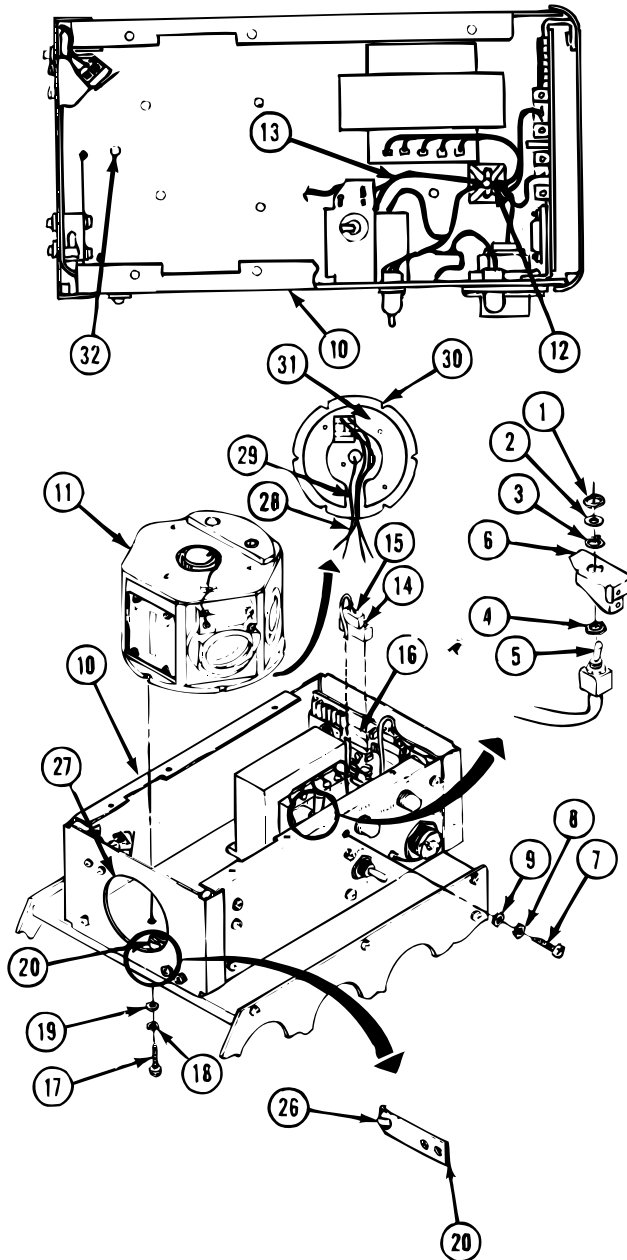
To install detent assembly perform step 6. To install the spindle and drum assembly perform steps 7 and 9. To install ON/ALIGN switch perform steps 8 and 9. To install switch bracket perform steps 9 and 10. After replacement of spindle and drum assembly, the thermal sight collimator must be calibrated before it is returned to service. Refer to TB 9-5855-1890-35.

INSTALL

6. INSTALL NEW DETENT ASSEMBLY (20) IN TEMPERATURE CONTROLLER ASSEMBLY (10).
 - a. Install two screws (24), flat washers (25) and detent assembly (20) on plate spacer (23).
 - b. Install two screws (21), flat washers (22), and plate spacer (23) on temperature controller assembly (10). Plate spacer (23) must be positioned so that roller (26) of detent assembly (20) is centered in aperture (27).

REPLACE COLLIMATOR SM-D-969722 SPINDLE AND DRUM ASSEMBLY, DETENT ASSEMBLY, ON/ALIGN SWITCH, AND SWITCH BRACKET - CONTINUED

0122 00



**REPLACE COLLIMATOR SM-D-969722 SPINDLE AND DRUM ASSEMBLY, DETENT ASSEMBLY,
ON/ALIGN SWITCH, AND SWITCH BRACKET- CONTINUED**

0122 00

INSTALL – Continued

7. INSTALL NEW SPINDLE AND DRUM ASSEMBLY (11) IN TEMPERATURE CONTROLLER ASSEMBLY (10).

CAUTION

To avoid damage to equipment, be careful not to pinch wires when installing the spindle and drum assembly.

- a. Position wires (28) in slot (29) in bottom of spindle and drum assembly (11).
 - b. Position spindle and drum assembly (11) so that detent (30) is aligned with roller (26) of detent assembly (20) and move spindle and drum assembly (11) toward aperture (27) until alignment pin (31) on bottom of spindle and drum assembly (11) drops into alignment hole (32) of temperature controller assembly (10).
 - c. Install four screws (17), new lockwashers (18), and flat washers (19) to attach the spindle and drum assembly (11) to temperature controller assembly (10).
 - d. Install connector A2P1 (15) on circuit card A1A1 JI (16) by alternately tightening two screws (14).
 - e. Install new cable tie (12) to secure cable A2P1 (13).
8. SOLDER WIRES TO NEW ON/ALIGN SWITCH (5).
9. INSTALL NUT (1), NEW LOCKWASHER (2), KEY WASHER (3), NUT (4), AND ON/ALIGN SWITCH (5) ON SWITCH BRACKET (6).
10. INSTALL TWO SCREWS (7), NEW LOCKWASHERS (8), FLAT WASHERS (9), AND NEW SWITCH BRACKET (6) ON TEMPERATURE CONTROLLER ASSEMBLY(10).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 VISIBLE LAMPS, VISIBLE LAMP ASSEMBLY COMPONENTS, AND PWB LAMP BRACKETS

0123 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

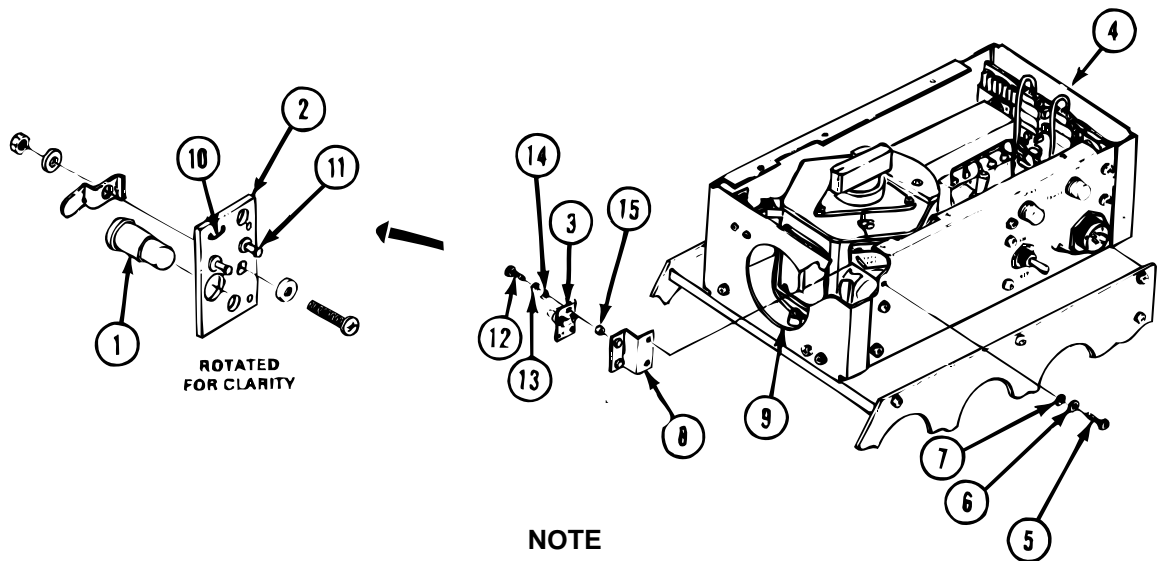
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Lockwashers (4)
Lockwasher
Cable Tie



Read WP 0043 00 before doing any work.

Refer to foldout Figure 7 or 8 of WP 0004 00 located at rear of this TM.

REMOVE

NOTE

Visible lamps (1) are not used for some applications of the thermal sight collimator and have been removed from some units. If visible lamps are required, use this task to replace them. Some visible lamps (1) are soldered onto the visible lamp PWB (2). In this case, replace the entire visible lamp assembly (3).

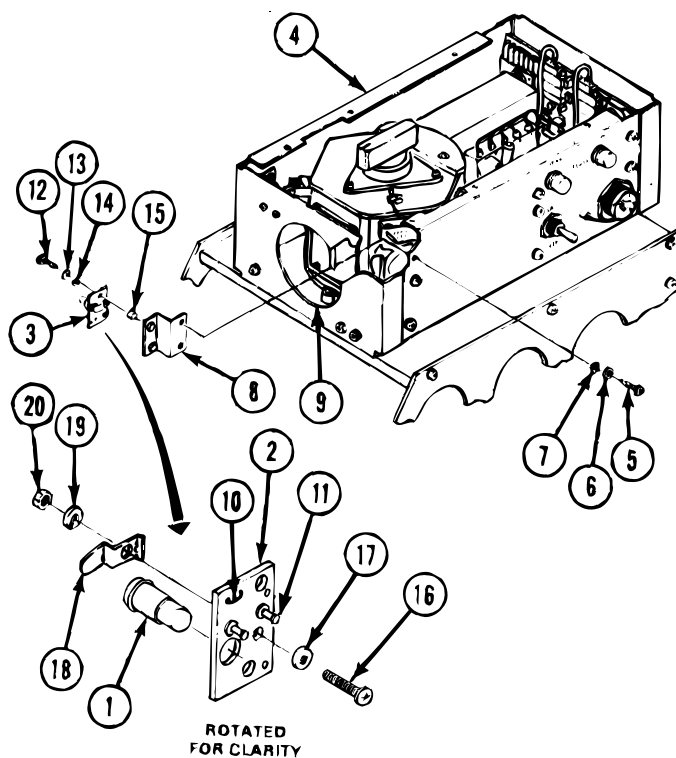
1. REMOVE VISIBLE LAMP (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (4).
 - a. Remove two screws (5), lockwashers (6), and flat washers (7) attaching PWB lamp bracket (8) to temperature controller assembly (4). Discard lockwashers.

REPLACE COLLIMATOR SM-D-969722 VISIBLE LAMPS, VISIBLE LAMP ASSEMBLY COMPONENTS, AND PWB LAMP BRACKETS - CONTINUED

0123 00

REMOVE – Continued

- b. Pull visible lamp assembly (3) and PWB lamp bracket (8) through aperture (9).
- c. Cut and remove cable tie (10).
- d. Unsolder leads from terminals (11) on visible lamp PWB (2).
- e. Remove two screws (12), lockwashers (13), flat washers (14), sleeve spacers (15), and PWB lamp bracket (8) from visible lamp assembly (3). Discard lockwashers.
- f. Remove screw (16), flat washer (17), lamp contact (18), lockwasher (19), and nut (20) from visible lamp PWB (2). Discard lockwasher.
- g. Remove visible lamp (1) from visible lamp PWB (2).


INSTALL

2. INSTALL NEW VISIBLE LAMP (1) ON TEMPERATURE CONTROLLER ASSEMBLY (4).
 - a. Position visible lamp (1) in visible lamp PWB (2).
 - b. Install screw (16), flat washer (17), lamp contact (18), new lockwasher (19), and nut (20) on visible lamp PWB (2).
 - c. Install two screws (12), new lockwashers (13), flat washers (14), new visible lamp assembly (3), and sleeve spacers (15) on PWB lamp bracket (8).
 - d. Solder wires to terminals (11) on visible lamp PWB (2).
 - e. Install new cable tie (10) to secure wires.
 - f. Insert visible lamp assembly (3) and PWB lamp bracket (8) through aperture (9).
 - g. Install two screws (5), new lockwashers (6), and flat washers (7) to attach PWB lamp bracket (8) to temperature controller assembly (4).

END OF TASK

**REPLACE COLLIMATOR SM-D-969722 CONNECTOR J1 - TEMPERATURE CONTROLLER
ASSEMBLY**

0124 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Reference:

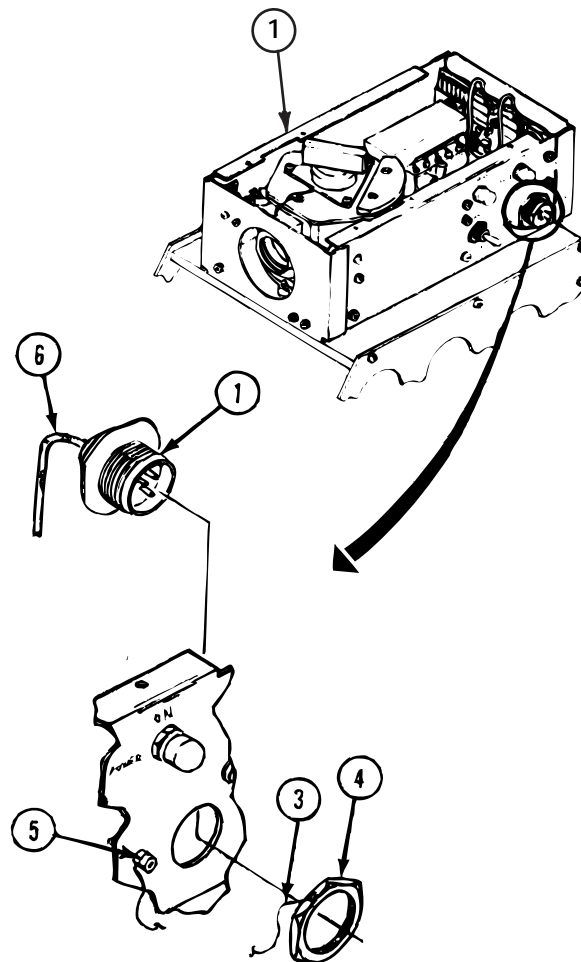
TM 9-254

Materials/Parts:

Connector J1
Safety Wire (Item 15, WP 0210 00)

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.



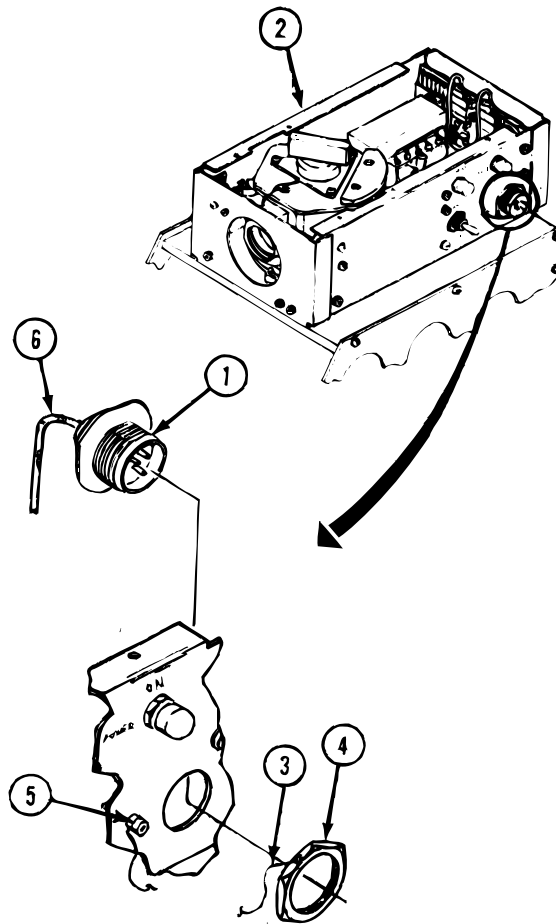
NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 7 or 8 of WP 0004 00 located at rear of this TM.

REPLACE COLLIMATOR SM-D-969722 CONNECTOR J1 - TEMPERATURE CONTROLLER ASSEMBLY- CONTINUED

0124 00

**REMOVE**

1. REMOVE CONNECTOR J1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Cut and remove safety wire (3) from jam nut (4) and screw (5).
 - b. Remove jam nut (4) and push connector J1 (1) into temperature controller assembly (2).
 - c. Cut wires (6) at connector J1 (1).

INSTALL

2. INSTALL NEW CONNECTOR J1 (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Strip 1/4 inch of insulation from wires (6).
 - b. Solder pins to wires (6).

NOTE

Pin insertion/extraction tool is provided with new connector.

- c. Insert pins into connector J1 (1).
- d. Position connector J1 (1) in temperature controller assembly (2).
- e. Install jam nut (4), and screw (5) on connector J1 (1).
- f. Install new safety wire (3) on jam nut (4). Refer to TM 9-254.

END OF TASK

**REPLACE COLLIMATOR SM-D-969722 LENS ATTENUATOR AND
CIRCUIT CARD A2A2**

0125 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

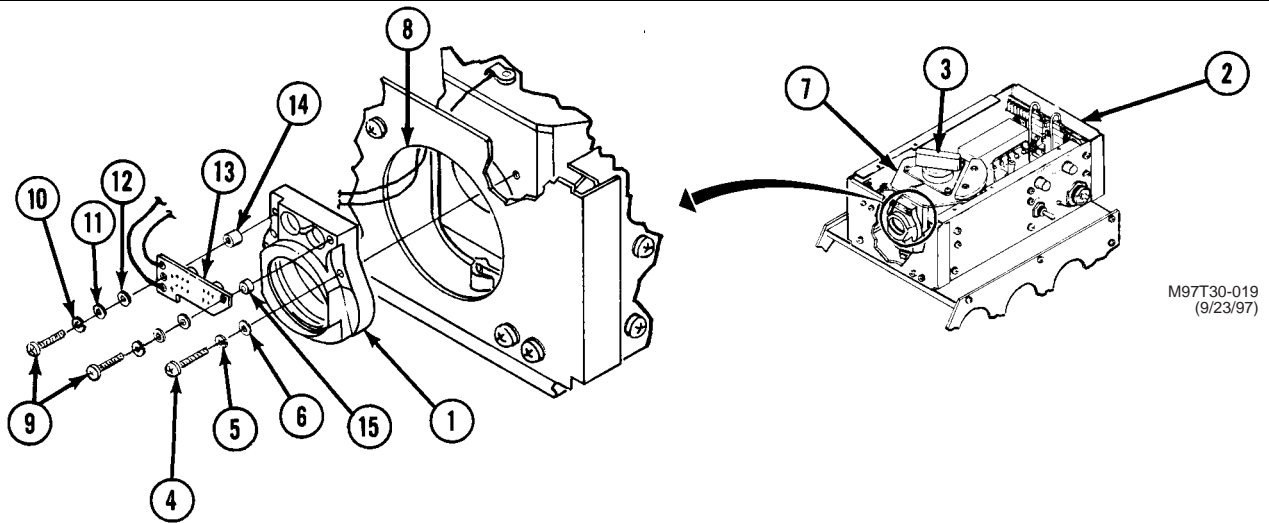
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Lockwashers (5)
Silicone Compound (Item 16, WP 0210 00)



CAUTION

Use care when removing/installing lens attenuator, lens can be easily damaged by tools.

NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 7 or 8 of WP 0004 00 located at rear of this TM.

REMOVE

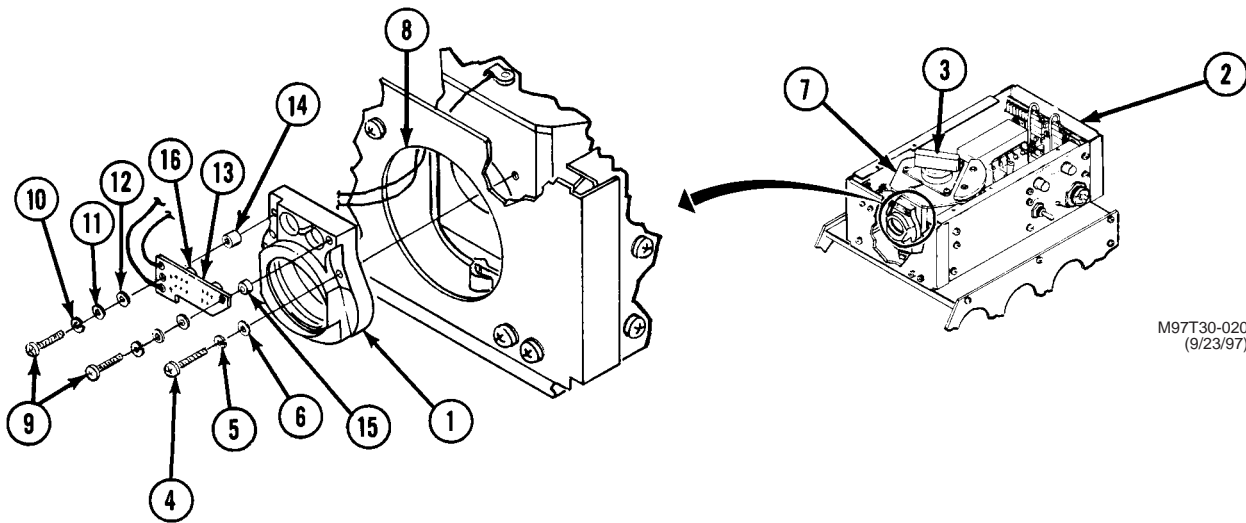
NOTE

Perform step 1 to remove lens attenuator. Perform steps 1 and 2 to remove circuit card A2A2.

1. REMOVE LENS ATTENUATOR (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to MRT position.
 - b. Remove three screws (4), lockwashers (5), flat washers (6), and lens attenuator (1) from spindle and drum assembly (7). Discard lockwashers.
 - c. Carefully pull lens attenuator (1) through aperture (8).
 - d. Remove two screws (9), lockwashers (10), flat washers (11), plastic washers (12), circuit card A2A2 (13), sleeve spacer (14), and sleeve spacer (15) from lens attenuator (1). Discard lockwashers.
2. UNSOLDER WIRES FROM CIRCUIT CARD A2A2 (13).

**REPLACE COLLIMATOR SM-D-969722 LENS ATTENUATOR AND
CIRCUIT CARD A2A2 - CONTINUED**

0125 00

**INSTALL****NOTE**

Perform steps 3 and 4 to install circuit card A2A2. Perform step 4 to install lens attenuator.

3. SOLDER WIRES TO CIRCUIT CARD A2A2 (13).
4. INSTALL NEW LENS ATTENUATOR (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Apply silicone compound to two thermistors (16) on circuit card A2A2 (13).
 - b. Install two screws (9), new lockwashers (10), flat washers (11), plastic washers (12), circuit card A2A2 (13), sleeve spacer (14), and sleeve spacer (15) on lens attenuator (1).
 - c. Carefully insert lens attenuator (1) through aperture (8) and position lens attenuator (1) on spindle and drum assembly (7).
 - d. Install three screws (4), new lockwashers (5), flat washers (6), and lens attenuator (1) on spindle and drum assembly (7).
 - e. Clean lens surface of lens attenuator (1). Refer to WP 0043 00.

END OF TASK

REPLACE COLLIMATOR SM-D-969722 CAM AND SENSITIVE SWITCH

0126 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

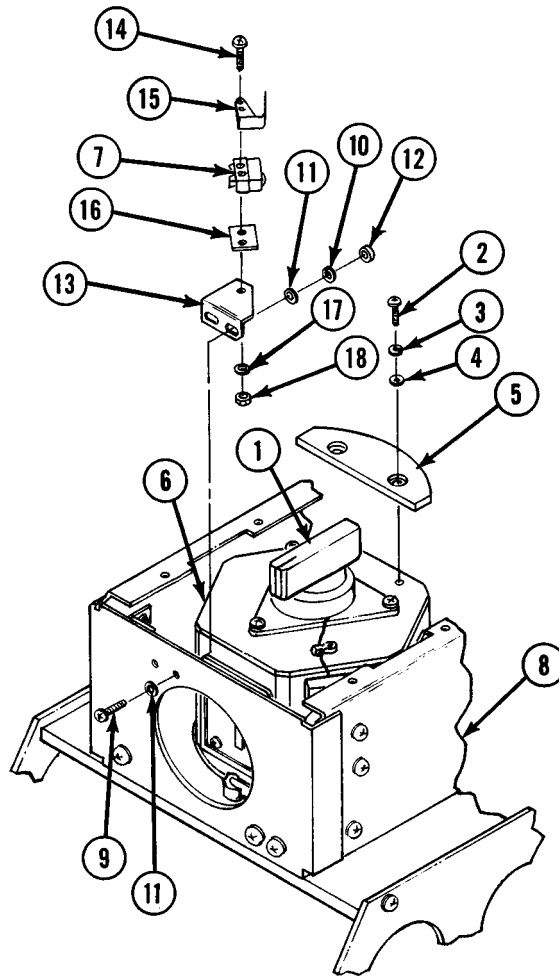
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

Materials/Parts:

Lockwashers (2)



M97T30-021
(9/23/97)

NOTE

Read WP 0043 00 before doing any work.

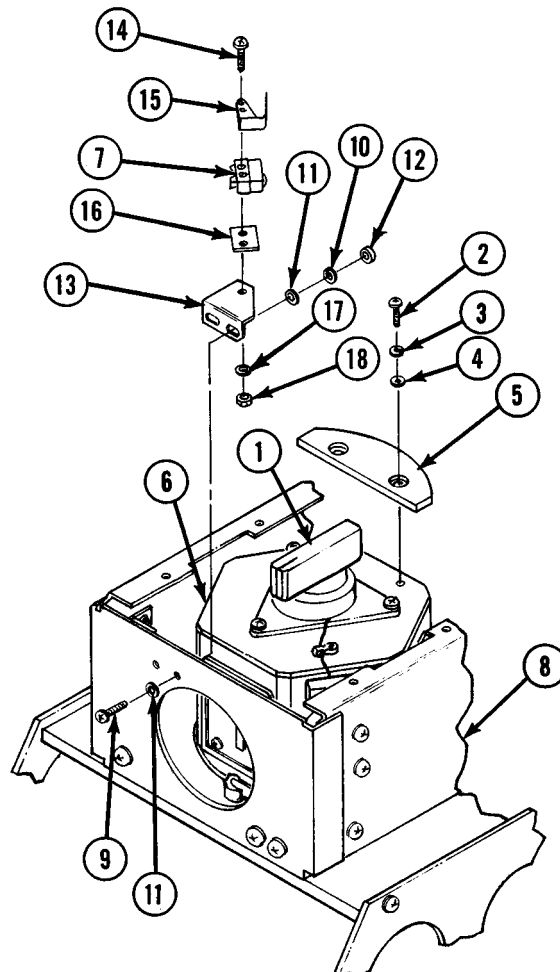
Refer to foldout Figure 7 or 8 of WP 0004 00 located at rear of this TM.

REMOVE

NOTE

Perform steps 1 and 2 to remove cam. Perform steps 1 and 3 to remove sensitive switch.

1. SET TARGET SELECT KNOB (1) TO BAR POSITION.
2. REMOVE TWO SCREWS (2), LOCKWASHERS (3), FLAT WASHERS (4), AND CAM (5) FROM SPINDLE AND DRUM ASSEMBLY (6). DISCARD LOCKWASHERS.
3. REMOVE SENSITIVE SWITCH (7) FROM TEMPERATURE CONTROLLER ASSEMBLY (8).
 - a. Remove two screws (9), two lockwashers (10), four flat washers (11), two nuts (12), and switch bracket (13) from temperature controller assembly (8). Discard lockwashers.
 - b. Remove two screws (14), switch adapter (15), sensitive switch (7), insulator (16), two flat washers (17), and two nuts (18) from switch bracket (13).
 - c. Unsolder wires from sensitive switch (7).



M97T30-021
(9/23/97)

INSTALL**NOTE**

Perform steps 4 and 6 to install sensitive switch. Perform steps 5 and 6 to install cam.

4. INSTALL NEW SENSITIVE SWITCH (7) ON TEMPERATURE CONTROLLER ASSEMBLY (8).
 - a. Solder wires to sensitive switch (7).
 - b. Install two screws (14) switch adapter (15) sensitive switch (7), insulator (16), two flat washers (17), and two nuts (18) on switch bracket (13).
 - c. Install two screws (9), two new lockwashers (10) four flat washers (11), two nuts (12), and switch bracket (13) on temperature controller assembly (8).
5. INSTALL TWO SCREWS (2), NEW LOCKWASHERS (3), FLAT WASHERS (4), AND NEW CAM (5) ON SPINDLE AND DRUM ASSEMBLY (6).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 MTF TARGET**0127 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

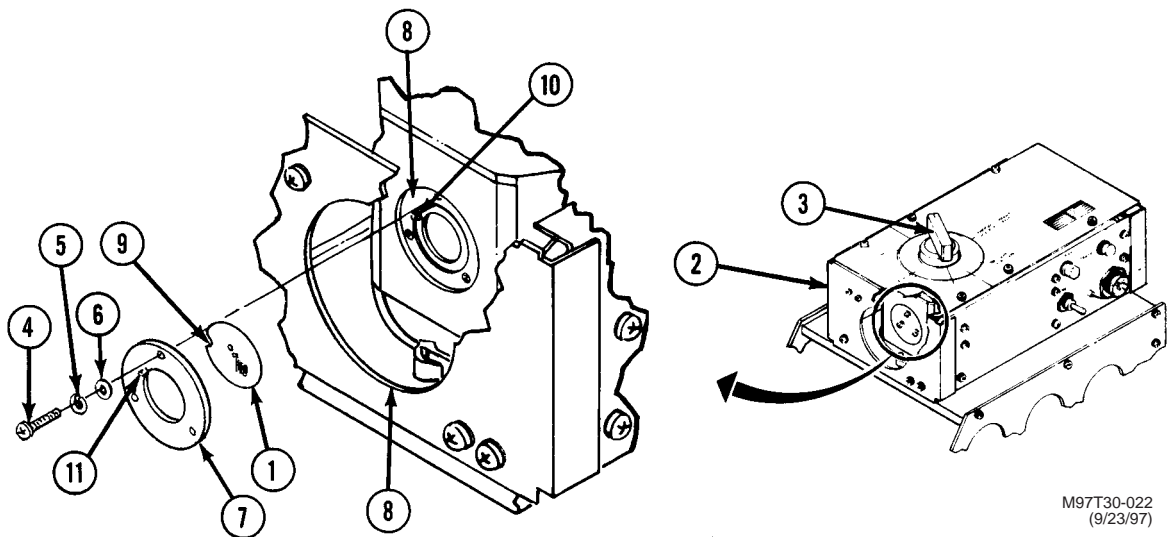
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.

Materials/Parts:

Lockwashers (3)
MTF Target



M97T30-022
(9/23/97)

REMOVE

1. REMOVE MTF TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Turn target select knob (3) to MTF position.
 - b. Remove three screws (4), lockwashers (5), flat washers (6), target retainer (7), and MTF target (1) from spindle and drum assembly (8). Discard lockwashers.

INSTALL

2. INSTALL NEW MTF TARGET (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Position MTF target (1) as shown in illustration, with notch (9) over locating pin (10) on spindle and drum assembly (8).
 - b. Position target retainer (7) with notch (11) over locating pin (10) and attach with three screws (4), new lockwashers (5), and flat washers (6).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 BAR TARGET

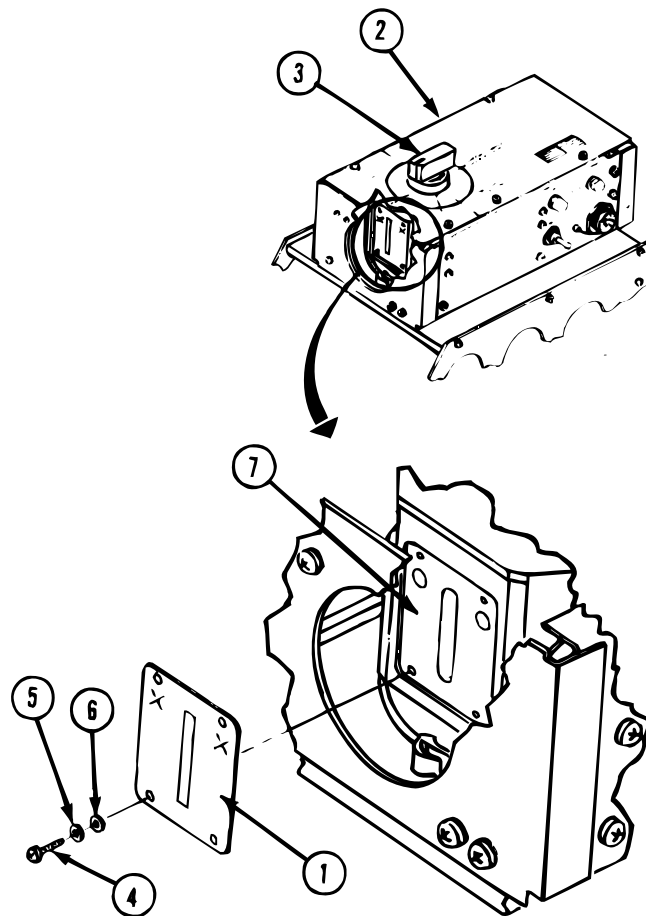
0128 00

THIS WORK PACKAGE COVERS:

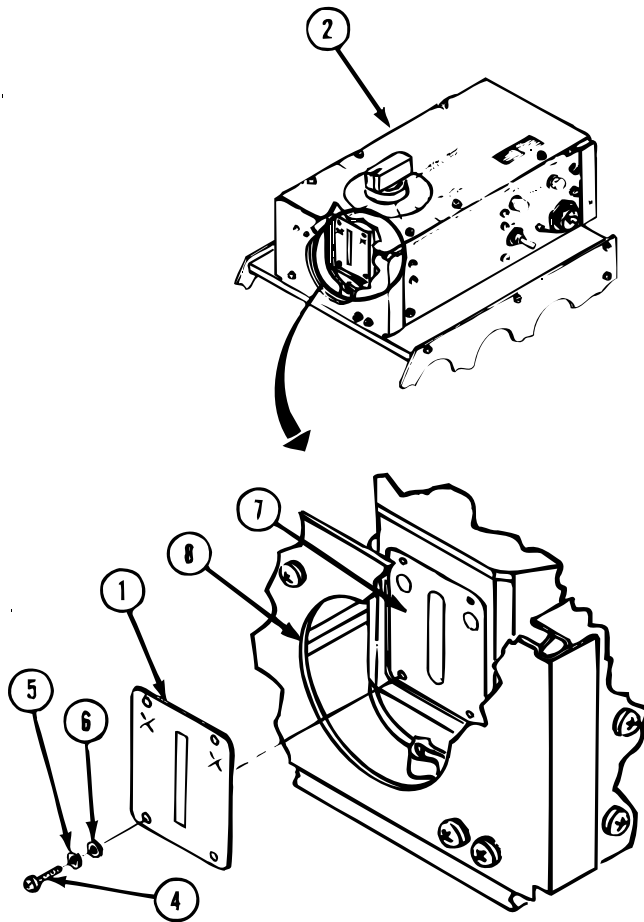
Removal, Installation

INITIAL SETUP**Tools:**Calibration Specialist Tool Kit
SC 6695-92-A05**Equipment Conditions:**

Remove shroud; refer to WP 0115 00.

Materials/Parts:Lockwashers (4)
Bar Target**REMOVE**

1. REMOVE BAR TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to BAR position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and bar target (1) from spindle and drum assembly (7). Discard lockwashers.

**INSTALL****CAUTION**

Avoid bending the bar target. A bent target can create hot spots which distort thermal image.

2. INSTALL NEW BAR TARGET (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Position bar target (1) on spindle and drum assembly (7) with flat black surface facing toward aperture (8).
 - b. Loosely install four screws (4), new lockwashers (5), and flat washers (6). First attaching the bottom of bar target (1) and then attaching the top.
 - c. Alternately tighten the two bottom, and then the two top screws (4).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 DIAGONAL TARGET**0129 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

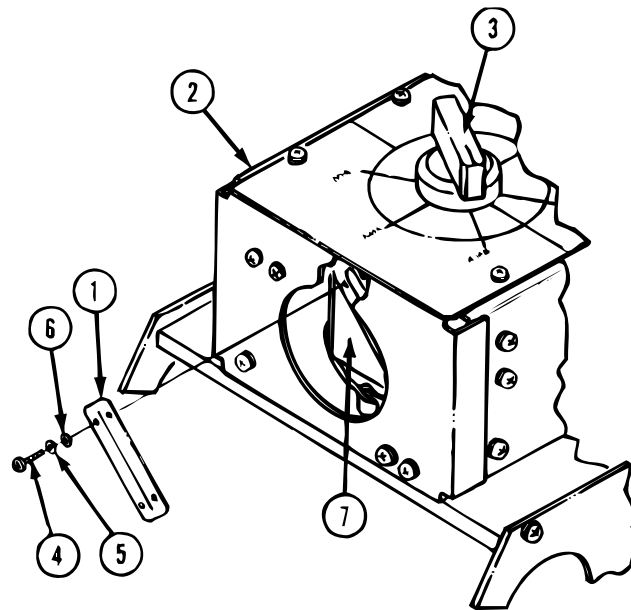
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00

Materials/Parts:

Lockwashers (4)
Diagonal Target

**NOTE**

Some thermal sight collimators are equipped with the diagonal target while others have an X target. The two targets are not interchangeable. The diagonal target can only be replaced by another diagonal target.

REMOVE

1. REMOVE DIAGONAL TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to DIAG position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and diagonal target (1) from spindle and drum assembly (7). Discard lockwashers.

INSTALL

2. INSTALL FOUR SCREWS (4), NEW LOCKWASHERS (5), FLAT WASHERS (6), AND NEW DIAGONAL TARGET (1) ON SPINDLE AND DRUM ASSEMBLY (7).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 X TARGET

0130 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

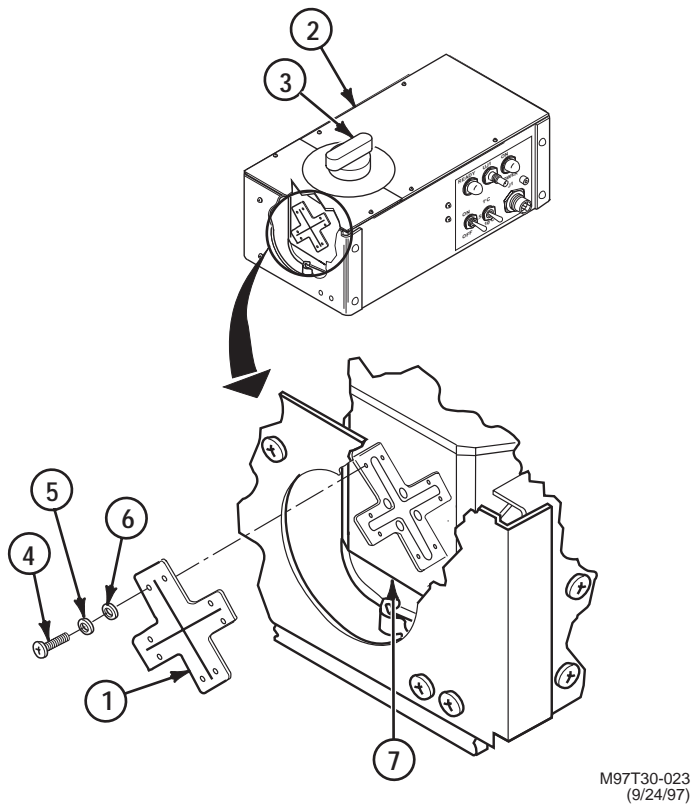
Remove shroud; refer to WP 0115 00.

Materials/Parts:

Lockwashers (8)
X Target

NOTE

Some thermal sight collimators are equipped with the X target while others have a diagonal target. The two targets are not interchangeable. The X target can only be replaced by another X target.

**REMOVE**

1. REMOVE X TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to X position.
 - b. Remove eight screws (4), lockwashers (5), flat washers (6), and X target (1) from spindle and drum assembly (7). Discard lockwashers.

INSTALL

2. INSTALL EIGHT SCREWS (4), NEW LOCKWASHERS (5), FLAT WASHERS (6), AND NEW X TARGET (1) ON SPINDLE AND DRUM ASSEMBLY (7).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 THERMAL CHANNEL VISIBLE TARGET**0131 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

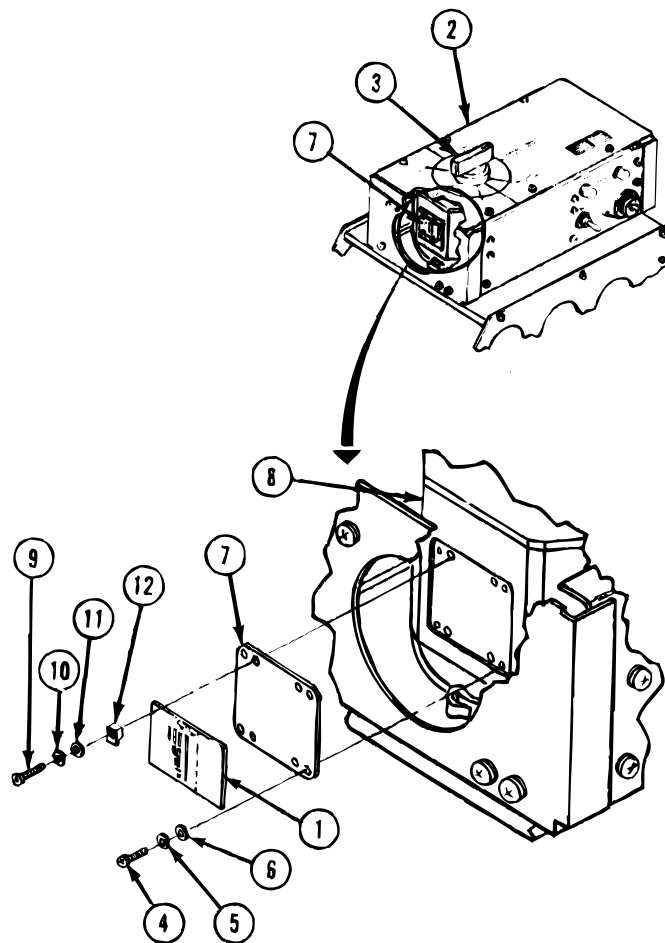
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

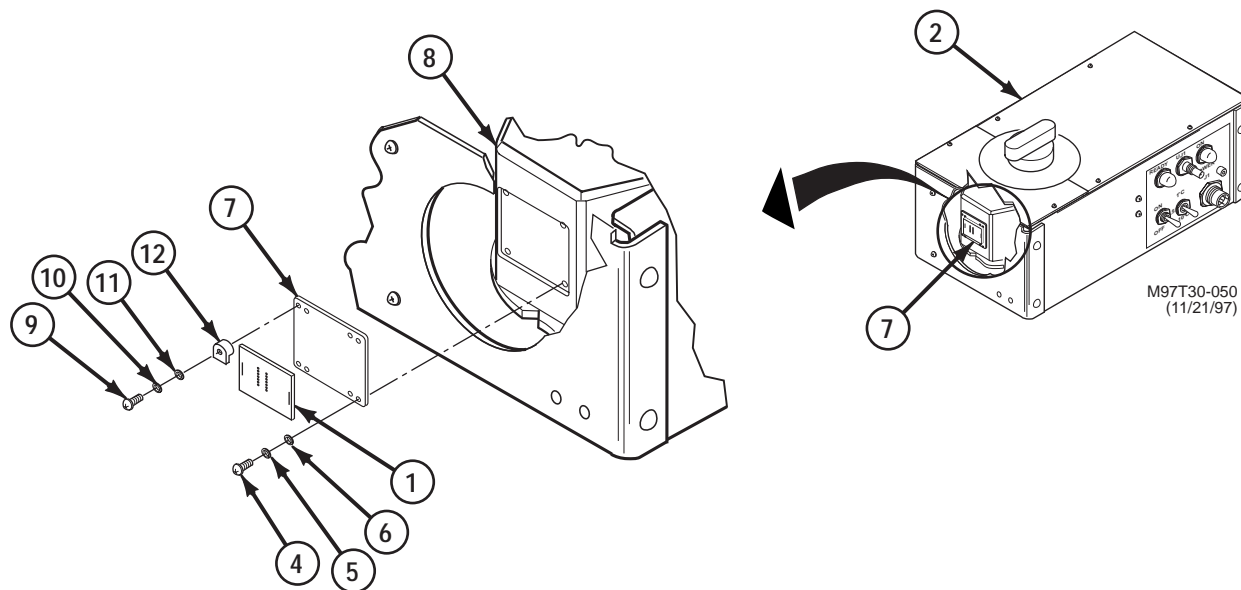
Remove shroud; refer to WP 0115 00.

Materials/Parts:

Lockwashers (8)
Thermal Channel Visible Target

**REMOVE**

1. REMOVE THERMAL CHANNEL VISIBLE TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to THERMAL CHANNEL VISIBLE TARGET position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and thermal channel visible target plate (7) from spindle and drum assembly (8). Discard lockwashers.
 - c. Remove four screws (9), lockwashers (10), flat washers (11), target retainers (12), and thermal channel visible target (1) from thermal channel visible target plate (7). Discard lockwashers.



INSTALL

2. INSTALL THERMAL CHANNEL VISIBLE TARGET (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Secure thermal channel visible target (1) to thermal channel visible target plate (7) with four screws (9), new lockwashers (10), flat washers (11) and target retainers (12).
 - b. Install four screws (4), new lockwashers (5), flat washers (6) and thermal channel visible target plate (7) on spindle and drum assembly (8).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 DAYLIGHT TELESCOPE TARGET

0132 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

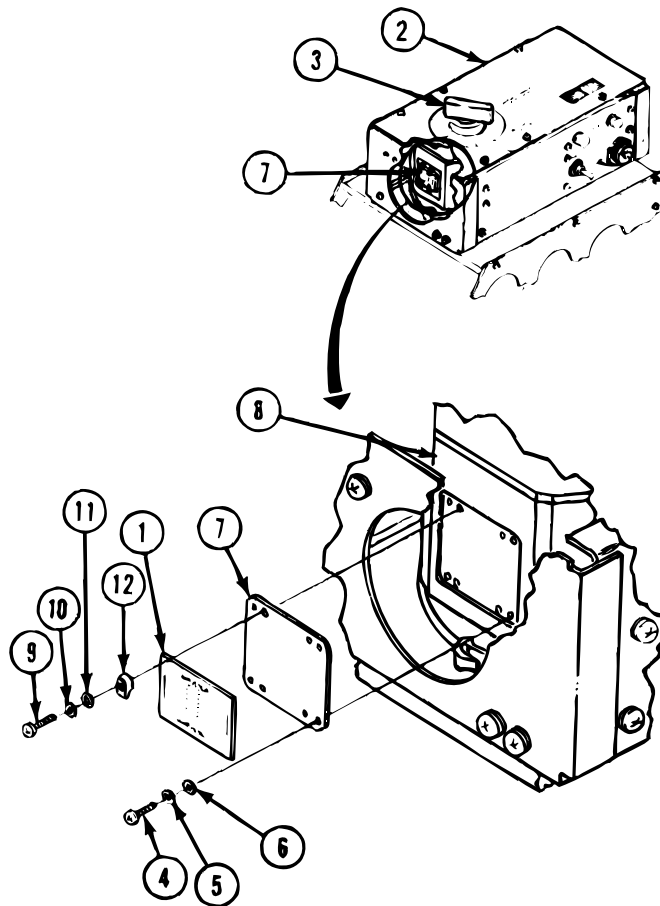
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.

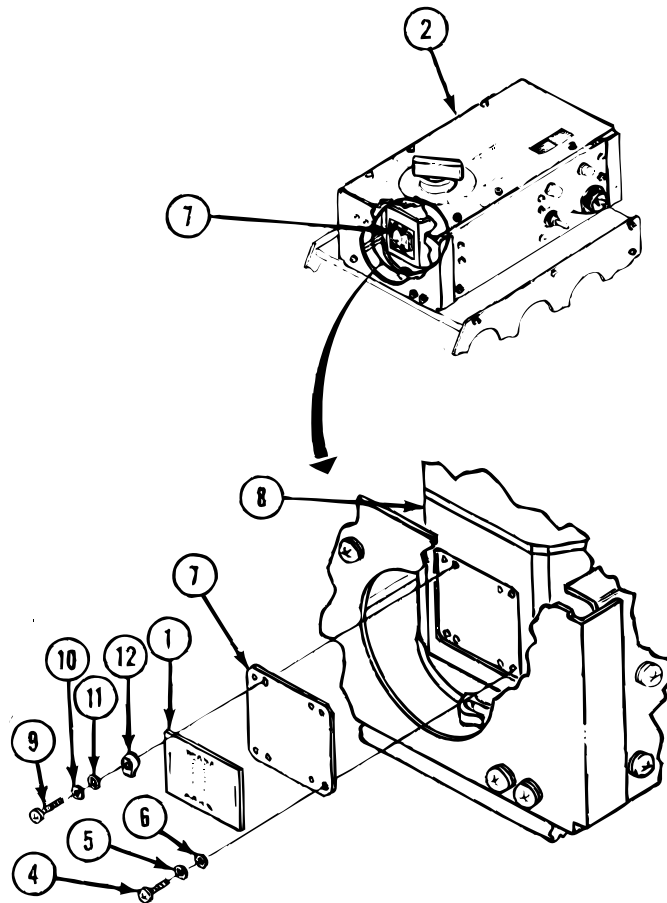
Materials/Parts:

Lockwashers (8)
Daylight Telescope Target



REMOVE

1. REMOVE DAYLIGHT TELESCOPE TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to DAYLIGHT TELESCOPE position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and daylight telescope target plate (7) from spindle and drum assembly (8). Discard lockwashers.
 - c. Remove four screws (9), lockwashers (10), flat washers (11), target retainers (12), and daylight telescope target (1) from daylight telescope target plate (7). Discard lockwashers.

**INSTALL**

2. INSTALL DAYLIGHT TELESCOPE TARGET (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Secure daylight telescope target (1) to daylight telescope target plate (7) with four screws (9), new lockwashers (10), flat washers (11) and target retainers (12).
 - b. Install four screws (4), new lockwashers (5), flat washers (6) and daylight telescope target plate (7) on spindle and drum assembly (8).

END OF TASK

REPLACE COLLIMATOR SM-D-969722 WIRING HARNESS W1

0133 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

References:

TM 9-254

Materials/Parts:

Lockwashers (9)
Wiring Harness W1
Silicone Compound (Item 14, WP 0210 00)
Safety Wire (Item 15, WP 0210 00)

Equipment Conditions:

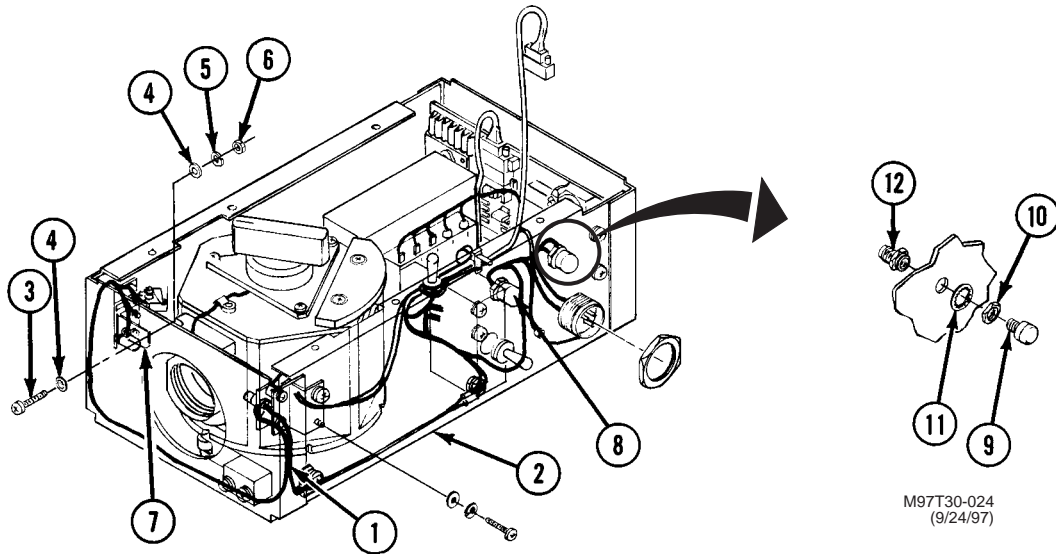
Remove shroud; refer to WP 0115 00.
Remove covers; refer to WP 0116 00.

NOTE

Read WP 0043 00 before doing any work.

Some thermal sight collimators are not equipped with the cam and sensitive switch shown in illustrations. Read WP 0002 00, Differences Between Models.

Refer to foldout Figure 7 or 8 in WP 0004 00 located at rear of this TM.

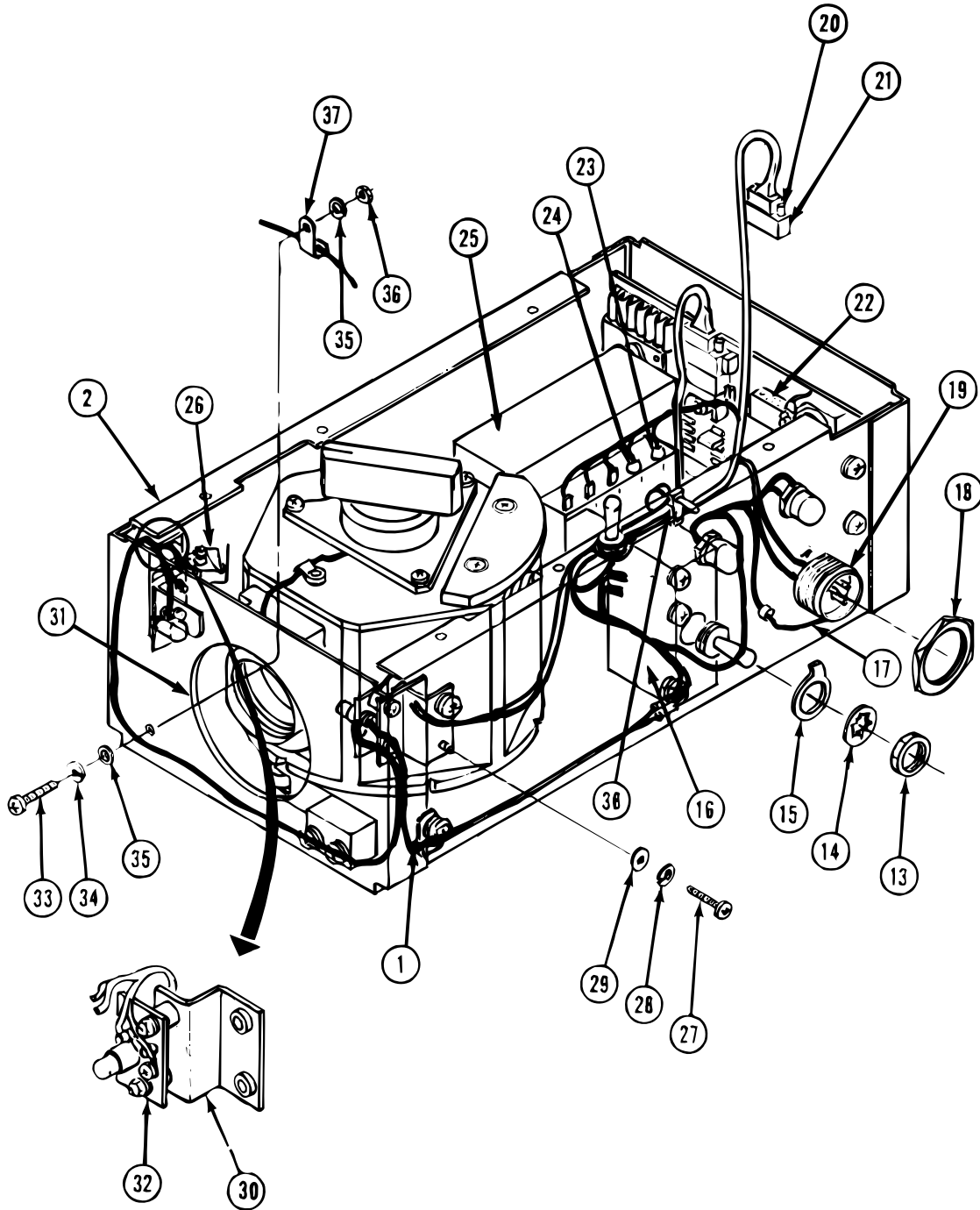
**REMOVE**

1. REMOVE WIRING HARNESS W1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).

NOTE

Steps la, lb, and lj only apply to units equipped with the sensitive switch.

- a. Remove two screws (3), four flat washers (4) two lockwashers (5), and two nuts (6) securing switch bracket (7) to temperature controller assembly (2). Discard lockwashers.
- b. Pull switch bracket (7) out of temperature controller assembly (2).
- c. Remove READY (8) and POWER ON (9) indicator lamps.
- d. Remove two nuts (10) and lockwashers (11) from two lamp receptacles (12). Push lamp receptacles (12) inside temperature controller assembly (2).
- e. Remove nut (13), lockwasher (14) and key washer (15) from circuit breaker CB1 (16). Push circuit breaker CB 1 (16) inside temperature controller assembly (2).
- f. Cut safety wire (17) and remove jam nut (18) from connector J1 (19). Push connector J1 (19) inside temperature controller assembly (2).
- g. Alternately loosen two captive screws (20) and remove connector W1P1 (21) from circuit card A1A1 J2 (22).
- h. Remove silicone compound from terminals 1 (23) and 2 (24) of transformer T1 (25).
- i. Unsolder wires from transformer T1 (25).
- j. Unsolder wires from sensitive switch (26).
- k. Remove four screws (27), lockwashers (28), and flat washers (29) from temperature controller assembly (2). Discard lockwashers.
- l. Pull two visible lamp brackets (30) through aperture (31).
- m. Unsolder leads from visible lamp assembly PWB's (32).
- n. Remove three screws (33), three lockwashers (34), six flat washers (35), three nuts (36) and three cable clamps (37) from temperature controller assembly (2). Discard lockwashers.
- o. Cut cable ties (38) as necessary.
- p. Remove wiring harness (1) from temperature controller assembly (2).



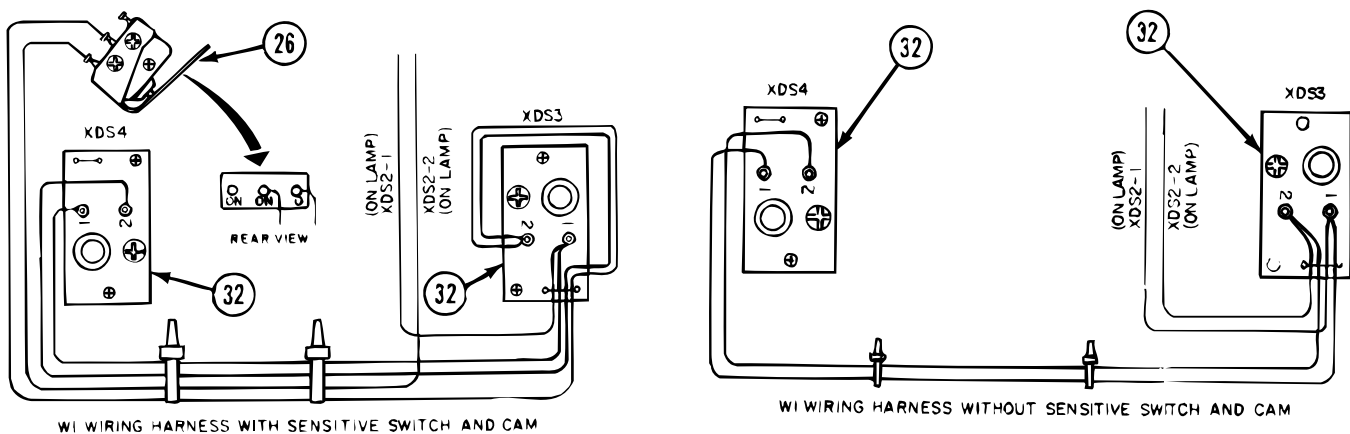
INSTALL

NOTE

Steps 2d and 2m apply only to units equipped with the sensitive switch.

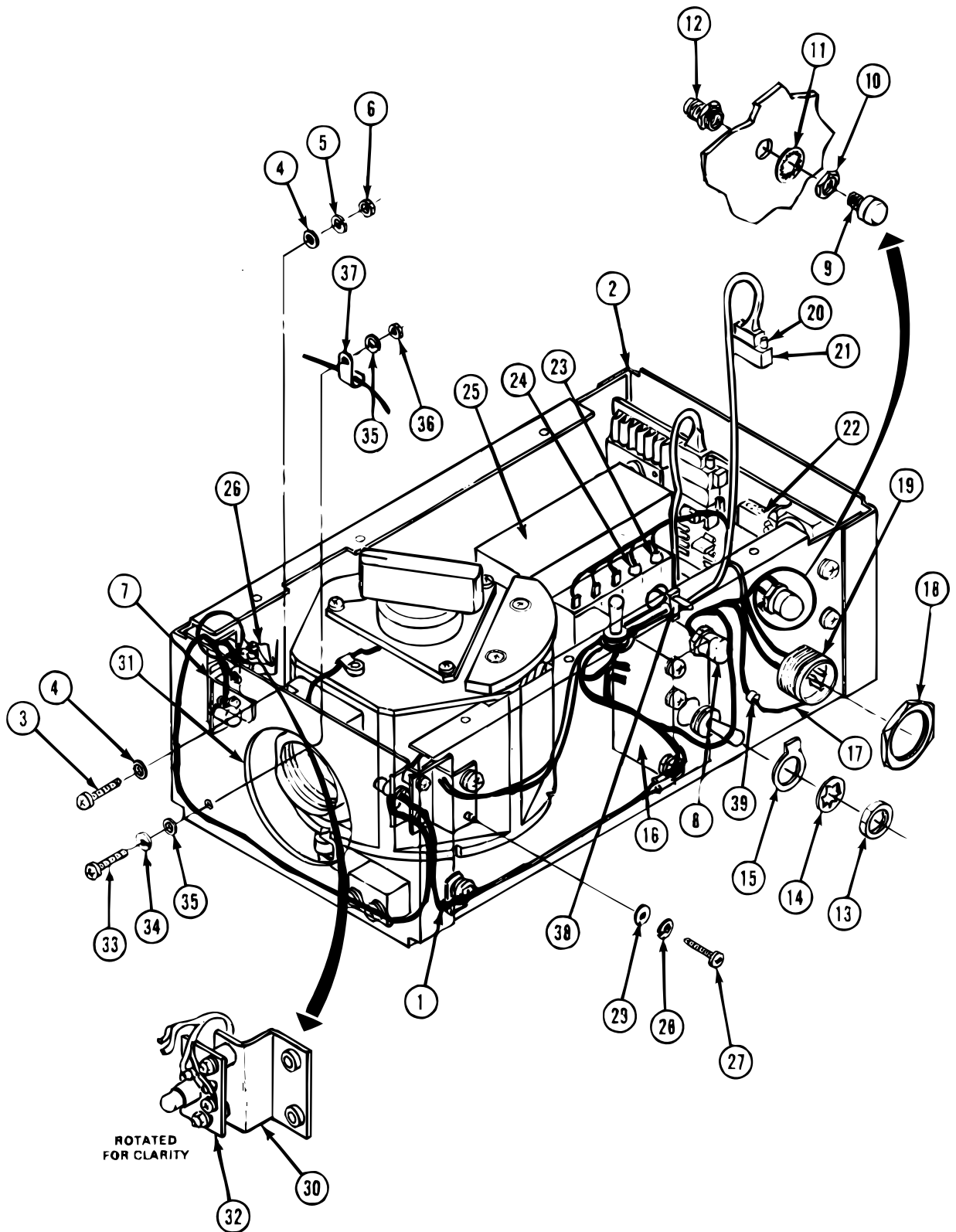
Wires of wiring harness W1 are installed differently for units with or without a sensitive switch. Both cases are illustrated. Also refer to the thermal sight collimator interconnecting wiring list, Table 1 of WP 0039 00 (without switch) or Table 2 of WP 0039 00 (with switch).

If the unit is not equipped with a sensitive switch, one wire of the replacement harness will be unused. This wire may be discarded.



2. INSTALL NEW WIRING HARNESS W1 (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).

- a. Place wiring harness W1 (1) inside temperature controller assembly (2).
- b. Solder leads to visible lamp assembly PWB's (32).
- c. Position visible lamp brackets (30) through aperture (31) in temperature controller assembly (2) and attach with four screws (27), new lockwashers (28), and flat washers (29).
- d. Solder wires to sensitive switch (26).
- e. Solder wires to transformer T1 (25).
- f. Apply silicone compound to terminals 1 (23) and 2 (24) of transformer T1 (25).
- g. Install connector W1P1 (21) on circuit card A1A1 J2 (22) by alternately tightening two screws (20).
- h. Position connector J1 (19) in temperature controller assembly (2) and install jam nut (18).
- i. Install safety wire (17) on jam nut (18) and screw (39). Refer to TM 9-254.
- j. Install circuit breaker CB1 (16), nut (13), lockwasher (14), and key washer (15) on temperature controller assembly (2).
- k. Install two nuts (10), lockwashers (11), and lamp receptacles (12) on temperature controller assembly (2).
- l. Install READY (8) and POWER ON (9) indicator lamps.
- m. Install two screws (3), four flat washers (4), two new lockwashers (5), switch bracket (7), and two nuts (6) on temperature controller assembly (2).



INSTALL – Continued

- n. Place three cable clamps (37) on wiring harness W1 (1) and secure with three screws (33), three new lockwashers (34), six flat washers (35), and three nuts (36).
- o. Install cable ties (38) as required.

END OF TASK

**COLLIMATOR SM-D-969722 TEMPERATURE CONTROLLER ASSEMBLY OFFSET
VOLTAGE ADJUSTMENT**

0135 00

THIS WORK PACKAGE COVERS:

Adjustment

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05
Digital Voltmeter

Equipment Conditions:

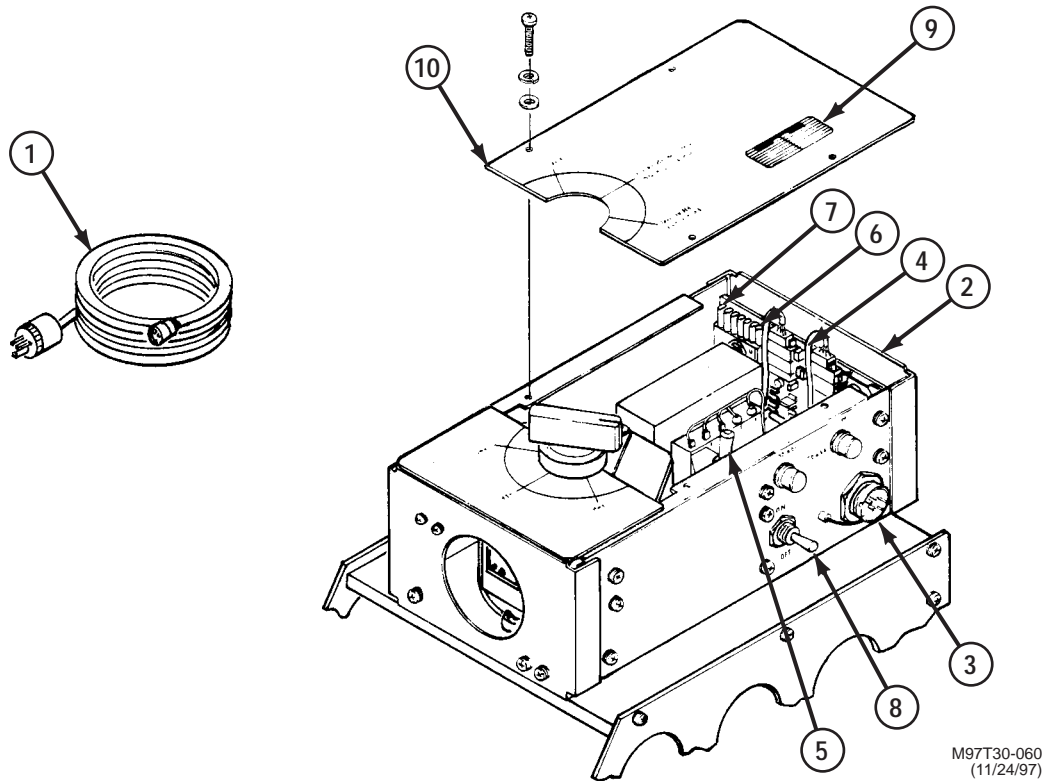
Remove shroud; refer to WP 0115 00.
Remove right cover; refer to WP 0116 00.

CAUTION

Do not apply power to unit for a minimum of 2 hours before performing this adjustment. Ensure that unit is allowed to stabilize at ambient temperature for at least 2 hours before performing this adjustment.

**COLLIMATOR SM-D-969722 TEMPERATURE CONTROLLER ASSEMBLY OFFSET
VOLTAGE ADJUSTMENT - CONTINUED**

0135 00

**ADJUST**

1. CONNECT POWER CABLE WI (1) TO TEMPERATURE CONTROLLER ASSEMBLY (2) CONNECTOR J1 (3), AND 115 VAC, 60 HZ SOURCE.
2. ADJUST CIRCUIT CARD A1A1 R4 (4) FOR CORRECT OFFSET VOLTAGE.
 - a. Set ON/ ALIGN switch (5) to ALIGN.
 - b. Insert positive voltmeter probe into circuit card A1A1 J9 (red) (6).
 - c. Insert negative probe into circuit card A1A1 J7 (black) (7).
 - d. Set ON/OFF circuit breaker CB1 (8) to ON.
 - e. Adjust circuit card A1A1 R4 (4) until voltmeter indicates the voltage shown on calibration sticker (9) on right cover (10).
 - f. Set ON/OFF circuit breaker CBI (8) to OFF.
 - g. Set ON/ALIGN switch (5) to ON.
 - h. Remove voltmeter probes.
3. IF CORRECT VOLTAGE COULD NOT BE OBTAINED IN STEP 2, TURN IN THERMAL SIGHT COLLIMATOR.

END OF TASK

THIS WORK PACKAGE COVERS:

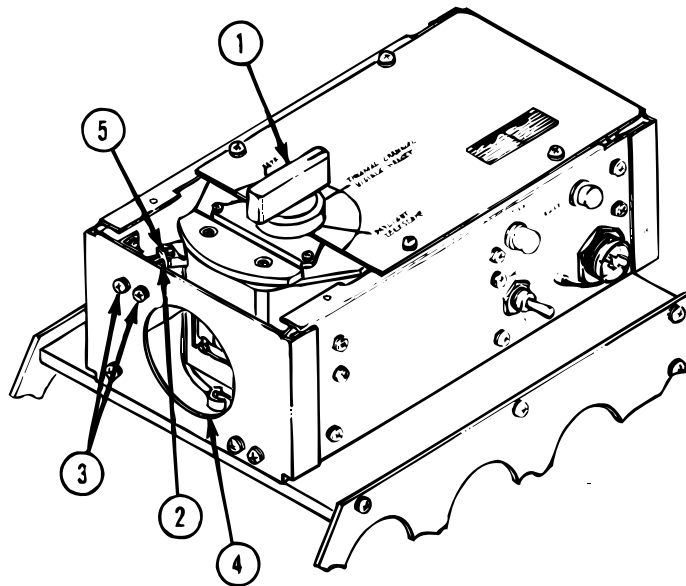
Adjustment

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0115 00.
Remove left cover; refer to WP 0116 00.

**ADJUST**

1. SET TARGET SELECT KNOB (1) TO THERMAL CHANNEL VISIBLE TARGET POSITION.
2. ADJUST SWITCH BRACKET (2) POSITION.
 - a. Loosen two attaching screws (3) and slide switch bracket (2) fully away from aperture (4).
 - b. Slide switch bracket (2) toward aperture (4) until a click is heard when sensitive switch (5) is activated.
 - c. Tighten two screws (3).
 - d. Set target select knob (1) to MTF position and listen for click as sensitive switch (5) is deactivated.
 - e. Repeat steps 2a through 2d as necessary to achieve proper operation of sensitive switch (5).

END OF TASK

REMOVE/INSTALL COLLIMATOR 12951545 SHROUD

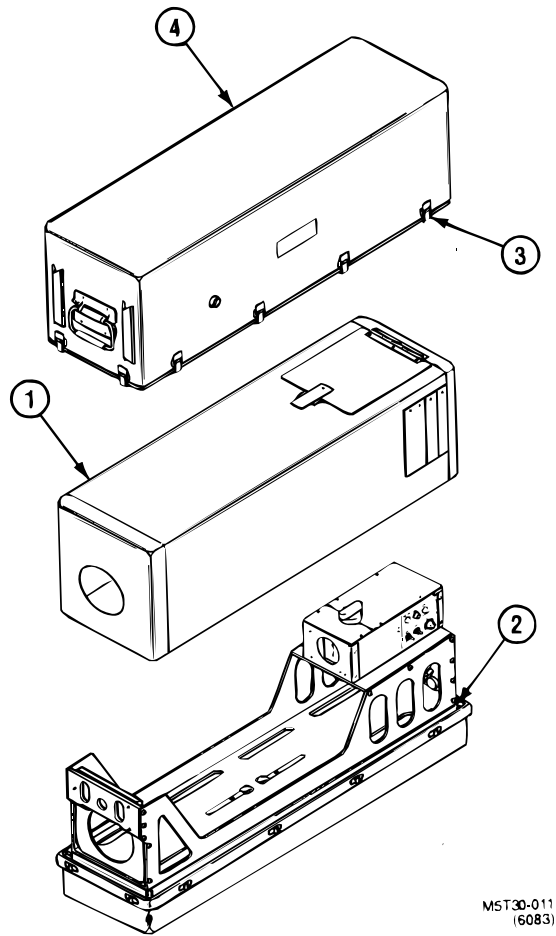
0137 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Materials/Parts:Shroud

**REMOVE**

1. REMOVE SHROUD (1) FROM THERMAL SIGHT COLLIMATOR (2).
 - a. Release 12 latches (3) and remove container case cover (4) from thermal sight collimator (2).
 - b. Remove shroud (1) from thermal sight collimator.

INSTALL

2. INSTALL SHROUD (1) ON THERMAL SIGHT COLLIMATOR (2).
 - a. Install shroud (1) on thermal sight collimator (2).
 - b. Install container case cover (4) on thermal sight collimator (2) and secure 12 latches (3).

END OF TASK

REMOVE/INSTALL COLLIMATOR 12951545 COVERS

0138 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

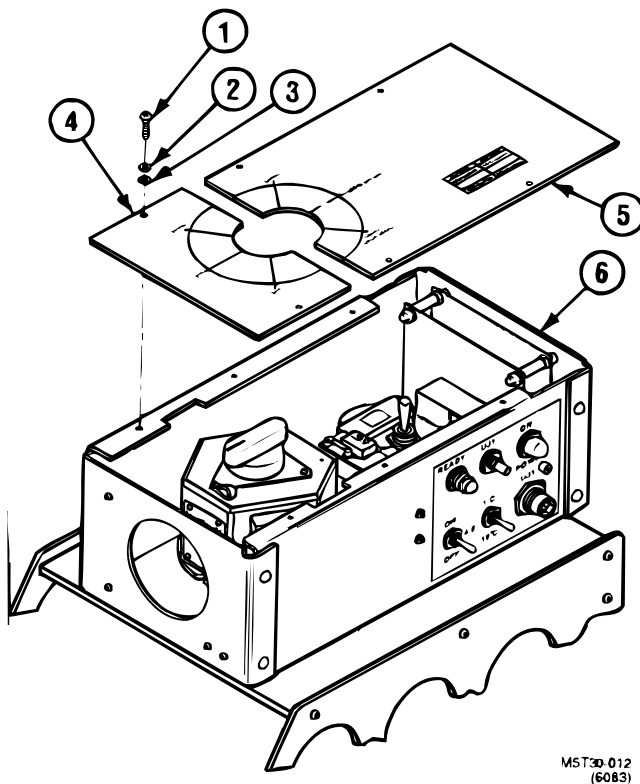
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.

Materials/Parts:

Lockwashers (6)
Covers
Sealing Compound (Item 17, WP 0210 00)

**NOTE**

Use this task to replace the left, right, or both covers.

REMOVE

1. REMOVE SIX SCREWS (1), LOCKWASHERS (2), FLAT WASHERS (3), LEFT COVER (4), AND RIGHT COVER (5) FROM TEMPERATURE CONTROLLER ASSEMBLY (6). DISCARD LOCKWASHERS.

INSTALL

2. INSTALL LEFT AND RIGHT COVERS (4, 5) ON TEMPERATURE CONTROLLER ASSEMBLY (6).
 - a. Place left cover (4) and right cover (5) on temperature controller assembly (6).
 - b. Apply a light coat of sealing compound to threads of six screws (1).
 - c. Install six screws (1), new lockwashers (2), and washers (3) securing covers (4, 5) to temperature controller assembly (6).

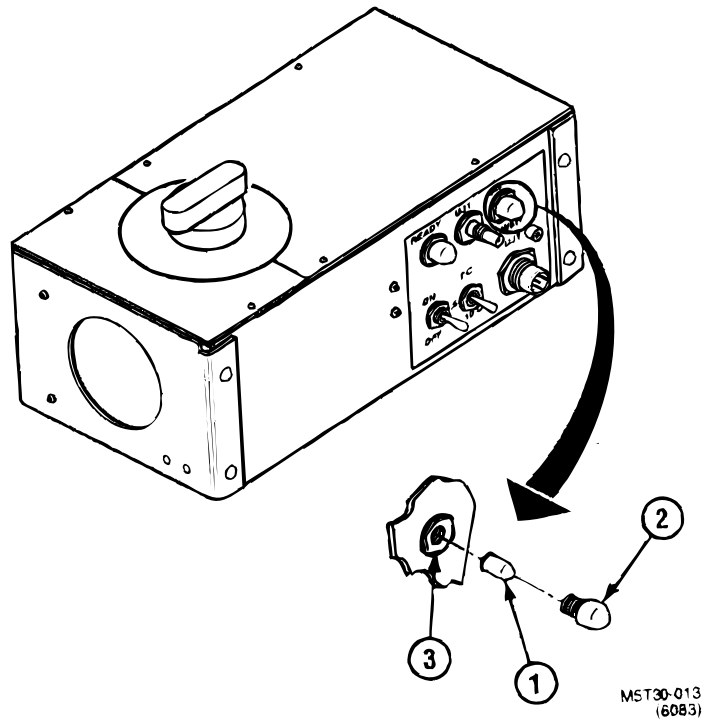
END OF TASK

REPLACE COLLIMATOR 12951545 READY AND POWER ON INDICATOR LAMPS**0139 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Equipment Conditions:**

Remove shroud; refer to WP 0137 00.

**NOTE**

Use this task to replace either the READY or POWER ON indicator lamps. POWER ON indicator lamp is shown.

REMOVE

1. REMOVE INDICATOR LAMP (1).
 - a. Unscrew lens cap (2) from lampholder (3).
 - b. Pull lamp (1) from lampholder (3).

INSTALL

2. INSTALL NEW INDICATOR LAMP (1).
 - a. Insert lamp (1) into lampholder (3).
 - b. Install lens cap (2) on lampholder (3).

END OF TASK

REPLACE COLLIMATOR 12951545 READY OR POWER ON INDICATOR LAMP HOUSING

0140 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

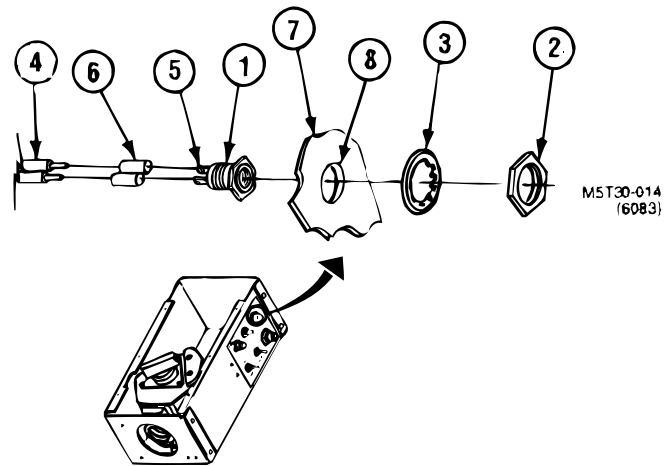
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.
Remove READY or POWER ON indicator lamp; refer to WP 0139 00.

Materials/Parts:

Indicator Lamp Housing
Lacing Tape (Item 6, WP 0210 00)
Insulation Sleeving (as required)



NOTE

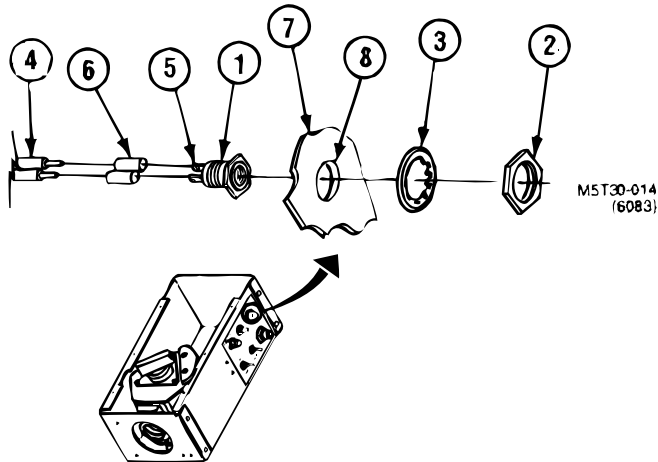
Use this task to replace either the READY or POWER ON indicator lamp housing. POWER ON indicator lamp housing shown.

Read WP 0043 00 before doing any work.

Refer to foldout Figure 9 of WP 0004 00.

REMOVE

1. REMOVE INDICATOR LAMP HOUSINGS (1).
 - a. Remove nut (2) and washer (3) from housing (1).
 - b. Lift housing (1), with wires (4) attached, allowing access to terminals (5); cut lacing tape as necessary.
 - c. Cut insulation sleeving (6) from terminals (5). Discard insulation sleeving.

**REMOVE – Continued**

- d. Unsolder and remove wires (4) from terminals (5); remove housing (1) from temperature controller assembly (7).

INSTALL

2. INSTALL NEW INDICATOR LAMP HOUSING (1).
 - a. Cut two 1/2-inch long pieces of insulation sleeving (6) and install on wires (4); if necessary, trim wires.
 - b. Place housing (1) in temperature controller assembly (7) allowing access for connecting wires (4) to terminals (5).
 - c. Solder wires (4) to terminals (5).
 - d. Slide insulation sleeving (6) over each solder connection, and shrink the insulation sleeving.
 - e. Place housing (1) in mounting hole (8) in temperature controller assembly (7); install washer (3) and nut (2).

END OF TASK

REPLACE COLLIMATOR 12951545 TARGET SELECT KNOB**0141 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

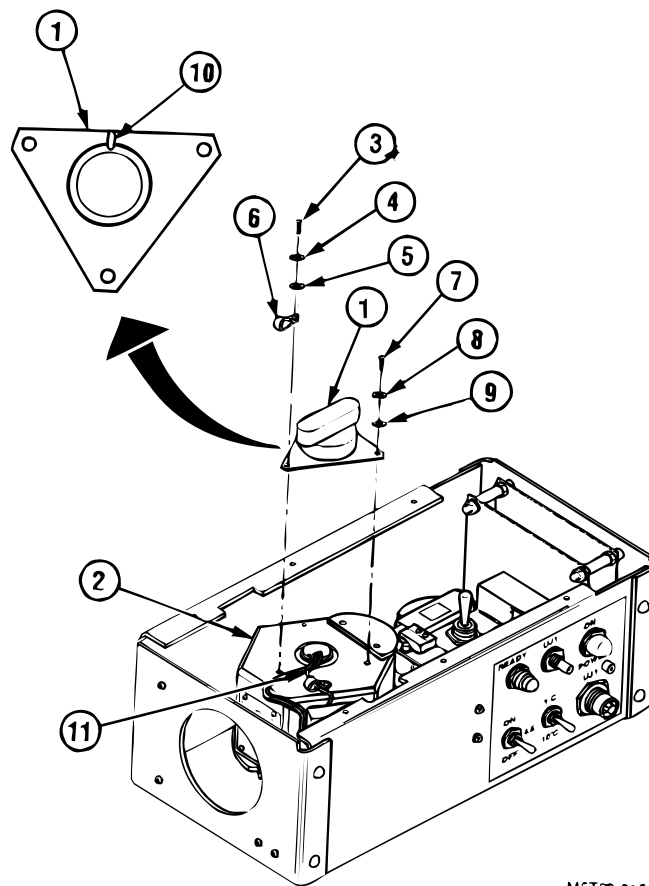
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

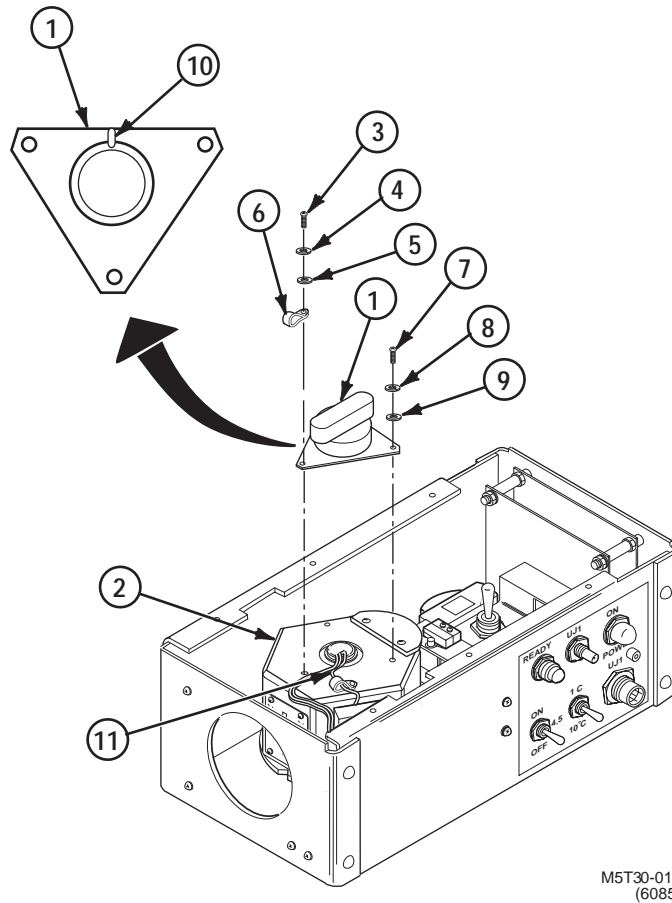
Target Select Knob
Lockwashers (3)
Sealing Compound (Item 17, WP 0210 00)



MST30-015
(6085)

REMOVE

1. REMOVE TARGET SELECT KNOB (1) FROM SPINDLE AND DRUM ASSEMBLY (2).
 - a. Remove screw (3), lockwasher (4), and flat washer (5) securing harness clamp (6) to base of target select knob (1). Discard lockwasher.
 - b. Remove remaining two screws (7), lockwashers (8), and flat washers (9) securing target select knob (1) to spindle and drum assembly (2). Discard lockwashers.
 - c. Remove target select knob (1).



INSTALL

2. INSTALL NEW TARGET SELECT KNOB (1) ON SPINDLE AND DRUM ASSEMBLY (2).

- a. Position target select knob (1) on spindle and drum assembly (2) so that channel (10) is over harness wires (11).
- b. Apply a light coat of sealing compound to threads of three screws (3, 7).
- c. Install screw (3), new lockwasher (4), and washer (5) securing harness clamp (6) and target select knob (1) to spindle and drum assembly (2).
- d. Install remaining two screws (7), new lockwashers (8), and flat washers (9) securing target select knob (1) to spindle and drum assembly (2).

END OF TASK

**REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4**

0142 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.
Remove POWER ON indicator lamp; refer to WP 0139 00.

Materials/Parts:

Sealing Compound (Item 17, WP 0210 00)
Lacing Tape (Item 6, WP 0210 00)
Lockwashers (2)

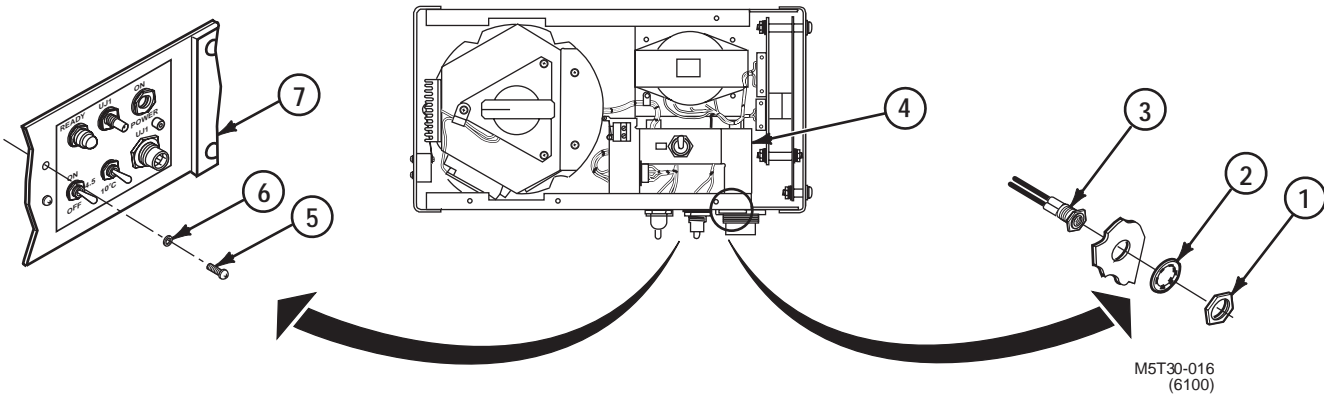
NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 9 in WP 0004 00 located at
rear of this TM.

REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4 - CONTINUED

0142 00



REMOVE

1. REMOVE NUT (1) AND WASHER (2) FROM POWER ON INDICATOR LAMP HOUSING (3).
2. PULL AND POSITION LAMP HOUSING (3), WITH WIRES ATTACHED, TO ALLOW REMOVAL OF BRACKET (4).
3. REMOVE TWO SCREWS (5) AND LOCKWASHERS (6) SECURING BRACKET (4) TO SIDE PANEL OF TEMPERATURE CONTROLLER ASSEMBLY (7). DISCARD LOCKWASHERS.
4. LIFT AND MOVE BRACKET (4), WITH WIRE ATTACHED, ALLOWING ACCESS TO COMPONENT TO BE REMOVED.

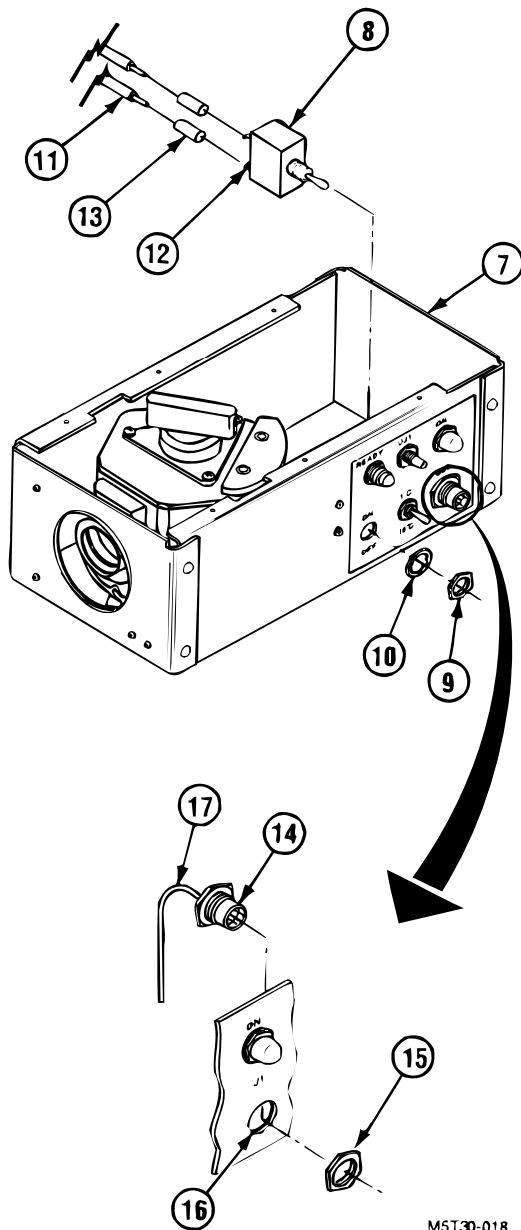
NOTE

Perform step 5 to remove circuit breaker CB1. Perform step 6 to remove connector J1. Perform step 7 to remove switch S3. Perform step 8 to remove switch S4.

5. REMOVE CIRCUIT BREAKER CB1 (8) FROM TEMPERATURE CONTROLLER ASSEMBLY (7).
 - a. Remove nut (9) and washer (10) from circuit breaker (8).
 - b. Lift circuit breaker (8), with wires (11) attached, allowing access to terminals (12); cut lacing tape as necessary.
 - c. Cut insulation sleeving (13) from terminals (12). Discard insulation sleeving.
 - d. Unsolder and remove wires (11) from terminals (12); remove circuit breaker (8) from temperature controller assembly (7).

**REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4 - CONTINUED**

0142 00



M5T30-018
(6085)

REMOVE – Continued

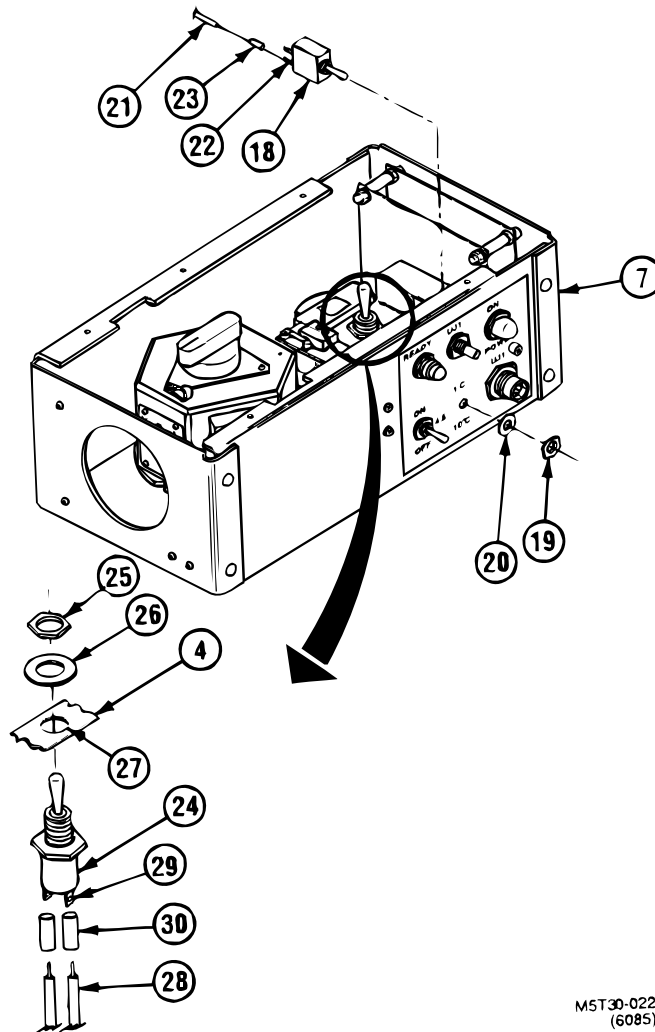
6. REMOVE CONNECTOR J1 (14) FROM TEMPERATURE CONTROLLER ASSEMBLY (7).
 - a. Remove jam nut (15) from connector J1 (14) and push connector through mounting hole (16) into temperature controller assembly (7).
 - b. Cut three wires (17) at back of connector J1 (14).
 - c. Remove connector J1 (14) from temperature controller assembly (7).

7. REMOVE SWITCH S3 (18) FROM TEMPERATURE CONTROLLER ASSEMBLY (7).
 - a. Remove nut (19) and washer (20) from switch S3 (18).
 - b. Lift switch S3 (18), with wires (21) attached, allowing access to terminals (22); cut lacing tape as necessary.

REMOVE – Continued

REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4 - CONTINUED

0142 00



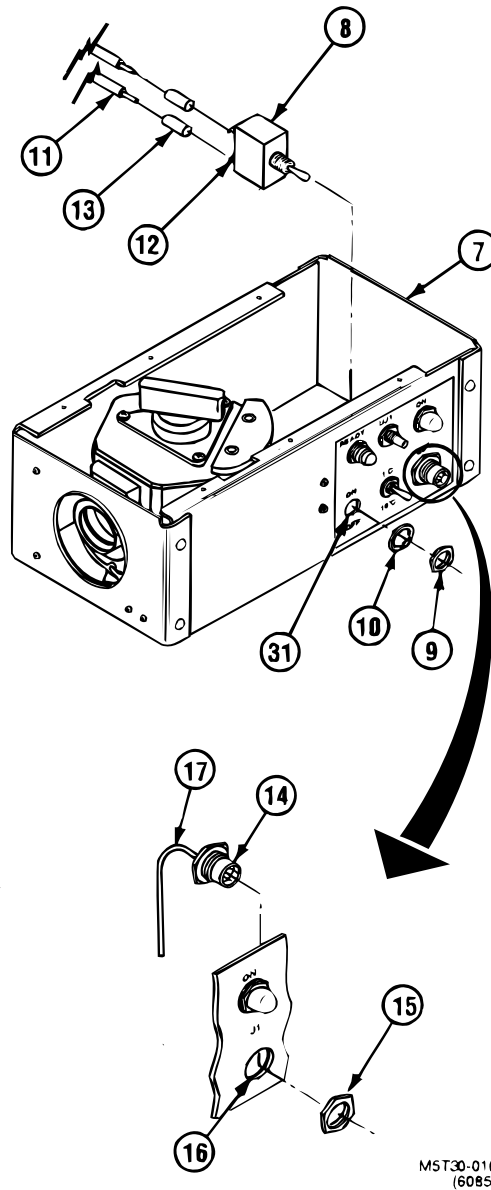
M5T30-022
(6085)

- c. Cut insulation sleeving (23) from terminals (22). Discard insulation sleeving.
 - d. Unsolder and remove wires (21) from terminals (22); remove switch S3 (18) from temperature controller assembly (7).
8. REMOVE SWITCH S4 (24) FROM TEMPERATURE CONTROLLER ASSEMBLY (7).
- a. Remove nut (25) and washer (26) from switch S4 (24).
 - b. Lift and move bracket (4) and push switch S4 (24) through mounting hole (27) in bracket, with wires (28) attached, allowing access to terminals (29), cut lacing tape as necessary.
 - c. Cut insulation sleeving (30) from terminals (29). Discard insulation sleeving.
 - d. Remove wires (28) from terminals (29); remove switch S4 (24) from temperature controller assembly (7).

INSTALL

**REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4 - CONTINUED**

0142 00



MST30-018
(6085)

NOTE

Perform steps 9 and 13 thru 16 to install circuit breaker CB1. Perform steps 10 and 13 thru 16 to install connector J1. Perform steps 11 and 13 thru 16 to install switch S3. Perform steps 12 thru 16 to install switch S4.

INSTALL – Continued

REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1, SWITCH S3, OR SWITCH S4 - CONTINUED

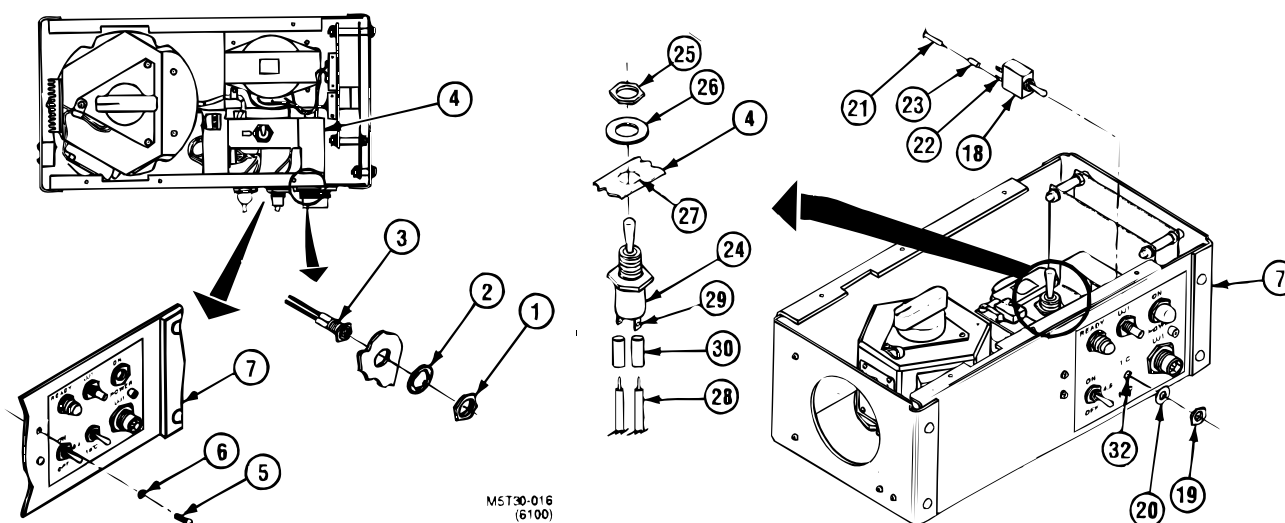
0142 00

9. INSTALL NEW CIRCUIT BREAKER CB1 (8) ON TEMPERATURE CONTROLLER ASSEMBLY (7).

- a. Cut two 1/2-inch long pieces of insulation sleeving (13) and install on wires (11); if necessary, trim wires.
- b. Place circuit breaker (8) in temperature controller assembly (7) allowing access for connecting wires (11) to terminals (12).
- c. Solder wires (11) to terminals (12).
- d. Slide insulation sleeving (13) over each solder connection; shrink the insulation sleeving; lace wiring as necessary.
- e. Place circuit breaker (8) in mounting hole (31) in temperature controller assembly (7); install washer (10) and nut (9).

10. INSTALL CONNECTOR J1 (14) ON TEMPERATURE CONTROLLER ASSEMBLY (7).

- a. Strip required length of insulation from ends of three wires (17).
- b. Install new pins on three wires (17).



- c. Place new connector J1 (14) in temperature controller assembly (7) for access to new pins on wires (17).

NOTE

Pin insertion/extraction tool is provided with new connector.

- d. Install pins in connector J1 (14).
- e. Insert connector J1 (14) in mounting hole (16).
- f. Install jam nut (15) on connector J1 (14) securing connector to temperature controller assembly (7).

11. INSTALL SWITCH S3 (18) ON TEMPERATURE CONTROLLER ASSEMBLY (7).

- a. Cut two 1/2-inch long pieces of insulation sleeving (23) and install on wires (21); if necessary, trim wires.
- b. Place new switch S3 (18) in temperature controller assembly (7) allowing access for connecting wires (21) to terminals (22).

INSTALL - Continued

**REPLACE COLLIMATOR 12951545 CIRCUIT BREAKER CB1, CONNECTOR J1,
SWITCH S3, OR SWITCH S4 - CONTINUED**

0142 00

- c. Solder wires (21) to terminals (22).
 - d. Slide insulation sleeving (23) over each solder connection; shrink the insulation sleeving.
 - e. Place switch S3 (18) in mounting hole (32) in temperature controller assembly (7); install new washer (20) and nut (19).
12. INSTALL SWITCH S4 (24) ON TEMPERATURE CONTROLLER ASSEMBLY (7).
- a. Cut two 1/2-inch long pieces of insulation sleeving (30) and install on wires (28); if necessary, trim wires.
 - b. Place new switch S4 (24) in temperature controller assembly (7) allowing access for connecting wires (28) to terminals (29).
 - c. Solder wires (28) to terminals (29).
 - d. Slide insulation sleeving (30) over each solder connection; shrink the insulation sleeving.
 - e. Place switch S4 (24) in mounting hole (27) in bracket (4).
 - f. Install nut (25) and washer (26) securing switch S4 (24) to bracket (4).
13. POSITION BRACKET (4) FOR MOUNTING TO SIDE PANEL OF TEMPERATURE CONTROLLER ASSEMBLY (7).
14. APPLY A LIGHT COAT OF SEALING COMPOUND TO THREADS OF TWO SCREWS (5).
15. INSTALL TWO SCREWS (5) AND NEW LOCKWASHERS (6) TO SECURE BRACKET (4) TO SIDE PANEL OF TEMPERATURE CONTROLLER ASSEMBLY (7).
16. PLACE LAMP HOUSING (3) IN MOUNTING HOLE IN TEMPERATURE CONTROLLER ASSEMBLY (7); INSTALL WASHER (2) AND NUT (1).

END OF TASK

REPLACE COLLIMATOR 12951545 TRANSFORMER T1

0143 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

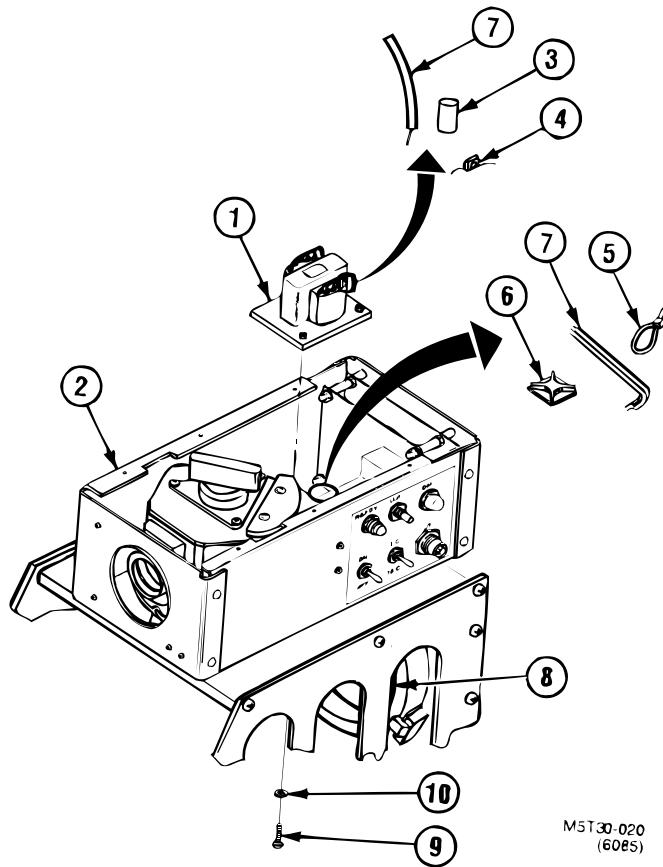
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

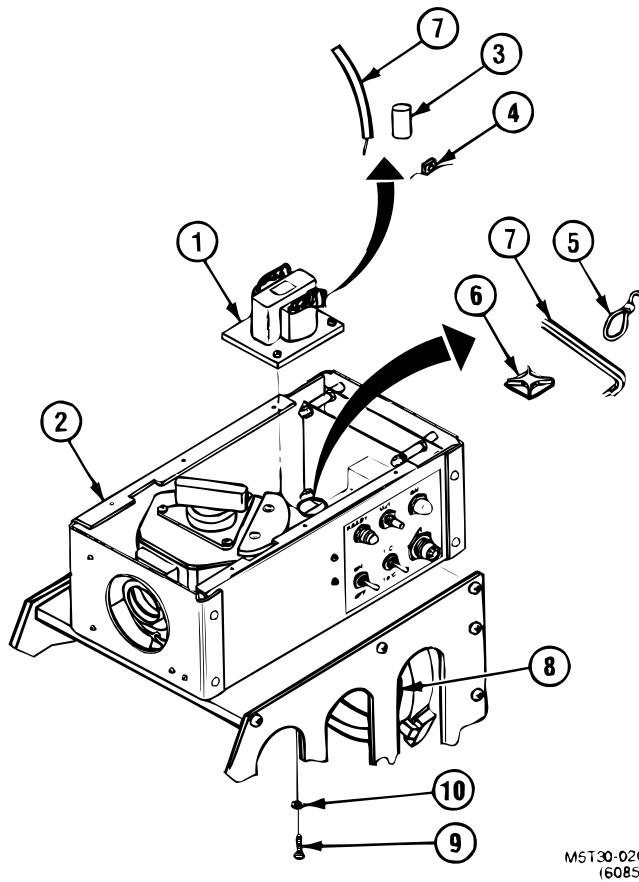
Transformer
Lacing Tape (Item 6, WP 0210 00)
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (4)



NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 9 in WP 0004 00 located at rear of this TM.

**REMOVE**

1. REMOVE TRANSFORMER T1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Cut insulation sleeving (3) from terminals (4). Discard insulation sleeving.

NOTE

If necessary, cut lacing tape and remove cable ties (5) from mounts (6) securing cable assembly W2 wiring (7).

- b. Unsolder and remove wires (7) from terminals (4).

CAUTION

Be careful not to scratch or break collimating mirror (8) when removing attaching hardware for transformer T1 (1).

- c. Remove four screws (9) and lockwashers (10) attaching transformer T1 (1) to bottom of temperature controller assembly

REPLACE COLLIMATOR 12951545 TRANSFORMER T1 - CONTINUED

0143 00

(2). Discard lockwashers.

- d. Remove transformer T1 (1) from temperature controller assembly (2).

INSTALL

2. INSTALL NEW TRANSFORMER T1 (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).

- a. Place new transformer T1 (1) in temperature controller assembly (2).

CAUTION

Be careful not to scratch or break collimating mirror (8) when installing attaching hardware for transformer T1 (1).

- b. Apply a light coat of sealing compound to threads of four screws (9).
c. Install four screws (9) and new lockwashers (10) to secure transformer T1 (1) to bottom.
d. Cut five 1/2-inch long pieces of insulation sleeving (3) and install on wires (7); if necessary, trim wires.
e. Solder wires (7) to terminals (4).
f. Slide insulation sleeving (3) over each solder connection; shrink the insulation sleeving.
g. If cable ties (5) were cut from wires (7) install new cable ties (5) to secure cable assembly W2 wiring (7) to mounts (6).

END OF TASK

REPLACE COLLIMATOR 12951545 CONNECTOR UJ1

0144 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

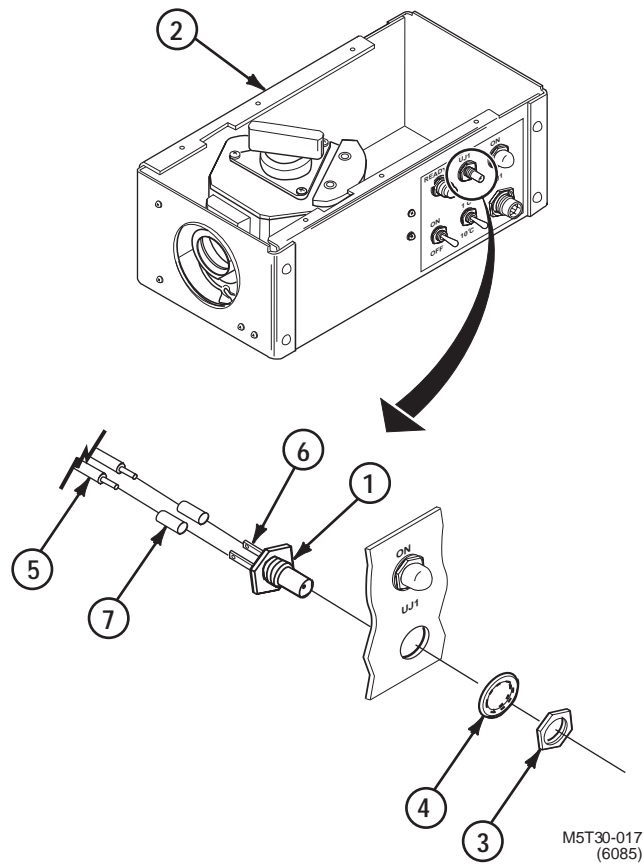
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

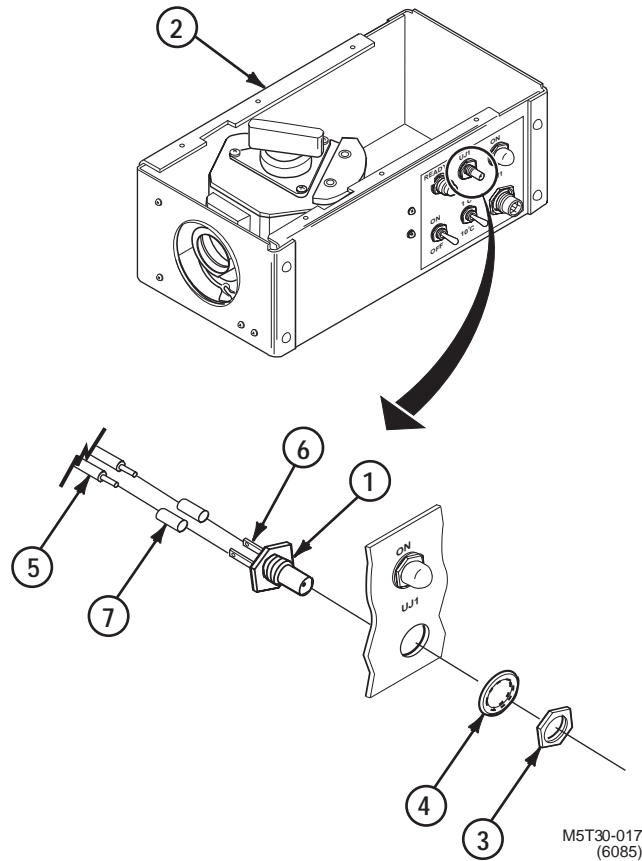
Connector
Lacing Tape (Item 6, WP 0210 00)



NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 9 in WP 0004 00 located at rear of this TM.



REMOVE

1. REMOVE CONNECTOR UJ1 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Remove nut (3) and washer (4) from connector UJ1 (1).
 - b. Lift connector UJ1 (1), with wires (5) attached, allowing access to terminals (6); cut lacing tape as necessary.
 - c. Cut insulation sleeving (7) from terminals (6). Discard insulation sleeving.
 - d. Unsolder and remove wires (5) from terminals (6); remove connector UJ1 (1) from temperature controller assembly (2).

INSTALL

2. INSTALL CONNECTOR UJ1 (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Cut two 1/2-inch long pieces of insulation sleeving (7) and install on wires (5); if necessary; trim wires.
 - b. Place new connector UJ1 (1) in temperature controller assembly (2) allowing access for connecting wires (5) to terminals (6).
 - c. Solder wires (5) to terminals (6).
 - d. Slide insulation sleeving (7) over each solder connection; shrink the insulation sleeving.
 - e. Place connector UJ1 (1) in mounting hole in temperature controller assembly (2); install new washer (4) and nut (3).

END OF TASK

REPLACE COLLIMATOR 12951545 SENSITIVE SWITCH S2

0145 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

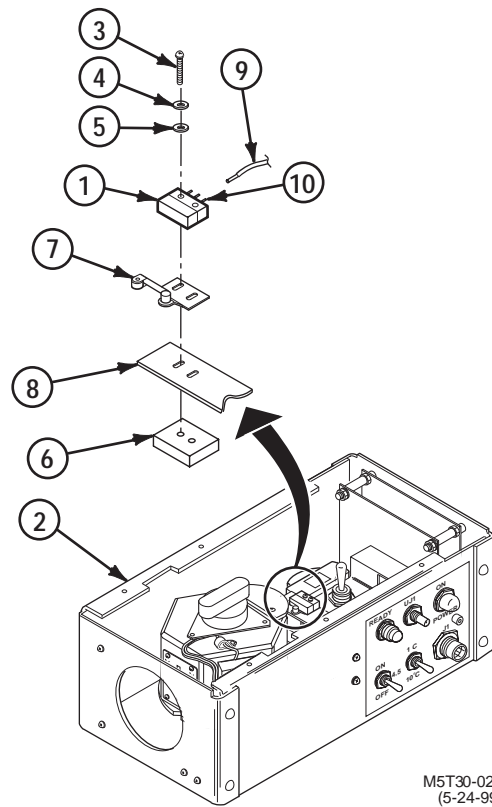
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

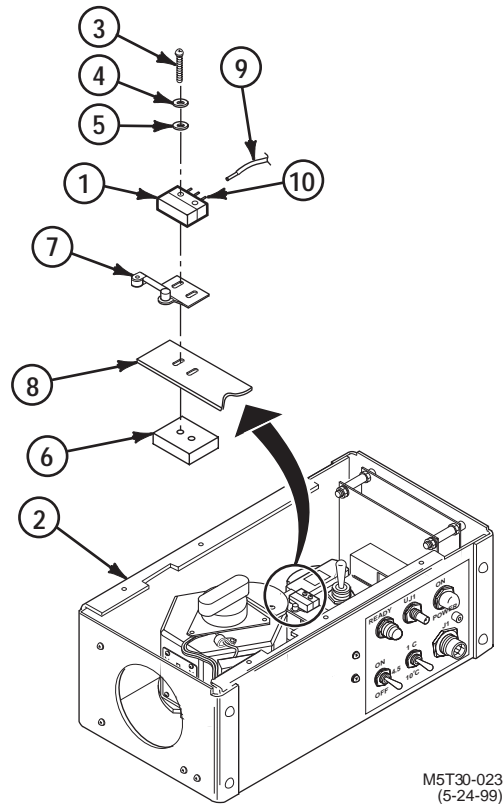
Switch
Sealing Compound (Item 17, WP 0210 00)



NOTE

Read WP 0043 00 before doing any work.

Refer to foldout Figure 9 in WP 0004 00 located at rear of this TM.

**REMOVE**

1. REMOVE SWITCH S2 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Remove two screws (3), lockwashers (4), flat washers (5), and nut plate (6) securing switch S2 (1) and actuator (7) to bracket (8). Discard lockwashers.
 - b. Unsolder and remove two wires (9) from terminals (10); remove switch S2 (1) from temperature controller assembly (2).

INSTALL

2. INSTALL SWITCH S2 (1) ON TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Place new switch S2 (1) in temperature controller assembly (2) allowing access for connecting wires (9) to terminals (10); if necessary, trim wires.
 - b. Solder two wires (9) to two terminals (10).
 - c. Apply a light coat of sealing compound to threads of two screws (3).
 - d. Place switch S2 (1) on actuator (7) and bracket (8).
 - e. Place nut plate (6) under bracket (8) and install two screws (3), new lockwashers (4), and flat washers (5).
 - f. Align switch S2 (1) and actuator (7), refer to WP 0156 00.

END OF TASK

REPLACE COLLIMATOR 12951545 LOGIC CONTROL CCA OR POWER SUPPLY CCA**0146 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

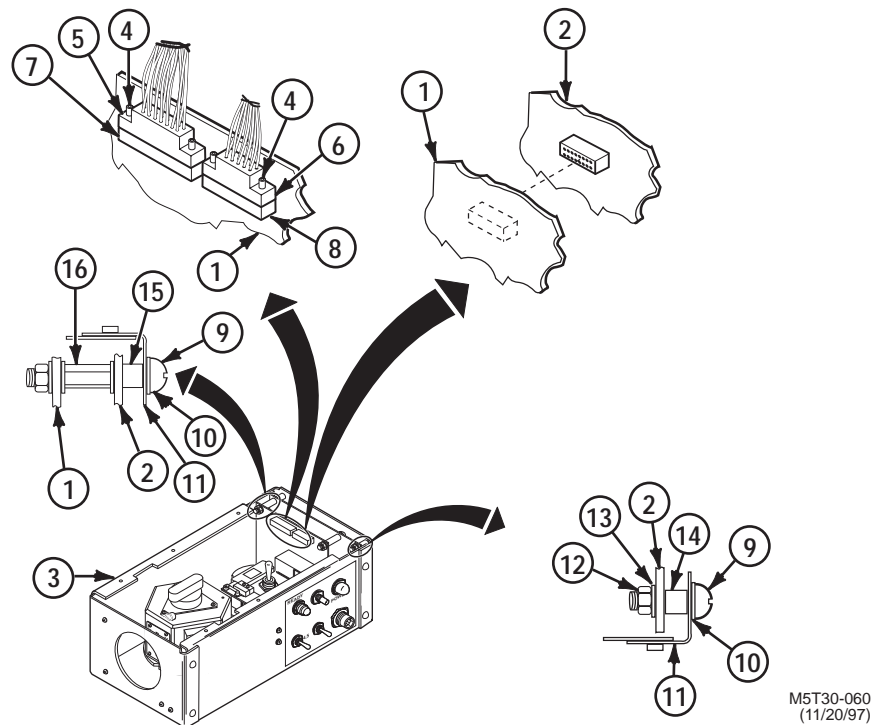
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

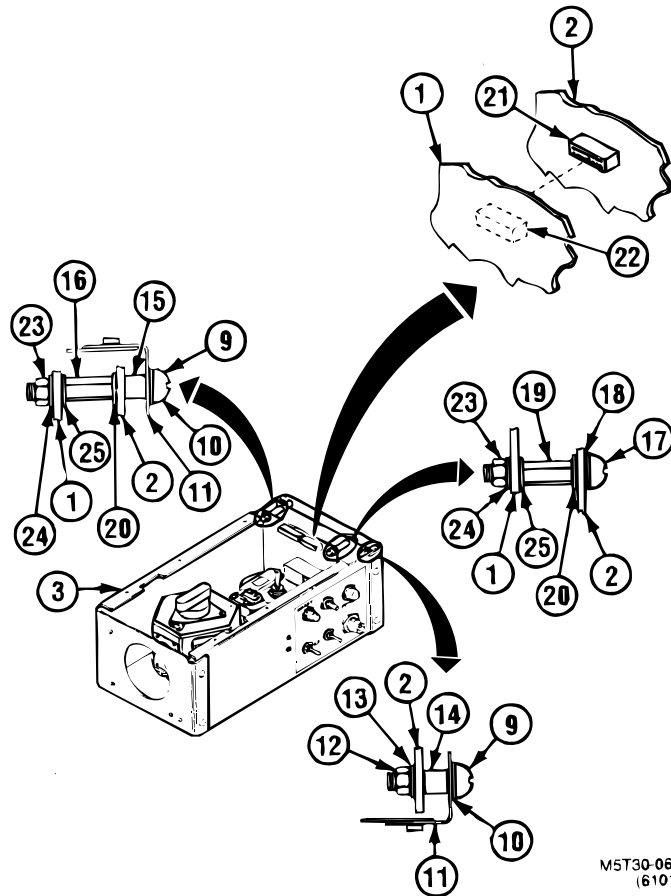
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (20)
Antistatic Plastic Bag (Item 7, WP 0210 00)

**REMOVE**

1. REMOVE LOGIC CONTROL CCA (1) OR POWER SUPPLY CCA (2) FROM TEMPERATURE CONTROLLER ASSEMBLY (3).
 - a. Alternatively loosen four set screws (4) and remove connectors W2-P1 (5) and W2-P2 (6) from connectors J1 (7) and J2 (8) on logic control CCA (1).
 - b. Remove four screws (9) and lockwashers (10) securing logic control CCA (1) and power supply CCA (2) to end panel (11) of temperature controller assembly (3). Discard lockwashers.
 - c. Lift and remove logic control CCA (1) and power supply CCA (2) from temperature controller assembly (3) and place on workbench with logic control CCA face down.
 - d. Remove two nuts (12), lockwashers (13), and two standoffs (14) from power supply CCA (2). Discard lockwashers.
 - e. Remove two standoffs (15) from power supply CCA (2) and standoffs (16).

REPLACE COLLIMATOR 12951545 LOGIC CONTROL CCA OR
POWER SUPPLY CCA - CONTINUED

0146 00



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(6101)

REMOVE – Continued

- f. Remove two screws (17) and lockwashers (18) securing power supply CCA (2) to two standoffs (19). Discard lockwashers.

NOTE

Four washers (20) will fall out from between standoffs (16) and (19) and power supply CCA (2) when connectors J3 (21) and P1 (22) are separated.

- g. Separate connector J3 (21) on power supply CCA (2) from connector P1 (22) on logic control CCA (1); discard four lockwashers (20).
- h. Place power supply CCA in an antistatic bag.

NOTE

Power supply CCA is now removed. Perform steps i and j to complete the removal of the logic control CCA.

- i. Remove four nuts (23) and lockwashers (24) from logic control CCA (1) and standoffs (16) and (19). Discard lockwashers.
- j. Remove standoffs (16) and (19) and four washers (25) from logic control CCA (1).
- k. Place power supply CCA in an antistatic bag.

**REPLACE COLLIMATOR 12951545 LOGIC CONTROL CCA OR
POWER SUPPLY CCA - CONTINUED**

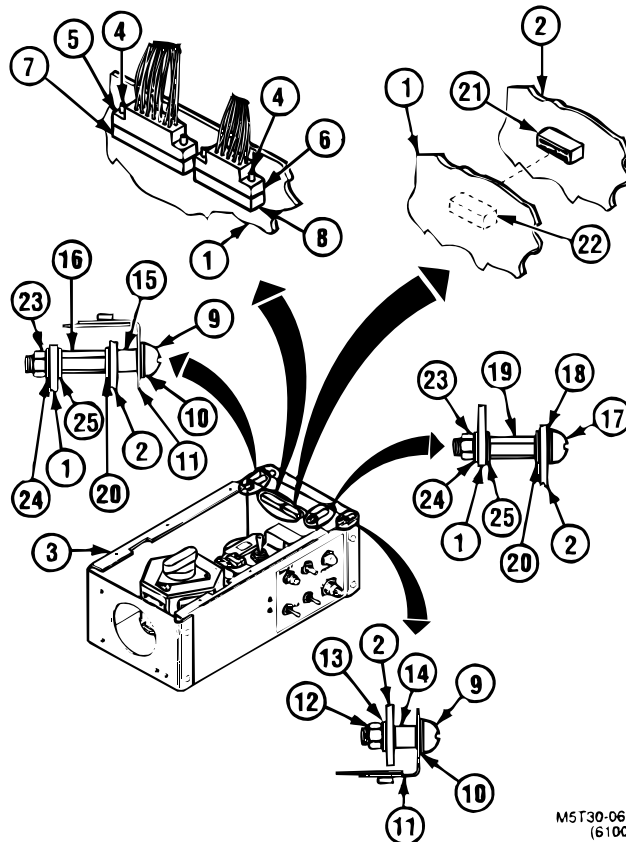
0146 00

INSTALL

2. INSTALL LOGIC CONTROL CCA (1) OR POWER SUPPLY CCA (2) IN TEMPERATURE CONTROLLER ASSEMBLY (3).

NOTE

Perform steps a thru k to install logic control CCA. Perform steps c thru k to install power supply CCA.


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(6100)

- a. Remove logic control CCA from antistatic bag.
- b. Install two standoffs (16), two standoffs (19), four washers (25), four new lockwashers (24), and four nuts (23) on new logic control CCA (1).
- c. Remove power supply CCA from antistatic bag.
- d. Mate connector J3 (21) on power supply CCA (2) with connector P1 (22) on new logic control CCA (1).
- e. Apply a light coat of sealing compound to threads of two screws (17).
- f. Install two screws (17), two new lockwashers (18), and two washers (20) securing power supply CCA (2) to two standoffs (19).
- g. Install two standoffs (15), and two new lockwashers (20), on power supply CCA (2) and standoffs (16).
- h. Install two nuts (12), two new lockwashers (13), and standoffs (14) on power supply CCA (2).
- i. Apply a light coat of sealing compound to threads of four screws (9).
- j. Locate power supply CCA (2) and logic control CCA (1) assembly in place on end panel (11) inside temperature controller assembly (3); install four screws (9) and new lockwashers (10).
- k. Alternately tighten four set screws (4) securing connectors W2-P1 (5) and W2-P2 (6) to connectors J1 (7) and J2 (8) on logic control CCA (1).

END OF TASK

REPLACE COLLIMATOR 12951545 SPINDLE AND DRUM ASSEMBLY OR DETENT ASSEMBLY 0147 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

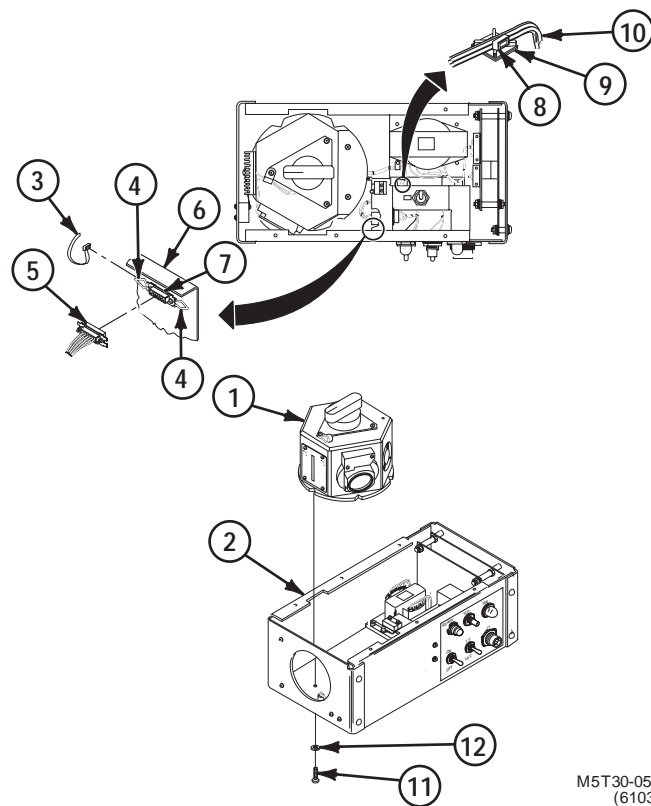
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.
Remove target select knob; refer to WP 0141 00.

Materials/Parts:

Sealing Compound (Item 17, WP 0210 00)
Lockwashers (8)



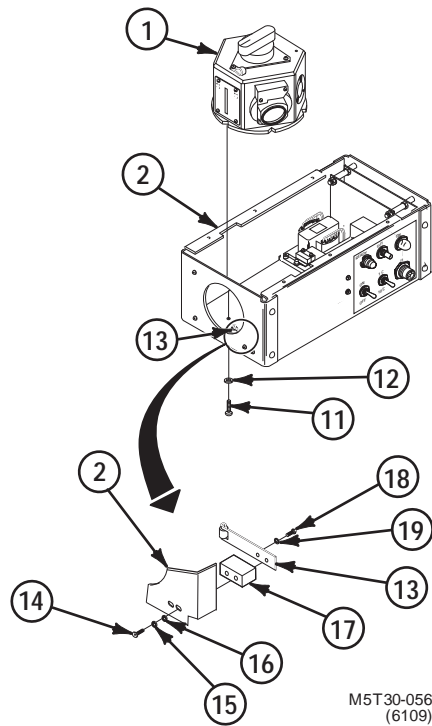
M5T30-054
(6103)

REMOVE

NOTE

Perform step 1 to remove spindle and drum assembly. Perform step 2 to remove detent assembly.

1. REMOVE SPINDLE AND DRUM ASSEMBLY (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Cut cable tie (3) from latch assemblies (4).
 - b. Release two latch assemblies (4) securing connector W1-P1 (5) to mounting bracket (6) and connector W2-P3 (7).
 - c. Disconnect and remove connector W1-P1 (5) from connector W2-P3 (7).
 - d. Cut cable tie (8) from mount (9), releasing cable assembly W1 (10).
 - e. From underneath temperature controller assembly (2), remove four screws (11) and lockwashers (12) securing spindle and drum assembly (1) to bottom of housing. Discard lockwashers.

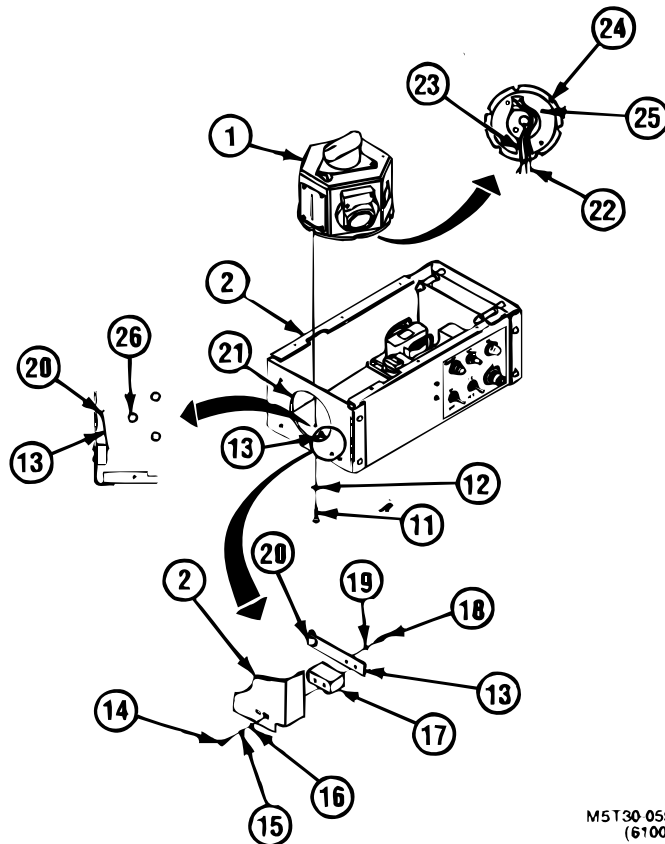


REMOVE – Continued

CAUTION

Be careful not to scratch or break collimating mirror or damage spindle and drum assembly (1) when removing from inside temperature controller assembly (2).

- f. Remove spindle and drum assembly (1) from temperature controller assembly (2).
2. REMOVE DETENT ASSEMBLY (13) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. From underneath temperature controller assembly (2), remove four screws (11) and lockwashers (12) securing spindle and drum assembly (1) to bottom of housing. Discard lockwashers.
 - b. Move spindle and drum assembly (1) away from detent assembly (13), to allow access for detent assembly removal.
 - c. Remove two screws (14), lockwashers (15), and flat washers (16) securing spacer block (17) (with detent assembly (13) attached) to temperature controller assembly (2). Discard lockwashers.
 - d. Remove spacer block (17) (with detent assembly (13) attached) from temperature controller assembly (2).
 - e. Remove two screws (18) and lockwasher (19) and separate detent assembly (13) from spacer block (17). Discard lockwashers.



M5T30 055
(6100)

INSTALL

NOTE

Perform step 3 to install detent assembly. Perform step 4 to install spindle and drum assembly.

3. INSTALL DETENT ASSEMBLY (13) IN TEMPERATURE CONTROLLER ASSEMBLY (2).

- a. Apply a light coat of sealing compound to threads of two screws (18).
- b. Install two screws (18) and new lockwashers (19) securing new detent assembly (13) to spacer block (17).
- c. Apply a light coat of sealing compound to threads of two screws (14).
- d. Place spacer block (17) (with detent assembly (13) attached) into position inside temperature controller assembly (2). Spacer block must be positioned so that roller (20) is centered at bottom of aperture (21).
- e. Install two screws (14), new lockwashers (15), and flat washers (16) securing spacer block (17) (with detent assembly (13) attached) to temperature controller assembly (2).

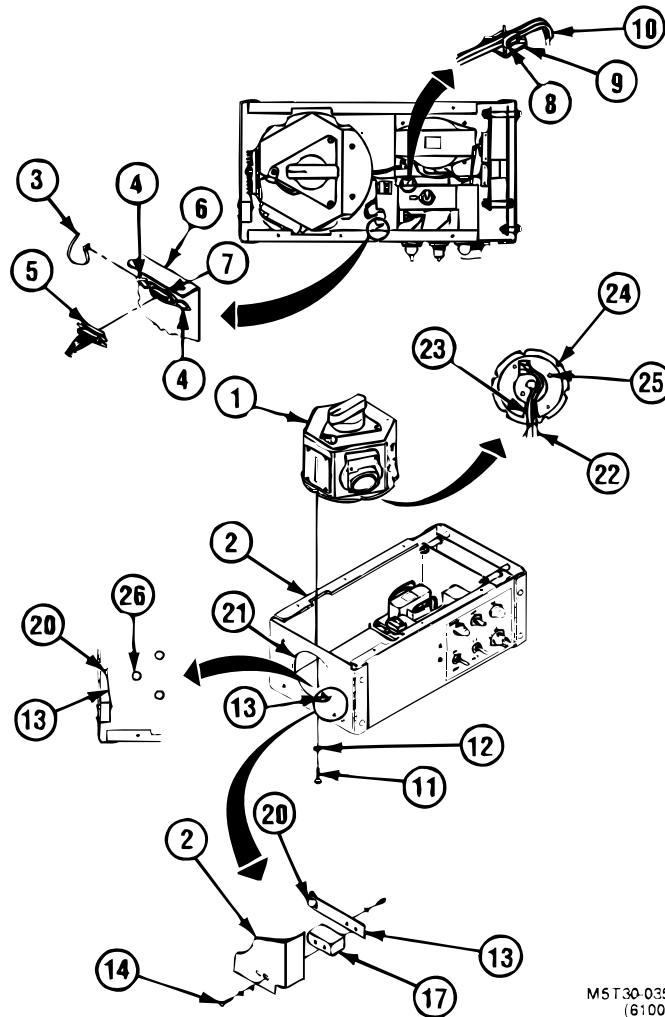
CAUTION

Be careful not to pinch wires (22) when positioning spindle and drum assembly (1) inside temperature controller assembly (2).

REPLACE COLLIMATOR 12951545 SPINDLE AND DRUM ASSEMBLY OR DETENT ASSEMBLY - CONTINUED 0147 00

INSTALL – Continued

- f. Position wires (22) in slot (23) in bottom of spindle and drum assembly (1).
- g. Position spindle and drum assembly (1) so that detent (24) is aligned with detent assembly roller (20) and move spindle and drum assembly toward aperture (21) until alignment pin (25) drops into alignment hole (26) of temperature controller assembly (2).
- h. Apply a light coat of sealing compound to threads of four screws (11).
- i. Install four screws (11) and new lockwashers (12) securing spindle and drum assembly (1) to bottom housing of temperature controller assembly (2).
- j. Verify that detent assembly roller (20) is aligned with detent (24) in spindle and drum assembly (1). If necessary, slightly loosen two screws (14), move spacer block (17) (with detent assembly (13) attached) until roller (20) is centered in detent (24), and tighten two screws (14).



M5T30-035
(6100)

4. INSTALL SPINDLE AND DRUM ASSEMBLY (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).

CAUTION

Be careful not to pinch wires (22) when positioning spindle and drum assembly (1) inside temperature controller assembly (2).

REPLACE COLLIMATOR 12951545 SPINDLE AND DRUM ASSEMBLY OR DETENT ASSEMBLY - CONTINUED 0147 00

INSTALL – Continued

- a. Position wires (22) in slot (23) in bottom of spindle and drum assembly (1).
- b. Position spindle and drum assembly (1) so that detent (24) is aligned with detent assembly roller (20) and move spindle and drum assembly toward aperture (21) until alignment pin (25) drops into alignment hole (26) of temperature controller assembly (2).
- c. Apply a light coat of sealing compound to threads of four screws (11).
- d. Install four screws (11) and new lockwashers (12) securing spindle and drum assembly (1) to bottom housing of temperature controller assembly (2).
- e. Verify that detent assembly to roller (20) is aligned with detent (24) in spindle and drum assembly (1). If necessary, slightly loosen two screws (14), move spacer block (17) (with detent assembly (13) attached) until roller (20) is centered in detent (24), and tighten two screws (14).
- f. Install new cable tie (8) to secure cable assembly W1 (10) to mount (9).
- g. Connect connector W1-P1 (5) to connector W2-P3 (7).
- h. Engage two latch assemblies (4) securing connector W1-P1 (5) to mounting bracket (6) and connector W2-P3 (7).
- i. Install new cable tie (3) to secure latch assemblies (4).

END OF TASK

REPLACE COLLIMATOR 12951545 LENS ATTENUATOR OR CCA A2A2

0148 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

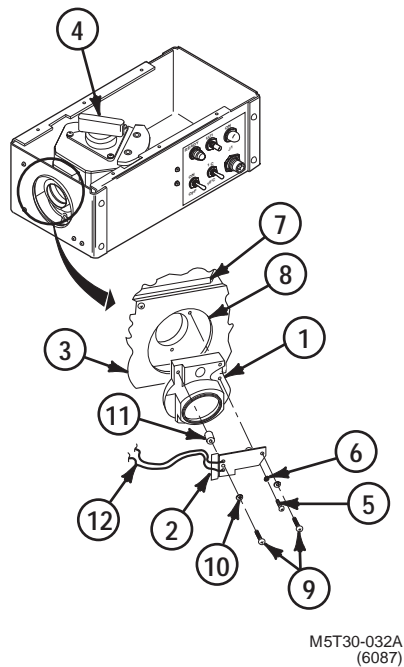
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

Sealing Compound (Item 17, WP 0210 00)
Thermally Conductive Elastomer
(Item 18, WP 0210 00)
Lockwashers (5)



CAUTION

Use care when removing/installing lens attenuator; lens can be easily damaged by tools.

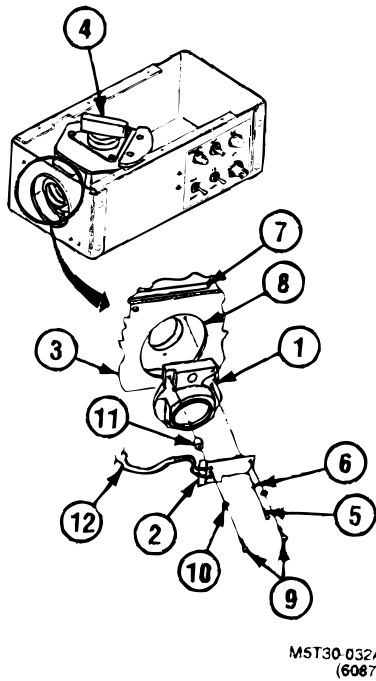
NOTE

Read WP 0043 00 before doing any work.

Refer to foldout 9 of WP 0004 00.

REMOVE

1. REMOVE LENS ATTENUATOR (1) AND CCA A2A2 (2) FROM TEMPERATURE CONTROLLER ASSEMBLY (3).
 - a. Set target select knob (4) to MRT position.
 - b. Remove three screws (5), lockwashers (6), and lens attenuator (1) from spindle and drum assembly (7). Discard lockwashers.
 - c. Carefully pull lens attenuator (1) through aperture (8) in temperature controller assembly (3).
 - d. Remove two screws (9), lockwashers (10), circuit card A2A2 (2), and sleeve spacer (11) from lens attenuator (1). Discard lockwashers.

**NOTE**

Perform step 2 only when replacing circuit card A2A2.

2. UNSOLDER WIRES (12) FROM CIRCUIT CARD A2A2 (2).

INSTALL**NOTE**

Perform step 3 if circuit card A2A2 was replaced. Otherwise, proceed to step 4.

3. SOLDER WIRES (12) TO CIRCUIT CARD A2A2 (2)

INSTALL – Continued

4. INSTALL LENS ATTENUATOR (1) AND CCA A2A2 (2) IN TEMPERATURE CONTROLLER ASSEMBLY (3).
 - a. Apply thermal conductive elastomer to thermistor on circuit card A2A2 (2).
 - b. Apply a light coat of sealing compound to threads of two screws (9).
 - c. Install two screws (9), new lockwashers (10), circuit card A2A2 (2), and sleeve spacer (11) on lens attenuator (1).
 - d. Carefully insert lens attenuator (1) through aperture (8) in temperature controller assembly (3) and position on spindle and drum assembly (7).
 - e. Apply a light coat of sealing compound to threads of three screws (5).
 - f. Install three screws (5) and new lockwashers (6) securing lens attenuator (1) to spindle and drum assembly (7).
 - g. Clean lens surface of lens attenuator (1). Refer to WP 0043 00.

END OF TASK

REPLACE COLLIMATOR 12951545 CAM**0149 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

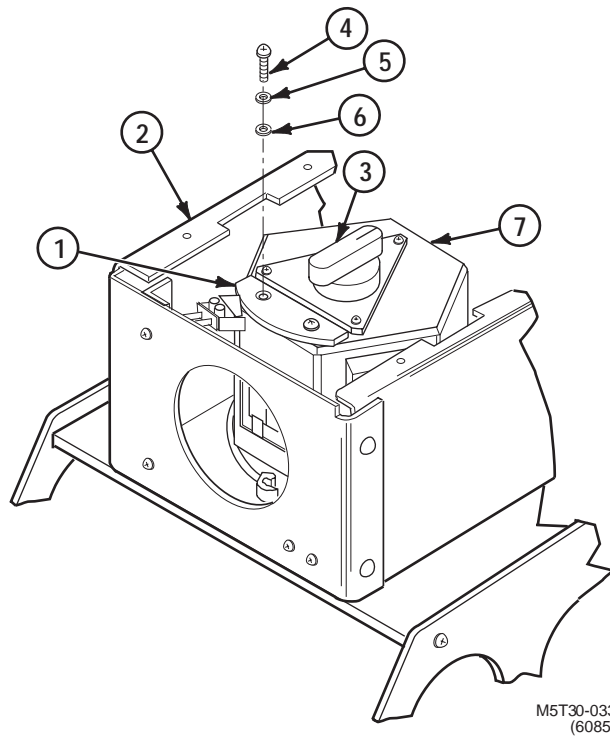
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

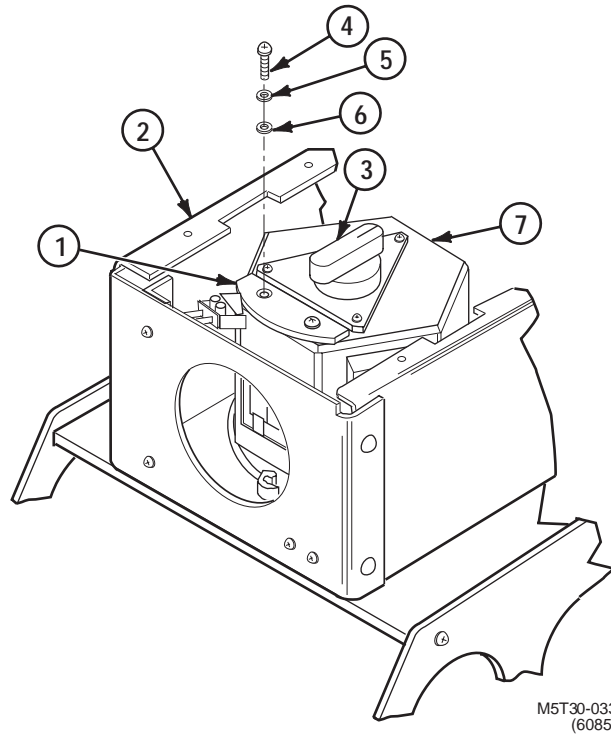
Remove shroud, refer to WP 0137 00.
Remove covers, refer to WP 0138 00.

Materials/Parts:

Cam
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (2)

**REMOVE**

1. REMOVE CAM (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to any position except BAR position.
 - b. Remove two screws (4), lockwashers (5), flat washer (6), and cam (1) from spindle and drum assembly (7) inside temperature controller assembly (2). Discard lockwashers and unserviceable cam.

**INSTALL**

2. INSTALL CAM (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Apply a light coat of sealing compound to threads of two screws (4).
 - b. Install two screws (4), new lockwashers (5), flat washers (6), and new cam (1) on spindle and drum assembly (7) inside temperature controller assembly (2).
 - c. Perform sensitive switch adjustment. Refer to WP 0156 00.

END OF TASK

REPLACE COLLIMATOR 12951545 MTF TARGET**0150 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

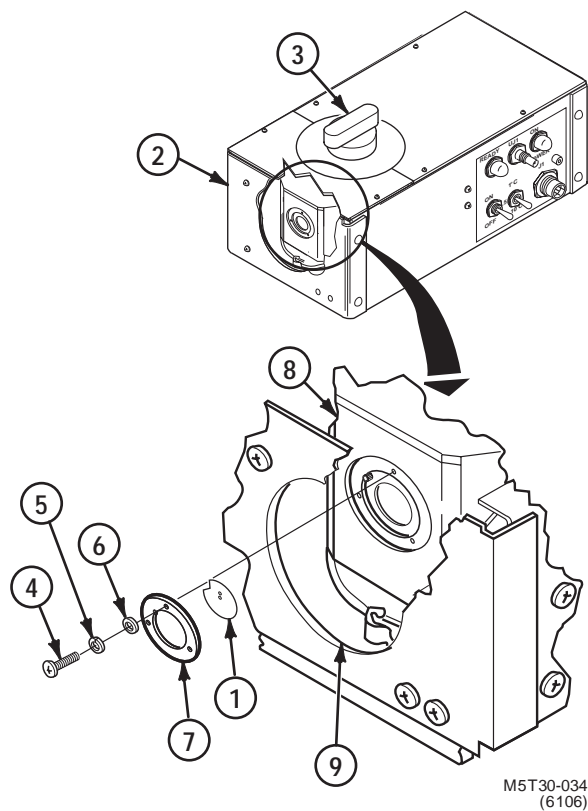
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

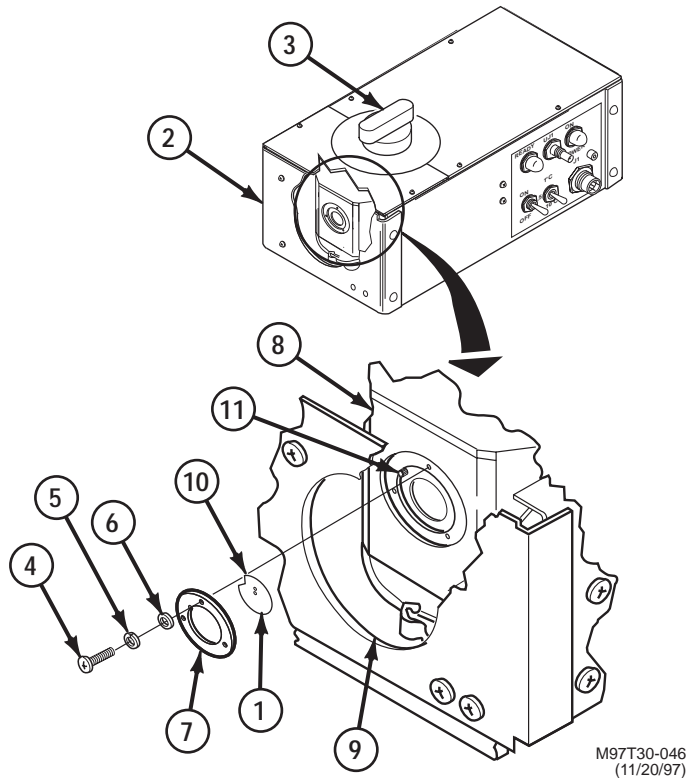
Remove shroud, refer to WP 0137 00.

Materials/Parts:

MTF Target
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (3)

**REMOVE**

1. REMOVE MTF TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to MTF position.
 - b. Remove three screws (4), lockwashers (5) flat washers (6), target retainer (7), and MTF target (1) from spindle and drum assembly (8) through aperture (9) in temperature controller assembly (2). Discard lockwashers.

**INSTALL**

2. INSTALL MTF TARGET (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Apply a light coat of sealing compound to threads of three screws (4).

NOTE

MTF target is installed with larger bars at bottom.

- b. Insert MTF target (1) and target retainer (7) through aperture (9) in temperature controller assembly (2); locate notch (10), above locating pin (11) on spindle and drum assembly (8).
- c. Install three screws (4), new lockwashers (5), and flat washers (6) securing target retainer (7) and MTF target (1) to spindle and drum assembly (8).

END OF TASK

REPLACE COLLIMATOR 12951545 X TARGET**0151 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

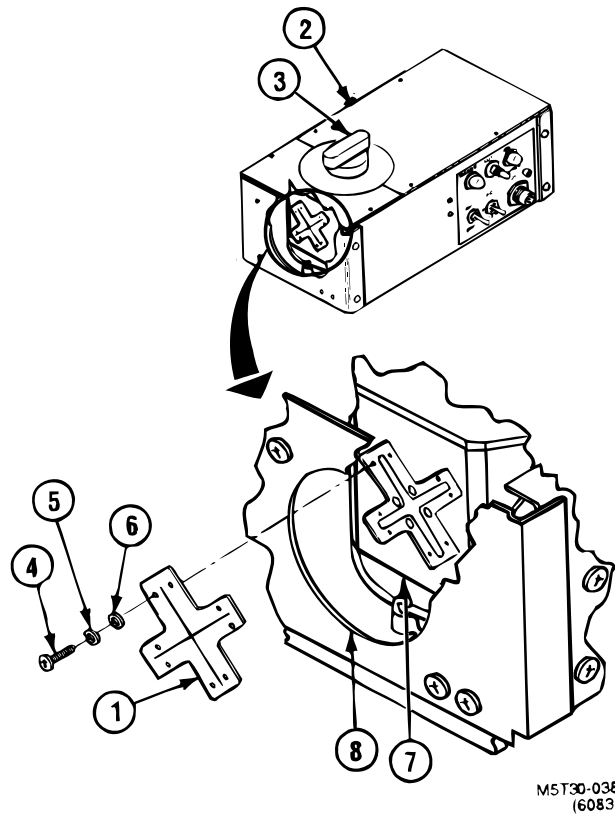
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Condition:

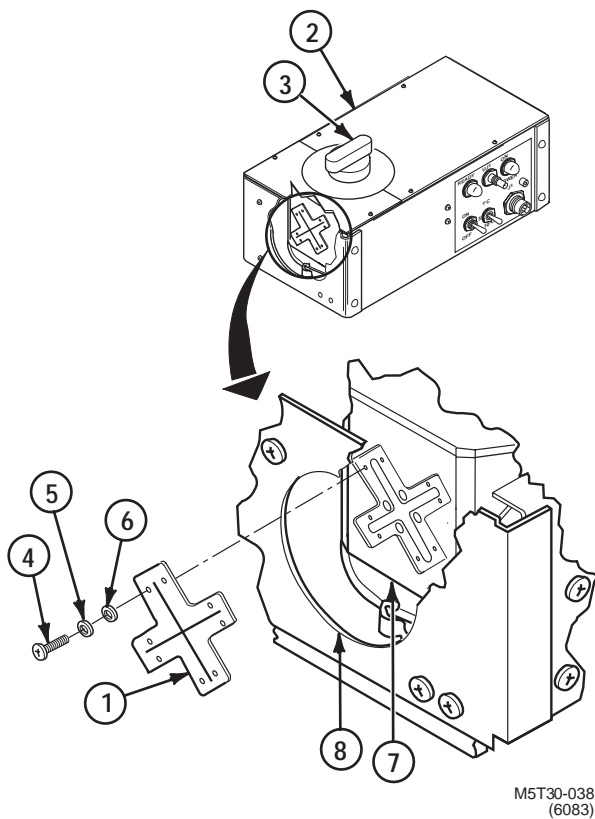
Remove shroud, refer to WP 0137 00.

Materials/Parts:

X Target
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (8)

**REMOVE**

1. REMOVE X TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to X position.
 - b. Remove eight screws (4), lockwashers (5), flat washers (6), and X target (1) from spindle and drum assembly (7) through aperture (8) in temperature controller assembly (2). Discard lockwashers.

**INSTALL**

1. INSTALL X TARGET (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Apply a light coat of sealing compound to threads of eight screws (4).
 - b. Insert X target (1) through aperture (8) in temperature controller assembly (2) and position on spindle and drum assembly (7).
 - c. Install eight screws (4), new lockwashers (5) and flat washers (6) securing X target (1) to spindle and drum assembly (7).

END OF TASK

REPLACE COLLIMATOR 12951545 THERMAL CHANNEL VISIBLE TARGET**0152 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

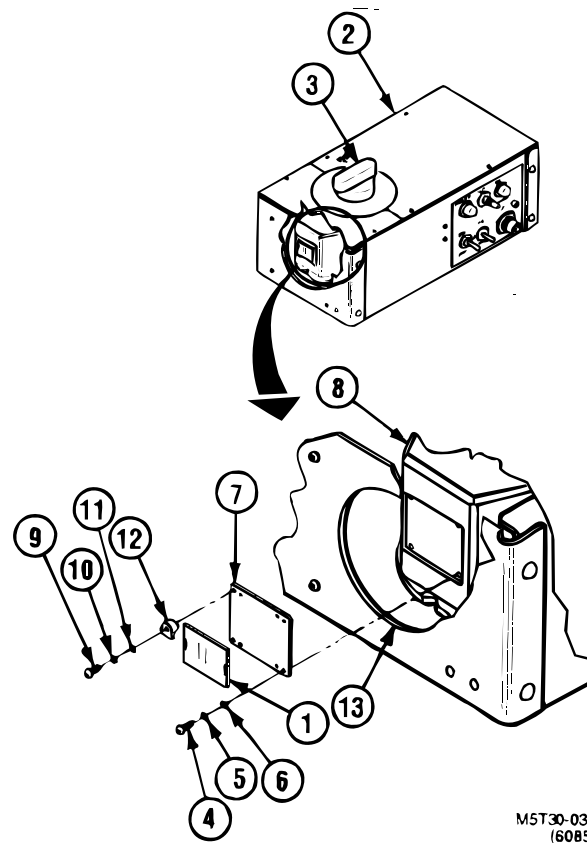
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud, refer to WP 0137 00.

Materials/Parts:

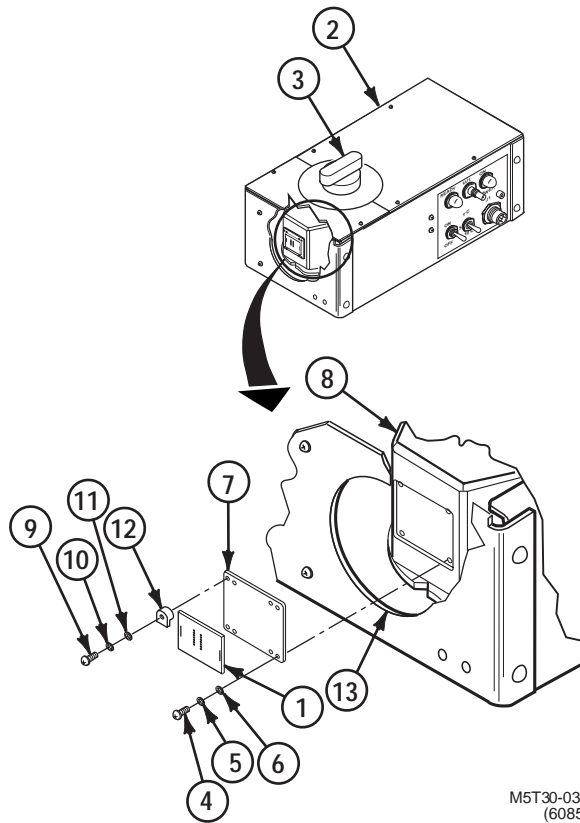
Thermal Channel Visible Target
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (8)



MST30-031
(6085)

REMOVE

1. REMOVE THERMAL CHANNEL VISIBLE TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to THERMAL CHANNEL VISIBLE TARGET position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and thermal channel visible target plate (7) from spindle and drum assembly (8). Discard lockwashers.
 - c. Remove four screws (9), lockwashers (10), flat washers (11), target retainers (12), and thermal channel visible target (1) from thermal channel visible target plate (7). Discard lockwashers.

M5T30-031
(6085)**INSTALL**

2. INSTALL THERMAL CHANNEL VISIBLE TARGET (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Install four screws (9), new lockwashers (10), flat washers (11), target retainers (12), and thermal channel visible target (1) to thermal channel visible target plate (7).
 - b. Apply a light coat of sealing compound to threads of four screws (4).

NOTE

Visible target is installed with numbers readable from top down.

- c. Insert thermal channel visible target plate (7) through aperture (13) in temperature controller assembly (2) and position on spindle and drum assembly (8).
- d. Install four screws (4), new lockwashers (5), and flat washers (6) securing thermal channel visible target plate (7) to spindle and drum assembly (8).

END OF TASK

REPLACE COLLIMATOR 12951545 DAYLIGHT TELESCOPE TARGET**0153 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

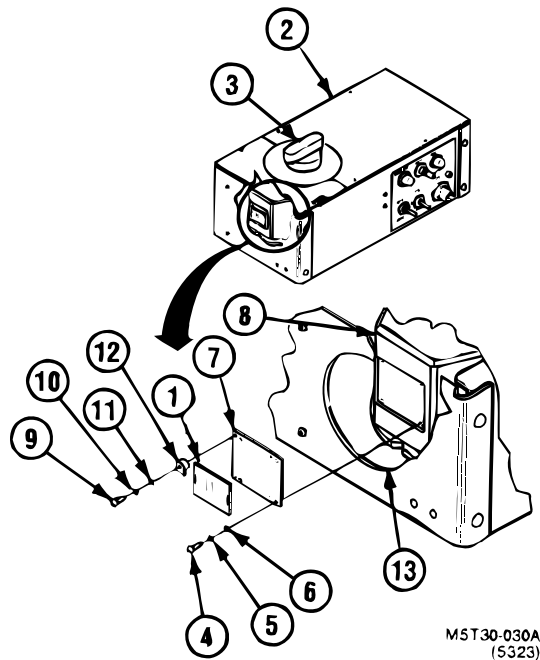
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

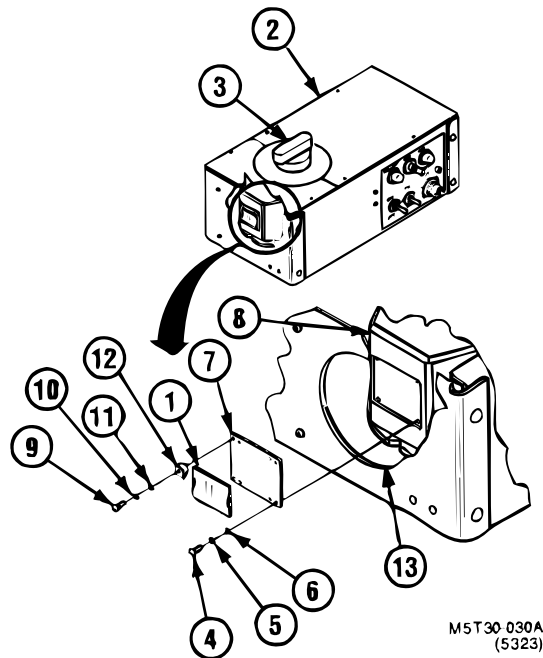
Remove shroud, refer to WP 0137 00.

Materials/Parts:

Daylight Telescope Target
Sealing Compound (Item 17, WP 0210 00)
Lockwashers (8)

**REMOVE**

1. REMOVE DAYLIGHT TELESCOPE TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to DAYLIGHT TELESCOPE position.
 - b. Remove four screws (4), lockwashers (5), flat washers (6), and daylight telescope target plate (7) from spindle and drum assembly (8). Discard lockwashers.
 - c. Remove four screws (9), lockwashers (10), flat washers (11), target retainers (12), and daylight telescope target (1) from daylight telescope target plate (7). Discard lockwashers.

**INSTALL**

2. INSTALL DAYLIGHT TELESCOPE TARGET (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).

NOTE

Daylight telescope target is installed with larger bars at bottom.

- a. Install four screws (9), new lockwashers (10), flat washers (11), target retainers (12), and daylight telescope target (1) to daylight telescope target plate (7).
- b. Apply a light coat of sealing compound to threads of four screws (4).
- c. Insert daylight telescope target plate (7) through aperture (13) in temperature controller assembly (2) and position on spindle and drum assembly (8).
- d. Install four screws (4), new lockwashers (5), and flat washers (6) securing daylight telescope target plate (7) to spindle and drum assembly (8).

END OF TASK

REPLACE COLLIMATOR 12951545 BAR TARGET**0154 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

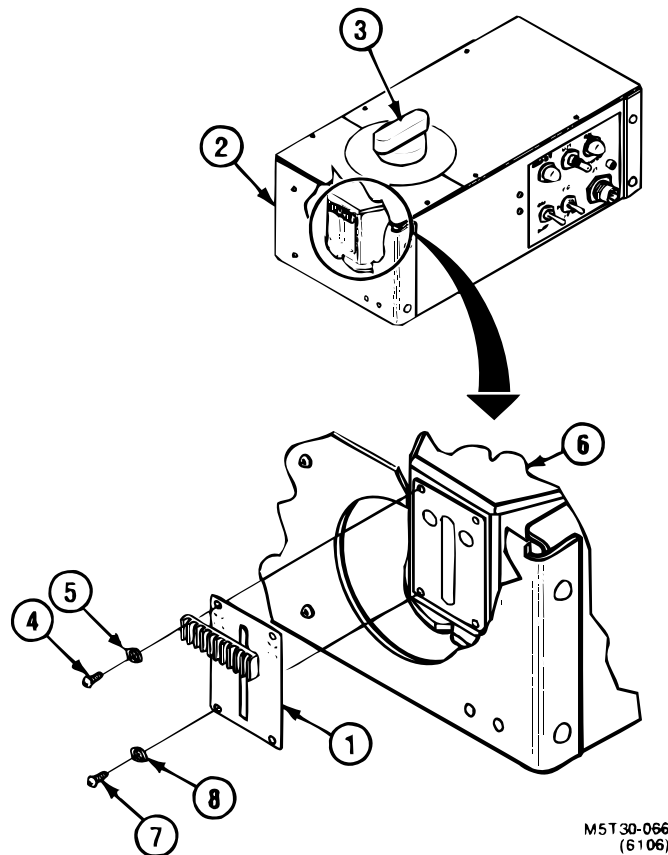
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

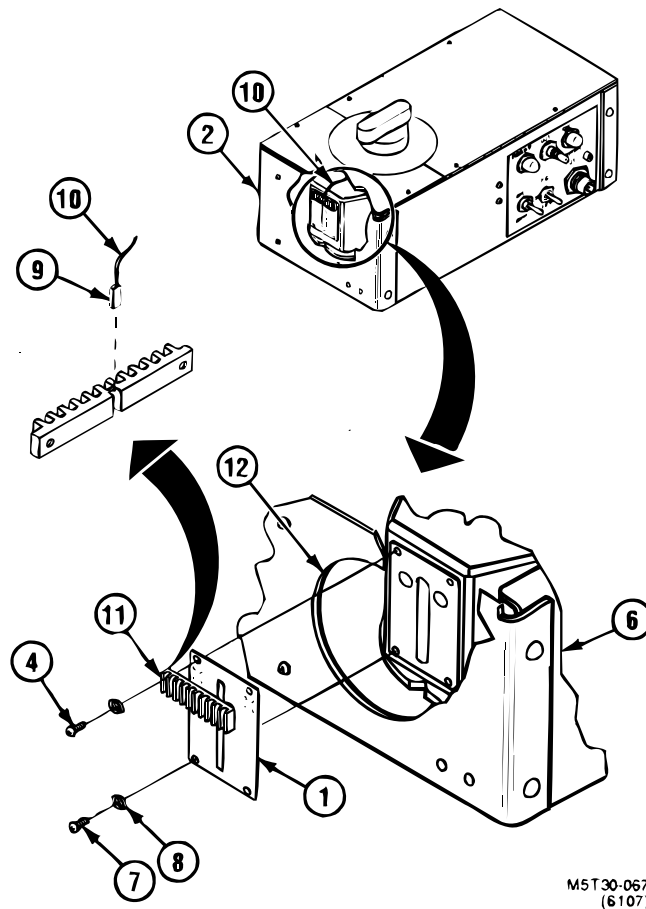
Remove shroud, refer to WP 0137 00.
Remove covers; refer to WP 0138 00.

Materials/Parts:

Bar Target
Sealing Compound (Item 17, WP 0210 00)
Thermally Conductive Elastomer
(Item 18, WP 0210 00)
Dry Cleaning Solvent (Item 19, WP 0210 00)
Lockwashers (4)

**REMOVE**

1. REMOVE BAR TARGET (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Set target select knob (3) to BAR position.
 - b. Remove two screws (4) and lockwashers (5) from top of bar target (1) on spindle and drum assembly (6). Discard lockwashers.
 - c. Remove two screws (7) and lockwashers (8) from bottom of bar target (1) on spindle and drum assembly (6). Discard lockwashers.

**REMOVE – Continued****NOTE**

The RTD/thermal pad assembly (9) of cable assembly W1 (10) should not separate from heatsink (11) when heatsink is removed from the bar target. However, if the RTD/thermal pad assembly does come off when heatsink is separated from bar target, installation procedures provide reassembly instructions.

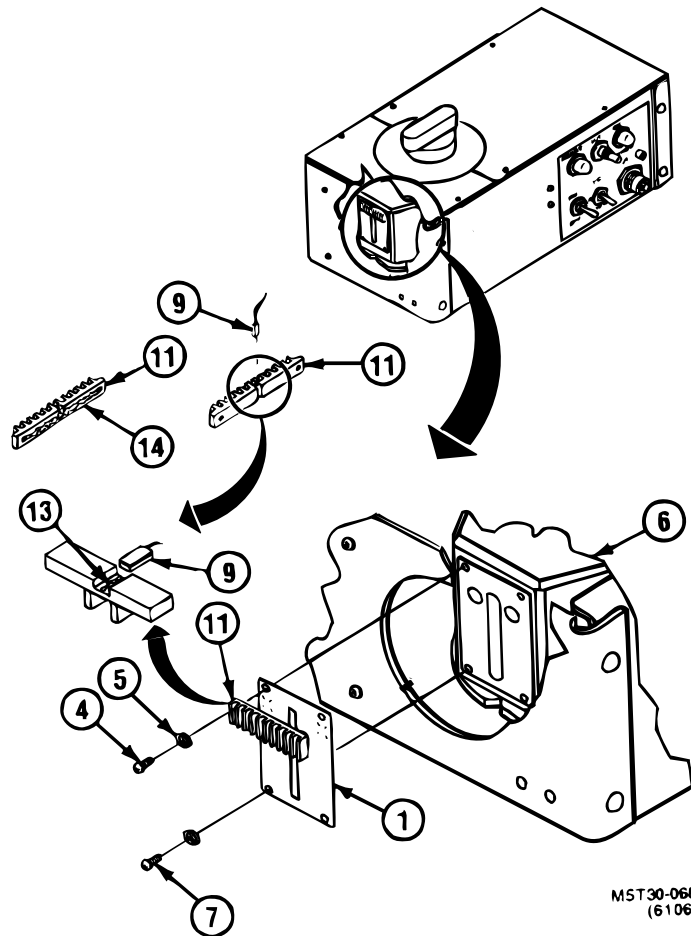
- d. Separate heatsink (11) from bar target (1).
- e. Remove bar target (1) from spindle and drum assembly (6). Discard damaged bar target.

INSTALL**2. INSTALL BAR TARGET (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).**

- a. Apply a light coat of sealing compound to threads of four screws (4, 7).
- b. Insert bar target (1) in position on spindle and drum assembly (6) with flat black surface facing toward aperture (12).
- c. Install two screws (7) and new lockwashers (8) in bottom of bar target (1) to hold target in place. Do not tighten screws at this time.

NOTE

If RTD/thermal pad assembly (9) of cable assembly W1 (10) separated from heatsink (11) during removal, perform the steps d thru f. If RTD/thermal pad assembly (9) is securely attached to heatsink (11), go to step g.

**INSTALL – Continued****WARNING**

Dry cleaning solvent is toxic and flammable. Use in a well ventilated area. Avoid breathing the vapors. Keep away from ignition sources. Use appropriate personal protective equipment (safety glasses, gloves, etc.) when using chemicals.

- d. Using dry cleaning solvent, remove old elastomer from heatsink slot.

NOTE

RTD side of RTD/thermal pad assembly (9) mates with heatsink (11).

- e. Apply elastomer (approximately 1/32-inch diameter bead (13) to heatsink (11) and RTD (9) mating surface.
 f. Carefully mate RTD side of RTD/thermal pad assembly (9) and heatsink (11) (with elastomer (13) between).
 g. Using dry cleaning solvent, remove old elastomer from heatsink (11) surface that mates with bar target (1).
 h. Apply elastomer (approximately 1/16-inch diameter) bead (14) to heatsink (11) surface that mates with bar target (1).
 i. Carefully position heatsink (11) on bar target (1) and align the attaching screw holes.
 j. Install two screws (4) and new lockwashers (5) to hold heatsink (11) and bar target (1) in place.
 k. Alternately tighten the four screws (4, 7) to secure heatsink (11) and bar target (1) to spindle and drum assembly (6).

CAUTION

Do not remove any excess elastomer (13) and (14) until cured.

- l. Allow elastomer (13) and (14) (thermal compound) to cure for 24 hours, then remove any excess elastomer from the bar target (1) and heatsink (11).

END OF TASK

REPLACE COLLIMATOR 12951545 CABLE ASSEMBLY W2

0155 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

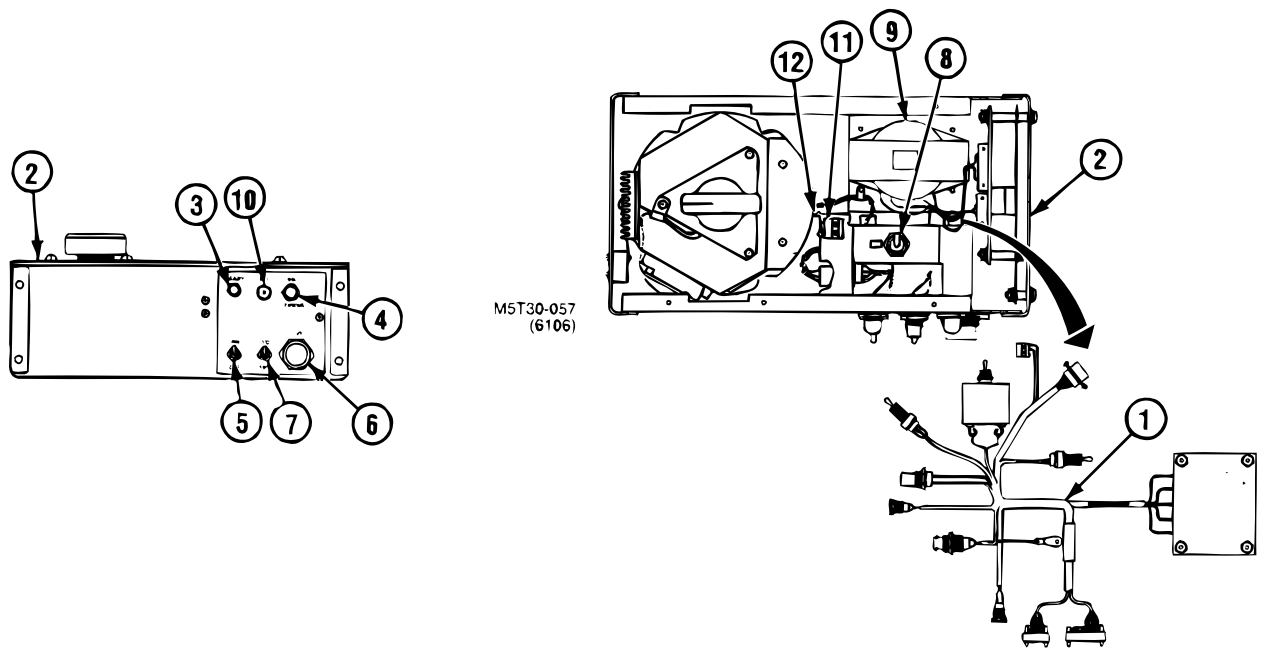
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud, refer to WP 0137 00.
Remove covers; refer to WP 0138 00.
Remove READY and POWER ON indicator lamps;
refer to WP 0139 00.

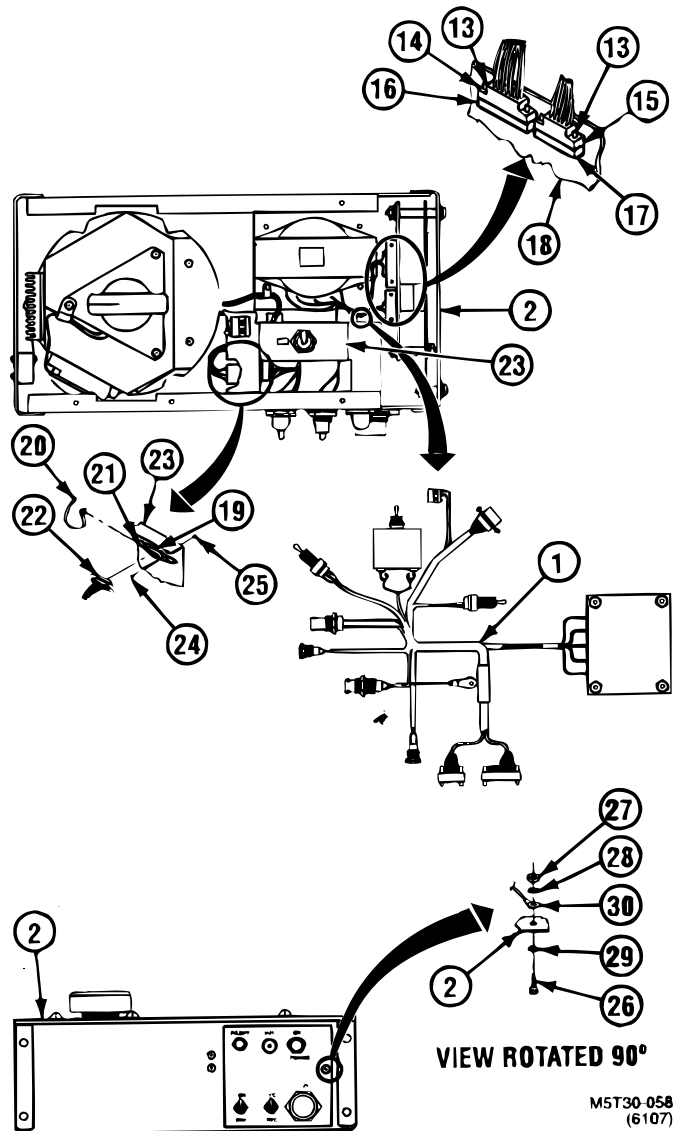
Materials/Parts:

Cable Assembly W2
Sealing Compound (Item 17, WP 0210 00)



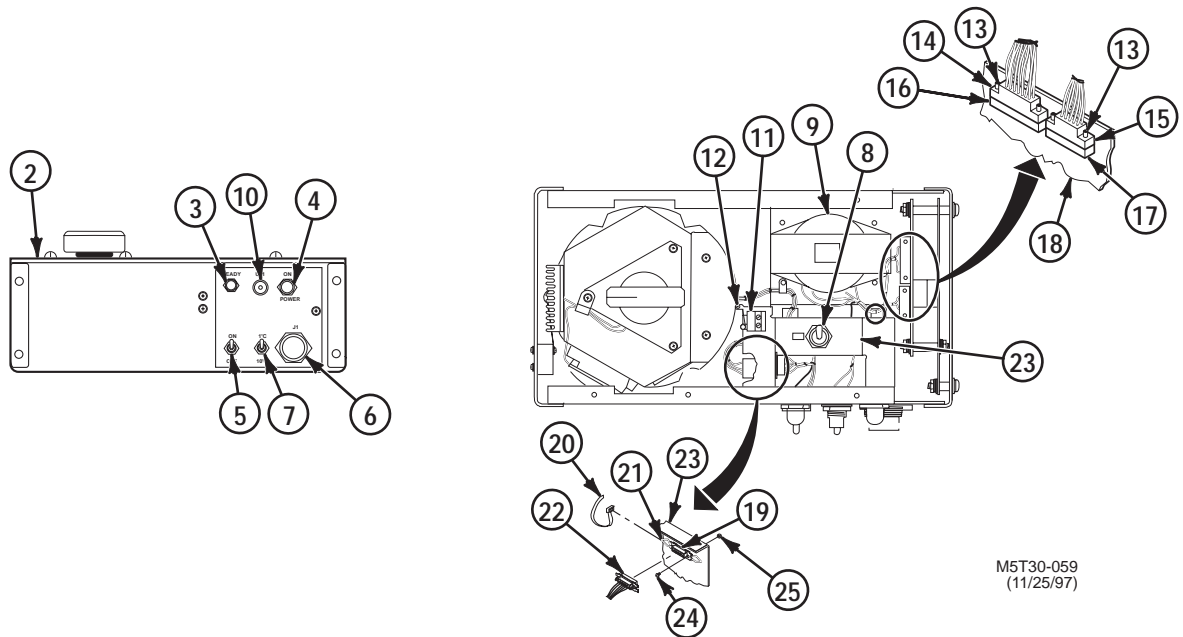
REMOVE

1. REMOVE CABLE ASSEMBLY W2 (1) FROM TEMPERATURE CONTROLLER ASSEMBLY (2).
 - a. Remove READY and POWER ON indicator lamp housings (3) and (4), except do not cut insulation sleeving or unsolder wires. Refer to WP 0140 00.
 - b. Remove circuit breaker CB1 (5), connector J1 (6), switch S3 (7), and switch S4 (8), except do not cut insulation sleeving or unsolder wires. Refer to WP 0142 00.
 - c. Remove transformer T1 (9), except do not cut insulation sleeving or unsolder wires. Refer to WP 0143 00.
 - d. Remove connector UJ1 (10), except do not cut insulation sleeving or unsolder wires. Refer to WP 0144 00.
 - e. Remove sensitive switch S2 (11) and actuator (12), except do not cut wires. Set actuator aside. Refer to WP 0145 00.



REMOVE – Continued

- f. Alternately loosen four set screws (13) and remove connectors W2-P1 (14) and W2-P2 (15) from connectors J1 (16) and J2 (17) on logic control CCA (18).
- g. Disconnect connector W2-P3 (19) as follows:
 - (1) Cut cable tie (20) from latch assemblies (21).
 - (2) Release two latch assemblies (21) securing connector W1-P1 (22) to mounting bracket (23) and connector W2-P3 (19).
 - (3) Disconnect and remove connector W1-P1 (22) from connector W2-P3 (19).
 - (4) Remove two screws (24) and nuts (25) and remove latch assembly (21) and connector W2-P3 (19) from bracket (23).
- h. Remove screw (26), nut (27), and lockwashers (28) and (29) securing terminal lug W2-E1(30). Discard lockwashers.
- i. Lift and remove cable assembly W2 (1) from temperature controller assembly (2).



INSTALL

2. INSTALL CABLE ASSEMBLY W2 (1) IN TEMPERATURE CONTROLLER ASSEMBLY (2).

- a. Carefully position new cable assembly (1) inside temperature controller assembly (2); position each component of cable assembly in approximate installation location.

NOTE

At this time, bracket (23) will not be installed inside temperature controller assembly (2) which will provide access for installation of some cable assembly (1) components.

- b. Apply a light coat of sealing compound to threads of screw (26).
- c. Install screw (26), nut (27), and new lockwashers (28) and (29) securing terminal lug W2-E1 (30) to inside of front panel of temperature controller assembly (2).
- d. Install transformer T1 (9) in temperature controller assembly (2). Refer to WP 0143 00.
- e. Install switch S3 (7), connector J1 (6), and circuit breaker CB 1 (5) in temperature controller assembly (2). Refer to WP 0142 00.
- f. Install connector UJ1 (10) in front panel of temperature controller assembly (2). Refer to WP 0145 00.
- g. Install READY indicator lamp housing (3) in temperature controller assembly (2). Refer to WP 0140 00.
- h. Install connectors W2-P1 (14) and W2-P2 (15) to connectors J1 (16) and J2 (17) on logic control CCA (18) by alternately tightening four set screws (13).
- i. Install connector W2-P3 (19) as follows:
 - (1) Position bracket (23) inside temperature controller assembly (2) for access to connectors W2-P3 (19) and W1-P1 (22).
 - (2) Install connector W2-P3 (19) and two latch assemblies (21) on bracket (23) with two screws (24) and nuts (25).
 - (3) Install Connector W1-P1 (22) on connector W2-P3 (19).
 - (4) Engage two latch assemblies (21) securing connector W1-P1 (22) to mounting bracket (23) and connector W2-P3 (19).
 - (5) Install new cable tie (20) to secure latch assemblies (21).
- j. Install ON/ALIGN switch S4 (8) and bracket (24). Refer to WP 0142 00.
- k. Install POWER ON indicator lamp housing (4) in temperature controller assembly (2). Refer to WP 0140 00.
- l. Install sensitive switch S2 (11) and actuator (12) on bracket (23). Refer to WP 0146 00.

END OF TASK

COLLIMATOR 12951545 SENSITIVE SWITCH S2 ADJUSTMENT

0156 00

THIS WORK PACKAGE COVERS:

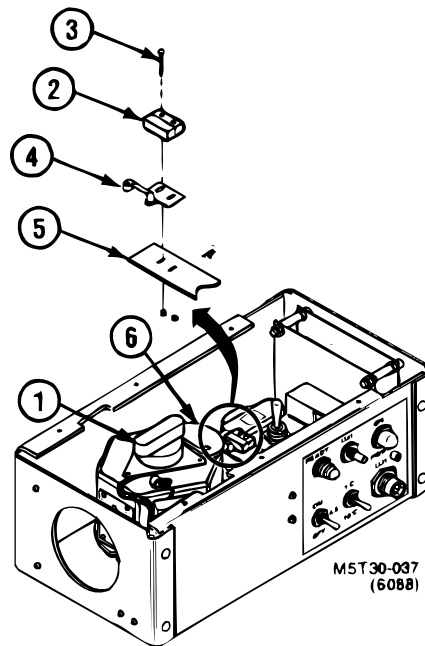
Adjustment

INITIAL SETUP**Tools:**

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove shroud; refer to WP 0137 00.
Remove right cover; refer to WP 0138 00.

**ADJUST**

1. SET TARGET SELECT KNOB (1) TO BAR POSITION.
2. ADJUST SWITCH S2 (2).
 - a. Loosen two screws (3) securing switch S2 (2) and actuator (4) to bracket (5).
 - b. Slide switch (2) toward cam (6) until a click is heard when switch S2 (2) is activated.
 - c. Tighten two screws (3).
 - d. Set target select knob (1) to MRT position and listen for click as switch S2 (2) is deactivated.
 - e. Repeat steps 2a through 2d as necessary to achieve proper operation of switch S2 (2).

END OF TASK

CHAPTER 4
MAINTENANCE OF AUXILIARY EQUIPMENT
(TRANSFER STANDARDS ADAPTER)

The Transfer Standards Adapter (TSA) is a special tool used to check calibration of GPIA and CFM test resources at the Direct Support facility. This chapter includes instructions for performing the TSA functional self test (WP 0158 00), troubleshooting a failed TSA (WP 0159 00), and replacing faulty TSA components (WP 0160 00 through 0166 00, 0168 00 and 0169 00). When the TSA is received for scheduled calibration, perform the following actions:

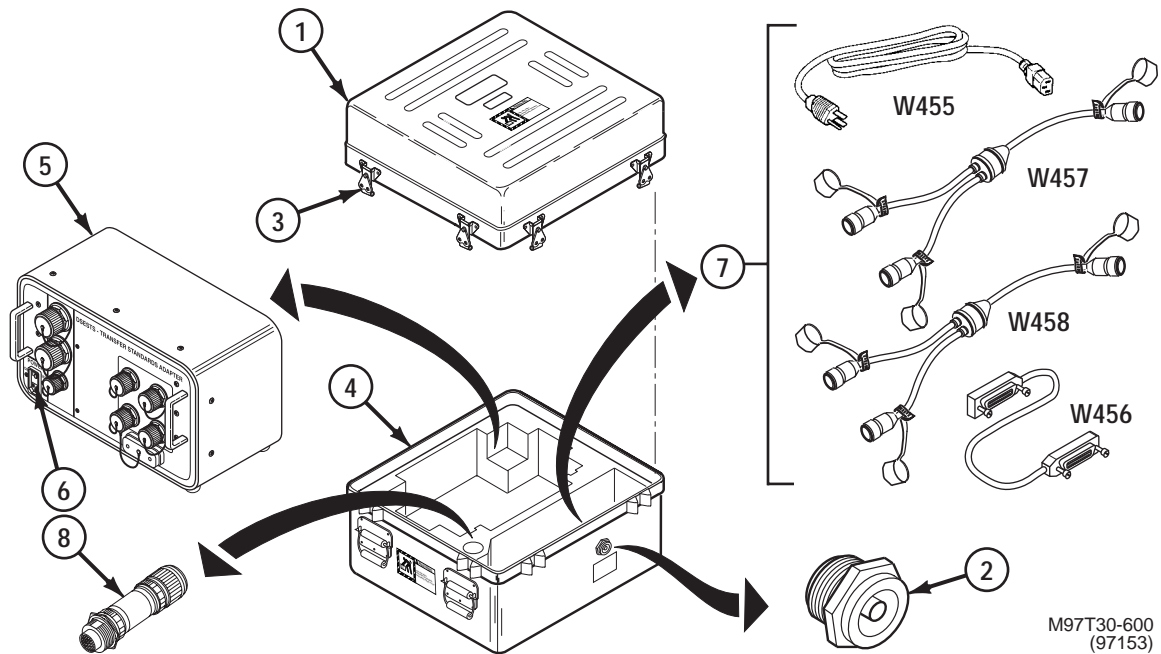
- Perform TSA functional self test as described in WP 0158 00 to verify that the unit is fully operational.
- Calibrate electronic counter AN/USM 459B and digital multimeter HP34401A as prescribed in TB 43-180.
- Again perform TSA functional self test.

TSA FUNCTIONAL SELF TEST**0158 00****THIS WORK PACKAGE COVERS:**

- Set up TSA for functional self test.
- Perform TSA functional self test

INITIAL SETUP**Tools:**

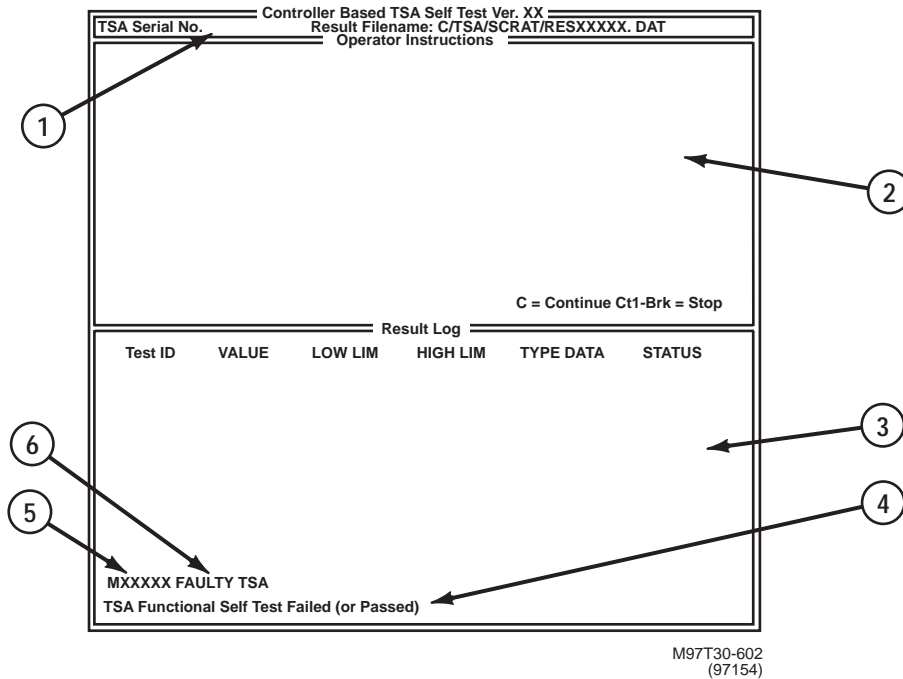
Test Controller
 Variable Power Supply, HP 1610 or equivalent
 Variable Power Supply, John Fluke 5700 or equivalent
 10 Vdc Power Supply Adapter (Item 1, WP 0211 00)
 24 Vdc Power Supply Adapter (Item 2, WP 0211 00)
 Test Leads, Double Banana Jack (5)

SET UP TSA FOR FUNCTIONAL SELF TEST

- Remove TSA accessory storage unit cover (1).
 - Press in pressure relief valve button (2).
 - Turn each of eight latch handles (3) one-half turn counterclockwise.
 - Remove accessory storage unit cover (1) from case (4)
- Remove TSA (5) from case (4).
 - Lift TSA (5) from case (4).
 - Verify that TSA power module switch (6) is in OFF position.
- Remove test cables (7) and TSA FST adapter (8) from case (4).
 - Remove cables W455, W456, W457, and W458 (7) from case (4).
 - Remove TSA FST adapter (8) from case (4).

END OF TASK

PERFORM TSA FUNCTIONAL SELF TEST



NOTE

Use the HP 1610 (or equivalent) as the 24 Vdc power supply; use the Fluke 5700 (or equivalent) as the 10 Vdc power supply.

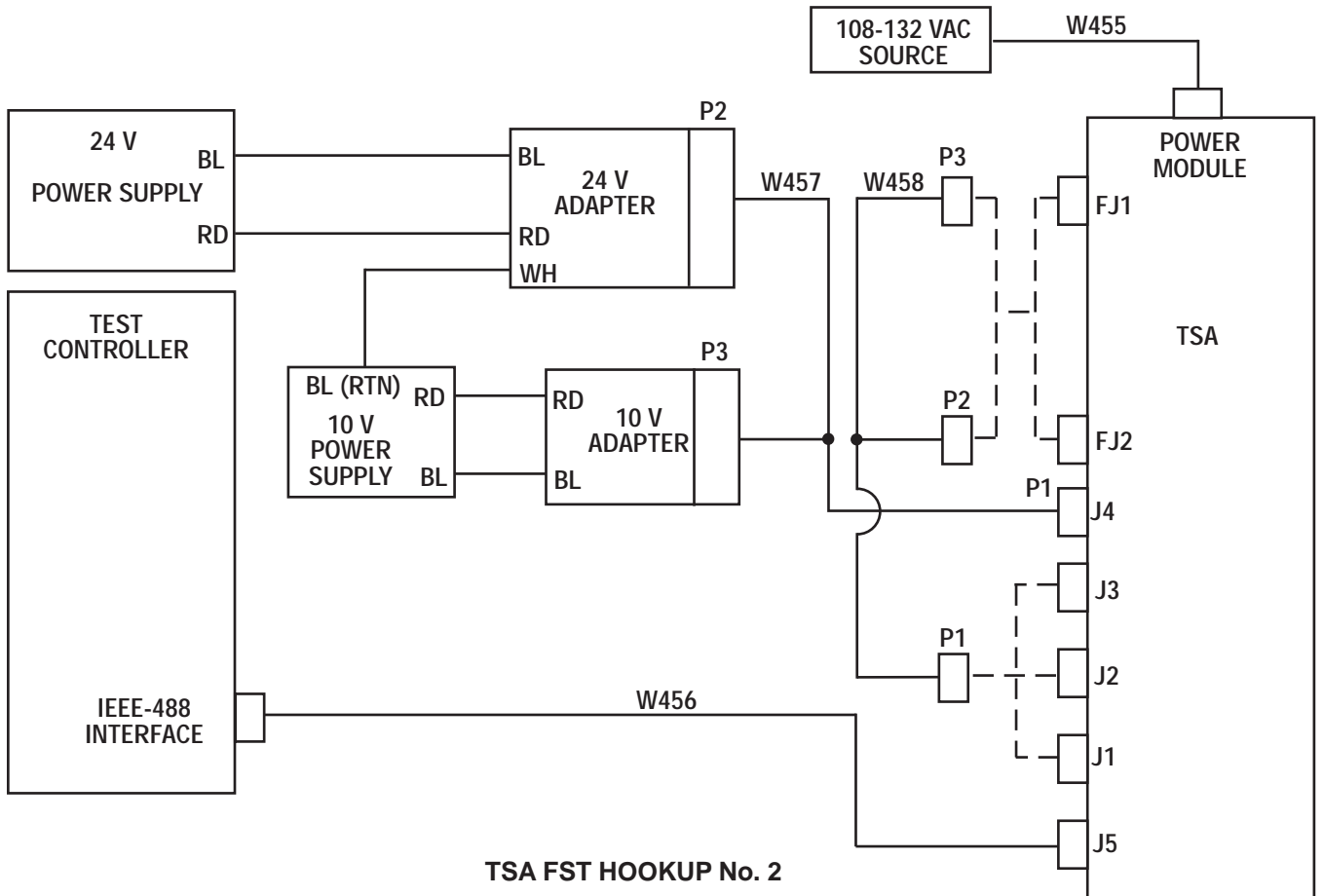
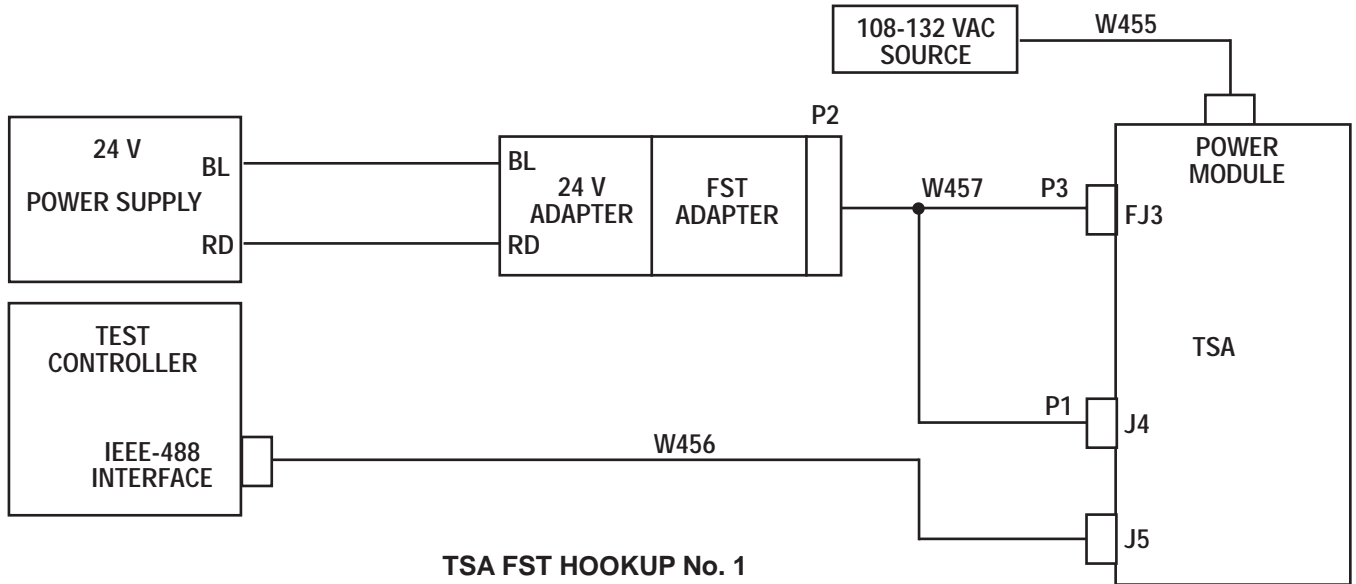
- After powering up the test controller, type in "tsafst" at the prompt and then press ENTER.
- With the cursor positioned in the "TSA Serial No." sector of the screen (1), type in the serial number of the TSA under test and then press ENTER.
- Follow the test instructions now displayed in the "Operator Instructions" sector of the screen (2).

NOTE

When the 10 V power supply is connected there will be two banana jack plugs connected to the 10 V power supply return jack. The 10 V power supply must be set precisely to 9.99 Vdc.

- Refer to the hookup diagrams in this work package to aid in making test connections.
 - Each time you complete test instructions displayed on the screen, press the "C" key to continue the test.
 - If it is necessary to abort testing at any time, simultaneously press the "CONTROL" and "BREAK" keys.
- Monitor test results in the "Result Log" sector of the screen (3).
 - If "TSA Functional Self Test Passed" is displayed in the test status screen sector (4), the TSA is OK.
 - If "TSA Functional Self Test Failed" is displayed, go to step e.
 - Record the failure identification number (5) and fault message (6) before powering down the test controller. Refer to WP 0159 00 to troubleshoot the TSA.

END OF TASK



M97T30-601
(97154)

SYMPTOM

TSA FAILS FUNCTIONAL SELF TEST

Test Equipment/Special Tools:

- Multimeter

Equipment Conditions:

Functional self test in progress; fault message displayed.

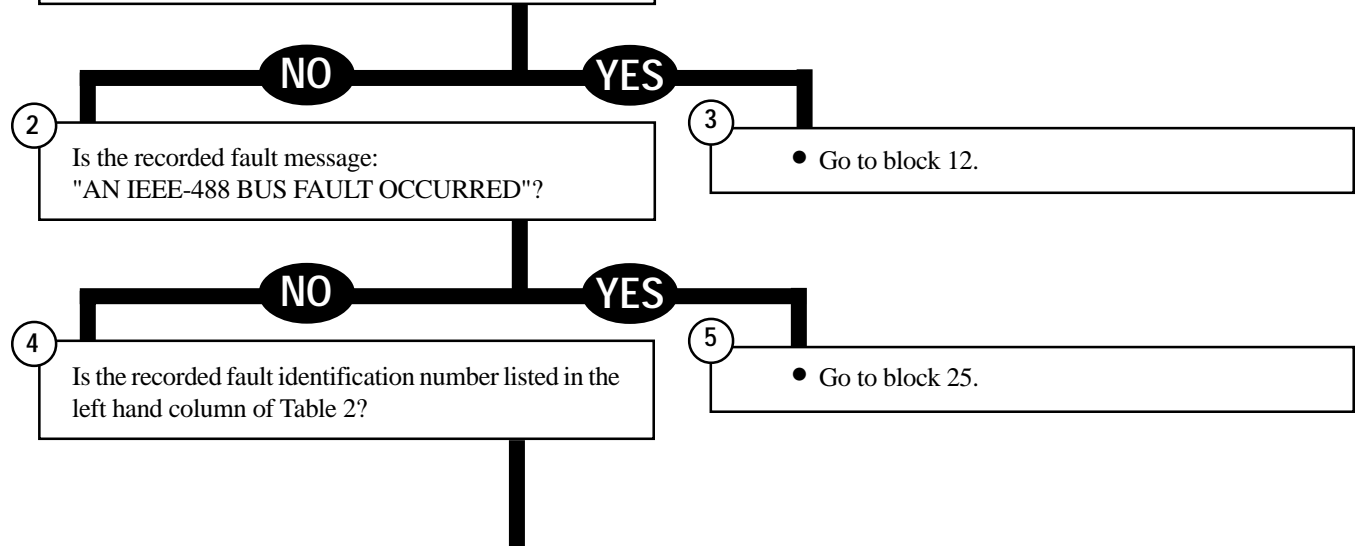
NOTE

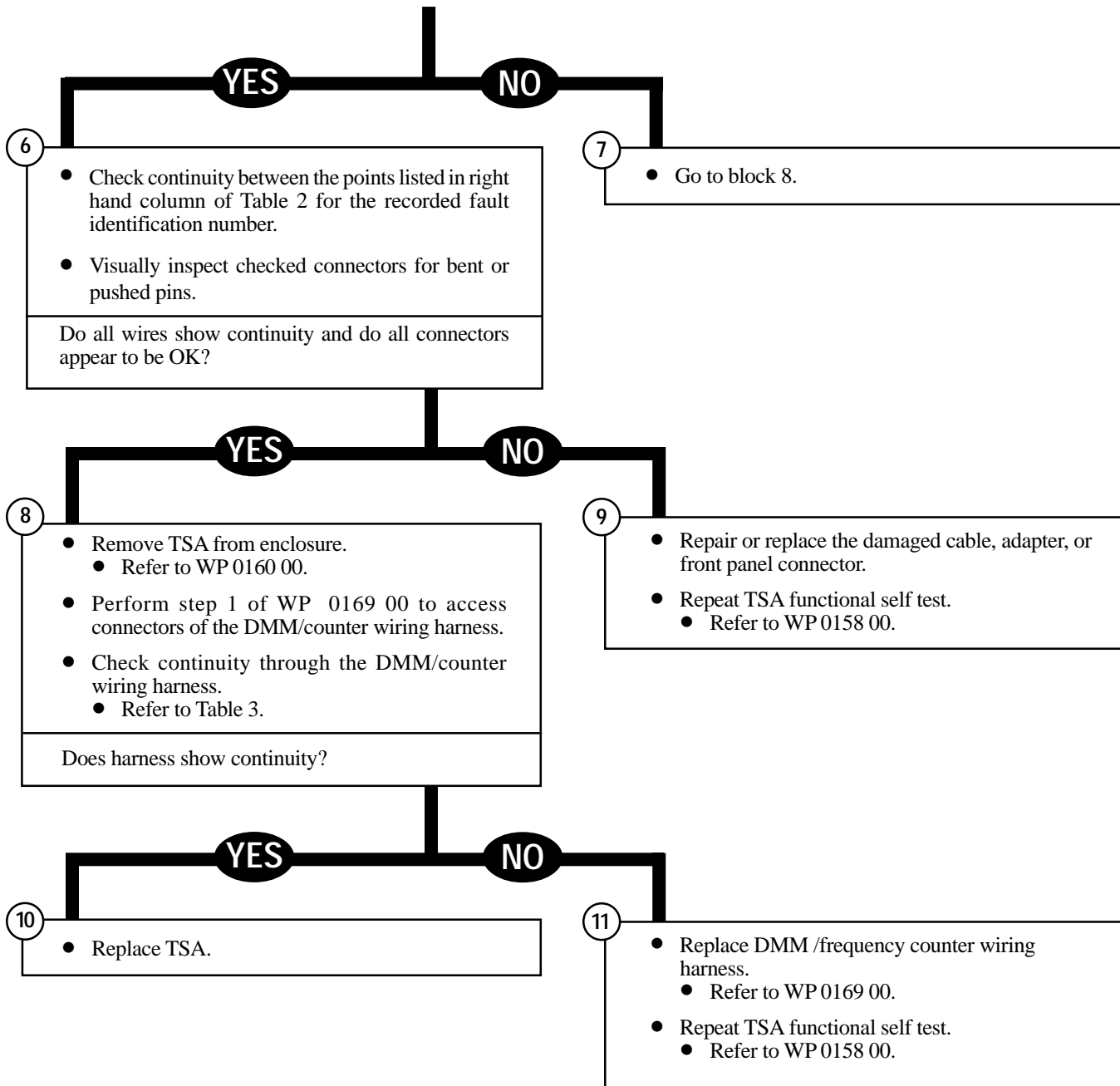
Do not turn in or discard removed parts until troubleshooting procedure is completed. Refer to WP 0159 00, foldout Figure 1 (rear of manual) to locate TSA components. Refer to Table 1 to locate TSA replacement procedures.

- 1
- Record the displayed fault message(s) and failure identification number(s).
 - Follow displayed instructions until TSA is disconnected from test equipment.
- Is the recorded failure identification number M00100, M00200, M11005, M11010, M11030, or M11040?

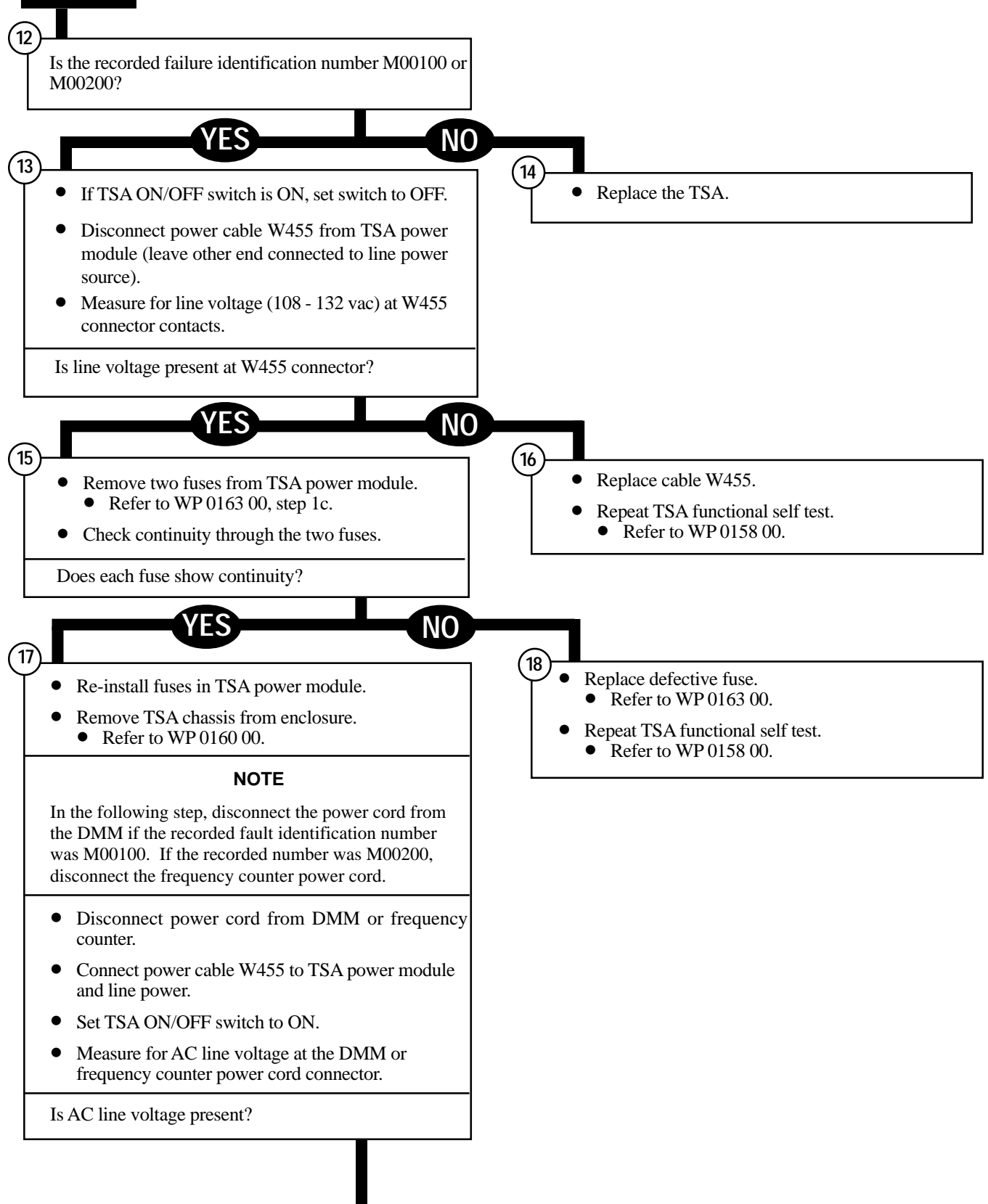
Table 1. TSA Component Replacement Tasks

Components	Replacement Task Work Packages
Remove/Install TSA chassis in enclosure	WP 0160 00
Power Module	WP 0163 00
Cables W457 and W458	WP 0164 00
FST Adapter UJ6/W457	WP 0165 00
Connectors FJ1, FJ2, FJ3	WP 0166 00
DMM Fuse	WP 0168 00
DMM/Frequency Counter Wiring Harness	WP 0169 00





From block 3.



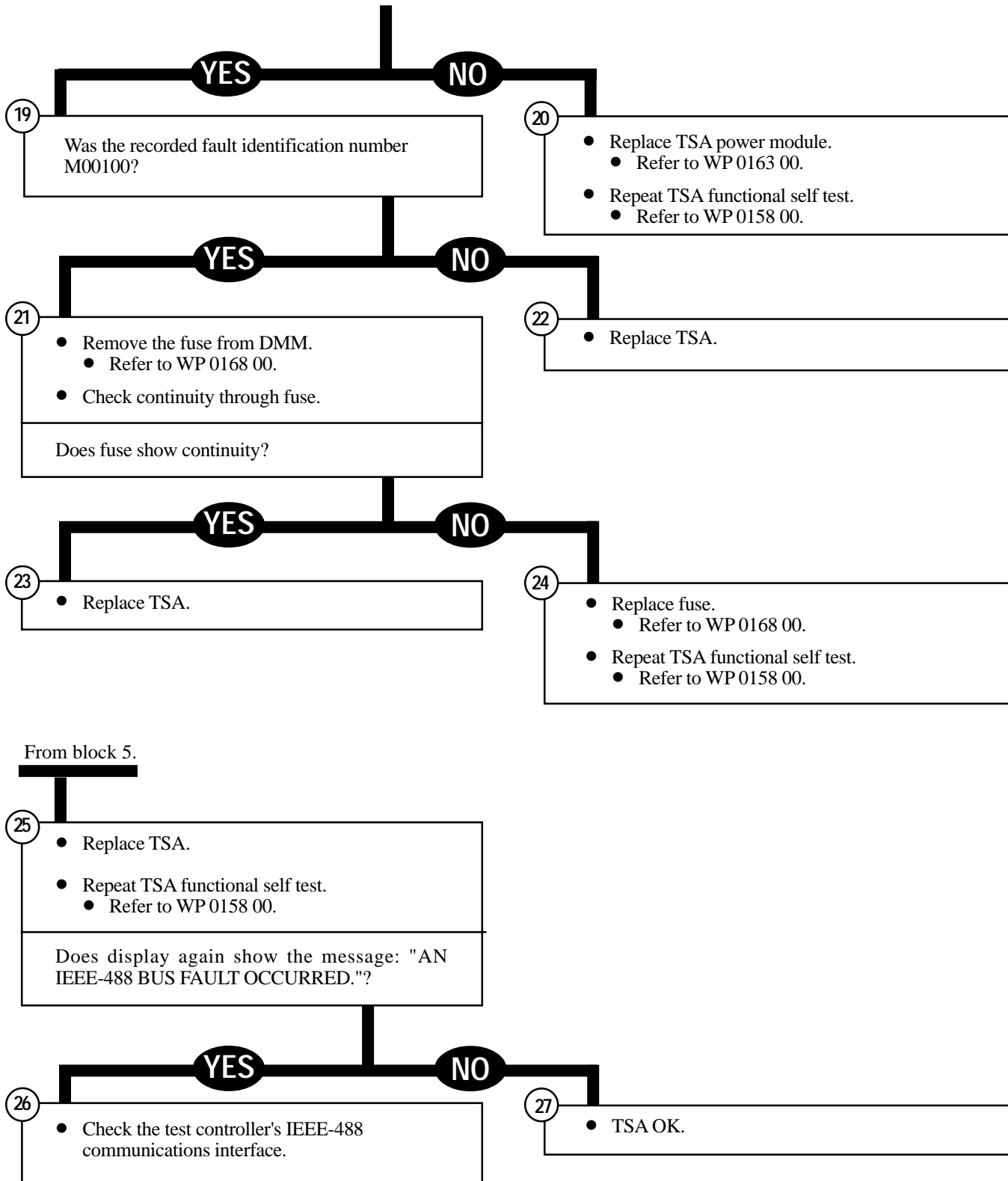


Table 2. Cable/Adapter Wiring

Test ID No.	Cable/Adapter Wiring
M12010	<ul style="list-style-type: none"> • Adapter P2-A to P2-PP
M12110	<ul style="list-style-type: none"> • Adapter P1-KK to P2-KK • Adapter P1-LL to P2-LL • Adapter P1-MM to P2-MM • Adapter P1-EE to P2-EE • Adapter P1-FF to P2-FF • Adapter P1-GG to P2-GG
M12120	<ul style="list-style-type: none"> • Cable W457 P1-44 to P1-45
M12320	<ul style="list-style-type: none"> • Adapter P1-F to P1-K • Adapter P1-J to P1-N • Cable W457 P2-F to P1-26 • Cable W457 P2-J to P1-7 • Cable W457 P2-K to P1-8 • Cable W457 P2-N to P1-37
M12340	<ul style="list-style-type: none"> • Adapter P1-G to P1-L • Adapter P1-J to P1-N • Cable W457 P2-F to P1-26 • Cable W457 P2-J to P1-7 • Cable W457 P2-L to P1-9 • Cable W457 P2-N to P1-37
M12360	<ul style="list-style-type: none"> • Adapter P1-H to P1-M • Adapter P1-Y to P1-P • Cable W457 P2-M to P1-36 • Cable W457 P2-P to P1-38 • Cable W457 P2-Y to P1-78 • Cable W457 P2-H to P1-28
M13010	<ul style="list-style-type: none"> • Adapter P1-h to P1-i • Cable 457 P2-h to P1-23 • Cable W457 P2-i to P1-24
M13020	<ul style="list-style-type: none"> • Adapter P1-A to P1-PP • Cable W457 P2-A to P1-18 • Cable W457 P2-PP to P1-20
M13030	<ul style="list-style-type: none"> • Adapter P1-f to P1-g • Cable W457 P2-f to P1-21 • Cable W457 P2-g to P1-22
M13210	<ul style="list-style-type: none"> • Adapter P1-m to P1-n • Cable W457 P2-m to P1-42 • Cable W457 P2-n to P1-43

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M13220	<ul style="list-style-type: none"> • Adapter P1-j to P1-k • Cable W457 P2-j to P1-40 • Cable W457 P2-k to P1-41
M13510	<ul style="list-style-type: none"> • Cable W457 P3-28 to P1-12 • Cable W457 P3-29 to P1-13 • Cable W457 P3-1 to P1-79 • FJ3-28 to FJ3-29
M13520	<ul style="list-style-type: none"> • Cable W457 P3-27 to P1-11 • Cable W457 P3-26 to P1-10 • FJ3-27 to FJ3-26
M13530	<ul style="list-style-type: none"> • Cable W457 P3-37 to P1-19 • Cable W457 P3-26 to P1-10 • FJ3-37 to FJ3-26
M13810	<ul style="list-style-type: none"> • Cable W457 P3-31 to P1-15 • Cable W457 P3-30 to P1-14 • FJ3-30 to FJ3-31
M13820	<ul style="list-style-type: none"> • Cable W457 P3-33 to P1-17 • Cable W457 P3-32 to P1-16 • FJ3-33 to FJ3-32
M13830	<ul style="list-style-type: none"> • Cable W457 P2-m to P1-42 • Cable W457 P2-n to P1-43 • Adapter P1-m to P1-n
M13840	<ul style="list-style-type: none"> • Cable W457 P3-36 to P1-47 • Cable W457 P3-35 to P1-48 • FJ3-35 to FJ3-36
M13930	<ul style="list-style-type: none"> • Cable W457 P2-KK to P1-1 • Cable W457 P2-LL to P1-2 • Cable W457 P2-MM to P1-3 • Cable W457 P2-EE to P1-4 • Cable W457 P2-FF to P1-5 • Cable W457 P2-GG to P1-6 • Cable W457 P1-44 to P1-45
M13950	<ul style="list-style-type: none"> • Cable W457 P3-33 to P1-17 • Cable W457 P3-32 to P1-16
M14010	<ul style="list-style-type: none"> • Cable W457 P3-30 to P1-14 • Cable W457 P3-31 to P1-15

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M14110	<ul style="list-style-type: none"> • Cable W457 P3-32 to P1-16 • Cable W457 P3-33 to P1-17
M15010	<ul style="list-style-type: none"> • Cable W457 P1-44 to P1-45 • Cable W458 P1-73 to P1-74
M15110	<ul style="list-style-type: none"> • Cable W458 P2-2 to P1-2 • Cable W458 P2-1 to P1-1 • FJ1-1 to FJ1-2
M15120	<ul style="list-style-type: none"> • Cable W458 P2-4 to P1-4 • Cable W458 P2-3 to P1-3 • FJ1-3 to FJ1-4
M15130	<ul style="list-style-type: none"> • Cable W458 P2-6 to P1-6 • Cable W458 P2-5 to P1-5 • FJ1-5 to FJ1-6
M15140	<ul style="list-style-type: none"> • Cable W458 P2-8 to P1-8 • Cable W458 P2-7 to P1-7 • FJ1-7 to FJ1-8
M15150	<ul style="list-style-type: none"> • Cable W458 P2-10 to P1-10 • Cable W458 P2-9 to P1-9 • FJ1-9 to FJ1-10
M15160	<ul style="list-style-type: none"> • Cable W458 P2-12 to P1-12 • Cable W458 P2-11 to P1-11 • FJ1-11 to FJ1-12
M15170	<ul style="list-style-type: none"> • Cable W458 P2-14 to P1-14 • Cable W458 P2-13 to P1-13 • FJ1-13 to FJ1-14
M15180	<ul style="list-style-type: none"> • Cable W458 P2-21 to P1-21 • Cable W458 P2-22 to P1-22 • FJ1-21 to FJ1-22
M15190	<ul style="list-style-type: none"> • Cable W458 P2-23 to P1-23 • Cable W458 P2-24 to P1-24 • FJ1-23 to FJ1-24
M15200	<ul style="list-style-type: none"> • Cable W458 P2-17 to P1-17 • Cable W458 P2-117 to P1-60 • FJ1-17 to FJ1-117

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M15210	<ul style="list-style-type: none"> • Cable W458 P2-124 to P1-65 • Cable W458 P2-125 to P1-66 • FJ1-124 to FJ1-125
M15220	<ul style="list-style-type: none"> • Cable W458 P2-113 to P1-58 • Cable W458 P2-121 to P1-62 • FJ1-113 to FJ1-121
M15230	<ul style="list-style-type: none"> • Cable W458 P2-16 to P1-16 • Cable W458 P2-15 to P1-15 • FJ1-15 to FJ1-16
M15510	<ul style="list-style-type: none"> • Cable W458 P2-27 to P1-26 • Cable W458 P2-28 to P1-27 • FJ1-27 to FJ1-28
M15520	<ul style="list-style-type: none"> • Cable W458 P2-88 to P1-47 • Cable W458 P2-89 to P1-48 • FJ1-88 to FJ1-89
M16015	<ul style="list-style-type: none"> • Cable W458 P2-111 to P1-56 • Cable W458 P2-112 to P1-57 • FJ2-111 to FJ2-112
M17010	<ul style="list-style-type: none"> • Cable W458 P1-73 to P1-74
M17110	<ul style="list-style-type: none"> • Cable W458 P2-19 to P1-19 • Cable W458 P2-3 to P1-3 • FJ2-3 to FJ2-19
M17120	<ul style="list-style-type: none"> • Cable W458 P2-18 to P1-18 • Cable W458 P2-17 to P1-17 • FJ2-17 to FJ2-18
M17130	<ul style="list-style-type: none"> • Cable W458 P2-21 to P1-21 • Cable W458 P2-20 to P1-20 • FJ2-20 to FJ2-21
M17140	<ul style="list-style-type: none"> • Cable W458 P2-4 to P1-4 • Cable W458 P2-106 to P1-53 • FJ2-4 to FJ2-106
M17150	<ul style="list-style-type: none"> • Cable W458 P2-6 to P1-6 • Cable W458 P2-106 to P1-53 • FJ2-6 to FJ2-106

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M17160	<ul style="list-style-type: none"> • Cable W458 P2-5 to P1-5 • Cable W458 P2-106 to P1-53 • FJ2-5 to FJ2-106
M17210	<ul style="list-style-type: none"> • Cable W458 P2-71 to P1-37 • Cable W458 P2-72 to P1-38 • FJ2-71 to FJ2-72
M17220	<ul style="list-style-type: none"> • Cable W458 P2-75 to P1-39 • Cable W458 P2-76 to P1-40 • FJ2-75 to FJ2-76
M17230	<ul style="list-style-type: none"> • Cable W458 P2-77 to P1-41 • Cable W458 P2-76 to P1-40 • FJ2-76 to FJ2-77
M17240	<ul style="list-style-type: none"> • Cable W458 P2-94 to P1-49 • Cable W458 P2-95 to P1-50 • FJ2-94 to FJ2-95
M18010	<ul style="list-style-type: none"> • Cable W458 P2-1 to P1-1 • Cable W458 P2-2 to P1-2 • FJ1-1 to FJ1-2
M18030	<ul style="list-style-type: none"> • Cable W458 P2-7 to P1-7 • Cable W458 P2-8 to P1-8 • FJ1-7 to FJ1-8
M18040	<ul style="list-style-type: none"> • Cable W458 P2-9 to P1-9 • Cable W458 P2-10 to P1-10 • FJ1-9 to FJ1-10
M18050	<ul style="list-style-type: none"> • Cable W458 P2-11 to P1-11 • Cable W458 P2-12 to P1-12 • FJ1-11 to FJ1-12
M18060	<ul style="list-style-type: none"> • Cable W458 P2-13 to P1-13 • Cable W458 P2-14 to P1-14 • FJ1-13 to FJ1-14
M18070	<ul style="list-style-type: none"> • Cable W458 P2-15 to P1-15 • Cable W458 P2-16 to P1-16 • FJ1-15 to FJ1-16
M19010	<ul style="list-style-type: none"> • Cable W458 P1-73 to P1-74

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M20010	<ul style="list-style-type: none"> • Cable W458 P2-1 to P1-1 • Cable W458 P2-2 to P1-2 • FJ1-1 to FJ1-2
M20030	<ul style="list-style-type: none"> • Cable W458 P2-3 to P1-3 • Cable W458 P2-4 to P1-4 • FJ1-3 to FJ1-4
M20040	<ul style="list-style-type: none"> • Cable W458 P2-63 to P1-34 • Cable W458 P2-62 to P1-33 • FJ1-62 to FJ1-63
M20050	<ul style="list-style-type: none"> • Cable W458 P2-64 to P1-35 • Cable W458 P2-65 to P1-36 • FJ1-64 to FJ1-65
M20210	<ul style="list-style-type: none"> • Cable W458 P2-42 to P1-31 • Cable W458 P2-43 to P1-32 • FJ1-42 to FJ1-43
M20220	<ul style="list-style-type: none"> • Cable W458 P2-36 to P1-28 • Cable W458 P2-37 to P1-29 • FJ1-36 to FJ1-37
M20230	<ul style="list-style-type: none"> • Cable W458 P2-38 to P1-30 • Cable W458 P2-37 to P1-29 • FJ1-37 to FJ1-38
M20240	<ul style="list-style-type: none"> • Cable W458 P2-117 to P1-60 • Cable W458 P2-118 to P1-61 • FJ1-117 to FJ1-118
M20250	<ul style="list-style-type: none"> • Cable W458 P2-124 to P1-65 • Cable W458 P2-125 to P1-66 • FJ1-124 to FJ1-125
M20260	<ul style="list-style-type: none"> • Cable W458 P2-109 to P1-54 • Cable W458 P2-110 to P1-55 • FJ1-109 to FJ1-110
M23015	<ul style="list-style-type: none"> • Cable W458 P3-122 to P1-44 • Cable W458 P3-119 to P1-42 • Cable W458 P2-21 to P1-21 • Cable W458 P2-22 to P1-22 • FJ1-21 to FJ1-22

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M23035	<ul style="list-style-type: none"> • Cable W458 P3-127 to P1-46 • Cable W458 P3-119 to P1-42 • Cable W458 P2-95 to P1-50 • Cable W458 P2-96 to P1-51 • FJ1-95 to FJ1-96
M25010	<ul style="list-style-type: none"> • Cable W458 P3-117 to P1-43 • Cable W458 P3-119 to P1-42 • Cable W458 P2-127 to P1-63 • Cable W458 P2-128 to P1-64 • FJ2-127 to FJ2-128
M25020	<ul style="list-style-type: none"> • Cable W458 P3-124 to P1-45 • Cable W458 P3-119 to P1-42 • Cable W458 P2-122 to P1-67 • Cable W458 P2-123 to P1-68 • FJ2-122 to FJ2-123
M25030	<ul style="list-style-type: none"> • Cable W458 P3-122 to P1-44 • Cable W458 P3-119 to P1-42 • Cable W458 P2-113 to P1-52 • Cable W458 P2-114 to P1-53 • FJ2-113 to FJ2-114
M25040	<ul style="list-style-type: none"> • Cable W458 P3-127 to P1-46 • Cable W458 P3-119 to P1-42 • Cable W458 P2-105 to P1-70 • Cable W458 P2-106 to P1-59 • FJ2-105 to FJ2-106
M27015	<ul style="list-style-type: none"> • Cable W458 P3-117 to P1-43 • Cable W458 P3-119 to P1-42 • Cable W458 P3-34 to P1-25 • Cable W458 P3-35 to P1-26 • FJ2-34 to FJ2-35
M27035	<ul style="list-style-type: none"> • Cable W458 P3-124 to P1-45 • Cable W458 P3-119 to P1-42 • Cable W458 P3-36 to P1-27 • Cable W458 P3-37 to P1-69 • FJ2-36 to FJ2-37
M29010	<ul style="list-style-type: none"> • Cable W458 P3-1 to P1-5 • Cable W458 P3-2 to P1-6 • FJ1-1 to FJ1-2

Table 2. Cable/Adapter Wiring – Continued

Test ID No.	Cable/Adapter Wiring
M29020	<ul style="list-style-type: none"> • Cable W458 P3-7 to P1-7 • Cable W458 P3-8 to P1-8 • FJ1-7 to FJ1-8
M29030	<ul style="list-style-type: none"> • Cable W458 P3-71 to P1-9 • Cable W458 P3-72 to P1-10 • FJ1-71 to FJ1-72
M29210	<ul style="list-style-type: none"> • Cable W458 P3-117 to P1-43 • Cable W458 P3-119 to P1-42 • FJ1-117 to FJ1-119
M29220	<ul style="list-style-type: none"> • Cable W458 P3-124 to P1-45 • Cable W458 P3-119 to P1-42 • FJ1-119 to FJ1-124
M29230	<ul style="list-style-type: none"> • Cable W458 P3-122 to P1-44 • Cable W458 P3-119 to P1-42 • FJ1-119 to FJ1-122
M29240	<ul style="list-style-type: none"> • Cable W458 P3-127 to P1-46 • Cable W458 P3-119 to P1-42 • FJ1-119 to FJ1-127

Table 3. DMM/Counter Wiring Harness

From	To
P9-1	P10
P9-2	P11
P9-3	P12
P9-6	P13
P9-7	P14

REMOVE/INSTALL TSA CHASSIS IN ENCLOSURE

0160 00

THIS WORK PACKAGE COVERS:

Removal, Installation

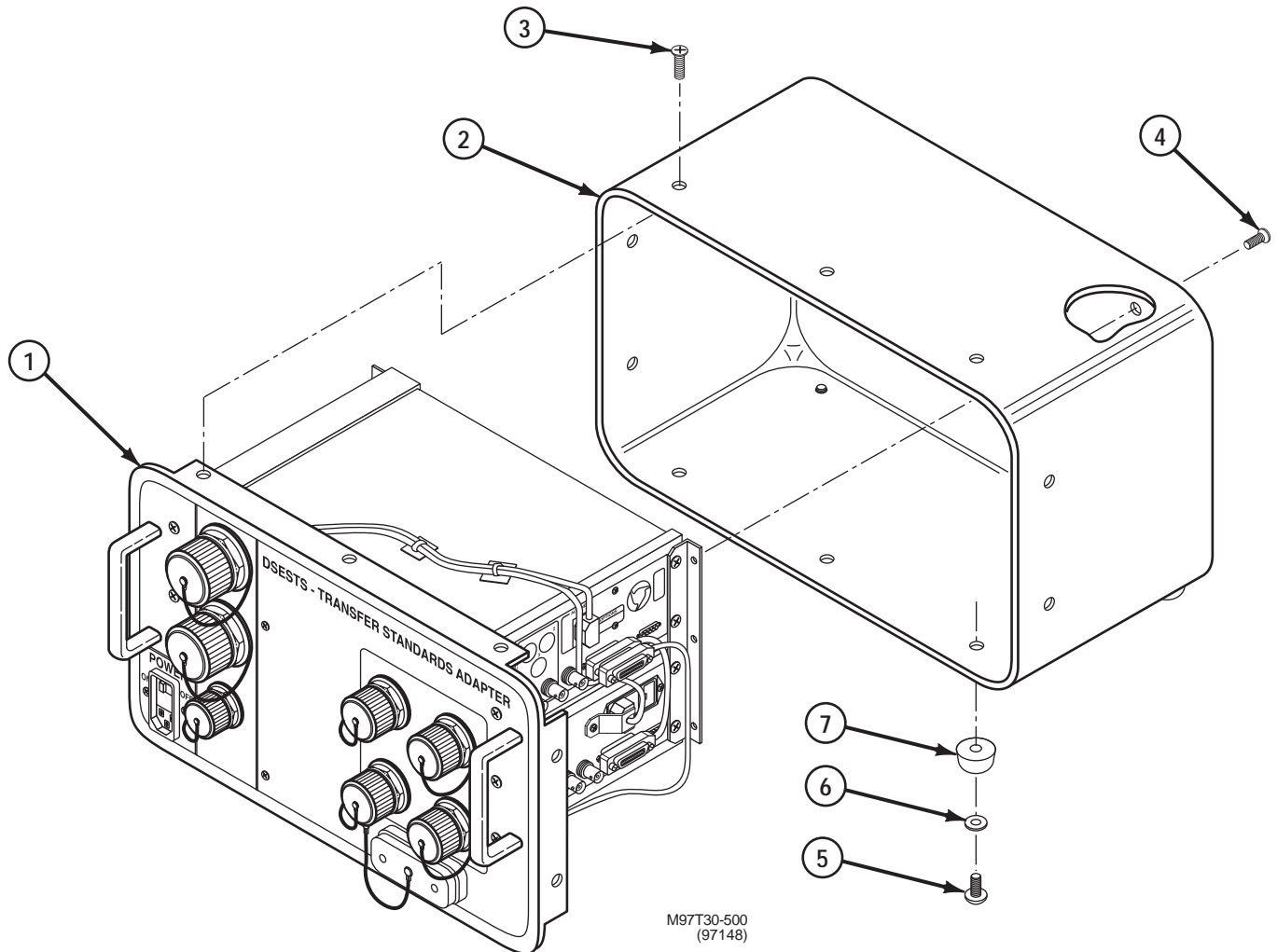
INITIAL SETUP

Tools:

Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

TSA on workbench

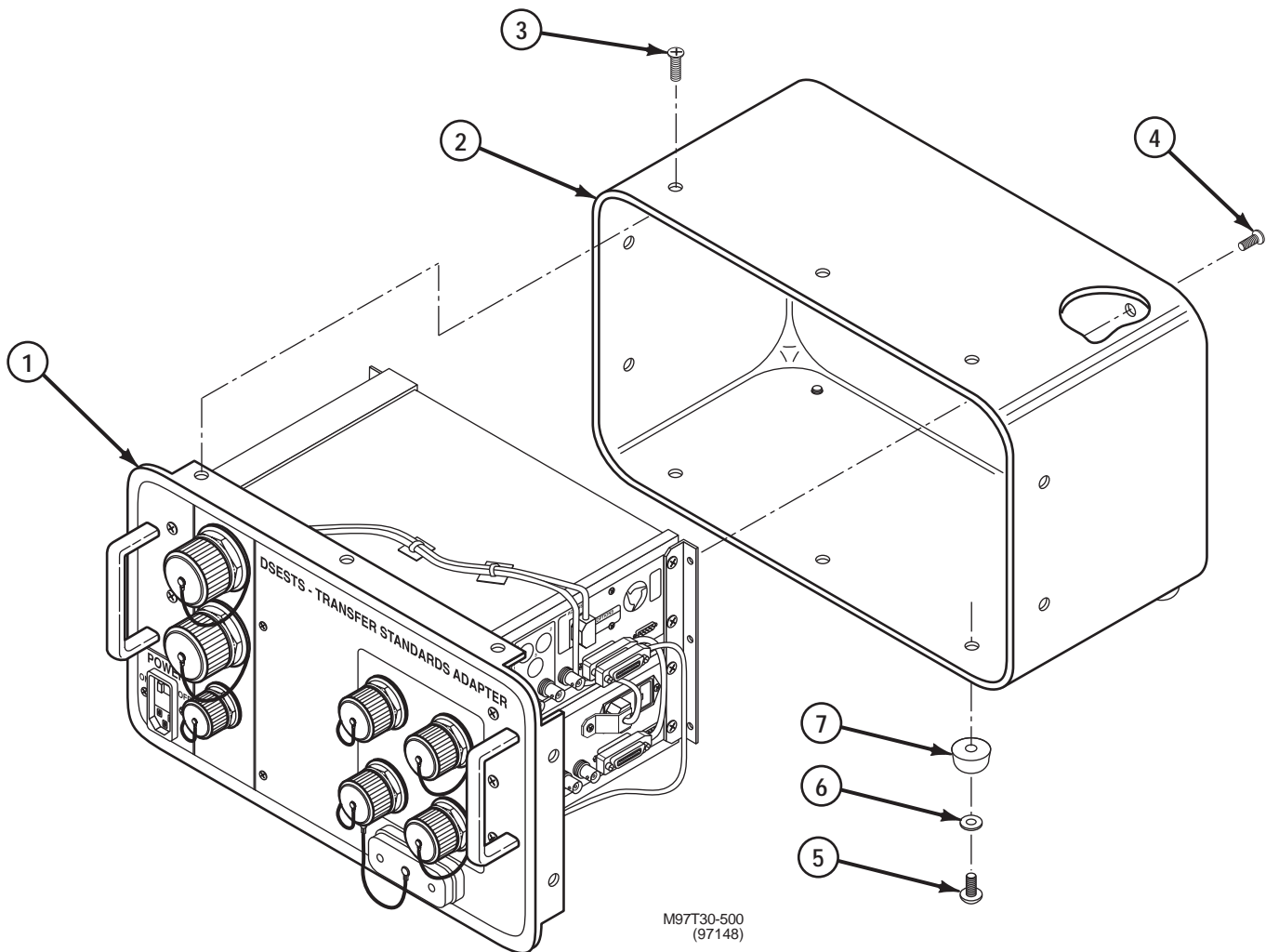


NOTE

This task is used for access when frequency counter, DMM, DMM fuse, connectors FJ1-FJ3, wiring harness, power module, CCA, bumpers, or handles must be replaced.

REMOVE

1. REMOVE TSA CHASSIS (1) FROM ENCLOSURE (2).
 - a. Remove eight screws (3) from front edges of enclosure (2).
 - b. Remove six screws (4) securing rear of TSA chassis (1) to enclosure (2).
 - c. Remove two screws (5) and two flat washers (6) securing front bumpers (7) to enclosure (2) and remove front bumpers.
 - d. Pull TSA chassis (1) from enclosure (2).



INSTALL

CAUTION

The DMM and frequency counter power switches must be in the ON position for the TSA to function properly.

2. VERIFY DMM AND FREQUENCY COUNTER POWER SWITCHES ARE IN THE ON POSITION.
3. INSTALL TSA CHASSIS (1) IN ENCLOSURE (2).
 - a. Insert TSA chassis (1) in enclosure (2) so that holes in chassis align with holes in enclosure.
 - b. Attach front bumpers (7) to enclosure (2) using two screws (5) and two flat washers (6).
 - c. Secure rear of TSA chassis (1) to enclosure (2) with six screws (4).
 - d. Attach eight screws (3) around front edges of enclosure (2).

END OF TASK

REPLACE TSA BUMPER

0161 00

THIS WORK PACKAGE COVERS:

Removal, Installation

INITIAL SETUP

Tools:

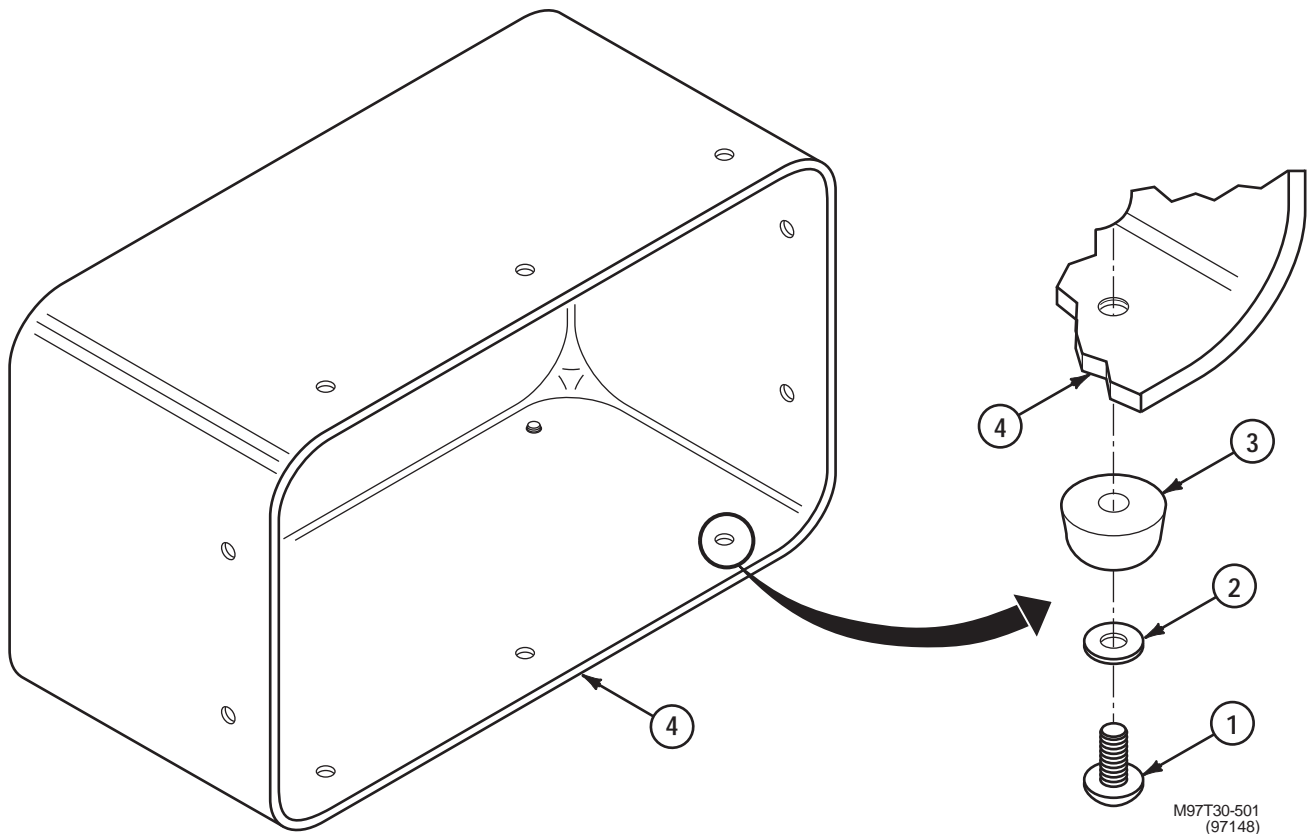
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove TSA chassis from enclosure; refer to
WP 0160 00.

Materials/Parts:

Bumper



NOTE

Use this task to replace any of the four bumpers on the TSA enclosure.

REMOVE

1. REMOVE SCREW (1), WASHER (2), AND BUMPER (3) FROM TSA ENCLOSURE (4). DISCARD BUMPER.

INSTALL

2. INSTALL SCREW (1), WASHER (2), AND NEW BUMPER (3) ON TSA ENCLOSURE (4).

END OF TASK

REPLACE TSA HANDLE**0162 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

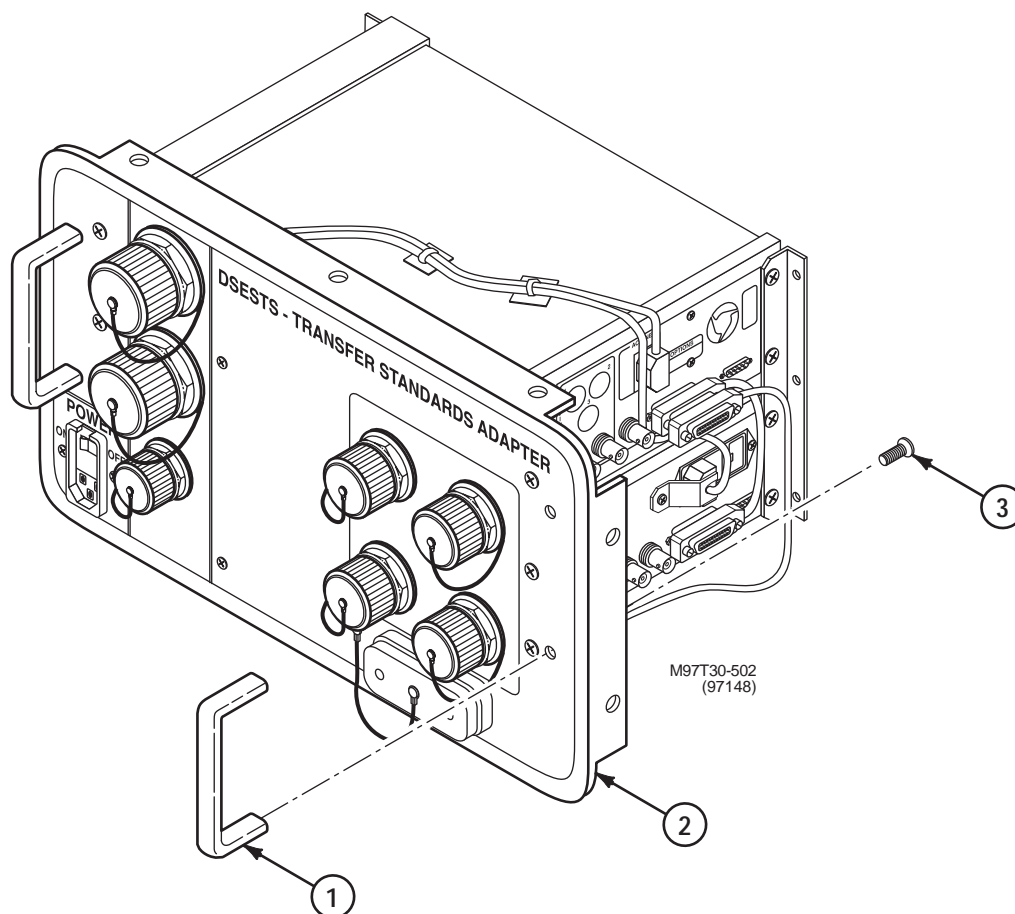
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove TSA chassis from enclosure; refer to
WP 0160 00.

Materials/Parts:

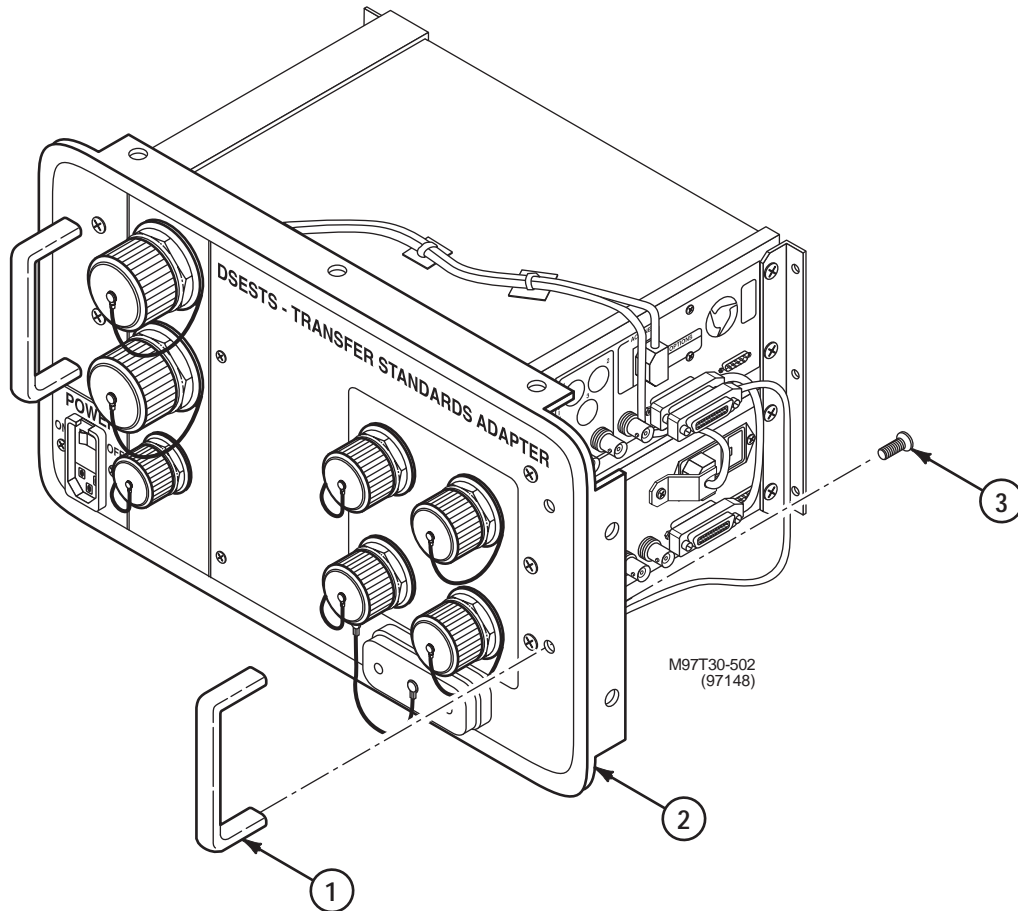
Handle
Sealing Compound (Item 4, WP 0210 00)

**NOTE**

Use this task to replace either TSA handle. Only one handle is shown.

REMOVE

1. REMOVE TSA HANDLE (1) FROM TSA FRONT PANEL (2).
 - a. Remove two screws (3) from handle (1).
 - b. Pull handle (1) from TSA front panel (2). Discard handle.

**INSTALL**

2. INSTALL NEW TSA HANDLE (1) ON TSA FRONT PANEL (2).
 - a. Lightly coat threads of two screws (3) with sealing compound.
 - b. Install new TSA handle (1) on TSA front panel (2) and secure with two screws (3).

END OF TASK

REPLACE TSA POWER MODULE**0163 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

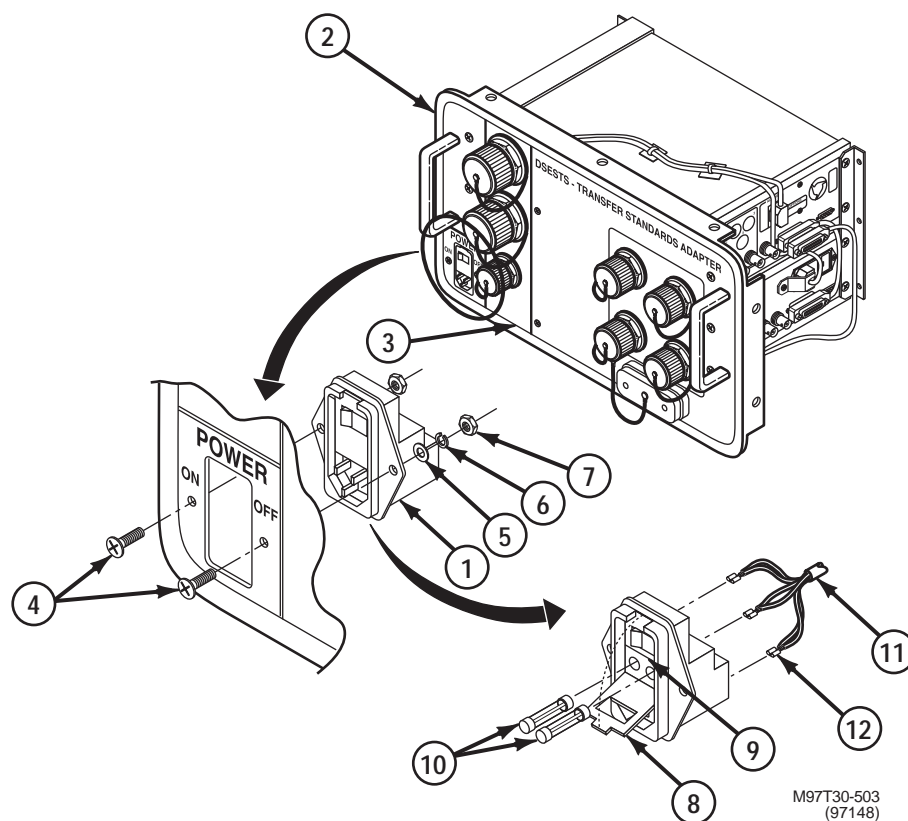
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove TSA chassis from enclosure; refer to
WP 0160 00.

Materials/Parts:

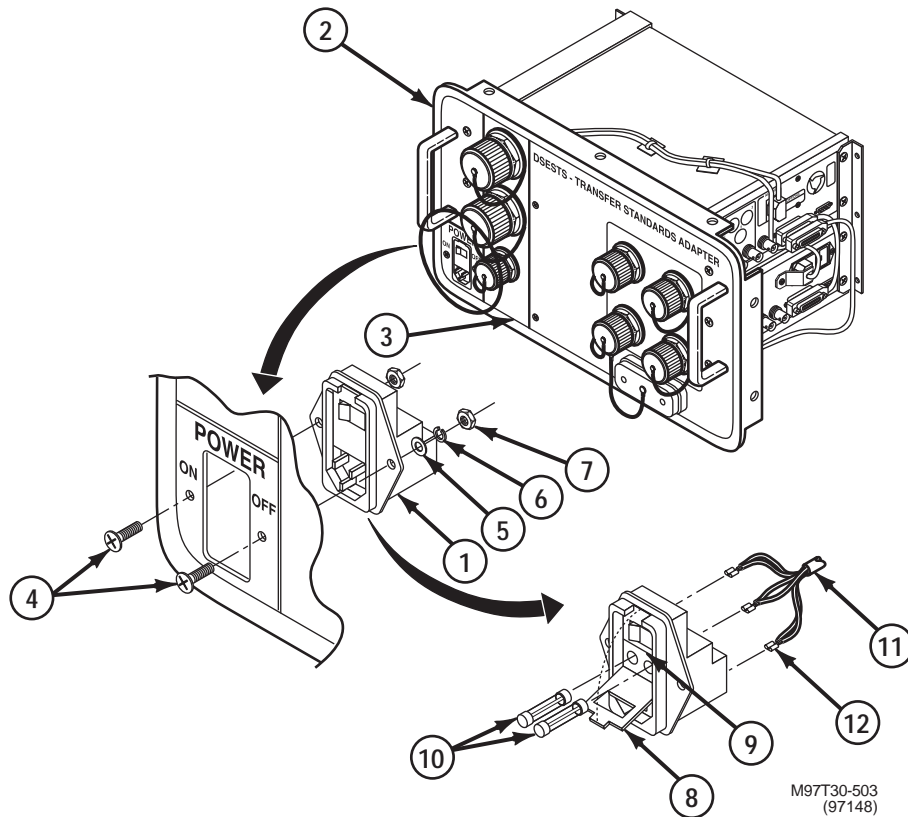
Fuse(s) (as required)
Lockwasher (2)

**NOTE**

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE POWER MODULE (1) FROM TSA (2) FRONT PANEL (3).
 - a. Remove two screws (4), flat washers (5), lockwashers (6), and nuts (7) from power module (1). Discard lockwashers.
 - b. Remove power module (1) from backside of front panel (3).
 - c. Carefully pry open front plastic face (8) of power module (1) to expose fuse holder (9). Remove two fuses (10) and check for serviceability. Replace if required.
 - d. Remove DMM/frequency power cords (11) from power module (1) by removing three power cord connectors (12). Discard power module (1).



INSTALL

2. INSTALL POWER MODULE (1) ON TSA (2) FRONT PANEL (3).

- a. Install three power cord connectors (12) to power module (1).
- b. Place power module (1) in front panel (3) from backside.
- c. Install two screws (4), flat washers (5), new lockwashers (6), and nuts (7) to secure power module (1) to front panel (3).

END OF TASK

THIS WORK PACKAGE COVERS:

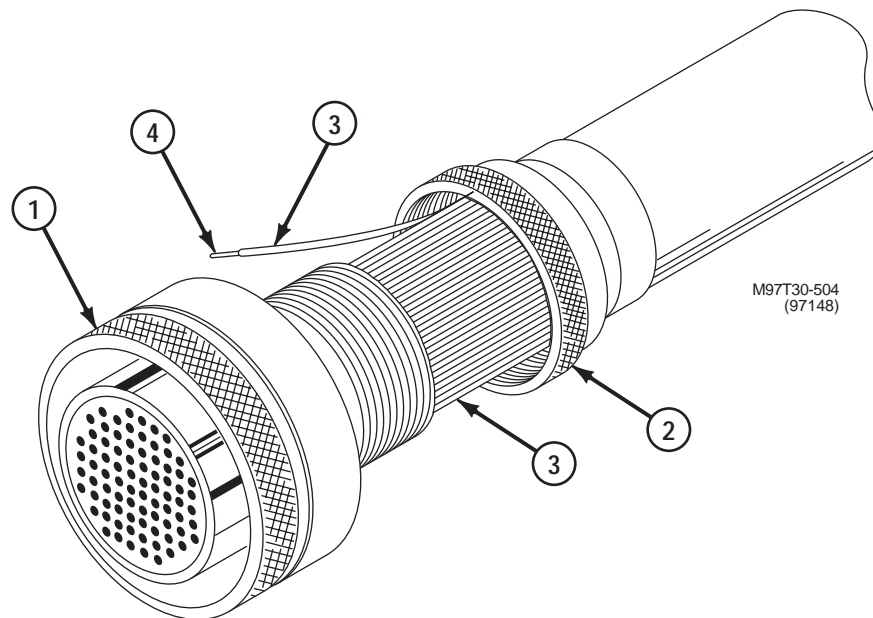
Removal, Inspection, Repair, Installation

INITIAL SETUP**Tools:**

Electrical Maintenance Kit
5705498
Calibration Specialist Tool Kit
SC 6695-92-A05

Materials/Parts:

Contact

**NOTE**

Read WP 0043 00 before doing any work.

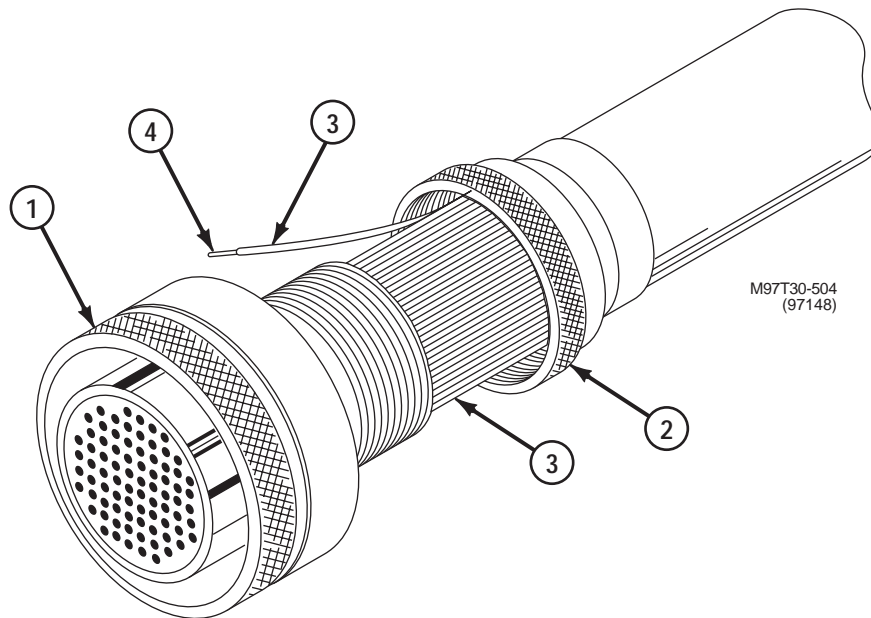
REMOVE

1. REMOVE CONNECTOR (1) FROM COUPLING NUT (2)
 - a. Using connector adapter tool and T-wrench, unscrew coupling nut (2) from connector (1).
 - b. Pull connector (1) away from coupling nut (2) as far as wires (3) will allow.

NOTE

If repairing wire(s) (3) do steps 2a and 2b. If replacing electrical connector, do steps 2a and 2c.

2. REMOVE CONTACT(S) (4) FROM CONNECTOR (1).
 - a. Using insert-extract tool, take contact (4) out of connector (1).
 - b. Repeat step 2a until all bad contacts are removed.
 - c. Repeat step 2a until all contacts are removed to replace connector.

**INSPECT**

3. INSPECT CONNECTOR (1) FOR CRACKS OR BREAKS.

- a. If bad, turn in connector (1).
- b. If OK, set aside for later use.

REPAIR

4. REPAIR WIRE(S) (3).

- a. Using pliers, cut bad contact (4) from wire (3). Discard bad contact.
- b. Using wire stripper and crimping tool, put new contact (4) on wire (3).

INSTALL

5. INSTALL CONTACT(S) (4) IN CONNECTOR (1).

- a. Using insert-extract tool, put contact (4) in connector (1).
- b. Repeat step 5a until all contacts are installed.

6. INSTALL CONNECTOR (1) ON COUPLING NUT (2).

- a. Using connector adapter tool and T-wrench or soft jaw pliers, screw coupling nut (2) on connector (1).

END OF TASK

THIS WORK PACKAGE COVERS:

Removal, Inspection, Repair, Installation

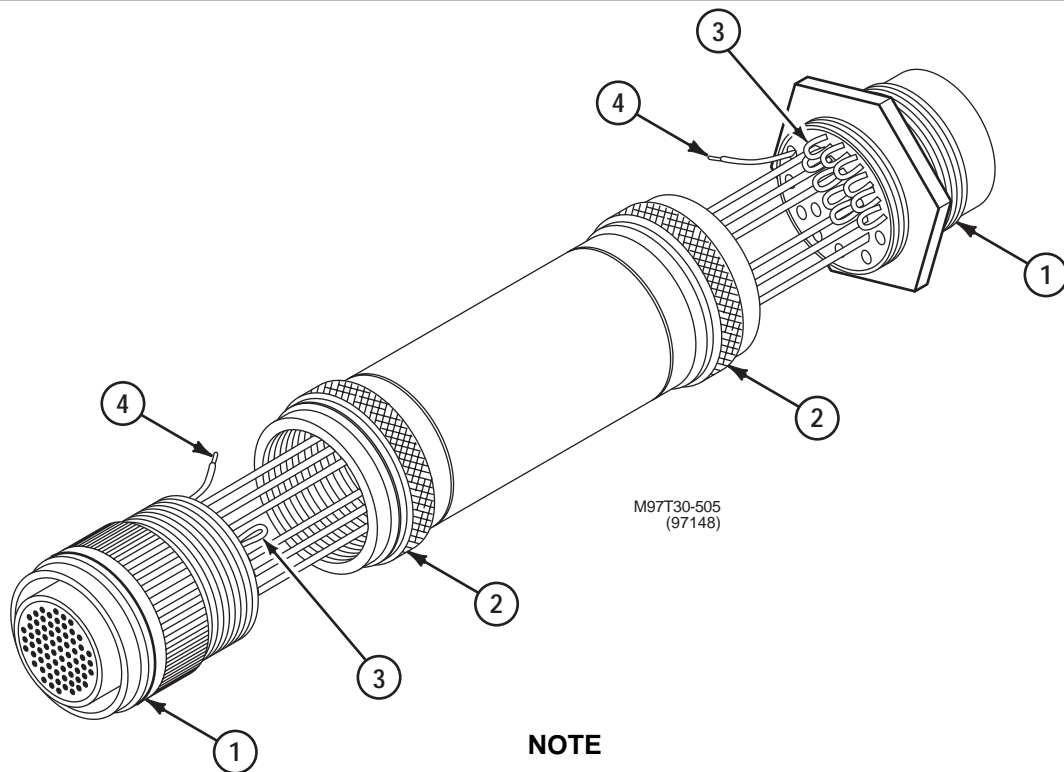
INITIAL SETUP

Tools:

Electrical Maintenance Kit
5705498

Materials/Parts:

Contact



NOTE

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR (1) FROM COUPLING NUT (2)

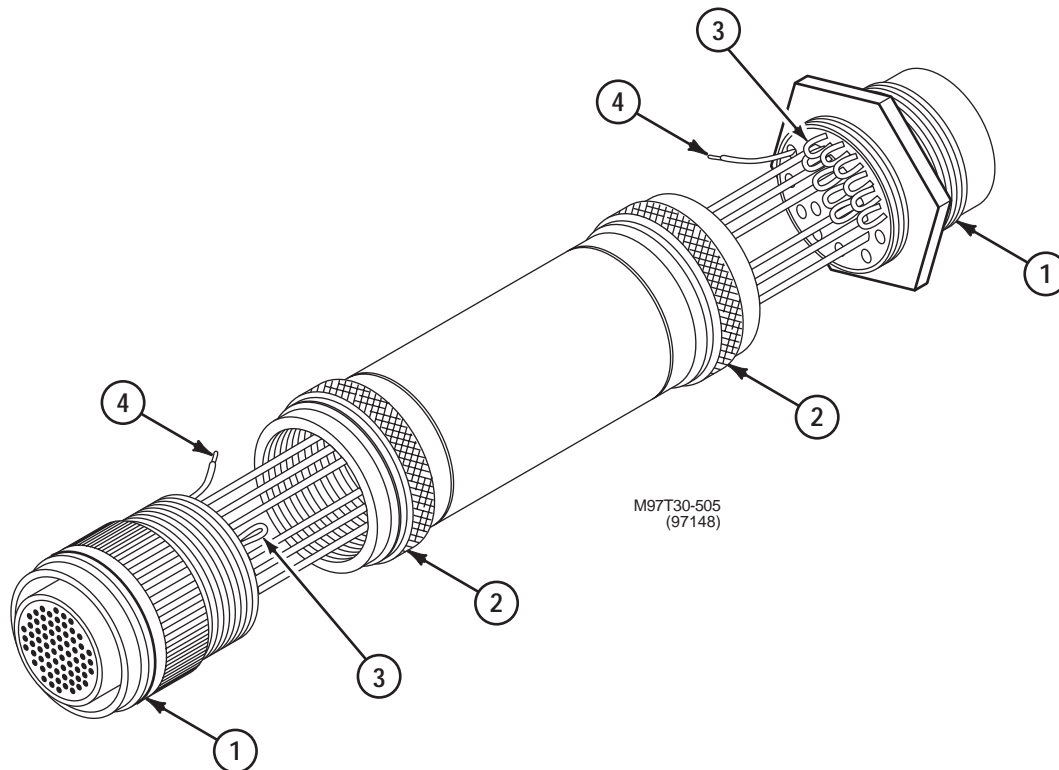
- a. Using connector adapter tool and T-wrench, unscrew coupling nut (2) from connector (1).
- b. Pull connector (1) away from coupling nut (2) as far as wires (3) will allow.

NOTE

If repairing wire(s) (3), do steps 2a and 2b. If replacing electrical connector, do steps 2a and 2c.

2. REMOVE CONTACT(S) (4) FROM CONNECTOR (1).

- a. Using insert-extract tool, take contact (4) out of connector (1).
- b. Repeat step 2a until all bad contacts are removed.



- c. Repeat step 2a until all contacts are removed to replace connector.

INSPECT

3. INSPECT CONNECTOR (1) FOR CRACKS OR BREAKS.
 - a. If bad, turn in connector (1).
 - b. If OK, set aside for later use.

REPAIR

4. REPAIR WIRE(S) (3).
 - a. Using pliers, cut bad contact (4) from wire (3). Discard bad contact.
 - b. Using wire stripper and crimping tool, put new contact (4) on wire (3).

INSTALL

5. INSTALL CONTACT(S) (4) IN CONNECTOR (1).
 - a. Using insert-extract tool, put contact (4) in connector (1).
 - b. Repeat step 5a until all contacts are installed.
6. INSTALL CONNECTOR (1) ON COUPLING NUT (2).
 - a. Using connector adapter tool and T-wrench, screw coupling nut (2) on connector (1).

END OF TASK

REPAIR/REPLACE FRONT PANEL CONNECTORS FJ1, FJ2 OR FJ3**0166 00****THIS WORK PACKAGE COVERS:**

Removal, Inspection, Repair, Installation

INITIAL SETUP**Tools:**

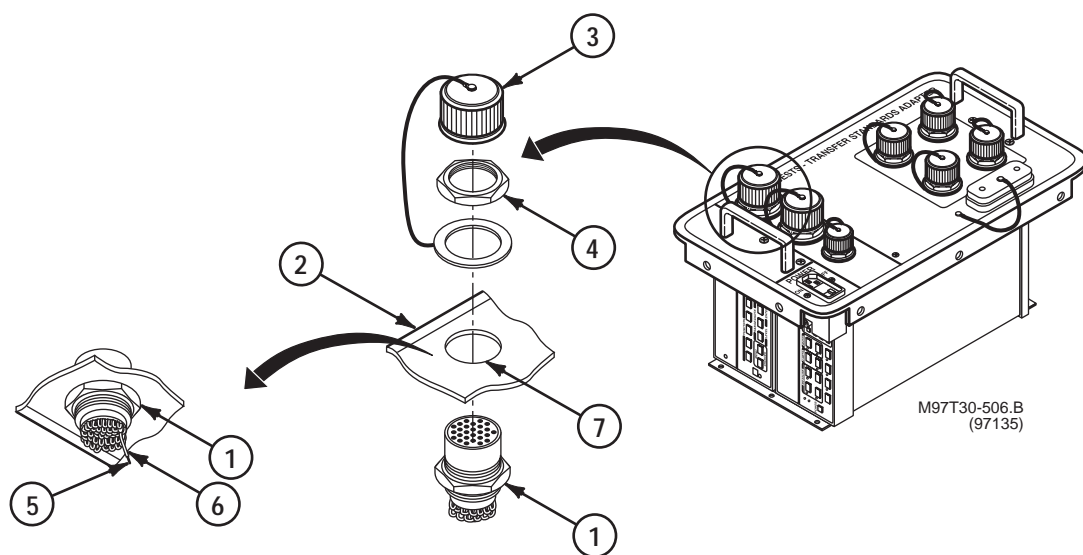
Calibration Specialist Tool Kit
 SC 6695-92-A05
 Electrical Maintenance Kit
 5705498

Equipment Conditions::

Remove TSA chassis from enclosure;
 refer to WP 0160 00.

Materials/Parts:

Contact

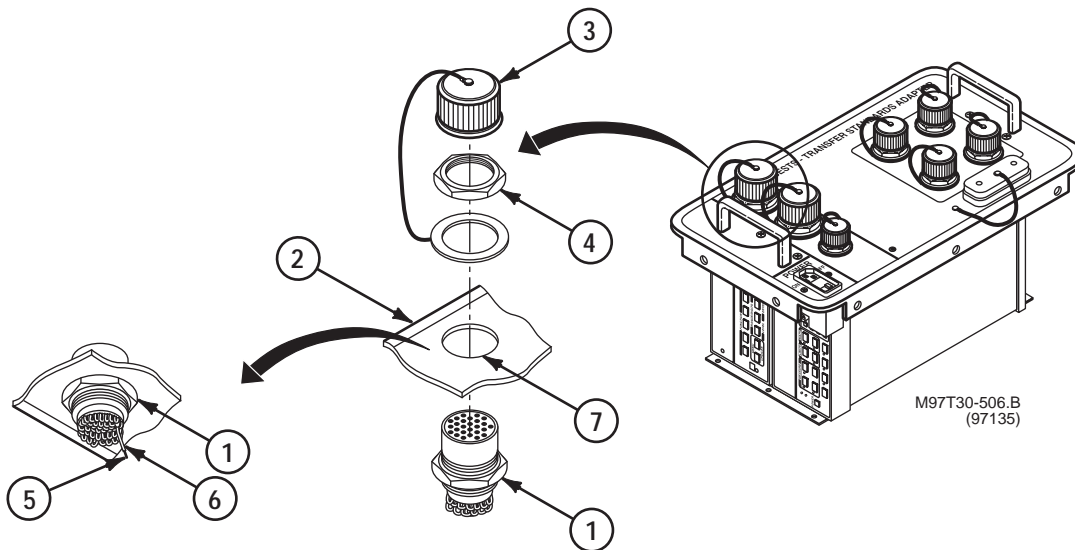
**NOTE**

Use this task to replace or repair connector FJ1, FJ2, or FJ3 on front panel (2). Connector FJ1 (1) is shown.

Read WP 0043 00 before doing any work.

REMOVE

1. REMOVE CONNECTOR (1) FROM FRONT PANEL (2).
 - a. Unscrew and take off protective cover (3) from connector (1).
 - b. Using socket and drive wrench, unscrew and take off nut (4) and protective cover ring. Set aside cover (3) and nut (4) for later use.
 - c. Take out connector (1) from back side of panel (2) mounting hole (7).
2. REMOVE CONTACT(S) (5) FROM CONNECTOR (1).
 - a. Using insert-extract tool, take wire (6) and contact (5) out of connector (1).
 - b. To repair connector, repeat step 2a until all bad contacts are removed.
 - c. To replace connector, repeat step 2a until all contacts are removed.



INSPECT

3. INSPECT CONNECTOR (1) FOR CRACKS OR BREAKS.
 - a. If bad, turn in connector (1).
 - b. If OK, set aside for later use.

REPAIR

4. REPAIR WIRE(S) (6).
 - a. Using pliers, cut bad contact (5) from wire (6). Discard bad contact.
 - b. Using wire stripper and crimping tool, put new contact (5) on wire (6).

INSTALL

5. INSTALL CONTACT(S) (5) IN CONNECTOR (1).
 - a. Using insert-extract tool, put contact (5) in connector (1).
 - b. Repeat step 5a until all contacts are installed.
6. INSTALL CONNECTOR (1) IN FRONT PANEL (2).
 - a. Place connector (1) in front panel (2) from back side.
 - b. Place protective cover ring on connector (1).
 - c. Screw nut (4) on connector (1).
 - d. Screw protective cover (3) on connector (1).

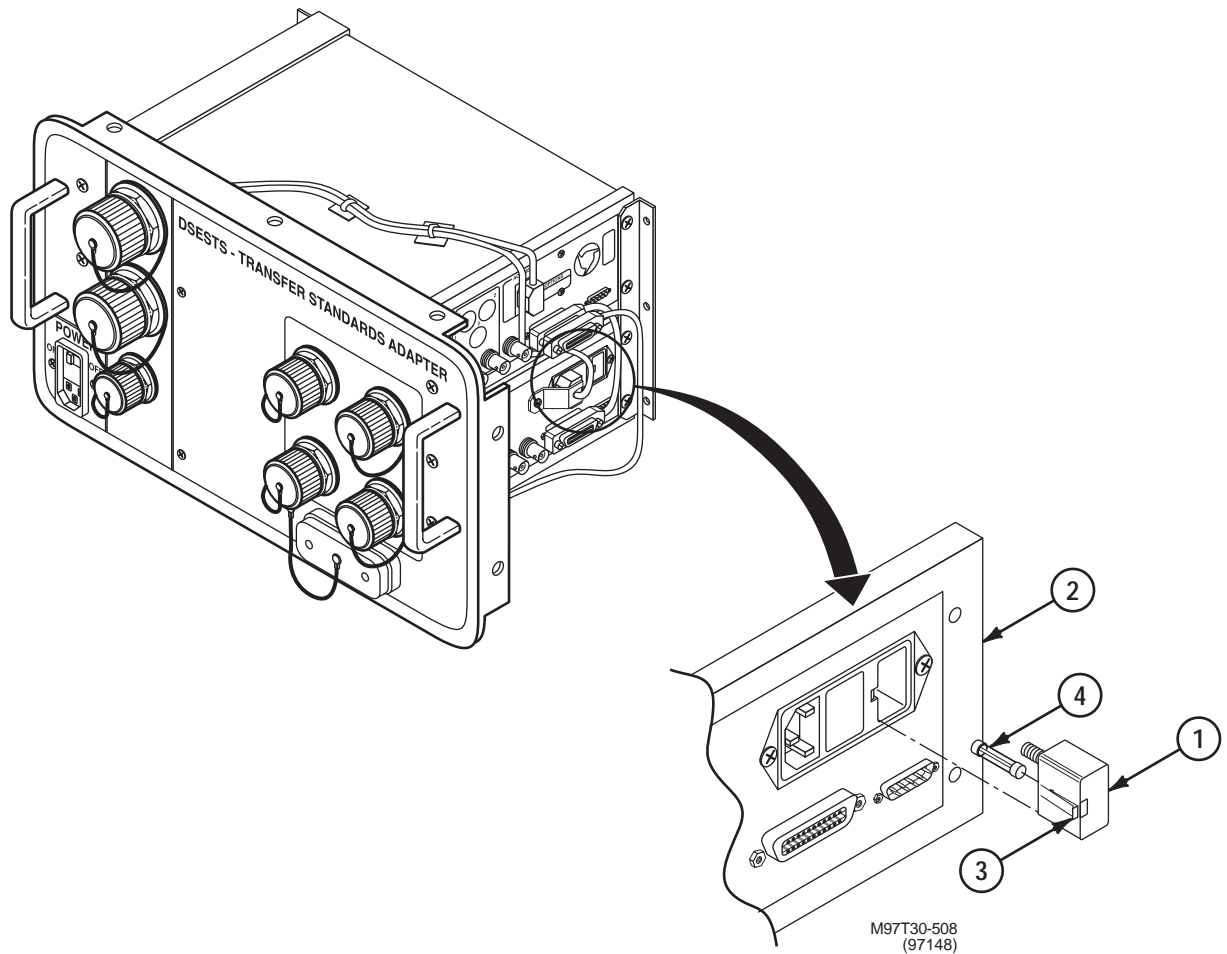
END OF TASK

REPLACE FUSE IN DMM**0168 00****THIS WORK PACKAGE COVERS:**

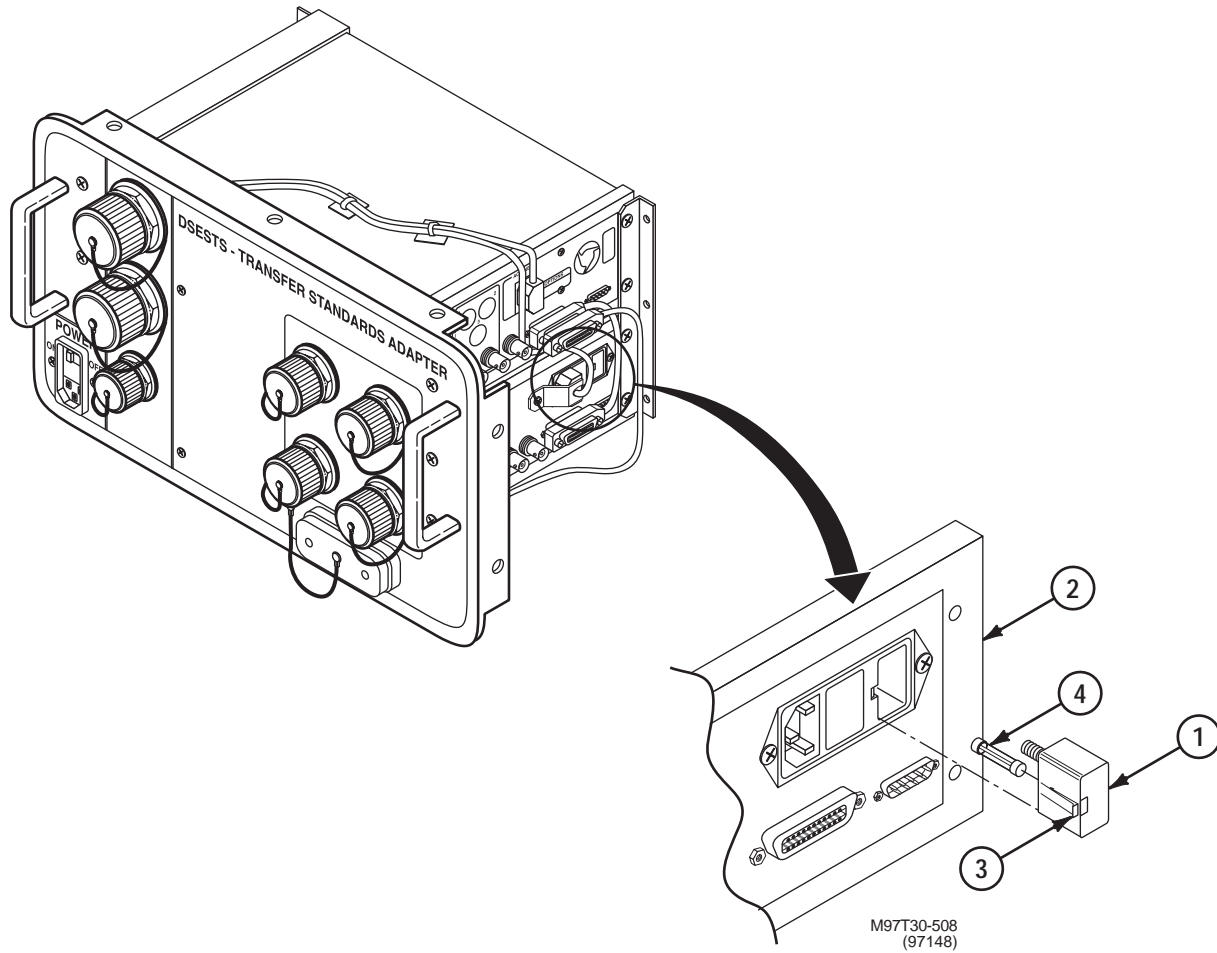
Removal, Installation

INITIAL SETUP**Tools:**Calibration Specialist Tool Kit
SC 6695-92-A05**Equipment Conditions::**Remove TSA chassis from enclosure;
refer to WP 0160 00.**Materials/Parts:**

Fuse

**REMOVE**

1. REMOVE FUSE HOLDER ASSEMBLY (1) FROM DMM (2).
 - a. Push in release clip (3) until fuse folder assembly (1) pops out.
 - b. Remove fuse holder assembly (1).
2. REMOVE FUSE (4) FROM FUSE HOLDER ASSEMBLY (1).



INSTALL

3. INSTALL NEW FUSE (4) IN FUSE HOLDER ASSEMBLY (1).
4. INSTALL FUSE HOLDER ASSEMBLY (1) IN DMM (2).
 - a. Push fuse holder assembly (1) in DMM (2) until fuse holder assembly snaps in place.

END OF TASK

REPLACE DMM/FREQUENCY COUNTER WIRING HARNESS**0169 00****THIS WORK PACKAGE COVERS:**

Removal, Installation

INITIAL SETUP**Tools:**

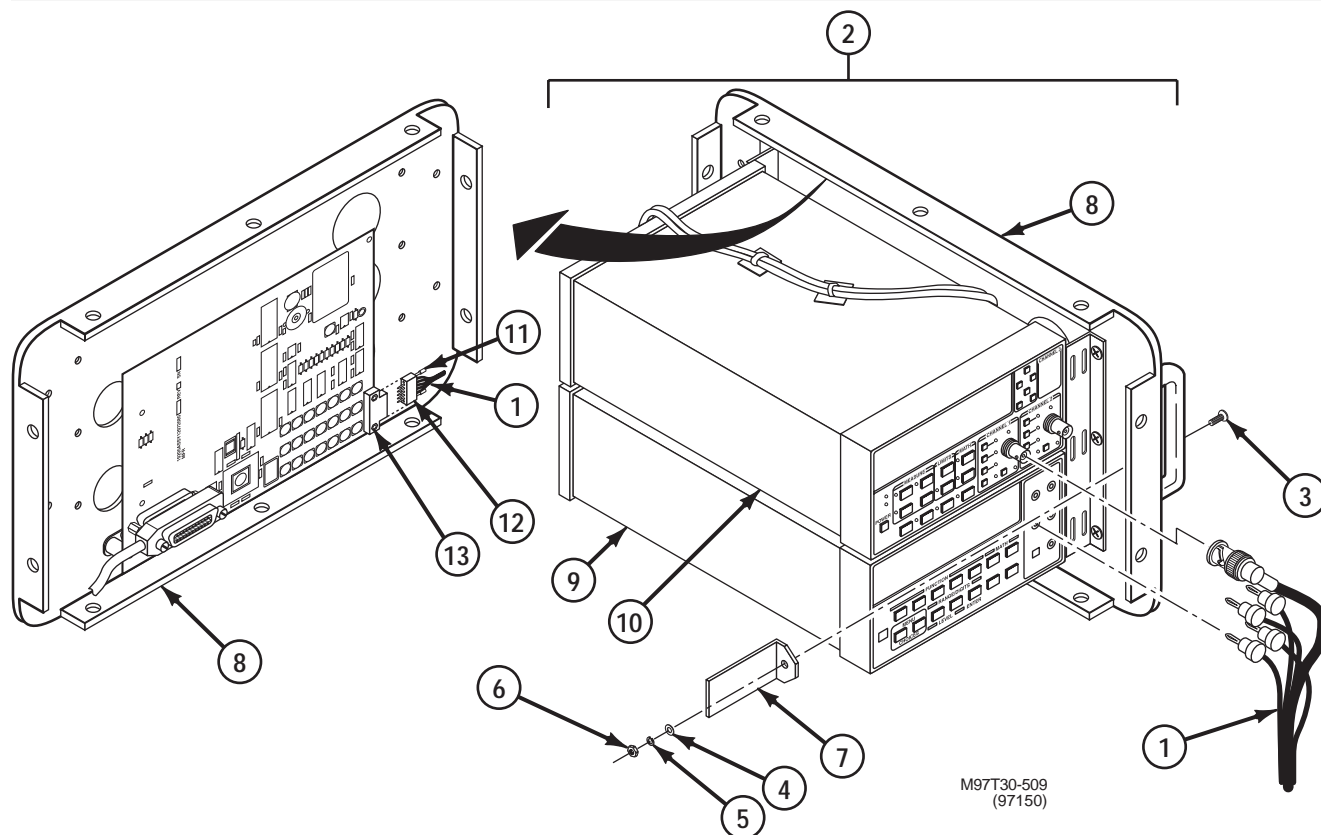
Calibration Specialist Tool Kit
SC 6695-92-A05

Equipment Conditions:

Remove TSA chassis from enclosure;
refer to WP 0160 00.

Materials/Parts:

DMM/Frequency Counter Wiring Harness
Lockwasher (1)

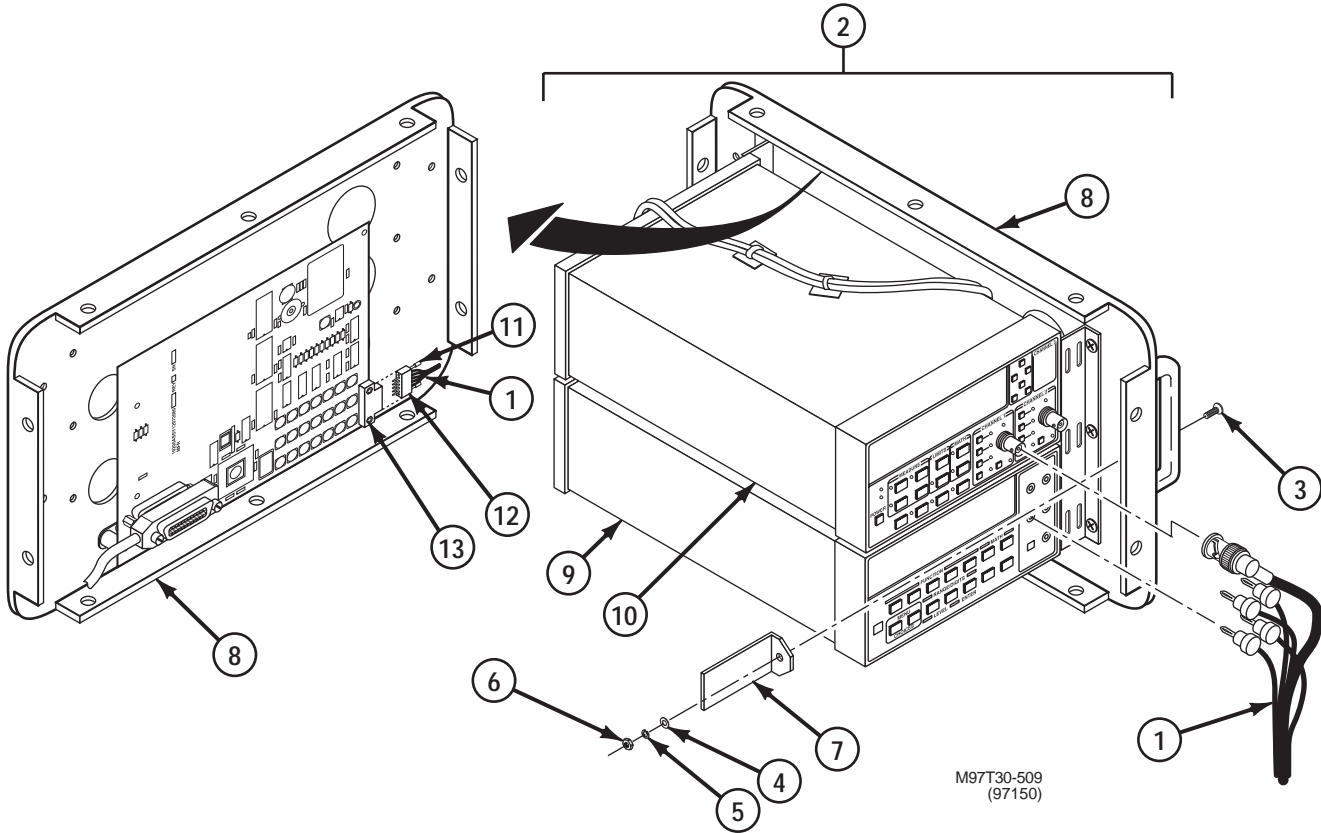
**NOTE**

Read WP 0043 00 before doing any work.

Refer to Table 1 to identify DMM/frequency counter wiring harness connections.

REMOVE

1. DISCONNECT DMM/FREQUENCY COUNTER WIRING HARNESS (1) FROM TSA (2).
 - a. Remove screw (3), flat washer (4), lockwasher (5), and nut (6) securing cable retainer (7) to rear of front panel (8) and remove cable retainer. Discard lockwasher.
 - b. Disconnect wiring harness (1) connectors from front of DMM (9) and frequency counter (10).
 - c. Alternately loosen two hex screws (11) until connector P9 (12) is disconnected from TSA CCA J7 (13).
 - d. Remove wiring harness (1).



INSTALL

2. CONNECT DMM/FREQUENCY COUNTER WIRING HARNESS (1) TO TSA (2).
 - a. Align DMM/frequency counter wiring harness connector P9 (12) with TSA CCA J7 (13) and connect by alternately tightening two hex screws (11).
 - b. Connect wiring harness (1) connectors P10, P11, P12, P13 and P14 to front connectors on DMM and frequency counter as shown in Table 1.
 - c. Install screw (3), flat washer (4), new lockwasher (5), and nut (6) to secure cable retainer (7) to rear of front panel (8).

Table 1. DMM/Frequency Counter Wiring Harness Connections

DMM/Frequency Counter Wiring Harness Connector	Mating Connector
P9	TSA CCA J7
P10	DMM Input HI
P11	DMM Input LO
P12	Frequency Counter Channel 1
P13	DMM Sense HI
P14	DMM Sense LO

END OF TASK

CHAPTER 5
SUPPORTING INFORMATION

REFERENCES

0172 00

SCOPE

This work package lists all field manuals, forms, technical manuals and miscellaneous publications referenced in this manual.

Field Manuals

First Aid for Soldiers.....FM 21-11

Forms

Recommended Changes to Publications and Blank Forms.....DA Form 2028

Recommended Changes to Equipment Technical Publications.....DA Form 2028-2

Product Quality Deficiency Report (Category II).....SF 368

Equipment Inspection and Maintenance Worksheet.....DA Form 2404

Material Condition Status Report (MCSR).....DA Form 2406

Maintenance Management Update.....DA Form 12

Technical Manuals

Painting Instructions for Field Use.....TM 43-0139

Procedures for Destruction of Electronics Material to Prevent Enemy Use (Electronics Command).....TM 750-244-2

Operator's and Unit Maintenance Manual Including Repair Parts and Special Tools List
(Including Depot Maintenance Repair Parts): Test Set Electronic AN/USM 615
(DSESTS-M1/FVS) (4931-01-120-0764) OIU and GPIA Equipment Support Group.....TM 9-4931-586-12-1&P

Painting Instructions for Field Use.....TM 43-0139

Procedures for Destruction of Electronics Material to Prevent
Enemy Use (Electronics Command).....TM 750-244-2

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts): Test Set,
Electronic, AN/USM 615 (DSESTS-M1/FVS) (4931-01-120-0764) OIU and
GPIA Equipment Support Group.....TM 9-4931-586-12-1&P

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts):
Test Set, Electronic, AN/USM 615 (DSESTS-M1/FVS)
(4931-01-120-0764) M1 Equipment Support Group.....TM 9-4931-586-12-2&P

REFERENCES - CONTINUED

0172 00

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts):
Test Set, Electronic, AN/USM 615 (DSESTS-M1/FVS)
(4931-01-120-0764) M2/M3 (FVS) Equipment Support Group.....TM 9-4931-586-12-3&P

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts):
Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)
(4931-01-120-0764) Thermal Imaging System Equipment Support Group.....TM 9-4931-586-12-4&P

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts):
Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)
(4931-02-120-0764) M1A2 Equipment Support Group.....TM 9-4931-586-12-5&P

Operator's and Unit Maintenance Manual Including Repair Parts and
Special Tools List (Including Depot Maintenance Repair Parts):
Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)
(4931-02-120-0764) TOW Equipment Support Group.....TM 9-4931-586-12-6&P

General Support Maintenance Manual for Digital Electronic Counter
AN/USM-459B.....TM 9-6625-907-40

General Maintenance Procedures For Fire Control Material.....TM 9-254

Miscellaneous Publications

The Army Maintenance Management System (TAMMS).....DA PAM 738-750

Printing, Camouflage Painting and Marking of Army Material.....AR750-58

Army Medical Department Expendable/Durable Items.....CTA 8-100

Expendable Items (Except Medical, Class V, Repair Parts and Heraldic Items).....CTA 50-970

Equipment Improvement Report and Maintenance Digest.....TB 43-0001-36-1

Electrostatic Discharge Control Program For Protection of Electrical and Electronic Parts,
Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices).....MIL-STD-1686

Calibration Procedure for Night Vision Test Set, AN/TAM-3 and
AN/TAM-3A (Thermal Sight Collimator SM-D-805691).....TB 9-5855-1892-35

Calibration and Repair Requirements for the Maintenance of Army Material.....TB 43-180

INTRODUCTION

0173 00

SCOPE

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of direct support maintenance of the DSESTS Operator Interface Unit (OIU), TIS Infrared and Thermal Sight Collimators, and the Transfer Standards Adapter. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

GENERAL

In addition to the Introduction work package, this RPSTL is divided into the following work packages.

- 1). Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.
- 2). Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL. Tools that are components of common tool sets and/or Class VII are not listed.
- 3). Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: The National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

<u>Source Code</u>	<u>Maintenance Code</u>	<u>Recoverability Code</u>
<u>xx</u>	<u>xx</u>	<u>x</u>
1st two positions: How to get an item.	3rd position: Who can install, replace, or use the item.	4th position: Who can do complete repair* on the item.
		5th position: Who determines disposition action on unserviceable items.

*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

SOURCE CODE. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

<u>Source Code</u>	<u>Application/Explanation</u>
PA	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code.
PB	
PC	
PD	
PE	
PF	
PG	NOTE
	Items coded PC are subject to deterioration.
KD	Items with these codes are not to be requested/requisitioned individually.
KF	They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.
KB	
MO-Made at unit/ AVUM level	Items with these codes are not to be requisitioned/requested individually.
MF-Made at DS/ AVIM level	They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.
MH-Made at GS level	
MD-Made at depot	
AO-Assembled by unit/ AVUM level	Items with these codes are not to be requested/requisitioned individually.
AF-Assembled by DS/ AVIM level	The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code.
AH-Assembled by GS level	If the 3rd position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.
AD-Assembled by depot	
XA	Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to NOTE below.)
XB	If an item is not available from salvage, order it using the CAGEC and P/N.
XC	Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N.
XD	Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those items source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR codes as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

**Maintenance
Code**

Application/Explanation

- | | | |
|---|---|--|
| C | – | Crew or operator maintenance done within unit/AVUM maintenance. |
| O | – | Unit level/AVUM maintenance can remove, replace, and use the item. |
| F | – | Direct support/AVIM maintenance can remove, replace, and use the item. |
| H | – | General support maintenance can remove, replace, and use the item. |
| D | – | Depot can remove, replace, and use the item. |

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

**Maintenance
Code**

Application/Explanation

- | | | |
|---|---|---|
| O | – | Unit/AVUM is the lowest level that can do complete repair of the item. |
| F | – | Direct support/AVIM is the lowest level that can do complete repair of the item. |
| H | – | General support is the lowest level that can do complete repair of the item. |
| D | – | Depot is the lowest level that can do complete repair of the item. |
| Z | – | Nonreparable. No repair is authorized. |
| B | – | No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

<u>Recoverability Code</u>	<u>Application/Explanation</u>
Z –	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
O –	Reparable item. When uneconomically repairable, condemn and dispose of the item at the unit level.
F –	Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support level.
H –	Reparable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
D –	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
A –	Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

- 1). The federal item name, and when required, a minimum description to identify the item.
- 2). P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.

- 3). Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
- 4). The statement END OF FIGURE appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

QTY (Column 7)). The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

$$\frac{\text{NSN}}{\text{NIIN}}$$
 (e.g., $\frac{5385-01-574-1476}{\text{NIIN}}$)

When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

2. Part Number (P/N) Index Work Package. P/Ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

SPECIAL INFORMATION

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in the maintenance section of this manual.

Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the NSN / P/N index work packages and the bulk material list in the repair parts list work package.

Illustration List. The illustrations in this RPSTL contain direct support and depot authorized items.

HOW TO LOCATE REPAIR PARTS**1. When NSNs or P/Ns are Not Known.**

First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and lists are divided into the same groups.

Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN Is Known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

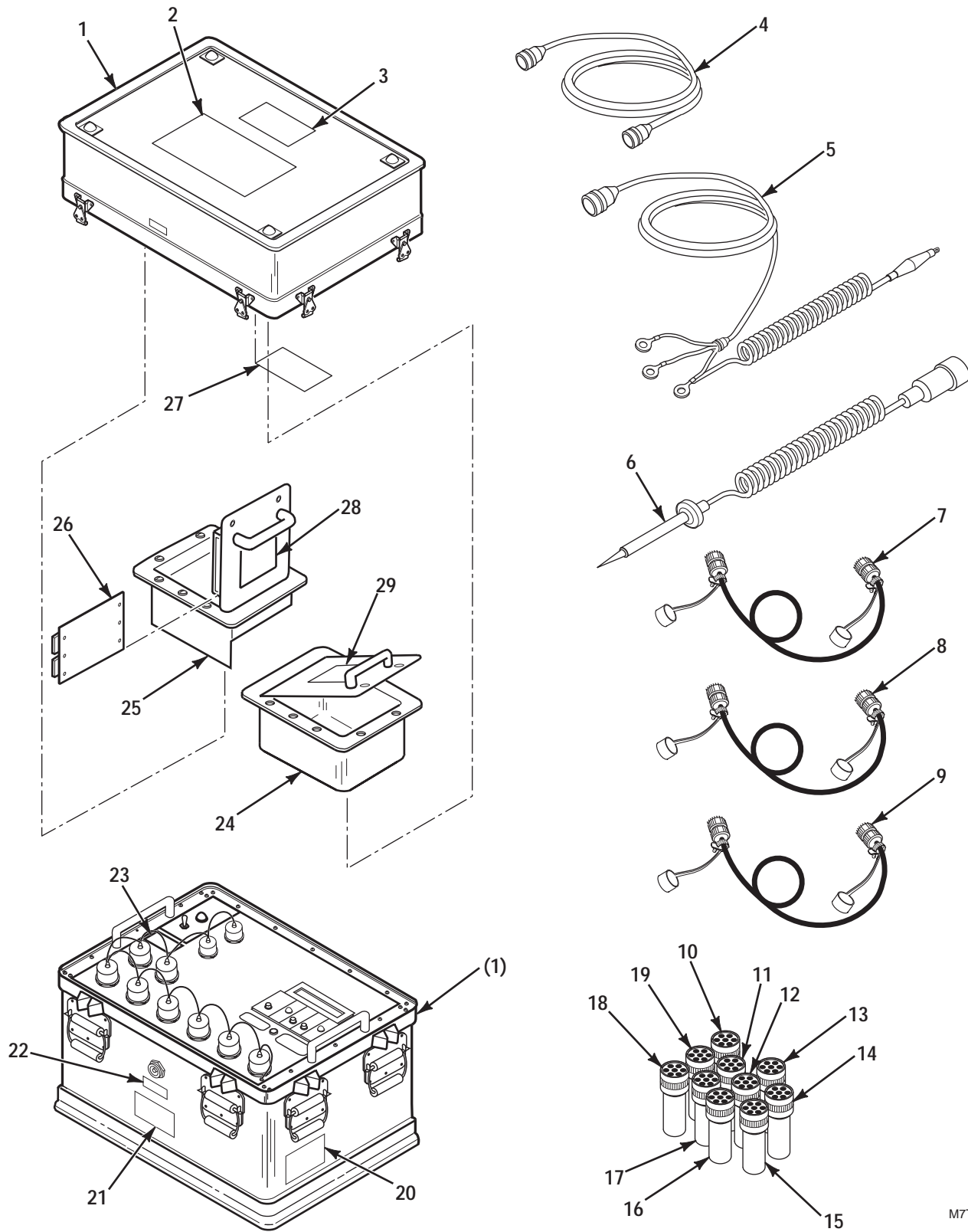
3. When P/N Is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

ABBREVIATIONS

Refer to work package 0001 00 for abbreviations used in this manual.



M7T30R-029
(8/15/97)

Figure 1. Group 01A Operator Interface Unit (OIU) 12354501

GROUP 01A OPERATOR INTERFACE UNIT (OIU) 12354501- CONTINUED

0174 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A OPERATOR INTERFACE UNIT (OIU)						
FIG. 1 OPERATOR INTERFACE UNIT (OIU) 12354501						
1	XAOFD		19207	12309817	CONTROL ASSEMBLY, OPERATOR'S SEE FIG. 2 FOR BREAKDOWN	1
2	PAOZZ	7690-01-207-5731	19207	12354496	DECAL	1
3	XDOZZ		19207	12323290-5	DECAL	1
* 4	PGODD	6150-01-118-8651	19207	12309914	CABLE AND CONDUIT ASSY MEMORY (MEM-W60) SEE FIG. 10 FOR BREAKDOWN	1
* 5	PGODD	6150-01-118-8843	19207	12309919	CABLE ASSY PWR (M1/FVS PWR-W1) SEE FIG. 11 FOR BREAKDOWN	1
* 6	PGOFF	6625-01-118-8661	19207	12309939	PROBE SUBASSEMBLY, (TPC-W50) SEE FIG. 9 FOR BREAKDOWN	1
* 7	PGODD	6150-01-142-5585	19207	12309042	CABLE AND CONDUIT ASSY FST-W86 SEE FIG. 12 FOR BREAKDOWN	1
8	PAODD	6150-01-142-5586	19207	12309043	CABLE AND CONDUIT ASSY FST-W87 SEE FIG. 13 FOR BREAKDOWN	1
* 9	PGODD	6150-01-142-5587	19207	12309044	CABLE AND CONDUIT ASSY FST-W88 SEE FIG. 14 FOR BREAKDOWN	1
* 10	PGOZZ	5935-01-154-0924	19207	12309038-1	DUMMY CONNECTOR,PLU FST-TJ7-1	1
11	PAOZZ	5935-01-207-5633	19207	12309038-3	ADAPTER,CONNECTOR FST-TJ7-2	1
* 12	PGOZA	5935-01-153-7513	19207	12309040-2	CONNECTOR,PLUG,ELEC FST-TJ9-2	1
* 13	PGOZA	5935-01-153-7510	19207	12309041	CONNECTOR,PLUG,ELEC FST-TJ10	1
* 14	PGOZA	5935-01-153-7512	19207	12309040-1	CONNECTOR,PLUG,ELEC FST-TJ9-1	1
* 15	PGOZZ	6625-01-421-9775	19200	12309037-2	ADAPTER,TEST FST-TJ6	1
* 16	PGOZZ	5935-01-207-5632	19207	12309036-3	ADAPTER,CONNECTOR FST-TJ5-2	1
* 17	PGOZA	5935-01-153-7511	19207	12309039	CONNECTOR,PLUG,ELEC FST-TJ8	1
* 18	PGOZZ	6625-01-310-0379	19200	12309036-4	ADAPTER,TEST FST-TJ5-1	1
* 19	PGOZZ	5935-01-153-8301	19207	12309035	DUMMY CONNECTOR,PLU FST-TJ4	1
20	XDOZZ		19200	12596621-5	DECAL	2
21	XDOZZ		19200	12596622	DECAL	1
22	PAOZZ	9905-01-073-9737	19200	12285280	PLATE,IDENTIFICATIO	1
23	XDOZZ		19207	12596796	DECAL	1
* 24	PGOOO	4931-01-207-5635	19207	12354535-1	FST ADAPTERS STORAGE MODULE ASSE SEE FIG. 15 FOR BREAKDOWN	1
* 25	PGOOO	4931-01-207-5668	19207	12354535-2	STORAGE MODULE ASSE SEE FIG. 16 FOR BREAKDOWN	1
26	PAOZZ	5998-01-146-7700	19207	12309060	PRINTED WIRING BOAR (EXTENDER BOARD)	1
27	XDOZZ		19207	12354532	DECAL	1
28	XDOZZ		19207	12359978	DECAL	1
29	XDOZZ		19200	12596795	DECAL	1
END OF FIGURE						

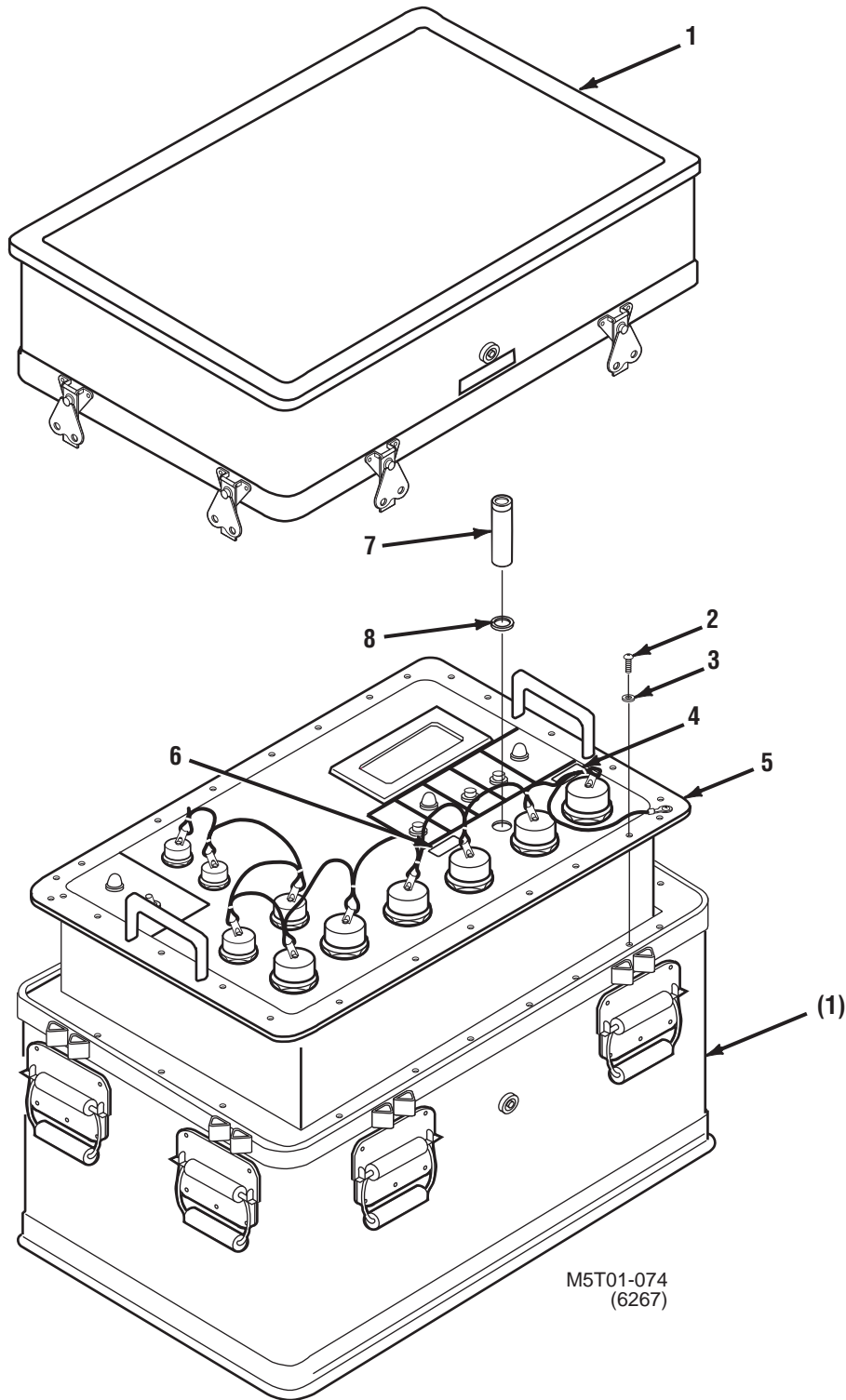


Figure 2. Group 01A01 Operator Control Assembly 12309817

GROUP 01A01 OPERATOR CONTROL ASSEMBLY 12309817- CONTINUED

0175 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A01 OPERATOR CONTROL ASSEMBLY						
FIG. 2 OPERATOR CONTROL ASSEMBLY 12309817						
1	PBFDD	6625-01-146-6241	19207	12309074	CASE ASSEMBLY OIU SEE FIG. 8 FOR BREAKDOWN	1
2	PAFZZ	5305-00-855-2991	80205	MS3212-36	SCREW,MACHINE	24
3	PAFZZ	5970-01-119-5707	19207	12301865	INSULATOR,WASHER	24
* 4	PAOZZ	9905-01-073-9737	19207	12285280	PLATE,IDENTIFICATION	1
5	XAFFD		19207	12309754	ELECTRONICS ASSEMBLY SEE FIG. 3 FOR BREAKDOWN	1
6	PBOZZ	9905-01-146-6461	19207	12309106	PLATE,IDENTIFICATION	1
7	PAOOO	6640-01-136-7362	19207	12309118	DESICCATOR,LABORATO	1
* 8	PAOZZ	5330-00-250-0225	81343	MS29513-118	O-RING	1
END OF FIGURE						

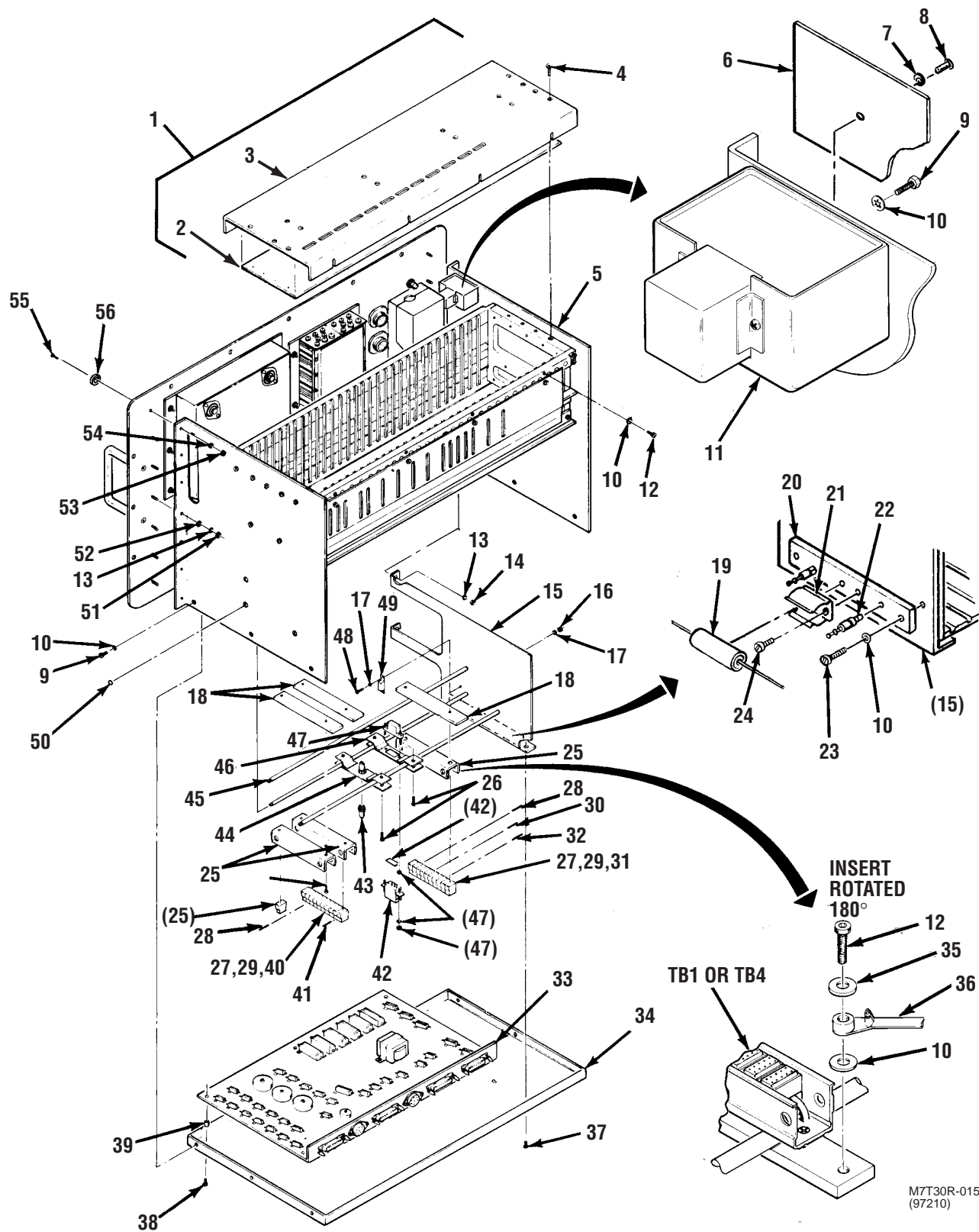
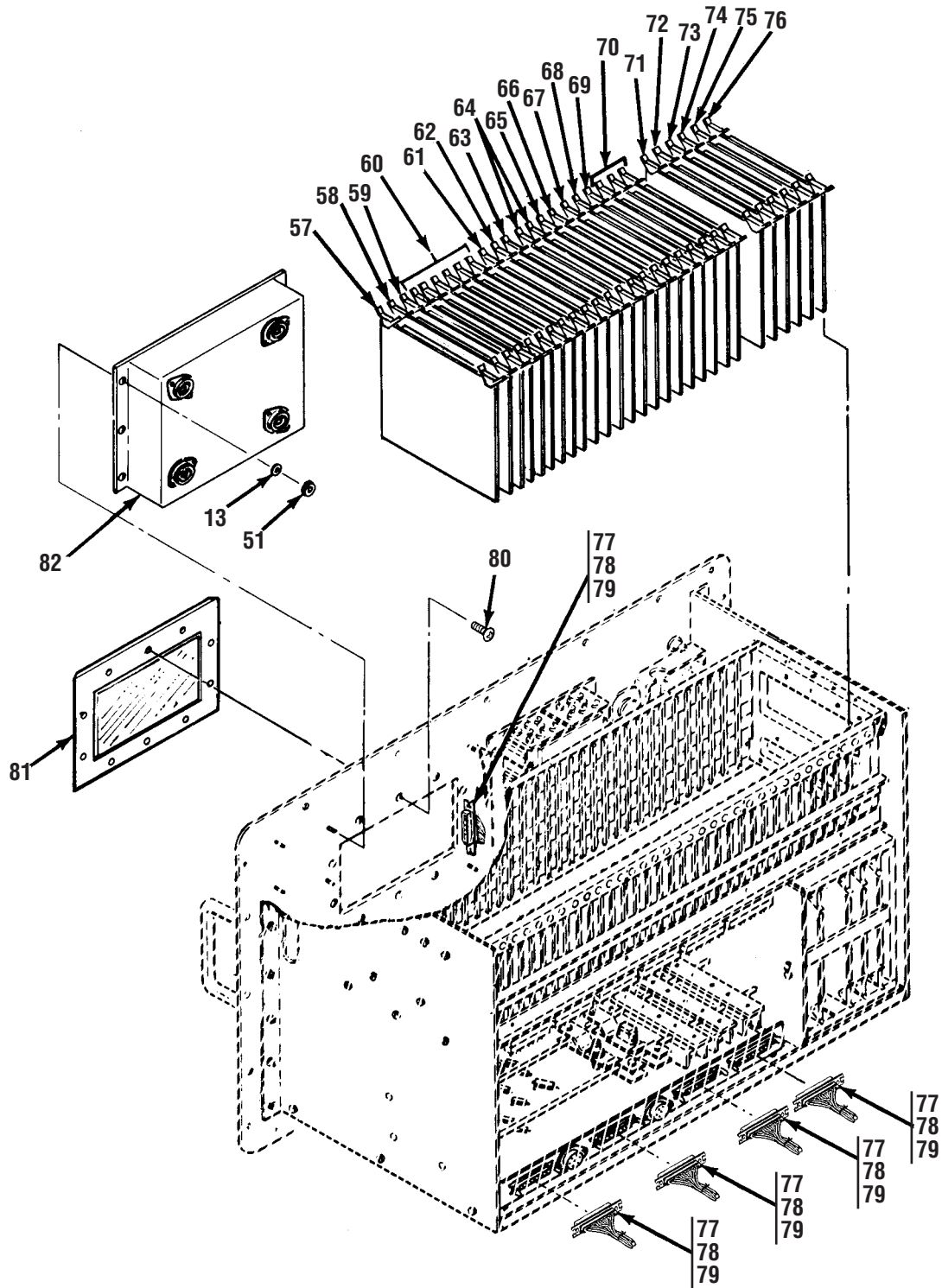


Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 1 of 6)



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Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 2 of 6)

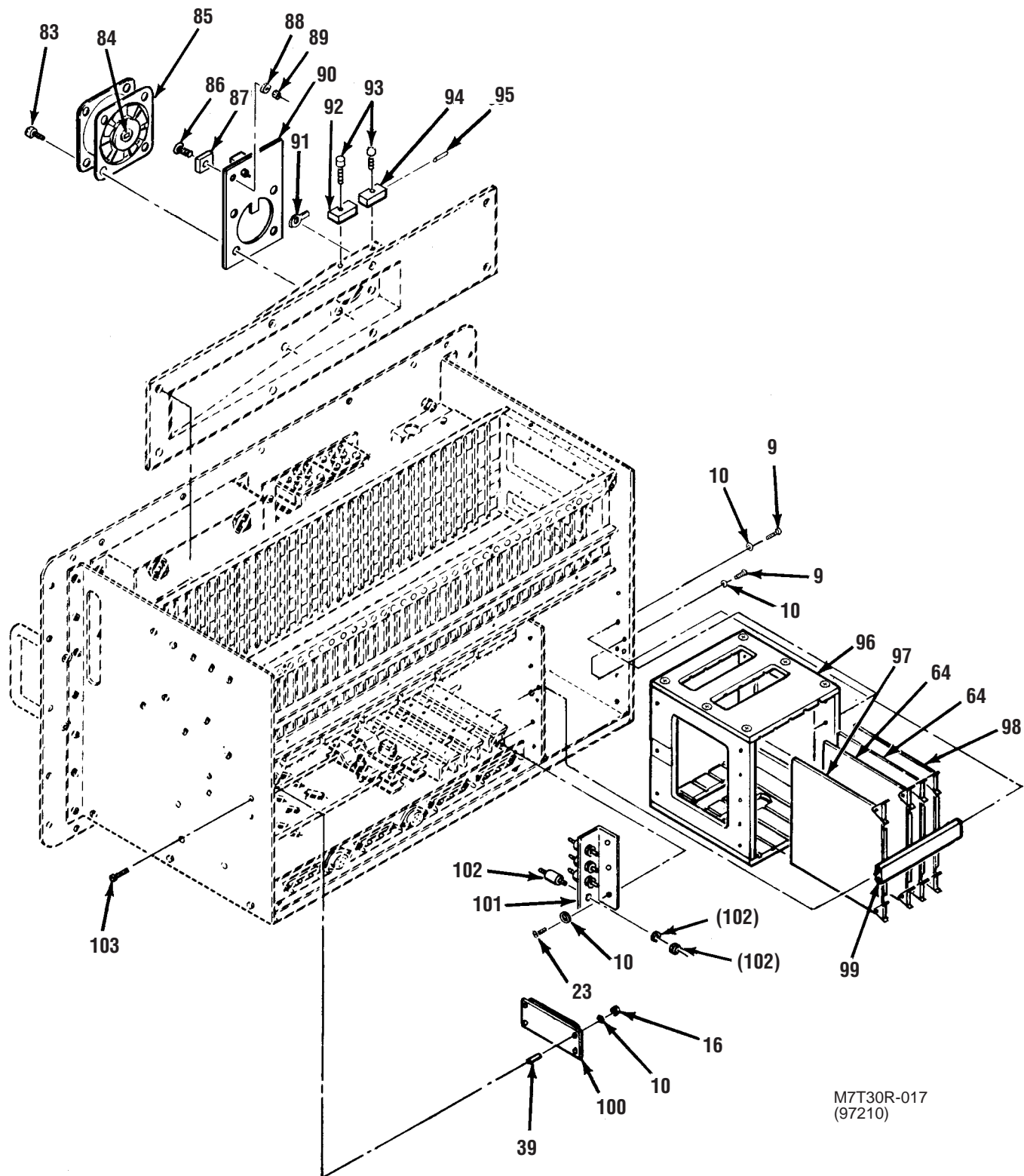


Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 3 of 6)

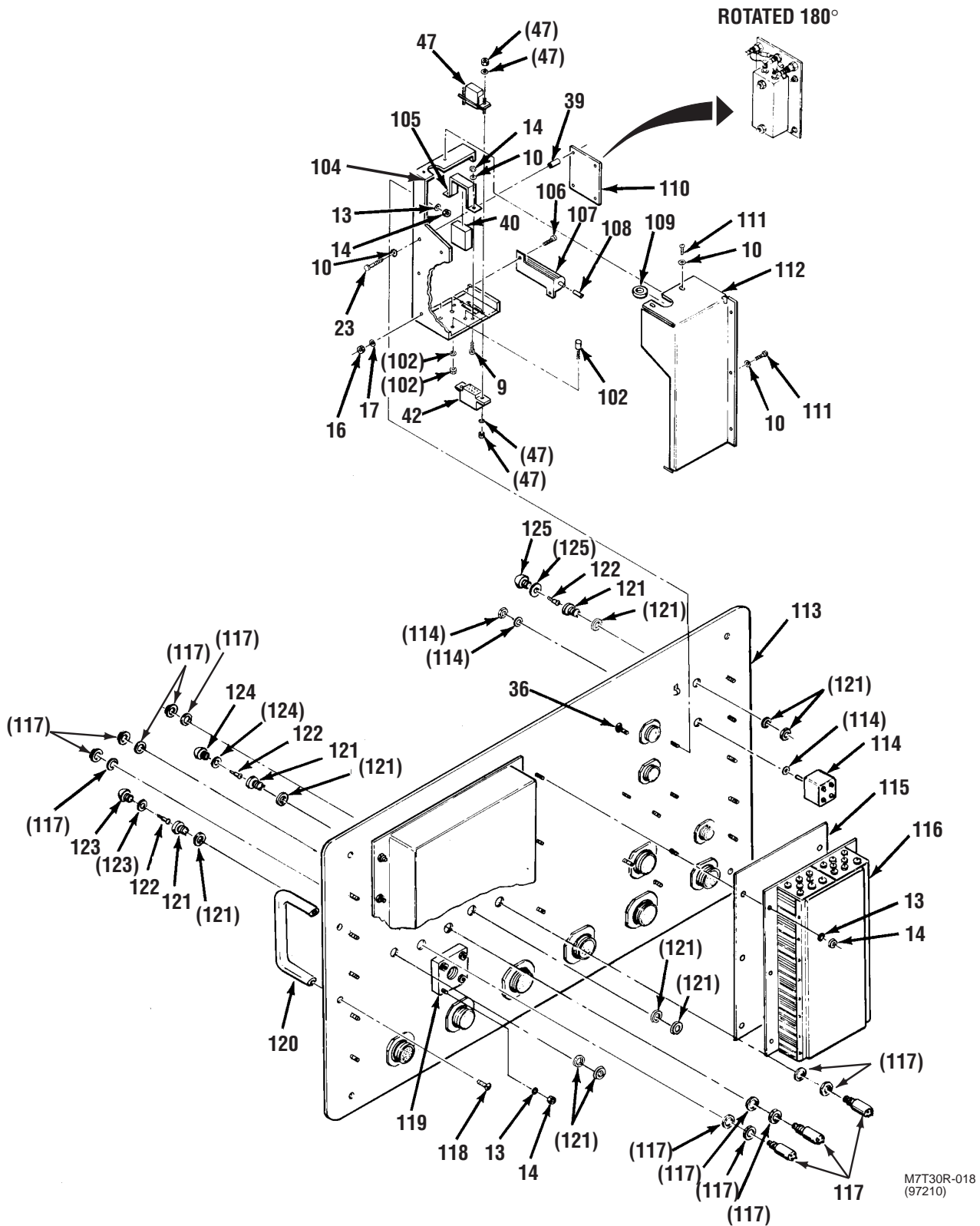
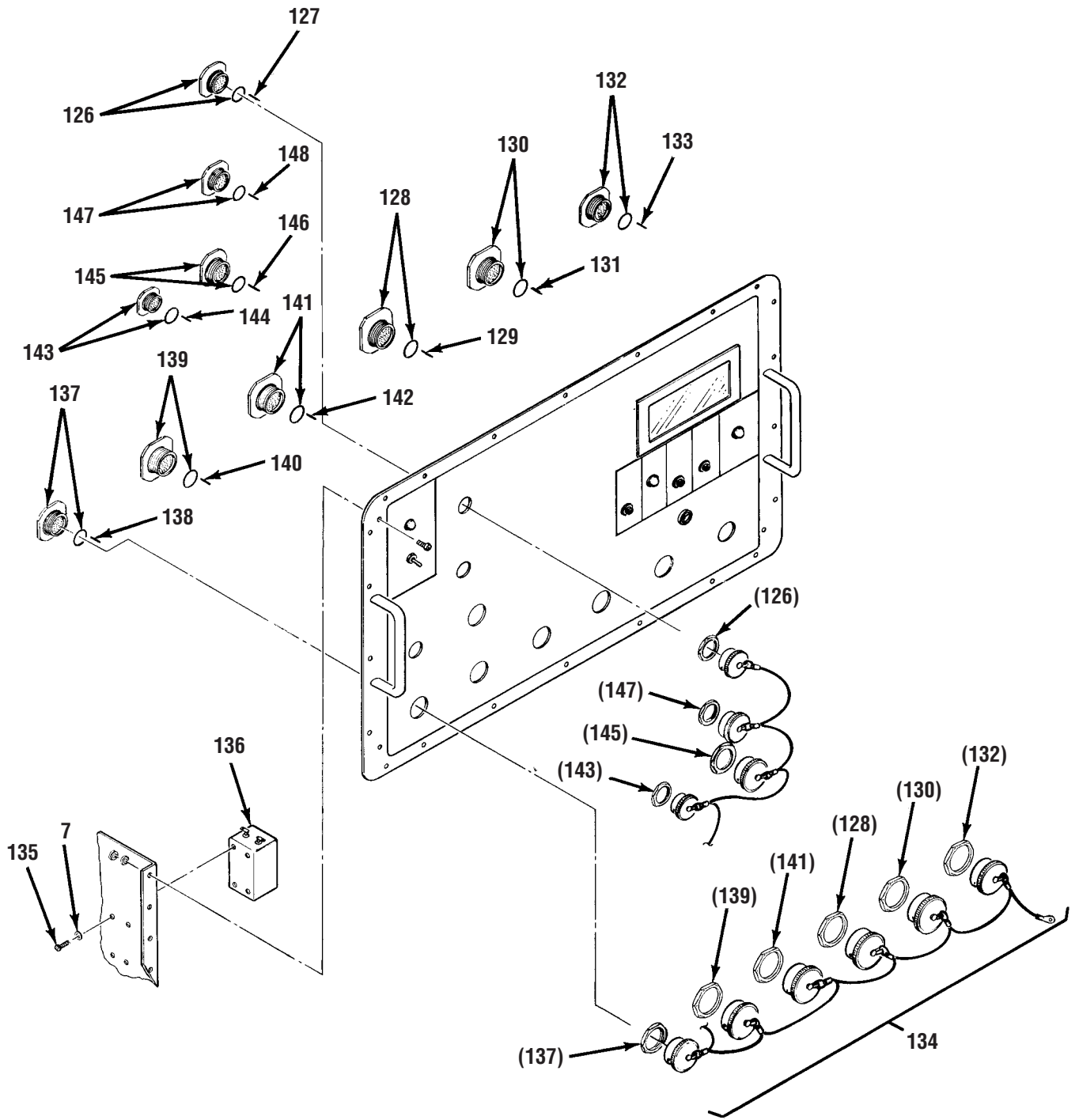


Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 4 of 6)



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(97219)

Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 5 of 6)

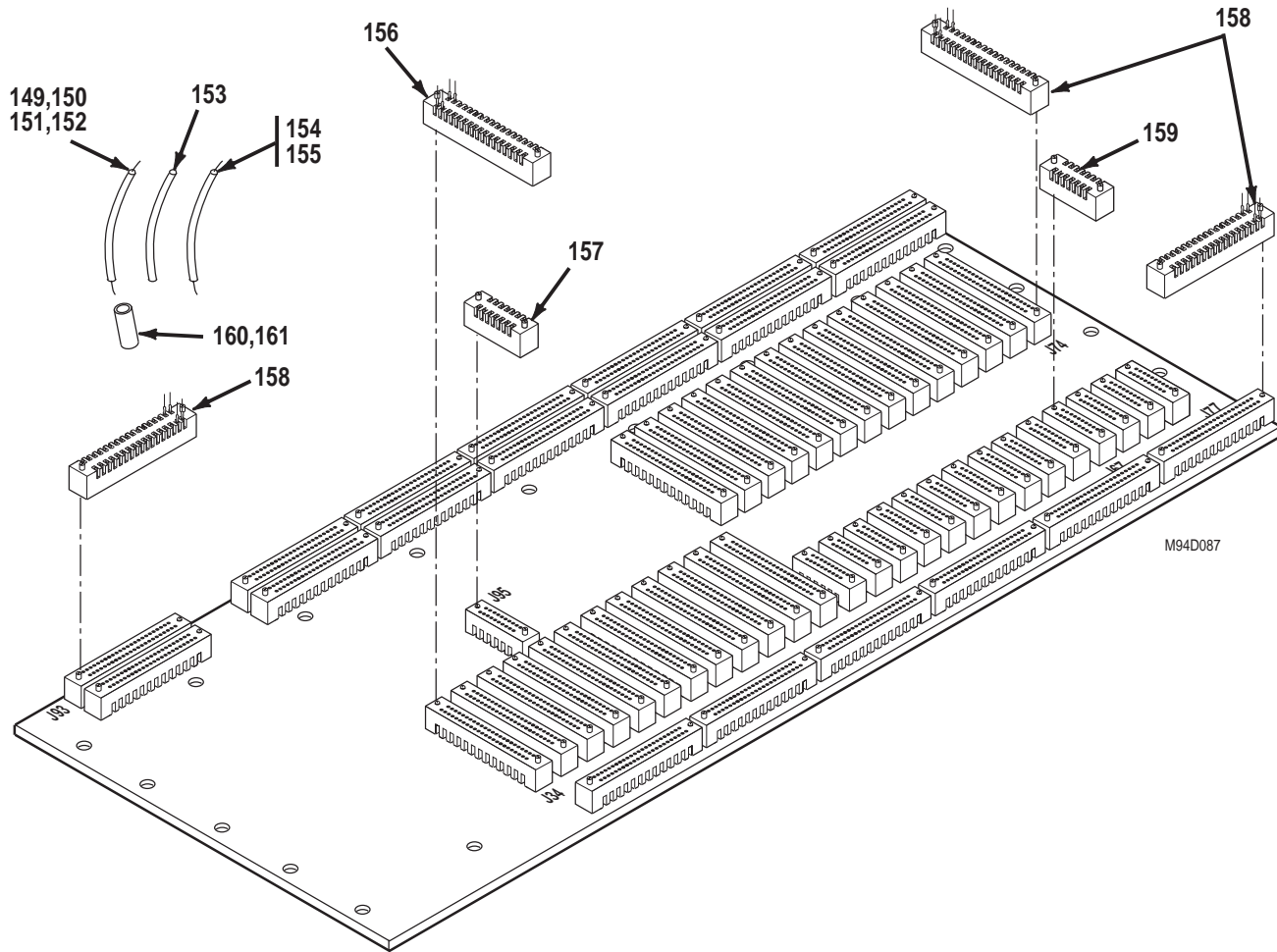


Figure 3. Group 01A0101 OIU Electronics Assembly 12309754 (Sheet 6 of 6)

GROUP 01A0101 OIU ELECTRONICS ASSEMBLY 12309754 – CONTINUED

0176 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A0101 OIU ELECTRONICS ASSEMBLY						
FIG. 3 OIU ELECTRONICS ASSEMBLY 12309754						
1	XDFFF		19207	12312033	COVER ASSEMBLY	1
2	PCFZZ	5340-01-281-8317	19207	12337224	PAD,CUSHIONING	1
3	XAFZZ		19207	12312034	COVER	1
* 4	PAFZZ	5305-00-719-5064	80205	MS51959-30	SCREW,MACHINE	12
5	XAFFF		19207	12309897	CARD CAGE ASSEMBLY SEE FIG. 5 FOR BREAKDOWN	1
6	PCFZZ	5340-01-280-0353	19200	12596191	PAD,CUSHIONING	1
7	PAFZZ	3120-01-398-5008	19200	12951635	BEARING,WASHER,THRU (USE WITH P/N MS35206-228 ONLY) ..	2
8	PAFZZ	5305-00-984-4988	80205	MS35206-228	SCREW,MACHINE	2
9	PAFZZ	5305-00-227-1543	96906	MS51849-33	SCREW,MACHINE	30
* 10	PAFZZ	5310-00-579-0079	80205	MS35333-37	WASHER,LOCK	52
11	PAFZZ	4931-01-242-2435	19207	12359976	POWER MONITOR AND C	1
12	PAFZZ	5305-00-230-8586	96906	MS51849-34	SCREW,MACHINE	10
* 13	PAFZZ	5310-00-559-0070	80205	MS35333-38	WASHER,LOCK	34
* 14	PAFZZ	5310-00-934-9747	80205	MS35649-262	NUT,PLAIN,HEXAGON	6
15	XDFZZ		19207	12301883	PLATE	1
* 16	PAFZZ	5310-00-934-9739	80205	MS35649-242	NUT,PLAIN,HEXAGON	4
* 17	PAFZZ	5310-00-193-7577	80205	MS35333-36	WASHER,LOCK	8
18	PAFZZ	5340-01-144-3005	19207	12280246	STRAP,RETAINING	3
19	PAFZZ	5910-01-232-6460	81349	M39003/01-8234	CAPACITOR,FIXED,ELE, C9	1
20	XDFZZ		19207	12359985	PLATE,MOUNTING	1
21	XDFZZ		80205	NAS1464-034-06T	CLIP,SPRING TENSION	1
22	PAFZZ	5940-00-727-5243	58536	AA59126/09-9-02	TERMINAL,STUD	2
23	PAFZZ	5305-00-518-5734	96906	MS51849-35	SCREW,MACHINE	6
* 24	XDFZZ	5305-00-727-8833	80205	MS51959-3	SCREW,MACHINE	2
25	PBFZZ	5975-00-009-0173	81349	M81714/5-1	RACK,ELECTRONIC JUN	3
26	PAFZZ	5305-00-211-8193	96906	MS51849-54	SCREW,MACHINE	4
27	PAFZA	5940-01-243-6939	81349	M81714/2-D-B1	TERMINAL JUNCTION B TB1-9,TB1-10,TB2-1,TB2-7,TB2-10,TB4-1	6
28	PAFZA	5999-00-137-5066	81349	M39029/1-101	CONTACT,ELECTRICAL	60
* 29	PAFZA	5940-01-243-6938	81343	M81714/2-DA1	TERMINAL JUNCTION B, TB1-2,TB1-4 THRU TB1-8,TB2-2, TB2-3,TB2-5, TB2-6,TB2-8,TB2-9	12
30	PAFZA	5999-00-137-5066	81349	M39029/1-101	CONTACT,ELECTRICAL	120
31	PAFZA	5940-01-243-6949	81349	M81714/3-DA1	TERMINAL JUNCTION B, TB1-1,TB1-3	2
* 32	PAFZZ	5999-01-032-1188	81343	M39029/1-102	CONTACT,ELECTRICAL	16
33	PGFDD	5998-01-142-2647	19207	12309898	LOAD PLATE ASSEMBLY SEE FIG. 7 FOR BREAKDOWN	1
34	XDFZZ		19207	12280211	COVER,ACCESS	1
35	PADZZ	5310-00-167-0699	88044	AN960B6	WASHER,FLAT	2
36	PAFZZ	5340-01-095-2138	19207	12280055	STRAP,LINE SUPPORTI	14
* 37	PAFZZ	5305-00-051-6521	80205	MS24693-S25	SCREW,MACHINE	3
* 38	PAFZZ	5305-00-808-7832	80205	MS24693-S29	SCREW,MACHINE	7
39	PAFZZ	5365-01-119-5750	19207	12301903	SPACER,SLEEVE	15
40	PAFZA	5940-01-243-6950	81349	M81714/3-DB1	TERMINAL JUNCTION B, TB2-4,TB3-1	2
* 41	PAFZZ	5999-01-032-1188	81343	M39029/1-102	CONTACT,ELECTRICAL	16
42	PAFZZ	5945-01-235-6547	81349	M6106/19-022	RELAY,ELECTROMAGNET, K1,K3	2
43	PAFZZ	6625-01-118-8695	19207	12301963	LEAD,TEST, P101	1
44	PAFZZ	6625-01-118-8694	19207	12301962	LEAD,TEST, J101	1
45	XDFZZ		19207	12280222	BAR	3
46	XDFZZ		19207	12280196-1	BRACKET	1
47	PAFZZ	5935-01-080-5001	19207	12301890	SOCKET,PLUG-IN ELEC	2
48	PAFZZ	5305-00-242-1264	96906	MS51849-13	SCREW,MACHINE	2
49	PAFZZ	5945-01-189-1874	81349	M39016/6-107P	RELAY,ELECTROMAGNET, K2	1
50	PAFZZ	5365-00-720-8064	96906	MS16624-1025	RING,RETAINING	6
* 51	PAFZZ	5310-00-934-9757	80205	MS35649-282	NUT,PLAIN,HEXAGON	34

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 01A0101 OIU ELECTRONICS ASSEMBLY							
FIG. 3 OIU ELECTRONICS ASSEMBLY 12309754							
52	PAFZZ	5310-01-253-1618	96906	MS51412-18	WASHER,FLAT	10	
53	PAFZZ	5310-00-877-5797	80205	MS21044 N3	NUT,SELF-LOCKING,HE	4	
54	PAFZZ	5310-00-167-0818	80205	NAS1149F0363P	WASHER,FLAT	4	
55	PAFZZ	5305-00-855-2991	80205	MS3212-36	SCREW,MACHINE	4	
56	PADZZ	5970-01-119-5707	19207	12301865	INSULATOR,WASHER	4	
57	PAFDD	5998-01-546-6671	19207	13010072	CIRCUIT CARD ASSEMB, A33 FGC 01A010122 (INTER- CHANGEABLE WITH P/N 12309841-1)	1	
57	PAFDD	5998-01-231-3236	19207	12309841-1	CIRCUIT CARD ASSEMB, A33 FGC 01A010122 (INTER- CHANGEABLE WITH P/N 13010072)	1	
58	PGFDD	5998-01-119-5746	19207	12280295	CIRCUIT CARD ASSEMB, A32 FGC 01A010121	1	
59	PAFDD	5998-01-119-5745	19207	12280291	CIRCUIT CARD ASSEMB, A31 FGC 01A010120 (INTER- CHANGEABLE WITH P/N 13011950)	1	
59	PAFDD	5998-01-546-3022	19200	13011950	CIRCUIT CARD ASSEMB, A31 FGC 01A010120 (INTER- CHANGEABLE WITH P/N 12280291)	1	
60	PGFDD	5998-01-094-9630	19207	12280124	CIRCUIT CARD ASSEMB, A25-A30 FGC 01A010119	6	
61	PGFDD	5998-01-207-5904	19207	12354484	CIRCUIT CARD ASSEMB, A24 FGC 01A010118	1	
62	PAFDD	5999-01-119-5743	19207	12280283	CIRCUIT CARD ASSEMB, A23 FGC 01A010117 (INTER- CHANGEABLE WITH P/N 13011504)	1	
62	PAFDD	5998-01-546-6672	19200	13011504	CIRCUIT CARD ASSEMB, A23 FGC 01A010117 (INTER- CHANGEABLE WITH P/N 12280283)	1	
63	PGFDD	5999-01-184-6415	19207	12322200	CIRCUIT CARD ASSEMB, A22 FGC 01A010116 USED ON FVS EFFECTIVE S/N 16	1	
64	PGFDD	5999-01-184-6414	19207	12322192	CIRCUIT CARD ASSEMB,A20,A21,A35,A36 FGC 01A010115 USED ON FVS EFFECTIVE S/N 16	4	
65	PGFDD	5998-01-094-9642	19207	12280176	CIRCUIT CARD ASSEMB, A19 FGC 01A010114	1	
66	PGFDD	5998-01-094-9631	19207	12280128	CIRCUIT CARD ASSEMB, A18 FGC 01A010113	1	
67	PGFDD	5998-01-193-6788	19207	12337176	CIRCUIT CARD ASSEMB, A17 FGC 01A010112	1	
68	PGFDD	5998-01-094-9626	19207	12280059	CIRCUIT CARD ASSEMB, A16 FGC 01A010111	1	
69	PGFDD	5998-01-094-9640	19207	12280164	CIRCUIT CARD ASSEMB, A15 FGC 01A010110	1	
70	PGFDD	5998-01-094-9643	19207	12280184	CIRCUIT CARD ASSEMB, A12-A14 FGC 01A010109	3	
71	PGFDD	5998-01-094-9632	19207	12280132	CIRCUIT CARD ASSEMB, A10 FGC 01A010108	1	
72	PAFDD	5998-01-094-9639	19207	12280160	CIRCUIT CARD ASSEMB, A9 FGC 01A010107 (INTER- CHANGEABLE WITH P/N 13011503)	1	
72	PAFDD	5998-01-546-6673	19200	13011503	CIRCUIT CARD ASSEMB, A9 FGC 01A010107 (INTER- CHANGEABLE WITH P/N 12280160)	1	
73	PAFDD	5998-01-184-6413	19207	12312041	CIRCUIT CARD ASSEMB, A8 FGC 01A010106 USED ON FVS EFFECTIVE S/N 16 (INTERCHANGEABLE WITH P/N 13008914)	1	
73	PAFDD	5998-01-546-5216	19207	13008914	CIRCUIT CARD ASSEMB, A8 FGC 01A010106 (INTER- CHANGEABLE WITH P/N 12312041)	1	
74	PGFDD	5998-01-094-9637	19207	12280152	CIRCUIT CARD ASSEMB, A7 FGC 01A010105	1	
75	PGFDD	5999-01-230-8821	19207	12323312	CIRCUIT CARD ASSEMB, A6 FGC 01A010104	1	
76	PGFDD	5999-01-341-0416	19200	12596820	CIRCUIT CARD ASSEMB, A5 FGC 01A010103	1	
77	PAFZA	5935-01-284-2870	81349	M24308/2-3F	CONNECTOR,RECEPTACL,P96-P100	5	
*	78	PAFZZ	5999-00-239-3338	81343	M39029/63-368	CONTACT,ELECTRICAL	25
	79	PBFZZ	5340-01-118-8672	19207	12301886-2	PLATE,MOUNTING	10
	80	PAFZZ	5305-00-059-4550	80205	MS35190-235	SCREW,MACHINE	10
	81	PAFZZ	6625-01-118-8686	19207	12301954	FILTER,LIGHT,CATHOD	1
	82	PGFDD	6625-01-119-5747	19207	12280207	DISPLAY ASSEMBLY SEE FIG. 4 FOR BREAKDOWN	1
	83	PAFZZ	5305-01-135-9495	96906	MS16997-10L	SCREW,CAP,SOCKET,HEX	4
	84	PBFZZ	7530-01-242-2476	19207	12360081	LABEL	1
	85	PAFZZ	4140-01-246-6845	19207	12360015	FAN,TUBEAXIAL	1
*	86	PAFZZ	5305-00-763-3357	80205	MS51959-6	SCREW,MACHINE	1
	87	PAFZZ	5935-01-207-5634	19207	12301899-4	CONNECTOR RECEPTACL P124	1
*	88	PAFZZ	5310-00-543-4652	80205	MS35333-69	WASHER,LOCK	1
	89	PAFZZ	5310-00-938-2013	80205	MS35649-224	NUT,PLAIN,HEXAGON	1
	90	PGFZZ	5998-01-331-2983	19207	12323284-1	CIRCUIT CARD ASSEMB	1
*	91	PAFZZ	5940-00-143-4771	81343	MS25036-103	TERMINAL,LUG	1

GROUP 01A0101 OIU ELECTRONICS ASSEMBLY 12309754 – CONTINUED

0176 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 01A0101 OIU ELECTRONICS ASSEMBLY							
FIG. 3 OIU ELECTRONICS ASSEMBLY 12309754							
92	PAFZZ	5940-01-130-5697	19207	12301899-1	TERMINAL JUNCTION B, J102	1	
93	PAFZZ	5305-00-725-4191	96906	MS51959-7	SCREW,MACHINE	2	
94	PAFZA	5935-00-489-1959	19207	12301899-2	CONNECTOR,RECEPTACL, P102	1	
95	MFFZZ	5970-00-990-9912	81343	M23053/5-204-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-990-9912	V	
96	XAFFF		19207	12309779-1	MINI CARD CAGE ASSY SEE FIG. 6 FOR BREAKDOWN	1	
97	PAFDD	5998-01-383-8420	19207	12309845-1	CIRCUIT CARD ASSEMB, A38 FGC 01A010124 (INTER- CHANGEABLE WITH P/N 13011525)	1	
97	PAFDD	5998-01-546-3023	19200	13011525	CIRCUIT CARD ASSY, A38 FGC 01A010124 (INTER- CHANGEABLE WITH P/N 12309845-1)	1	
98	PAFDD	5998-01-532-7956	19200	13006058	CIRCUIT CARD ASSY, A34 FGC 01A010123 (INTER- CHANGEABLE WITH P/N 12309837)	1	
98	PGFDD	5998-01-127-5014	19207	12309837	CIRCUIT CARD ASSY, A34 FGC 01A010123 (INTER- CHANGEABLE WITH P/N 13006058)	1	
*	99	PBFZZ	4931-01-120-9766	19200	12309782	LOCKING BAR	1
	100	PGFDD	5998-01-118-8703	19207	12309869	P C ASSY, FGC 01A010125	1
	101	XDFZZ		19207	12309888	BRACKET,OIU	1
	102	PAFZZ	5915-01-382-6285	81349	M15733/49-0008	CAPACITOR, FIXED, CER C1-C8 (INTERCHANGEABLE WITH P/N M83439/02-001)	8
	102	PAFZZ	5910-01-086-5608	81349	M83439/02-001	CAPACITOR, FIXED, CER C1-C8 (INTERCHANGEABLE WITH P/N M15733/49-0008)	8
	103	PAFZZ	5305-01-087-3182	96906	MS51849-36	SCREW,MACHINE	4
	104	XBFZZ		19207	12309893	BRACKET	1
	105	XDFZZ		19207	12301876	BRACKET	1
	106	PAFZZ	5305-00-889-2997	80205	MS35206-215	SCREW,MACHINE	2
	107	PAFZZ	5905-01-135-4769	19207	12280050	RESISTOR	1
*	108	MFFZZ	5970-00-767-0524	81343	M23053/5-206-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-767-0524	V
	109	XDFZZ	5325-01-127-5021	19207	12280173-2	GROMMET, NONMETALLIC	1
	110	PAFZZ	5895-01-146-6276	19207	12309885	TRANSORB	1
	111	PAFZZ	5305-01-030-8753	96906	MS51849-32	SCREW,MACHINE	4
	112	XBFZZ		19207	12280063	COVER	1
	113	XDFZZ		19207	12280210	PANEL	1
	114	PAFZZ	5925-01-120-2897	19207	12280198	CIRCUIT BREAKER	1
	115	PAFZZ	5999-01-120-4165	19207	12301888	MOUNTING PAD,ELECTR	1
	116				DELETED		
	116	PAFZZ	6130-01-351-6823	19200	12596801	POWER SUPPLY	1
	117	PAFZA	5930-01-049-5779	81349	M8805/99-009	SWITCH, PUSH	3
	118	PAFZZ	5305-00-701-5071	96906	MS51959-61	SCREW,MACHINE	4
	119	XDFZZ		19207	12279993	DESICCATOR BLOCK	1
	120	PAFZZ	5340-01-094-9589	51506	9314-4.562-10-24-A-5	HANDLE, BOW	2
	121	PAFZZ	6210-00-176-4928	81349	LH89/1	HOUSING, LIGHT	3
	122	PAOZZ	6240-01-093-7323	96906	MS25237-8918	LAMP, INCANDESCENT	3
	123	PAOZZ	6210-00-176-4954	81349	LC35RT2	LENS, LIGHT	1
	124	PAOZZ	6210-00-176-4956	81349	LC35WT2	LENS, LIGHT	1
	125	PAOZZ	6210-00-176-4955	81349	LC35GT2	LENS, LIGHT	1
	126	PAFZZ	5935-01-112-5439	96906	MS3474L16-26SW	CONNECTOR, RECEPTACL, UJ3	1
	127	PAFZZ	5999-00-172-8253	81343	M39029/5-115	CONTACT, ELECTRICAL	26
	128	PAFZZ	5935-01-015-8264	96906	MS27468E25F35SA	CONNECTOR, RECEPTACL, TJ7	1
*	129	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT, ELECTRICAL	128
	130	PAFZZ	5935-01-015-8265	96906	MS27468E25F35SC	CONNECTOR, RECEPTACL, TJ8	1
*	131	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT, ELECTRICAL	128
	132	PAFZZ	5935-01-010-2938	96906	MS27468T23B35S	CONNECTOR, RECEPTACL, TJ9	1
*	133	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT, ELECTRICAL	100
	134	PAFZZ	4931-01-242-1633	19207	12354555	COVER ASSEMBLY, ELEC	1

GROUP 01A0101 OIU ELECTRONICS ASSEMBLY 12309754 – CONTINUED

0176 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A0101 OIU ELECTRONICS ASSEMBLY						
FIG. 3 OIU ELECTRONICS ASSEMBLY 12309754						
135	PAFZZ	5305-01-005-3181	96906	MS51849-12	SCREW,MACHINE	4
136	PAFZZ	4330-01-119-5748	19207	12280224-2	FILTER,LINE	1
137	PAFZZ	5935-01-103-4765	96906	MS3474W24-61S	CONNECTOR,RECEPTACL, TJ4	1
138	PAFZZ	5999-00-172-8253	81343	M39029/5-115	CONTACT,ELECTRICAL	61
139	PAFZZ	5935-01-015-8263	96906	MS27468E25F35S	CONNECTOR,RECEPTACL, TJ5	1
* 140	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	128
141	PAFZZ	5935-01-017-0158	96906	MS27468E25F35SB	CONNECTOR,RECEPTACL, TJ6	1
* 142	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	128
143	PAFZZ	5935-01-165-2948	96906	MS27468T13F4P	CONNECTOR,RECEPTACL, UJ1	1
144	PAFZZ	5999-00-402-2545	81349	M39029/58-364	CONTACT,ELECTRICAL	4
145	PAFZZ	5935-01-157-9563	96906	MS3474W24-61SW	CONNECTOR,RECEPTACL, TJ10	1
146	PAFZZ	5999-00-172-8253	81343	M39029/5-115	CONTACT,ELECTRICAL	61
147	PAFZZ	5935-01-039-4552	96906	MS27468T15B35S	CONNECTOR,RECEPTACL, UJ2	1
* 148	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	37
149	MFFZZ	6145-00-643-0650	81349	M16878/1BJE9	WIRE,ELECTRICAL MAKE FROM NSN 6145-00-643-0650	V
150	MFFZZ	6145-00-652-1441	81349	M16878/1BGE9	WIRE,ELECTRICAL MAKE FROM NSN 6145-00-652-1441	V
151	MFFZZ	6145-00-652-1784	81349	M16878/1BFE9	WIRE,ELECTRICAL MAKE FROM NSN 6145-00-652-1784	V
152	MFFZZ	6145-00-489-8898	81349	M16878/1BEE9	WIRE,ELECTRICAL MAKE FROM NSN 6145-00-489-8898	V
* 153	MFFZZ	5970-00-916-2679	81343	M23053/5-202-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-916-2679	V
* 154	MFFZZ	6145-00-090-5401	1P787	M27500-22ML2T08	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-00-090-5401	V
155	MFFZZ	6145-00-839-2119	81349	M27500/22ML1T08	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-00-839-2119	V
156	PBFZA	5935-01-176-7192	81349	M55302/63-A36H	CONNECTOR,PLUG,ELEC, P34-P37,P39-P45	11
157	PBFZZ	5935-01-203-3258	81349	M55302/55-A20H	CONNECTOR,PLUG,ELEC, P95,P103	2
158	PBFZA	5935-01-305-0809	81349	M55302/63-A44H	CONNECTOR,PLUG,ELEC, P48,P50,P52,P54,P56,P58,P60, P62,P64,P66,P68,P70 P72,P74-P94,P104,P106,P108, P112,P116	39
159	PBFZA	5935-01-220-3041	81349	M55302/63-A14H	CONNECTOR,RECEPTACL, P46,P47,P49,P51,P53,P55,P57, P59,P61,P63,P65,P67,P69,P73,P1A05,P107,P109,P113	18
160	PAFZZ	5940-01-135-7085	81343	M83519/2-7	SPLICE,CONDUCTOR	1
161	PAFZZ	5940-01-135-7086	81343	M83519/2-8	SPLICE,CONDUCTOR	1
END OF FIGURE						

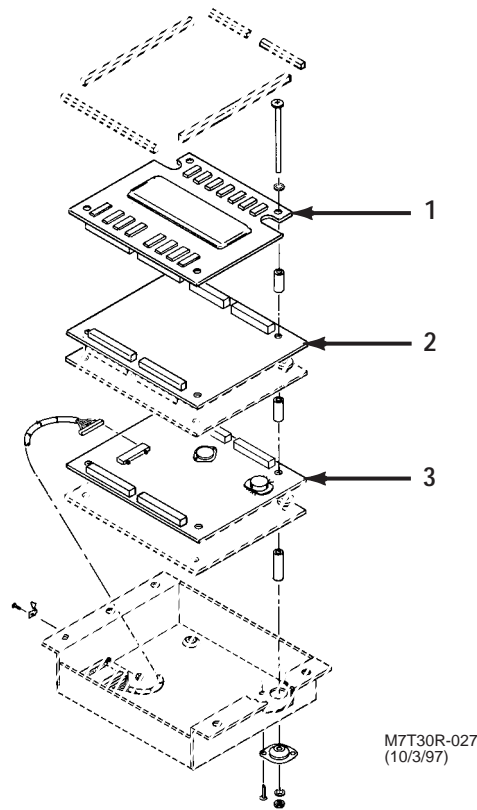
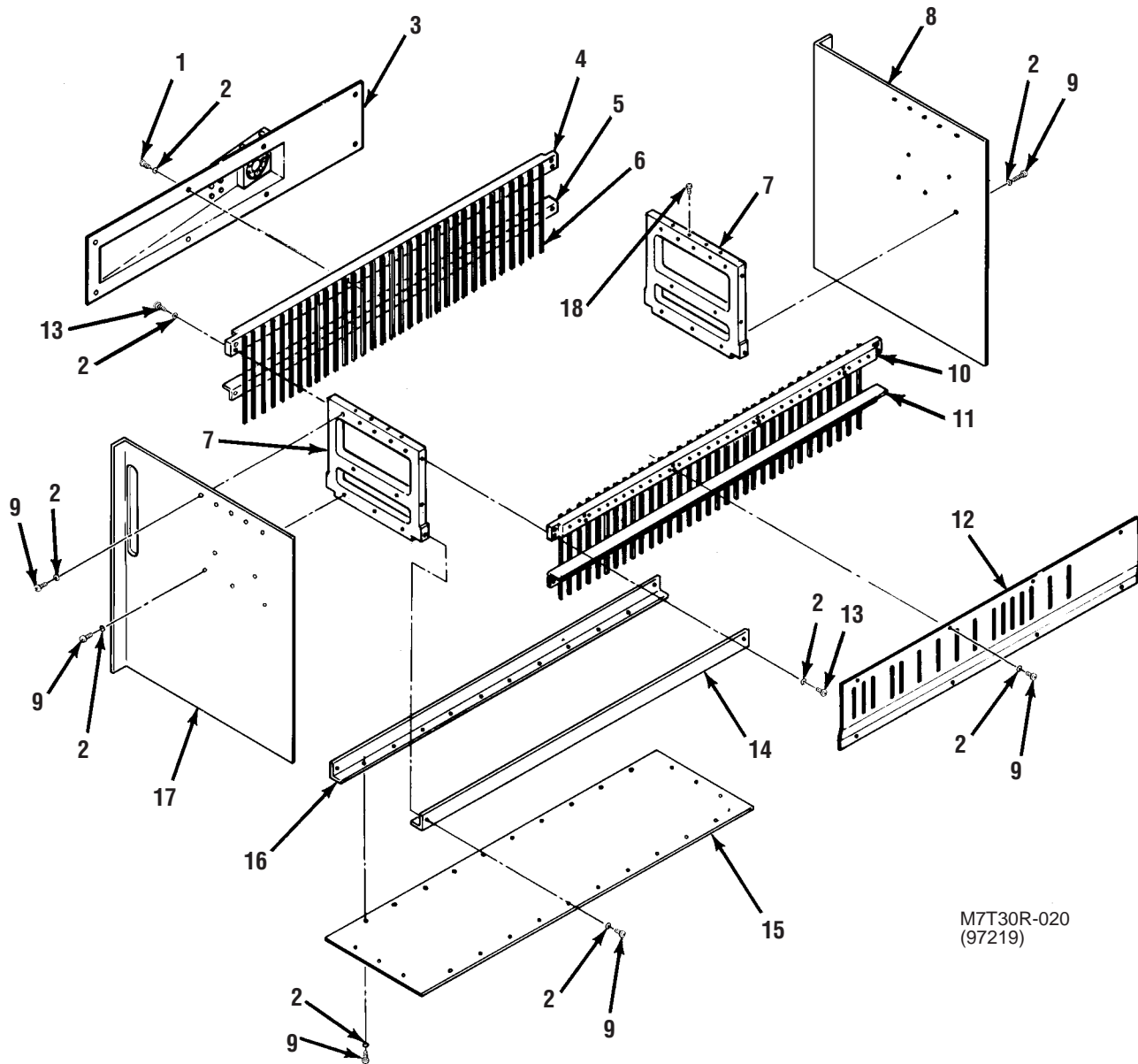


Figure 4. Group 01A010126 Display Assembly 12280207

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A010126 DISPLAY ASSEMBLY						
FIG. 4 DISPLAY ASSEMBLY 12280207						
* 1	PGDDD	5998-01-094-9633	19207	12280136	CIRCUIT CARD ASSEMB FGC 01A01012601	1
* 2	PGDDD	5998-01-094-9634	19207	12280140	CIRCUIT CARD ASSEMB FGC 01A01012602	1
* 3	PGDDD	5998-01-094-9635	19207	12280144	CIRCUIT CARD ASSEMB FGC 01A01012603	1
END OF FIGURE						



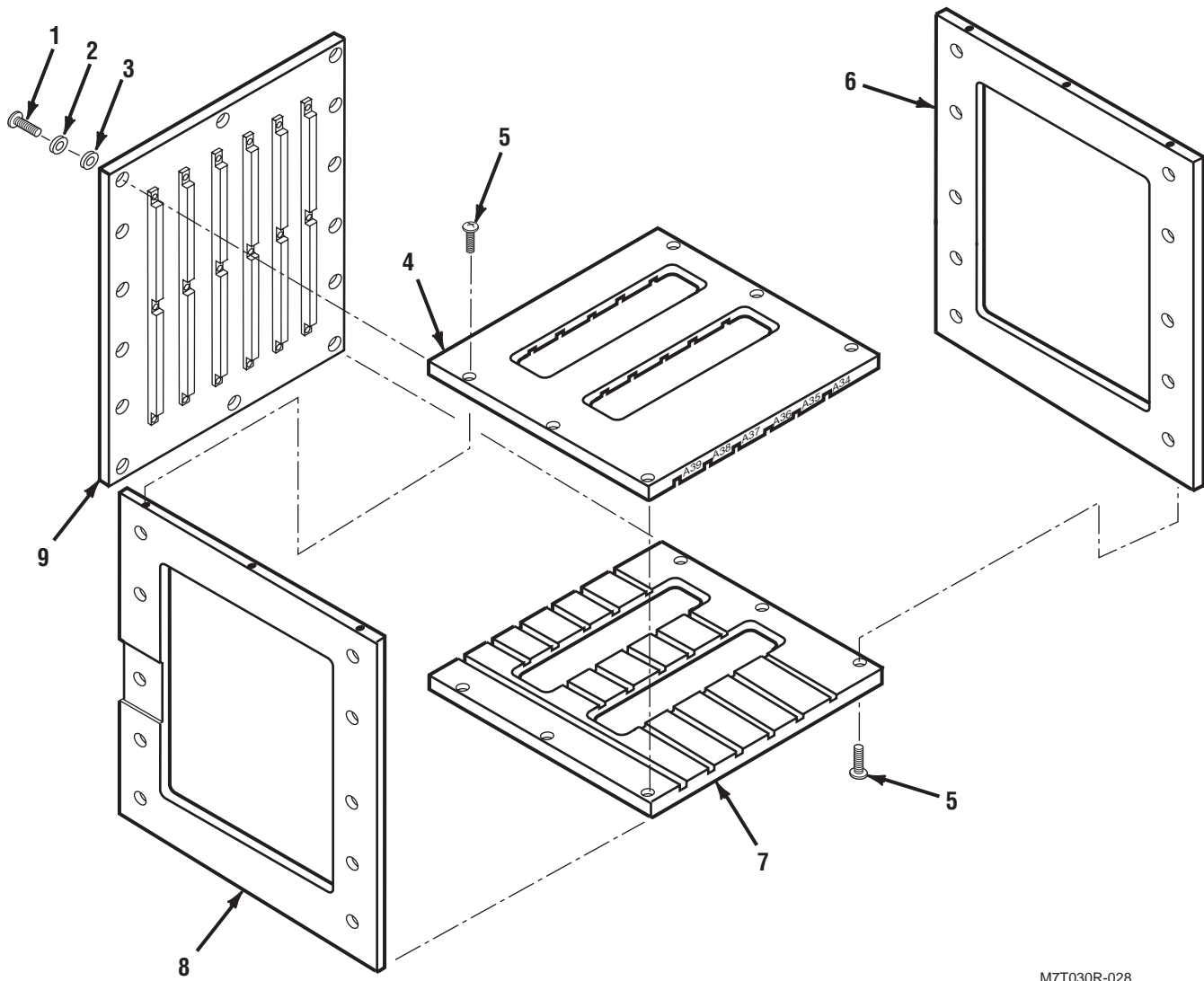
M7T30R-020
(97219)

Figure 5. Group 01A010128 Card Cage Assembly 12309897

GROUP 01A010128 CARD CAGE ASSEMBLY 12309897 – CONTINUED

0178 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A010128 CARD CAGE ASSEMBLY						
FIG. 5 CARD CAGE ASSEMBLY 12309897						
* 1	PAFZZ	5305-01-030-8753	96906	MS51849-32	SCREW,MACHINE	8
2	PAFZZ	5310-00-579-0079	80205	MS35333-37	WASHER,LOCK	78
3	XDFZZ		19207	12312035	DUCT,FAN	1
4	XDFZZ		19207	12280217-2	BAR	1
5	XDFZZ		19207	12280218-2	ANGLE	1
6	PAFZZ	5998-00-089-8943	19207	12301887	HOLDER,ELECTRICAL C	66
7	XDFZZ		19207	12280220	BLOCK	2
8	XDFZZ		19207	12280216-3	PLATE	1
9	PAFZZ	5305-00-227-1543	96906	MS51849-33	SCREW,MACHINE	62
10	XDFZZ		19207	12280217-1	BAR	1
11	XDFZZ		19207	12280218-1	ANGLE	1
12	XDFZZ		19207	12312036	BRACE	1
13	XDFZZ	5305-00-518-5734	96906	MS51849-35	SCREW,MACHINE	8
14	XDFZZ		19207	12280219-1	ANGLE	1
15	PGFDD	5998-01-142-2687	19207	12309896	BACKPLANE ASSEMBLY FGC 01A01012801	1
16	XDFZZ		19207	12280219-2	ANGLE	1
17	XDFZZ		19207	12309895	PLATE	1
* 18	XDFZZ	5305-01-194-0385	80205	MS51029-117	SETSCREW	1
END OF FIGURE						



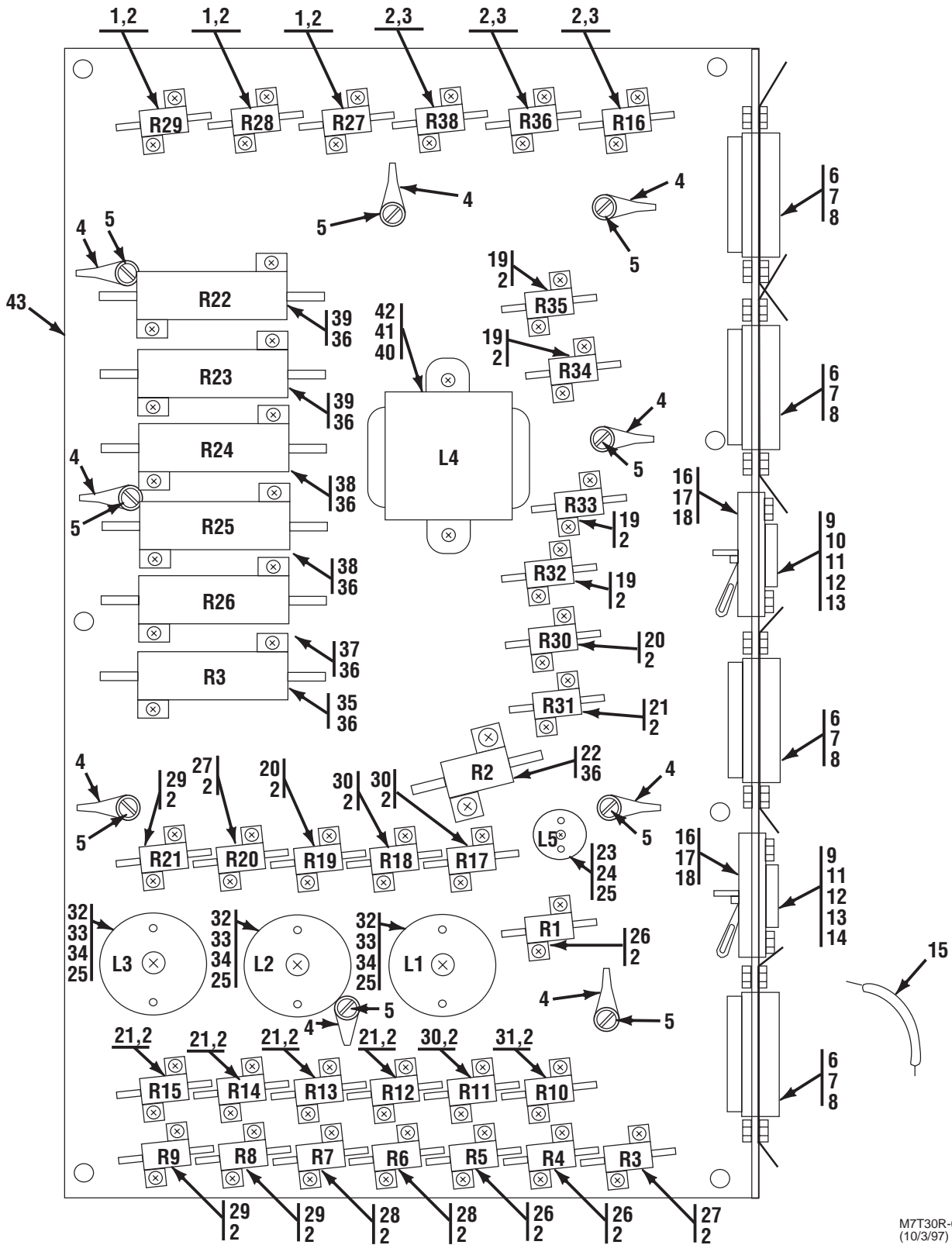
M7T030R-028
(10/8/97)

Figure 6. Group 01A010129 OIU Mini Card Cage Assembly 12309779-1

GROUP 01A010129 OIU MINI CARD CAGE ASSEMBLY 12309779-1 – CONTINUED

0179 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A010129 OIU MINI CARD CAGE ASSEMBLY						
FIG. 6 OIU MINI CARD CAGE ASSEMBLY 12309779-1						
* 1	PAFZZ	5305-00-242-1264	96906	MS51849-13	SCREW,MACHINE	14
2	PAFZZ	5310-00-193-7577	80205	MS35333-36	WASHER,LOCK	14
3	PAFZZ	5310-00-716-5612	96906	MS51859-2	WASHER,FLAT	14
4	XDFZZ		19207	12309780-2	GUIDE	1
5	PAFZZ	5305-00-059-4553	80205	MS35190-238	SCREW,MACHINE	12
6	XDFZZ		19207	12309781-2	PLATE	1
7	XDFZZ		19207	12309780-1	GUIDE	1
8	XDFZZ		19207	12309781-1	PLATE	1
9	PGFDD	5999-01-118-8638	19207	12309861-1	TERMINAL BOARD BACKPLANE FGC 01A01012901	1
END OF FIGURE						



M7T30R-026
(10/3/97)

Figure 7. Group 01A010130 Load Plate Assembly 12309898

GROUP 01A010130 LOAD PLATE ASSEMBLY 12309898 – CONTINUED

0180 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 01A010130 LOAD PLATE ASSEMBLY							
FIG. 7 LOAD PLATE ASSEMBLY 12309898							
1	PAFZZ	5905-00-307-3425	81349	RER45F90R9R	RESISTOR, FIXED, WIRE R27, R28, R29 (INTERCHANGEABLE WITH P/N RE65N90R9)	3	
2	PAFZZ	5305-00-988-1167	80205	MS35206-204	SCREW, MACHINE	62	
3	PAFZZ	5905-00-264-3711	81349	RER45F27R4R	RESISTOR, FIXED, WIRE R16, R36, R38 (INTERCHANGEABLE WITH P/N RE65N27R4)	3	
4	PAFZZ	5340-01-095-2138	19207	12280055	STRAP, LINE SUPPORTI	9	
5	PAFZZ	5305-00-211-8193	96906	MS51849-54	SCREW, MACHINE	9	
6	PAFZA	5935-01-282-3114	81349	M24308/4-3F	CONNECTOR, RECEPTACL J97-J100	4	
*	7	PAFZA	5999-00-411-7645	81343	M39029/64-369	CONTACT, ELECTRICAL	25
8	PAFZZ	5325-01-118-8671	19207	12301886-1	LOCKSPRING, TURNLOCK	8	
9	PAFZZ	5970-00-144-7345	81349	M49466/01-007P	INSULATOR, PLATE	2	
10	PAFZZ	4931-01-120-2902	24290	238/07-1885	TRANSISTORS Q1	1	
11	PAFZZ	5961-01-136-7366	19207	12280117	RETAINER, SEMICONDUCT	2	
*	12	PAFZZ	5305-00-889-3001	80205	MS35206-231	SCREW, MACHINE	4
13	PAFZZ	5310-00-929-6395	80205	MS35338-136	WASHER, LOCK	4	
14	PAFZZ	5962-01-152-0350	24290	232/58-0299	MICROCIRCUIT, LINEAR VR1	1	
15	MFFZZ	6145-00-652-1441	81349	M16878/1BGE9	WIRE, ELECTRICAL MAKE FROM NSN 6145-00-652-1441	V	
*	16	MFFZZ	5970-00-767-0524	81343	M23053/5-206-C	INSULATION SLEEVEING MAKE FROM NSN 5970-00-767-0524	V
17	MFFZZ	5970-00-767-0515	81343	M23053/5-205-C	INSULATION SLEEVEING MAKE FROM NSN 5970-00-767-0515	V	
18	PAFZZ	5935-00-566-3994	06776	MD-3452-G	SOCKET, PLUG-IN ELEC	2	
19	PAFZZ	5905-00-500-9318	81349	RER40F6040R	RESISTOR, FIXED, WIRE R32-R35 (INTERCHANGEABLE WITH P/N RE60N6040)	4	
20	PAFZZ	5905-00-262-5286	81349	RER40F2R00R	RESISTOR, FIXED, WIRE R19, R30 (INTERCHANGEABLE WITH P/N RE60N2R00)	2	
21	PAFZZ	5905-01-117-8089	81349	RER40F5R62R	RESISTOR, FIXED, WIRE R12-R15, R31 (INTERCHANGEABLE WITH P/N RE60N5R62)	5	
22	PAFZZ	5905-01-160-2571	81349	RER50F46R4R	RESISTOR, FIXED, WIRE R2 (INTERCHANGEABLE WITH P/N RE70N46R4)	1	
23	PAFZZ	5305-00-988-9220	96906	MS35214-8	SCREW, MACHINE	1	
24	PAFZZ	5950-01-127-8979	19207	12280175	REACTOR L5	1	
25	MFFZZ	5970-00-990-9912	81343	M23053/5-204-C	INSULATION SLEEVEING MAKE FROM NSN 5970-00-990-9912	V	
26	XDFZZ	5905-00-195-6433	81349	RER40F2870R	RESISTOR, FIXED, WIRE R1, R4, R5 (INTERCHANGEABLE WITH P/N RE60N2870)	3	
27	PAFZZ	5905-01-134-1188	81349	RER40F4870R	RESISTOR, FIXED, WIRE R20, R37 (INTERCHANGEABLE WITH P/N RE60N4870)	2	
28	PAFZZ	5905-00-509-4058	81349	RER40F61R9R	RESISTOR, FIXED, WIRE R6, R7 (INTERCHANGEABLE WITH P/N RE60N61R9)	2	
29	PAFZZ	5905-00-273-9607	81349	RER40F2000R	RESISTOR, FIXED, WIRE R8, R9, R21 (INTERCHANGEABLE WITH P/N RE60N2000)	3	
30	PAFZZ	5905-00-151-4639	81349	RER40F10R0R	RESISTOR, FIXED, WIRE R11, R17, R18 (INTERCHANGEABLE WITH P/N RE60N10R0)	3	
31	PAFZZ	5905-00-195-6289	81349	RER40F1000R	RESISTOR, FIXED, WIRE R10 (INTERCHANGEABLE WITH P/N RE60N1000)	1	
32	PAFZZ	5950-01-120-4163	19207	12280181	COIL, ELECTRICAL L1, L2, L3	3	
33	PAFZZ	5310-00-167-0699	88044	AN960B6	WASHER, FLAT	3	
*	34	PAFZZ	5305-00-059-8256	80205	MS35214-31	SCREW, MACHINE	3
35	PAFZZ	5905-00-429-6985	81349	RER55F10R0R	RESISTOR, FIXED, WIRE R3 (INTERCHANGEABLE WITH P/N RE75N10R0)	1	

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A010130 LOAD PLATE ASSEMBLY						
FIG. 7 LOAD PLATE ASSEMBLY 12309898						
36	PAFZZ	5305-00-889-2997	80205	MS35206-215	SCREW,MACHINE	14
37	PAFZZ	5905-00-308-6304	81349	RER75F13R0R	RESISTOR, FIXED, WIRE R26 (INTERCHANGEABLE WITH P/N RE75G13R0)	1
38	PAFZZ	5905-00-509-4009	81349	RER55F30R1R	RESISTOR, FIXED, WIRE R24, R25 (INTERCHANGEABLE WITH P/N RE75N30R1)	2
39	PAFZZ	5905-01-134-1187	81349	RER55F36R5R	RESISTOR, FIXED, WIRE R22, R23 (INTERCHANGEABLE WITH P/N RE75N36R5)	2
40	PAFZZ	5950-01-127-5023	19207	12280180	COIL, ELECTRICAL L4	1
41	PAFZZ	5305-00-889-3002	96906	MS35206-242	SCREW, MACHINE	2
42	MFFZZ	5970-00-819-9569	81349	M23053/5-103-9	INSULATION SLEEVING MAKE FROM NSN 5970-00-819-9569 USED ON FVS EFFECTIVE S/N 85001	V
43	XDFZZ		19207	12301897	PLATE	1
END OF FIGURE						

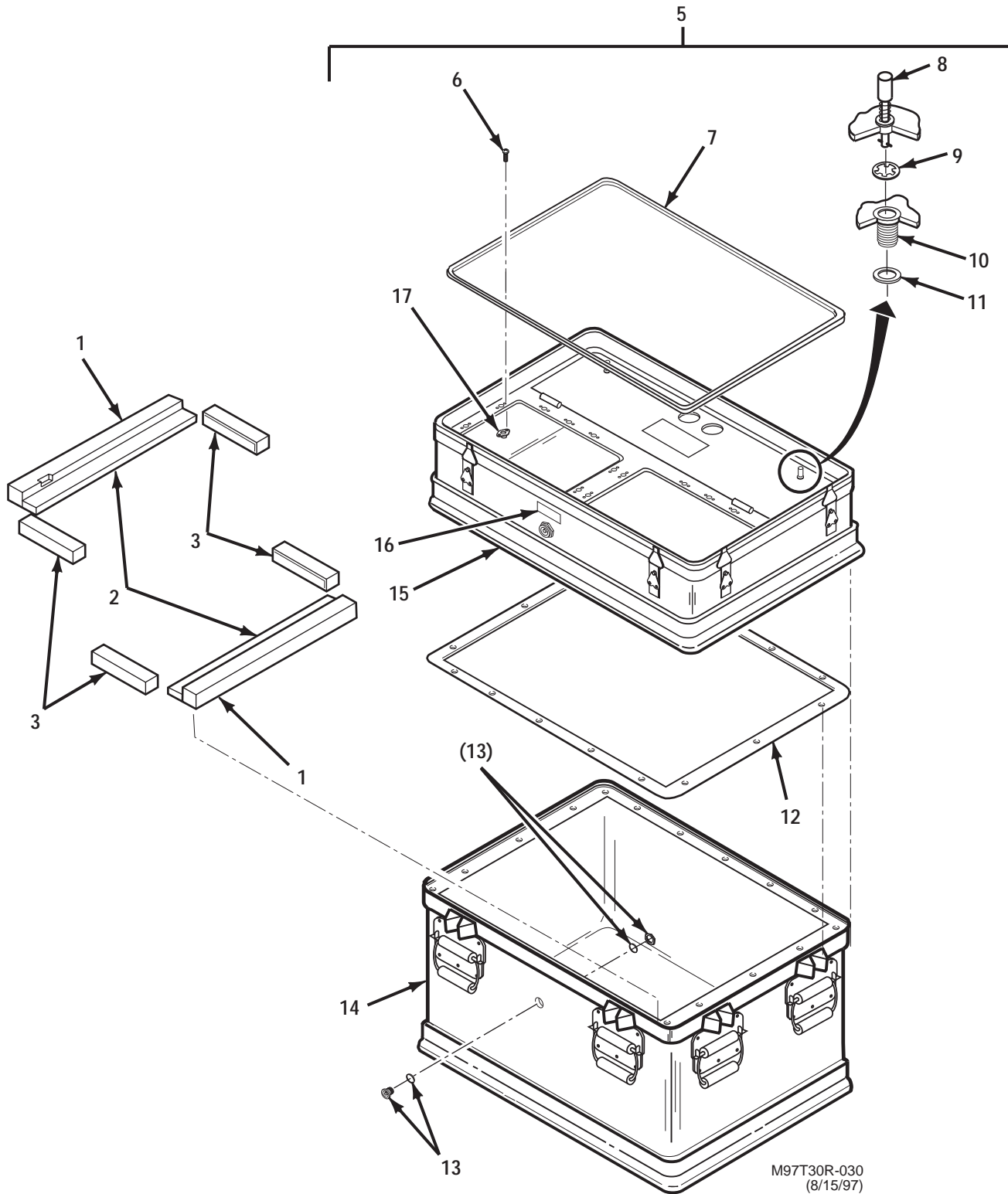
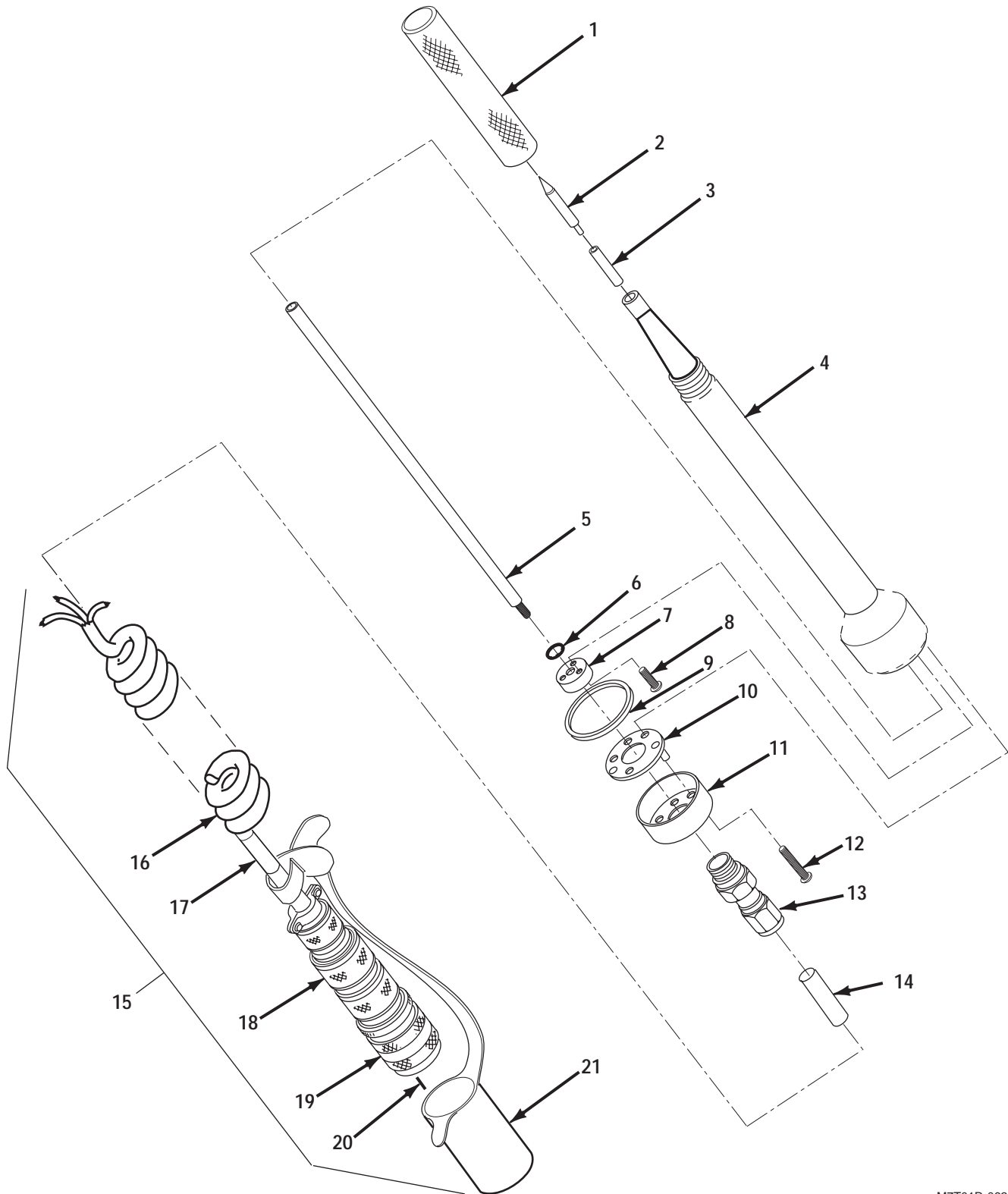


Figure 8. Group 01A0102 OIU Case Assembly 12309074

GROUP 01A0102 OIU CASE ASSEMBLY 12309074 – CONTINUED

0181 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A0102 OIU CASE ASSEMBLY						
FIG. 8 OIU CASE ASSEMBLY 12309074						
1	PBFZZ	5340-01-153-8249	24290	12301904	PAD,CUSHIONING	2
2	PBFZZ	5340-01-144-5535	24290	12301906	PAD,CUSHIONING	2
3	PBFZZ	5340-01-144-5534	24290	12301905	PAD,CUSHIONING	4
4	XAFDD		24290	226/02-0374	CASE ASSEMBLY (NOT SHOWN)	1
5	XADDD		19207	12309776	CASE (INTERCHANGEABLE WITH P/N 12323316)	1
5	XADDD	6625-01-237-3640	19207	12323316	CASE,TEST SET (INTERCHANGEABLE WITH P/N 12309776) ..	1
6	XDDZZ	5320-00-234-1557	80205	MS20426A3-6	RIVET,SOLID (USED WITH P/N 12323316 ONLY)	40
6	XDDZZ	5320-00-117-6939	80205	MS20426AD3-5	RIVET,SOLID (USED WITH P/N 12309776)	40
7	MDDZZ	5330-01-217-2024	74284	SKM2000	GASKET (USED WITH P/N 12309776)	
					MAKE FROM NSN 5330-01-217-2024	V
7	MDDZZ	5330-01-254-5201	53031	XTC20R07	SEAL,PLAIN (USED WITH P/N 12323316 ONLY)	
					MAKE FROM NSN 5330-01-254-5201	V
* 8	PAOZZ	5325-00-980-2555	19207	12309109-1	STUD ASSEMBLY,TURNLOCK	2
9	PAOZZ	5310-00-942-5139	34860	11019315-1	PUSH ON NUT	2
10	PAOZZ	5325-01-158-6752	19207	12309110-1	SOCKET,PUSH BUTTON	2
11	PAOZZ	5310-01-156-7514	19207	12309110-2	NUT,PLAIN,HEXAGON	2
* 12	PGFZZ	5999-01-120-2898	19207	12280245	SHIELDING GASKET,EL	1
13	XDDZZ		19207	12312039	VALVE,PRESSURE EQUALIZER	2
14	XADZZ		19207	12309776-1	BASE (USED WITH P/N 12309776)	1
15	XADZZ		19207	12309776-2	LID (USED WITH P/N 12309776)	1
16	XDDZZ	7690-01-146-6473	24290	12312040	DECAL	1
17	XDOZZ	5325-00-298-7027	72794	RF3 1-2	RECEPTACLE,TURNLOCK	20
END OF FIGURE						



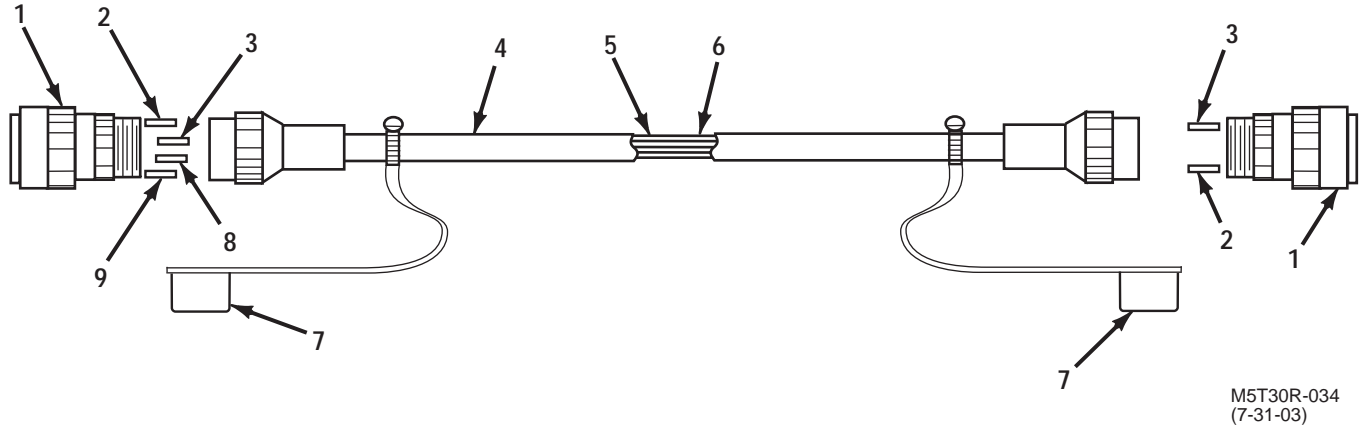
M7T01R-062
(10/15/97)

Figure 9. Group 01A02 Subassembly Probe (TPC-W50) 12309939

GROUP 01A02 SUBASSEMBLY PROBE (TPC-W50) 12309939 – CONTINUED

0182 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A02 SUBASSEMBLY PROBE(TPC-W50)						
FIG. 9 SUBASSEMBLY PROBE (TPC-W50) 12309939						
1	PAOZZ	5340-01-121-1405	19207	12309882	CAP,PROTECTIVE,DUST	1
2	PAOZZ	6625-01-121-1404	19207	12309940	TIP,TEST PROBE	1
3	MOOZZ	5970-00-814-2878	81349	M23053/5-106-9	INSULATION SLEEVING MAKE FROM NSN 5970-00-814-2878	V
4	PAFZZ	6635-01-118-8705	19207	12309941	HOLDER,PROBE	1
5	PAFZZ	3040-01-118-8706	19207	12309943	SHAFT,SHOULDERED	1
6	XDFZZ	5330-00-599-0998	96906	MS29513-8	O-RING	9
7	PAFZZ	3040-01-121-1406	19207	12309944	PLATE,RETAINING,SHA	1
8	PAFZZ	5305-00-954-3938	96906	MS35206-207	SCREW,MACHINE	3
9	PAFZZ	5330-01-120-2899	19207	12309785	GASKET	1
10	PAFZZ	5998-01-118-8704	19207	12309873	CIRCUIT CARD ASSEMB	1
11	PAFZZ	6625-01-118-8728	19207	12309942	REAR HSQ	1
12	PAFZZ	5305-00-519-7255	96906	MS24693-9B	SCREW,MACHINE	3
13	PAFZZ	4730-01-165-0546	19207	12309093	COUPLING,TUBE	1
14	MFFZZ	5970-00-954-1624	81349	M23053/5-107-0	INSULATION SLEEVING MAKE FROM NSN 5970-00-954-1624	V
*	PGFFF	6150-01-142-2709	19207	12309904	CABLE ASSY,PROBE	1
16	PAFZZ	6150-01-154-1869	19207	12309786	CABLE,RETRACTILE	1
17	MFFZZ	5970-00-954-1624	81349	M23053/5-107-0	INSULATION SLEEVING MAKE FROM NSN 5970-00-954-1624	V
18	PAFZZ	5935-01-478-6892	19207	12309787	ADAPTER,CABLE CLAMP	1
19	PAFZZ	5935-01-094-9922	96906	MS27467T15F35P	CONNECTOR,PLUG,ELEC	1
20	PAFZZ	5999-00-473-3551	81349	M39029/58-360	CONTACT,ELECTRICAL	37
21	PBOZZ	5340-01-224-6380	19207	12354499-10	CAP,PROTECTIVE,DUST	1
END OF FIGURE						



M5T30R-034
(7-31-03)

Figure 10. Group 01A03 Memory Cable And Conduit Assembly (MEM-W60) 12309914

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A03 MEMORY CABLE AND CONDUIT ASSEMBLY (MEM-W60)						
FIG. 10 MEMORY CABLE AND CONDUIT ASSEMBLY (MEM-W60) 12309914						
1	PAOZZ	5935-01-108-4488	96906	MS3476W16-26PW	CONNECTOR, PLUG, ELEC P1, P2	2
2	PAOZZ	5999-00-146-8592	81349	M39029/4-110	CONTACT, ELECTRICAL	34
3	PAOZZ	5935-00-496-7171	96906	MS27488-20-1	PLUG, END SEAL, ELECT	18
4	XDDZZ		05593	250626	CONDUIT ASSEMBLY	1
*	MDDZZ	6145-01-170-4658	81343	M22759/32-24-9	WIRE, ELECTRICAL MAKE FROM NSN 6145-01-170-4658	V
6	MDDZZ	6145-01-181-0868	1P787	M27500-24SB1T23	CABLE, SPECIAL PURPO MAKE FROM NSN 6145-01-181-0868 ..	V
7	PBOZZ	5340-01-224-6381	19207	12354499-11	CAP, PROTECTIVE, DUST	2
*	XDDZZ	5940-01-136-2540	81343	M83519/1-2	SPLICE, CONDUCTOR	1
9	XDDZZ		81349	M83519/2-12	SHIELD TERMINATION	16
END OF FIGURE						

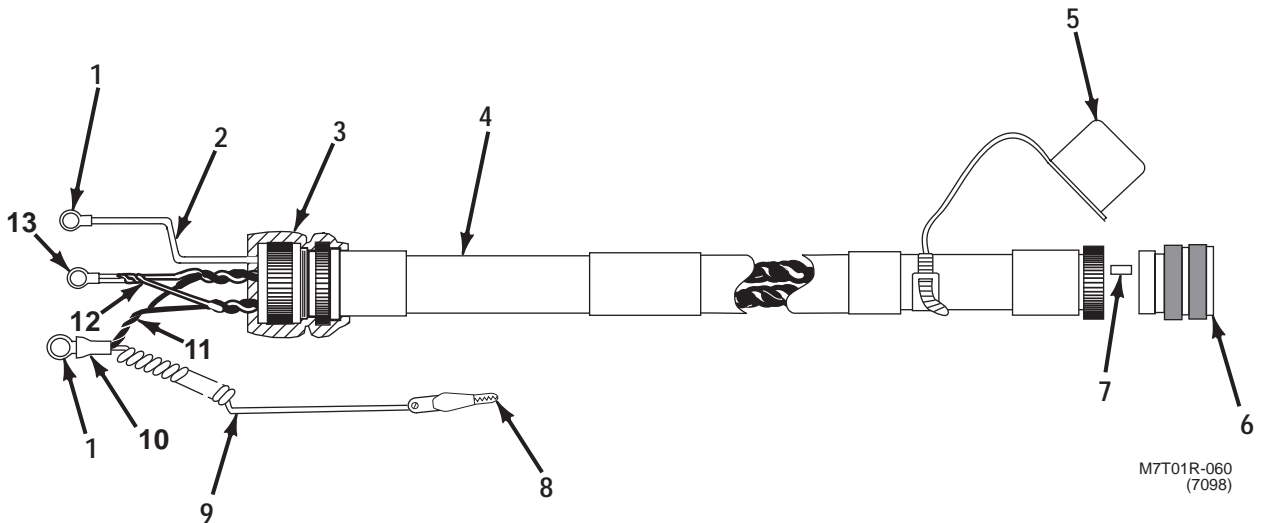


Figure 11. Group 01A04 Power Cable Assembly (M1/FVS PWR-W1) 12309919

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A04 POWER CABLE ASSEMBLY (M1/FVS PWR-W1)						
FIG. 11 POWER CABLE ASSEMBLY (M1/FVS PWR-W1) 12309919						
1	PAOZZ	5940-00-143-4777	96906	MS25036-157	TERMINAL,LUG	2
2	MDDZZ	6145-01-183-4137	81349	M22759/32-16-5	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-183-4137	V
3	MOOZZ	5970-00-990-9911	81349	M23053/5-210-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-990-9911 ...	V
4	XDDZZ		05593	250816	CONDUIT ASSEMBLY	1
5	PBOZZ	5340-01-224-6382	19207	12354499-09	CAP,PROTECTIVE,DUST	1
6	PAOZZ	5935-01-092-9698	96906	MS27467T13B4S	CONNECTOR,PLUG,ELEC P1	1
7	PAOZZ	5999-01-034-0716	81349	M39029/56-352	CONTACT,ELECTRICAL	4
8	PAOZZ	5999-01-127-5022	19207	12280174	CLIP,ELECTRICAL	1
9	XDOZZ		19200	12596414	CORD,RETRACTILE	1
10	MOOZZ	5970-00-871-5779	81343	M23053/5-208-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-871-5779	V
11	MDDZZ	6145-01-191-3321	81349	M22759/32-16-0	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-191-3321	V
12	MDDZZ	6145-01-170-6398	81349	M22759/32-16-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-170-6398	V
13	PAOZZ	5940-01-507-0329	81343	MS25036-154	TERMINAL,LUG	1
END OF FIGURE						

*

GROUP 01A05 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W86) 12309042

0185 00

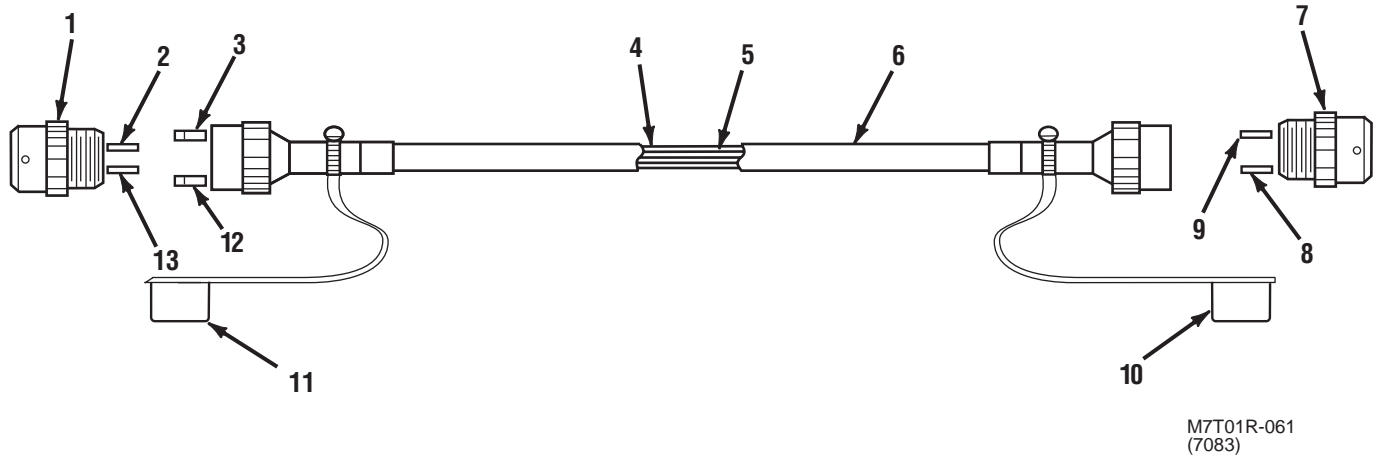


Figure 12. Group 01A05 Functional Self Test Cable And Conduit Assembly (FST-W86) 12309042

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A05 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W86)						
FIG. 12 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W86) 12309042						
1	PAOZZ	5935-01-094-9922	96906	MS27467T15F35P	CONNECTOR, PLUG, ELEC, P2	1
2	PAOZZ	5999-00-473-3551	81349	M39029/58-360	CONTACT, ELECTRICAL	37
3	PAOZZ	5935-00-351-5944	96906	MS27488-22-1	PLUG, END SEAL, ELECT	19
4	MDDZZ	6145-01-170-4658	81343	M22759/32-24-9	WIRE, ELECTRICAL MAKE FROM NSN 6145-01-170-4658	V
5	MDDZZ	6145-01-181-0868	1P787	M27500-24SB1T23	CABLE, SPECIAL PURPO MAKE FROM NSN 6145-01-181-0868	V
6	XDDZZ		05593	251023	CONDUIT ASSEMBLY	1
7	PAOZZ	5935-01-108-4488	96906	MS3476W16-26PW	CONNECTOR, PLUG, ELEC, P1	1
8	PAOZZ	5999-00-146-8592	81349	M39029/4-110	CONTACT, ELECTRICAL	26
9	PAOZZ	5935-00-496-7171	96906	MS27488-20-1	PLUG, END SEAL, ELECT	9
10	PBOZZ	5340-01-224-6381	19207	12354499-11	CAP, PROTECTIVE, DUST	1
11	PBOZZ	5340-01-224-6380	19207	12354499-10	CAP, PROTECTIVE, DUST	1
* 12	PAOZZ	5940-01-135-7091	81349	M83519/2-13	SPLICE, CONDUCTOR	16
* 13	PADZZ	5940-01-135-7076	81343	M83519/1-1	SPLICE, CONDUCTOR	2
END OF FIGURE						

GROUP 01A06 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W87) 12309043

0186 00

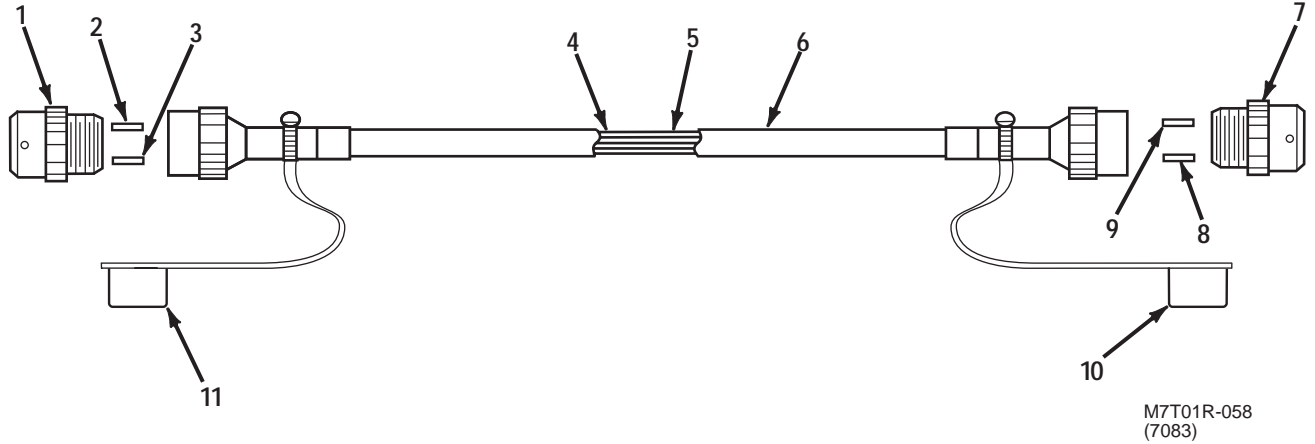


Figure 13. Group 01A06 Functional Self Test Cable And Conduit Assembly (FST-W87) 12309043

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 01A06 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W87)							
FIG. 13 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W87) 12309043							
1	PAOZZ	5935-01-098-9998	96906	MS3476W24-61P	CONNECTOR,PLUG,ELEC, P2	1	
2	PAOZZ	5999-00-146-8592	81349	M39029/4-110	CONTACT,ELECTRICAL	61	
3	PAOZZ	5935-00-496-7171	96906	MS27488-20-1	PLUG,END SEAL,ELECT	16	
*	4	MDDZZ	6145-01-170-4658	81343	M22759/32-24-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-170-4658	V
	5	MDDZZ	6145-01-162-6049	81349	M22759/32-26-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-162-6049	V
	6	XADZZ	19200	13014841	CONDUIT ASSEMBLY	1	
	7	PAOZZ	5935-01-077-5176	96906	MS27467E25F35PB	CONNECTOR,PLUG,ELEC, P1	1
	8	PAOZZ	5999-00-473-3551	81349	M39029/58-360	CONTACT,ELECTRICAL	128
*	9	PAOZZ	5935-00-351-5944	96906	MS27488-22-1	PLUG,END SEAL,ELECT	43
	10	PBOZZ	5340-01-224-6383	19207	12354499-18	CAP,PROTECTIVE,DUST	1
	11	PBOZZ	5340-01-224-6384	19207	12354499-17	CAP,PROTECTIVE,DUST	1
END OF FIGURE							

GROUP 01A07 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W88) 12309044 0187 00

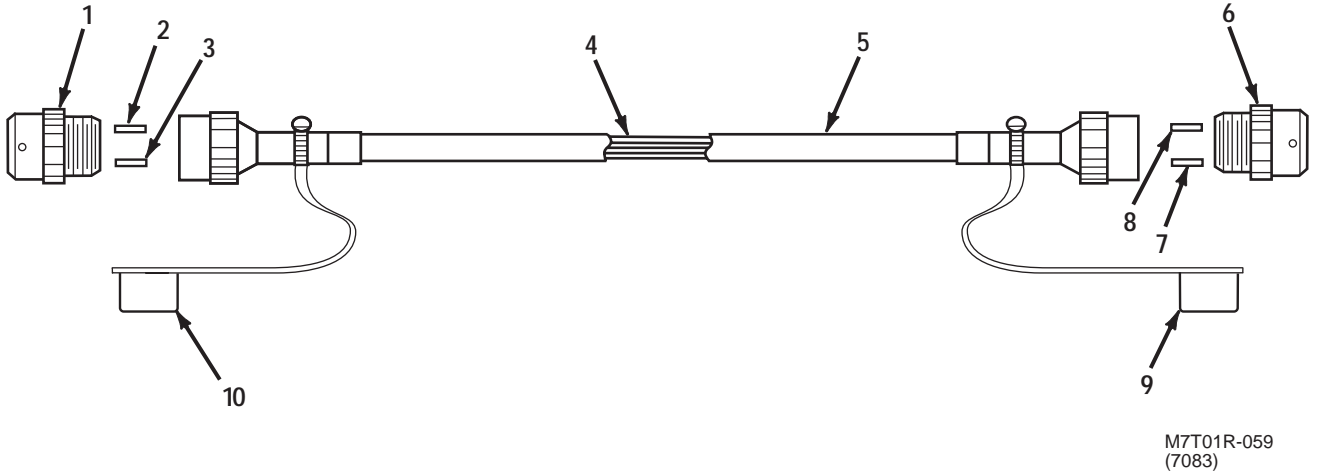


Figure 14. Group 01A07 Functional Self Test Cable And Conduit Assembly (FST-W88) 12309044

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A07 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W88)						
FIG. 14 FUNCTIONAL SELF TEST CABLE AND CONDUIT ASSEMBLY (FST-W88) 12309044						
1	PAOZZ	5935-01-074-8627	96906	MS27467E25F35PC	CONNECTOR,PLUG,ELEC, P2	1
2	PAOZZ	5999-00-473-3551	81349	M39029/58-360	CONTACT,ELECTRICAL	128
3	PAOZZ	5935-00-351-5944	96906	MS27488-22-1	PLUG,END SEAL,ELECT	36
4	MDDZZ	6145-01-170-4658	81343	M22759/32-24-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-170-4658	V
5	XADZZ			12999709	CONDUIT ASSEMBLY	1
6	PAOZZ	5935-01-107-7294	96906	MS3476W24-61PW	CONNECTOR,PLUG,ELEC, P1	1
7	PAOZZ	5999-00-146-8592	81349	M39029/4-110	CONTACT,ELECTRICAL	61
8	PAOZZ	5935-00-496-7171	96906	MS27488-20-1	PLUG,END SEAL,ELECT	10
9	PBOZZ	5340-01-224-6384	19207	12354499-17	CAP,PROTECTIVE,DUST	1
10	PBOZZ	5340-01-224-6383	19207	12354499-18	CAP,PROTECTIVE,DUST	1
END OF FIGURE						

*
*

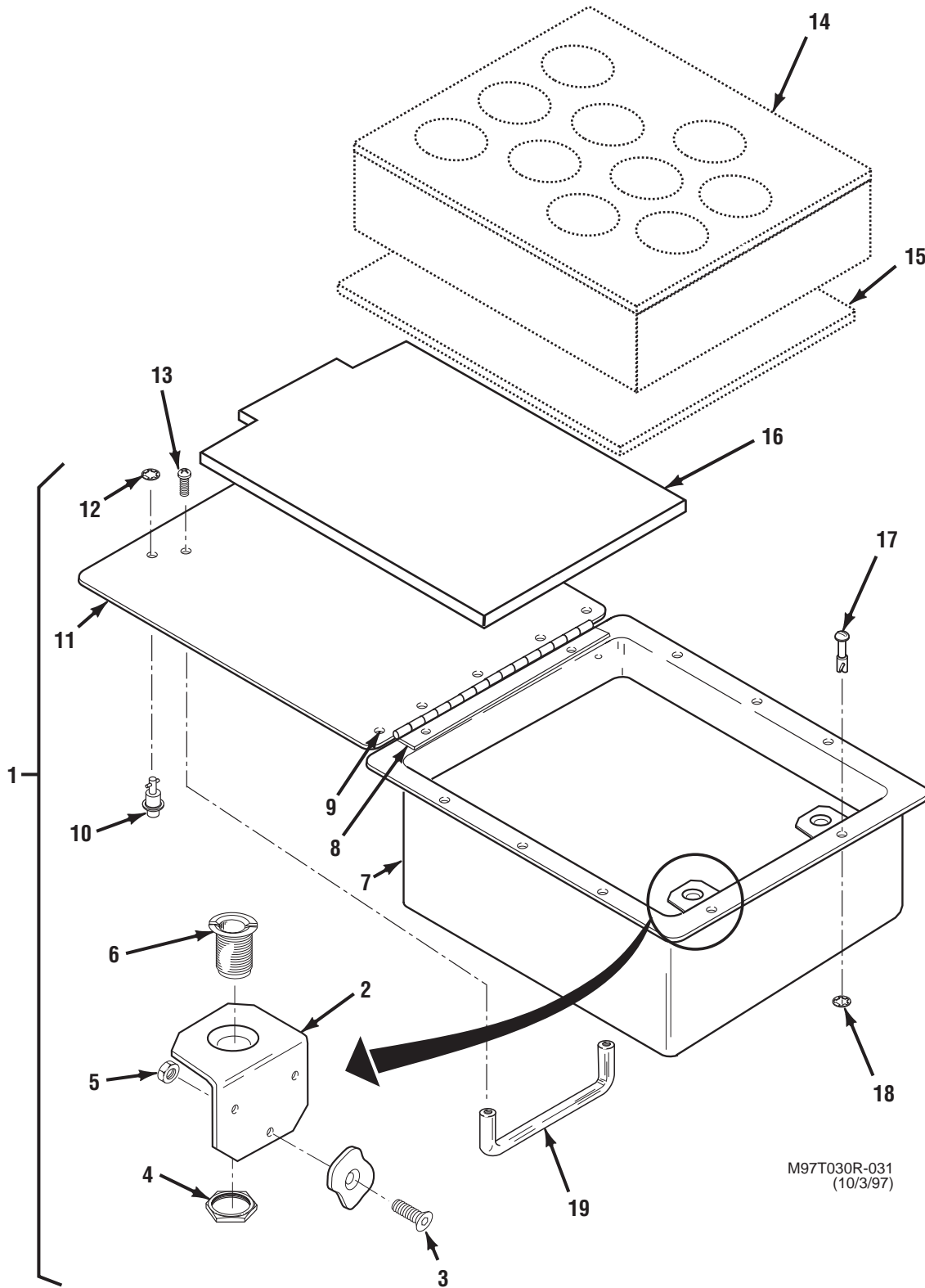
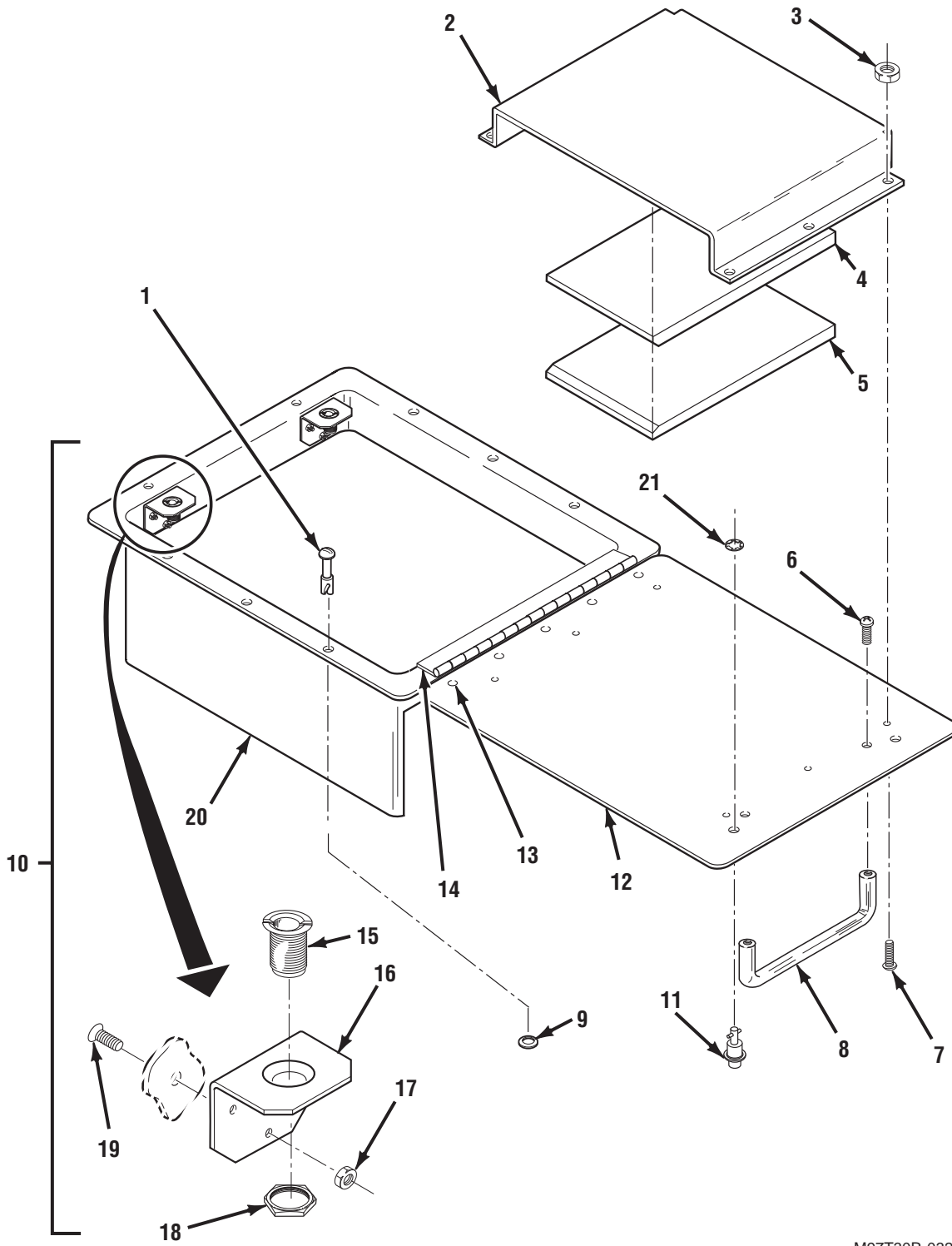


Figure 15. Group 01A08 Functional Self Test Adapters Storage Module Assembly 12354535-1

**GROUP 01A08 FUNCTIONAL SELF TEST ADAPTERS STORAGE MODULE
ASSEMBLY 12354535-1 – CONTINUED**

0188 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A08 FUNCTIONAL SELF TEST ADAPTERS STORAGE MODULE ASSEMBLY						
FIG. 15 FUNCTIONAL SELF TEST ADAPTERS STORAGE MODULE ASSEMBLY 12354535-1						
1	XA000		19207	12354505-1	STOWAGE MODULE	1
2	XDOZZ		19207	12354508	BRACKET	2
3	XDOZZ	5305-00-828-9490	80205	NAS514P440-6P	SCREW,MACHINE	6
4	PAOZZ	5310-01-156-7514	19207	12309110-2	NUT,PLAIN,HEXAGON	2
5	XDOZZ	5310-00-811-6419	80205	MS21042-04	NUT,SELF-LOCKING,HE	6
6	PAOZZ	5325-01-158-6752	19207	12309110-1	SOCKET,PUSH BUTTON	2
7	XAOZZ		19207	12354506-1	BOX (STOWAGE MODULE VOID OF ALL HARDWARE AND ATTACHMENTS)	1
8	XAOZZ		96906	MS20257-4-800	HINGE,CONTINUOUS	1
9	XAOZZ		96906	MS20426D3-4	RIVET,SOLID	10
10	PAOZZ	5325-00-980-2555	19207	12309109-1	STUD ASSEMBLY,TURNL	2
11	XAOZZ		19207	12354507-2	COVER	1
12	PAOZZ	5310-00-942-5139	34860	11019315-1	PUSH ON NUT	2
13	PAOZZ	5305-01-224-9128	96906	MS24693-70B	SCREW,MACHINE	2
14	PBOZZ	2590-01-207-5666	19207	12354509	PAD,CUSHIONING	1
15	PBOZZ	2590-01-207-5665	19207	12354515-1	PAD,CUSHIONING	1
16	PBOZZ	2590-01-207-5667	19207	12354515-2	PAD,CUSHIONING	1
* 17	PAOZZ	5325-01-569-3036	19200	13018968-1	STUD,TURNLOCK FASTENER	8
18	PAOZZ	5325-01-397-8145	19200	12951617	EYELET,TURNLOCK FAS	8
19	PAOZZ	5340-01-094-9589	51506	9314-4.562-10-24-A-5	HANDLE,BOW	1
END OF FIGURE						



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(8/15/97)

Figure 16. Group 01A09 Storage Module Assembly 12354535-2

GROUP 01A09 STORAGE MODULE ASSEMBLY 12354535-2 – CONTINUED

0189 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01A09 STORAGE MODULE ASSEMBLY						
FIG. 16 STORAGE MODULE ASSEMBLY 12354535-2						
*	1	PAOZZ	5325-01-569-3036	19200	13018968-1	STUD,TURNLOCK FASTENER 8
	2	PAOZZ	5340-01-207-5672	19207	12354503	BRACKET,MOUNTING 1
	3	XDOZZ	5310-00-811-6419	80205	MS21042-04	NUT,SELF-LOCKING,HE 6
	4	PBOZZ	2590-01-207-5670	19207	12354504-1	PAD,CUSHIONING 1
	5	XDOZZ	2590-01-207-5671	19207	12354504-2	PAD,CUSHIONING 1
	6	PAOZZ	5305-01-224-9128	96906	MS24693-70B	SCREW,MACHINE 2
	7	XDOZZ	5305-00-828-9490	80205	NAS514P440-6P	SCREW,MACHINE 6
	8	PAOZZ	5340-01-094-9589	51506	9314-4.562-10-24-A-5	HANDLE,BOW 1
	9	PAOZZ	5325-01-397-8145	19200	12951617	EYELET,TURNLOCK FAS 8
	10	XA000		19207	12354505-2	STOWAGE MODULE 1
	11	PAOZZ	5325-00-980-2555	19207	12309109-1	STUD ASSEMBLY,TURNL 2
	12	XAOZZ		19207	12354507-1	COVER 1
	13	XAOZZ		96906	MS20426D3-4	RIVET,SOLID 10
	14	XAOZZ		96906	MS20257-4-800	HINGE,CONTINUOUS 1
	15	PAOZZ	5325-01-158-6752	19207	12309110-1	SOCKET,PUSH BUTTON 2
	16	XDOZZ		19207	12354508	BRACKET 2
	17	XDOZZ	5310-00-811-6419	80205	MS21042-04	NUT,SELF-LOCKING,HE 6
	18	PAOZZ	5310-01-156-7514	19207	12309110-2	NUT,PLAIN,HEXAGON 2
	19	XDOZZ	5305-00-828-9490	80205	NAS514P440-6P	SCREW,MACHINE 6
	20	XAOZZ		19207	12354506-2	BOX (STOWAGE MODULE VOID OF ALL HARDWARE AND ATTACHMENTS) 1
	21	PAOZZ	5310-00-942-5139	34860	11019315-1	PUSH ON NUT 2
END OF FIGURE						

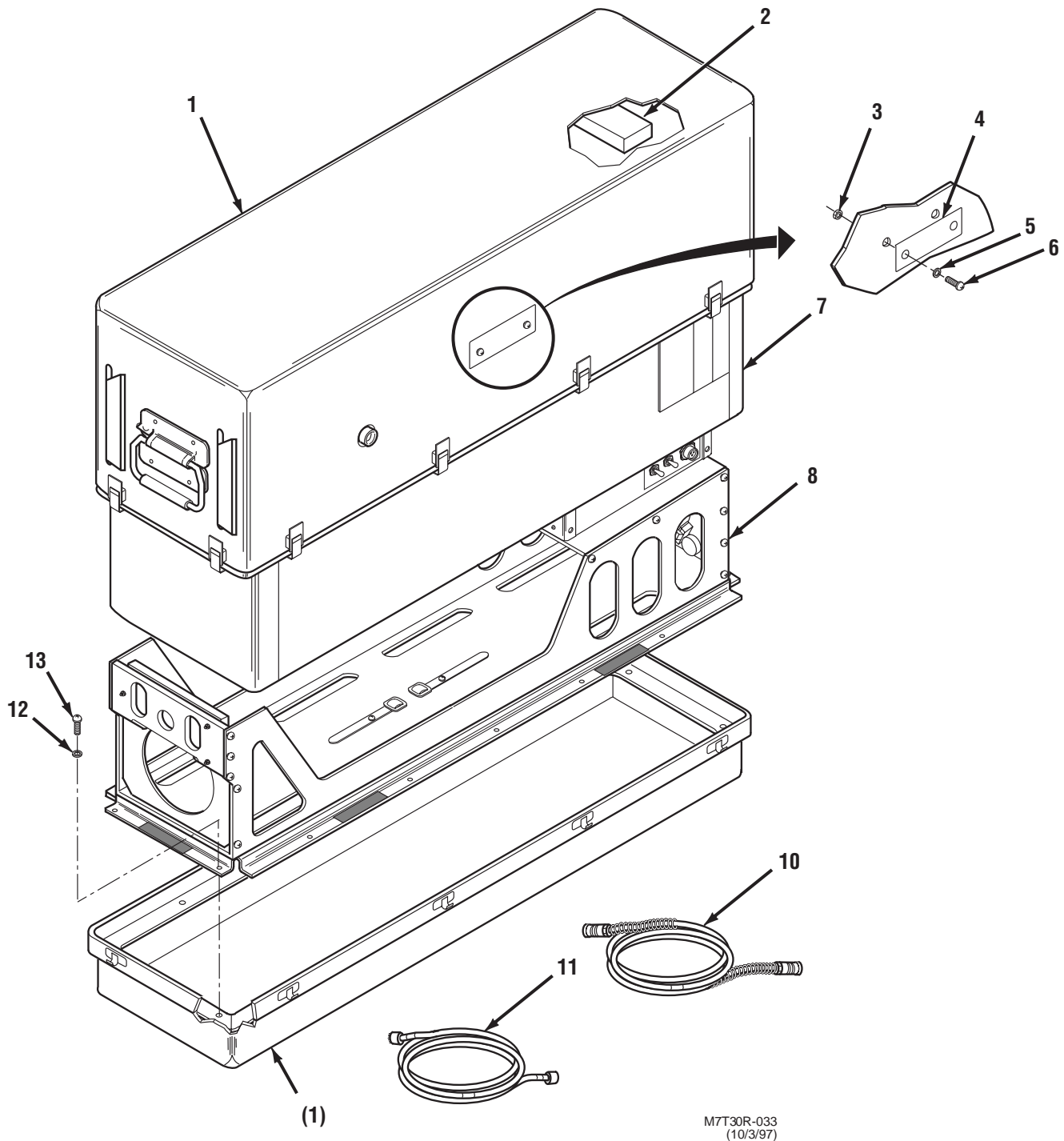
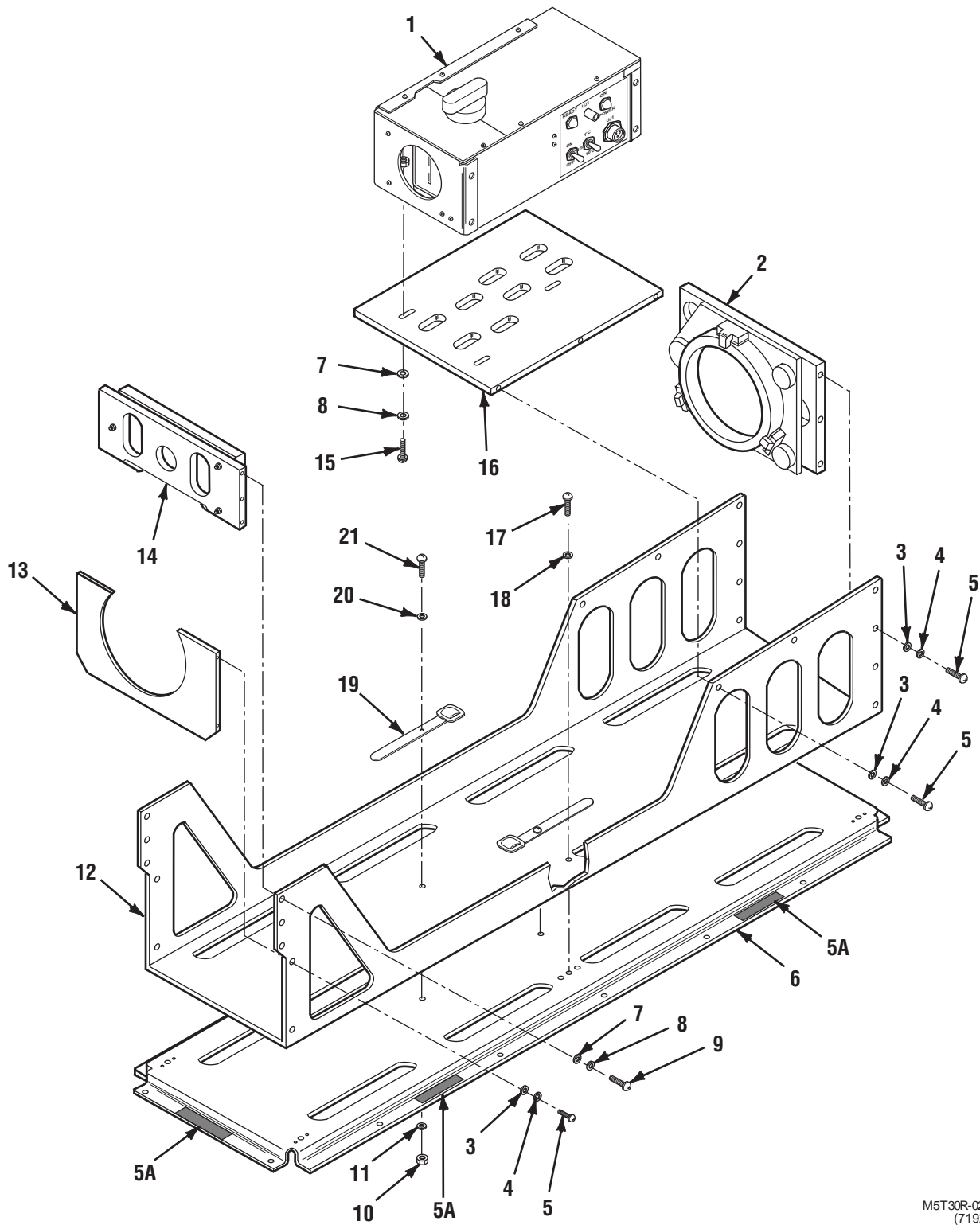


Figure 17. Group 04C and 07C Thermal Sight Collimator 12951545

GROUP 04C AND 07C THERMAL SIGHT COLLIMATOR 12951545 – CONTINUED

0190 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C AND 07C THERMAL SIGHT COLLIMATOR						
FIG. 17 THERMAL SIGHT COLLIMATOR 12951545						
1	XDOZZ		80063	SM-D-805111-1	CONTAINER, NO 1	1
2	PAOZZ	5340-01-455-5222	80063	SM-C-969726	PAD, CUSHIONING	2
3	PAOZZ	5310-00-208-3786	80205	NAS671C4	NUT, PLAIN, HEXAGON	2
* 4	PAOZZ	9905-01-073-9737	19207	12285280	PLATE, IDENTIFICATIO	1
5	PAOZZ	5310-01-440-3574	80205	NAS1149CN416B	WASHER, FLAT	2
6	XDOZZ	5305-00-716-5458	96906	MS51957-138	SCREW, MACHINE	2
7	PBOZZ	6625-01-439-5598	19200	12951496	SHROUD ASSEMBLY, COLLIMATOR	1
8	XDFDD		19200	12951548	COLLIMATOR ASSY SEE FIG. 18 FOR BREAKDOWN	1
9					DELETED	
10	PAOZZ	5995-01-421-3554	19200	12951547	CABLE ASSEMBLY, SPEC	1
* 11	PAOZZ	5995-01-485-3478	19200	12990368	CABLE ASSEMBLY, POWE	1
* 12	PAOZZ	5310-00-224-0740	80205	MS15795-807B	WASHER, FLAT	14
* 13	PAOZZ	5305-00-150-3425	96906	MS51957-46B	SCREW, MACHINE	14
END OF FIGURE						



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(7192)

Figure 18. Group 04C01 and 07C01 Collimator Assembly 12951548

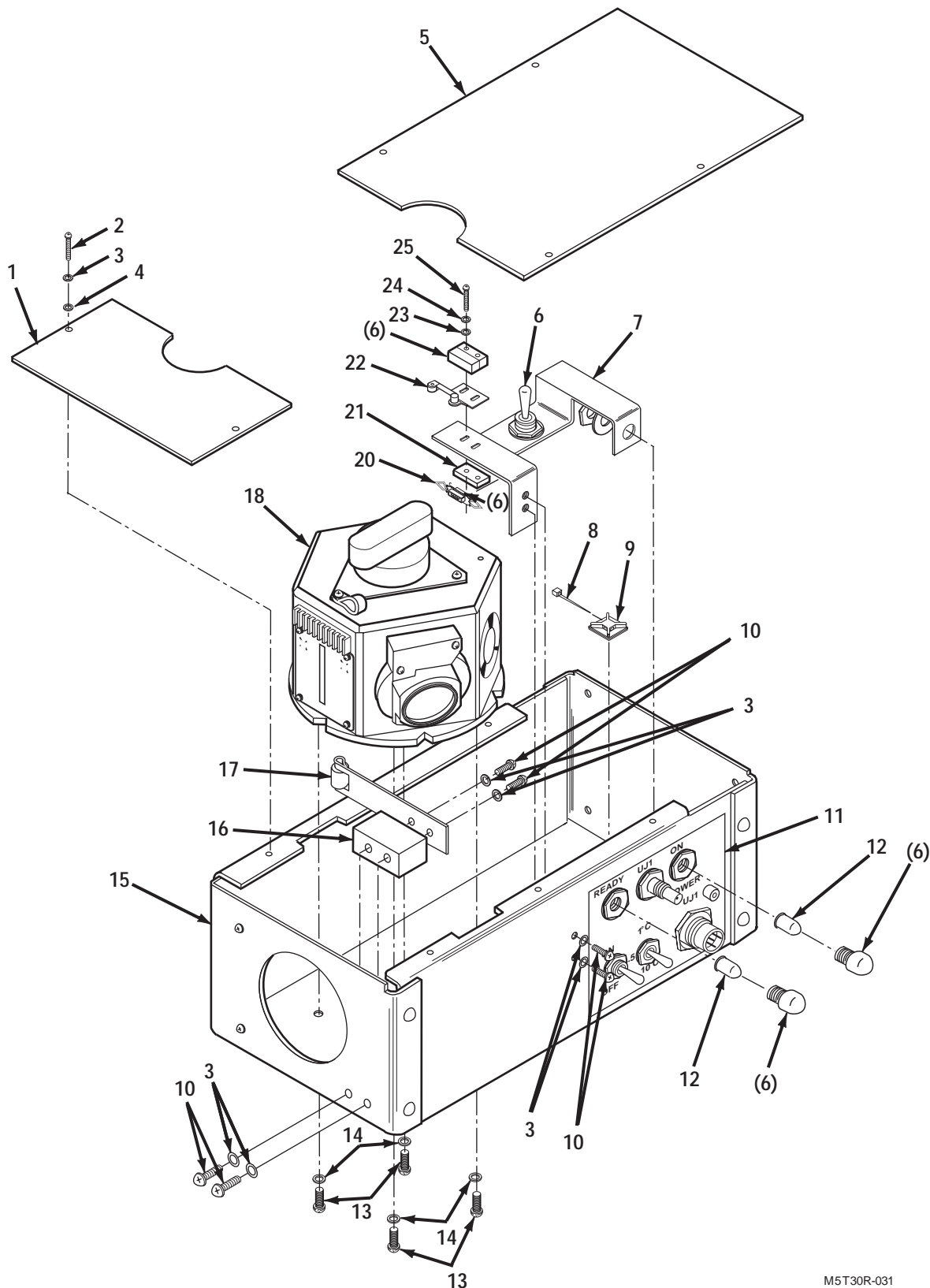
GROUP 04C01 AND 07C01 COLLIMATOR ASSEMBLY 12951548 – CONTINUED

0191 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C01 AND 07C01 COLLIMATOR ASSEMBLY						
FIG. 18 COLLIMATOR ASSEMBLY 12951548						
1	XDFFF		19200	12951546	TEMP CONTROLLER SEE FIG. 19 FOR BREAKDOWN	1
2	XDDDD		80063	SM-D-804956	MIRROR ASSY,COLIM SEE FIG. 24 FOR BREAKDOWN	1
3	PAFZZ	5310-00-224-0740	96906	MS15795-807B	WASHER,FLAT	16
4	PAFZZ	5310-00-224-0748	96906	MS35338-137B	WASHER,LOCK	16
5	PAFZZ	5305-00-433-3741	96906	MS51957-44B	SCREW,MACHINE	16
* 5A	PAOZZ	5340-01-441-1741	19200	12951683	PAD,CUSHIONING	6
6	XDDZZ		80063	SM-D-807200	PLATE,CHASSIS INTFC	1
7	PAFZZ	5310-00-194-3648	96906	MS15795-806B	WASHER,FLAT	9
8	PAFZZ	5310-00-224-0747	96906	MS35338-136B	WASHER,LOCK	9
9	PADZZ	5305-00-490-4581	96906	MS51957-29B	SCREW,MACHINE	6
10	PAOZZ	5310-00-982-4999	80205	MS21044C04	NUT,SELF-LOCKING,HE	2
11	PAOZZ	5310-00-687-6664	80205	MS15795-804B	WASHER,FLAT	2
12	XDDZZ		19200	12951549	CHASSIS,58 IN. COLL	1
13	XDFZZ		80063	SM-C-805665	PLATE,STOP	1
14	XDDDA		80063	SM-D-804945	MIRROR ASSY,FOLDING SEE FIG. 23 FOR BREAKDOWN	1
15	PAFZZ	5305-00-256-7282	80205	MS16995-19B	SCREW,CAP,SOCKET HE	3
16	XDDZZ		80063	SM-D-805663	PLATE,TEMP CONTROL	1
17	PAFZZ	5305-00-470-8664	96906	MS51958-80B	SCREW,MACHINE	6
18	PAFZZ	5310-00-470-3000	96906	MS15795-810B	WASHER,FLAT	6
19	PAOZZ	5340-01-260-1521	80063	SM-C-968334-1	STRAP,LINE SUPPORTI	2
20	PAOZZ	5310-01-258-8502	80063	SM-C-968335-1	WASHER,FLAT	2
21	PAOZZ	5305-00-433-3744	96906	MS51957-18B	SCREW,MACHINE	2
END OF FIGURE						

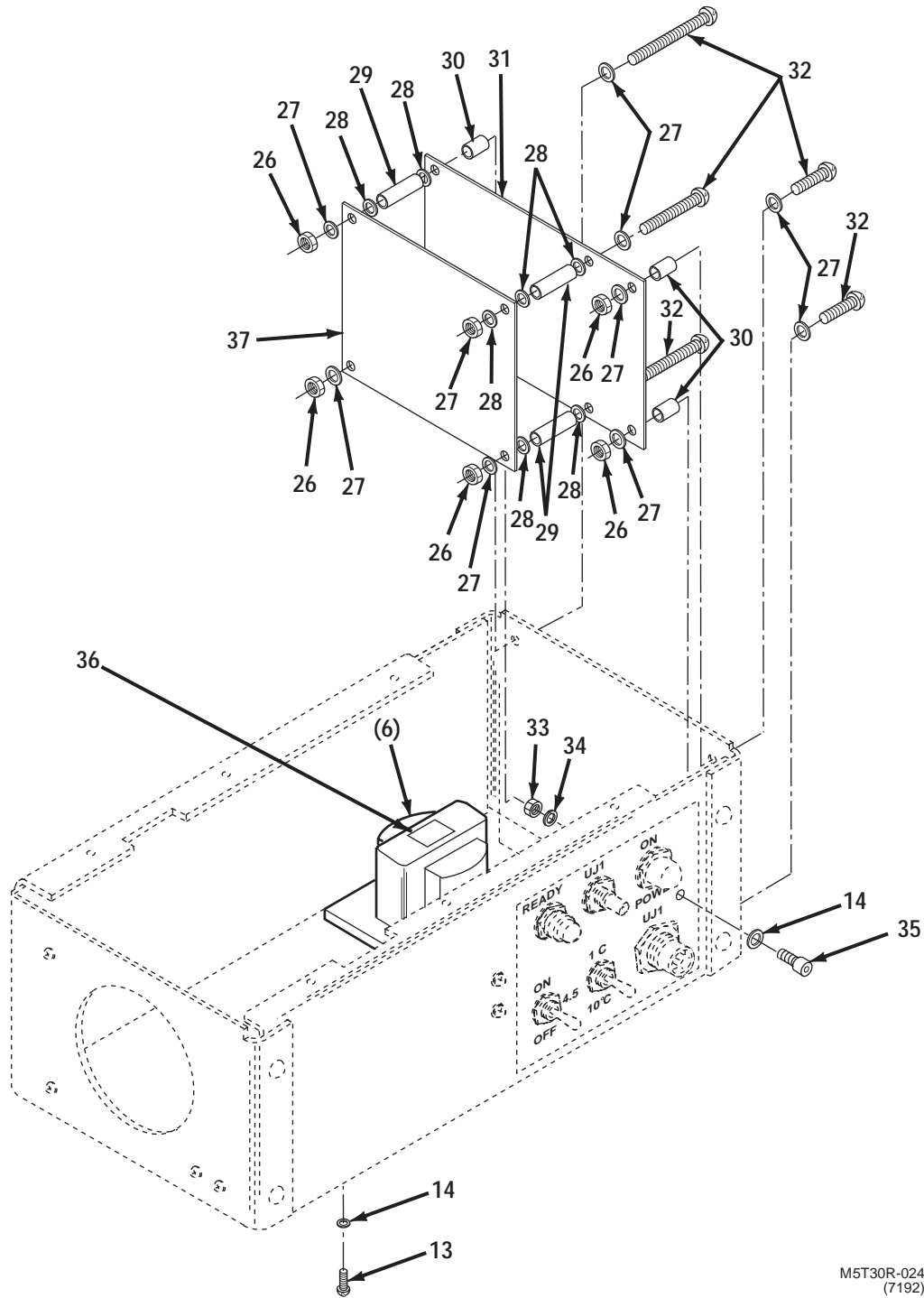
GROUP 04C0101 AND 07C0101 TEMPERATURE CONTROLLER
ASSEMBLY 12951546

0192 00



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Figure 19. Group 04C0101 and 07C0101 Temperature Controller Assembly 12951546 (Sheet 1 of 2)



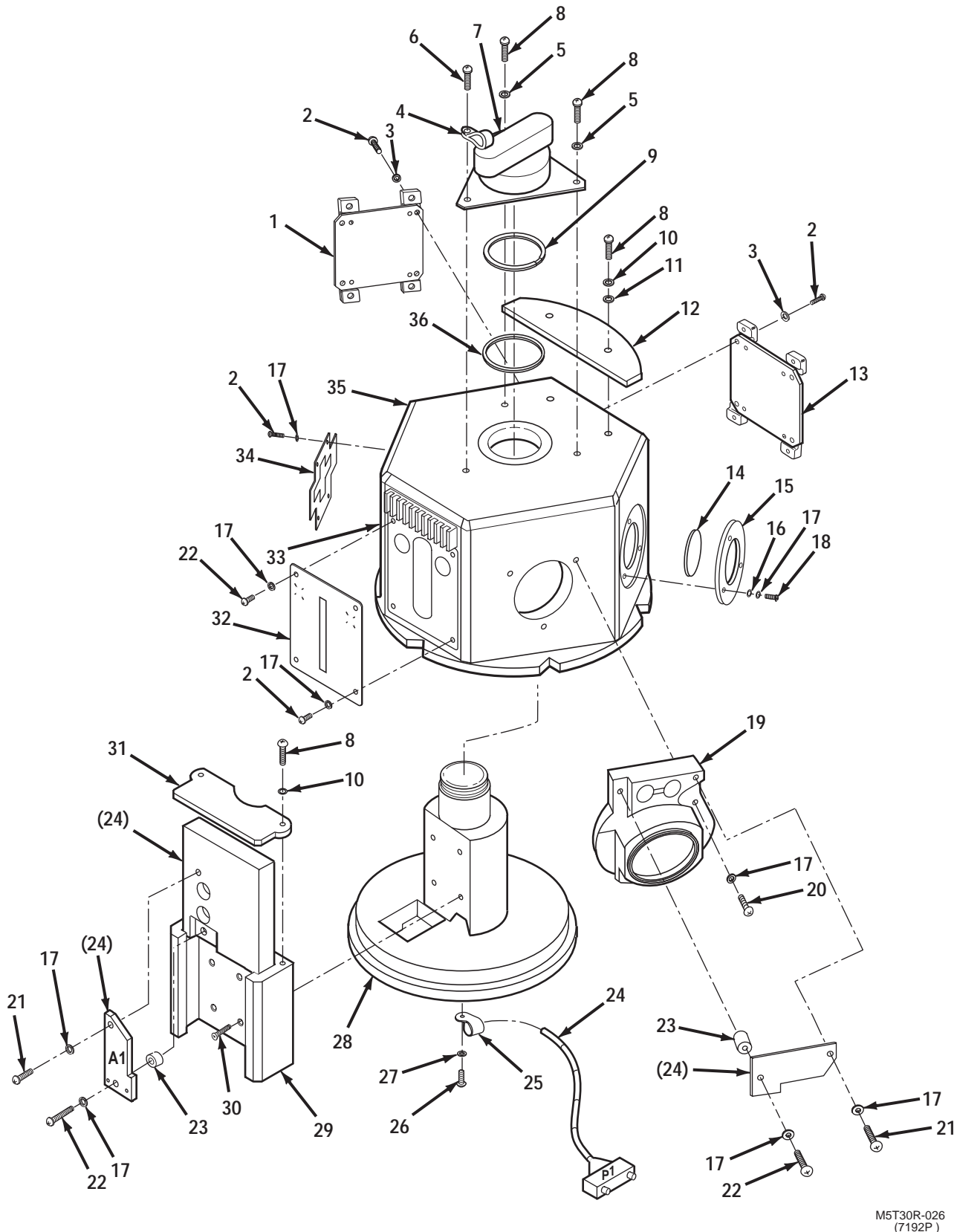
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Figure 19. Group 04C0101 and 07C0101 Temperature Controller Assembly 12951546 (Sheet 2 of 2)

**GROUP 04C0101 AND 07C0101 TEMPERATURE CONTROLLER
ASSEMBLY 12951546 – CONTINUED**

0192 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C0101 AND 07C0101 TEMPERATURE CONTROLLER ASSEMBLY						
FIG. 19 TEMPERATURE CONTROLLER ASSEMBLY 12951546						
1	XDFZZ		80063	SM-C-807142	COVER,LEFT	1
2	PAFZZ	5305-00-459-4687	96906	MS51957-14B	SCREW,MACHINE	6
3	PAFZZ	5310-01-408-7083	96906	MS35333-70B	WASHER,LOCK	12
4	PAFZZ	5310-01-409-0185	80205	NAS1149CN432B	WASHER,FLAT	6
5	XDDZZ		80063	SM-C-807130	COVER,RIGHT	1
* 6	PAFDD	6150-01-419-4978	19200	12951560	CABLE ASSEMBLY, W2 SEE FIG. 22 FOR BREAKDOWN	1
7	XDFZZ		19200	12951561	BRACKET,PWB,LAMP	1
8	PAFZZ	5975-00-727-5153	81343	MS3367-4-9	STRAP,TIEDOWN,ELECT	3
9	PAFZZ	5975-01-361-4845	18876	13457996	MOUNTING BASE,TIE D	2
10	PAFZZ	5305-00-494-7333	96906	MS51957-13B	SCREW,MACHINE	6
11	XDOZZ		19200	12951555	DECAL	1
12	PAOZZ	6240-01-103-3081	81349	M6363/8-6AS15	LAMP,INCANDESCENT	2
13	PAFZZ	5305-00-448-6547	96906	MS51957-27B	SCREW,MACHINE	8
14	PAFZZ	5310-01-408-7088	96906	MS35333-71B	WASHER,LOCK	11
15	XDDZZ		19200	12951552	CHASSIS	1
16	XDFZZ	5365-01-221-9180	80063	SM-C-805858	SPACER,PLATE	1
17	XDFZZ	5855-01-141-5190	80063	SM-C-807127	DETENT ASSY	1
18	PBFDD	6920-01-430-3514	19200	12951550	SPINDLE AND DRUM SEE FIG. 20 FOR BREAKDOWN	1
19					DELETED	
20	XDDZZ	5325-01-118-8671	19207	12301886-1	LOCKSPRING,TURNLOCK	2
21	PAFZZ	5310-01-431-8744	19200	12951684	NUT,PLAIN PLATE	1
22	XDFZZ		19200	12951558	BRACKET,SWITCH	1
23	PAFZZ	5310-00-043-4708	80205	NAS620C2	WASHER,FLAT	2
24	XDDZZ	5310-00-177-1301	96906	MS35338-134B	WASHER,LOCK	2
25	PADZZ	5305-00-324-8210	96906	MS51957-6B	SCREW,MACHINE	2
26	PAFZZ	5310-00-420-0737	96906	MS35649-284B	NUT,PLAIN,HEXAGON	6
27	PAFZZ	5310-01-195-0303	96906	MS35333-72B	WASHER,LOCK	16
28	PAFZA	5310-01-419-4523	96906	MS15795-845B	WASHER,FLAT	8
29	PAFZZ	5340-01-201-9078	80205	NAS1829C4G10	POST,ELECTRICAL-MEC	4
30	PAFZZ	5340-01-347-9722	80205	NAS1829C4G04	POST,ELECTRICAL-MEC	4
31	PAFDD	5998-01-419-4979	19200	12596963	CIRCUIT CARD ASSY FGC 04C010104 AND 07C010104	1
32	PAFZZ	5305-00-489-0742	96906	MS51957-41B	SCREW,MACHINE	6
33	PAFZZ	5310-00-616-8660	80205	NAS671C6	NUT,PLAIN,HEXAGON	1
34	PAFZZ	5310-00-929-6395	80205	MS35338-136	WASHER,LOCK	1
35	XDDZZ	5305-00-051-6751	80205	MS16995-16	SCREW,CAP,SOCKET HE	1
36	XDFZZ	7690-01-434-1605	80063	SM-C-968319-1	LABEL,WARNING	1
37	PAFDD	5998-01-419-4980	19200	12596960	CIRCUIT CARD ASSY FGC 04C010103 AND 07C010103	1
END OF FIGURE						



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Figure 20. Group 04C010101 and 07C010101 Spindle and Drum Assembly 12951550

GROUP 04C010101 AND 07C010101 SPINDLE AND DRUM
ASSEMBLY 12951550 – CONTINUED

0193 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 04C010101 AND 07C010101 SPINDLE AND DRUM ASSEMBLY							
FIG. 20 SPINDLE AND DRUM ASSEMBLY 12951550							
1	PAFZZ	6650-01-068-3687	80063	SM-C-807194	WINDOW,OPTICAL INST	1	
2	PAFZZ	5305-00-490-4580	96906	MS51957-3B	SCREW,MACHINE	18	
3	PAFZZ	5310-00-177-1301	96906	MS35338-134B	WASHER,LOCK	8	
4	PAFZZ	5340-01-421-9458	19207	12280055-2	STRAP,LINE SUPPORT	1	
5	PADZZ	5310-00-224-0746	96906	MS35338-135B	WASHER,LOCK	2	
6	PAFZZ	5305-00-465-6745	96906	MS51957-16B	SCREW,MACHINE	1	
7	XDFZZ		80063	SM-D-807155	KNOB,SELECT,TARGET	1	
8	PADZZ	5305-00-242-7275	96906	MS51957-15B	SCREW,MACHINE	2	
9	PAFZZ	5365-00-804-7651	96906	MS16624-4081	RING,RETAINING	1	
10	PADZZ	5310-01-408-7083	96906	MS35333-70B	WASHER,LOCK	4	
11	PAFZZ	5310-01-409-0185	80205	NAS1149CN432B	WASHER,FLAT	2	
12	XDFZZ	5930-01-221-9158	80063	SM-C-968336	ADAPTER,SWITCH ACTU	1	
13	PAFZF	5855-01-063-6174	80063	SM-C-807182	TARGET,THERMAL,VISI	1	
14	XDFZZ		19200	12981690	TARGET,DISK	1	
15	XDFZZ		80063	SM-C-807132	RETAINER,TARGET	1	
*	16	PAFZZ	5310-00-433-3599	80205	MS15795-802B	WASHER,FLAT	3
	17	PADZZ	5310-01-420-3002	96906	MS35333-69B	WASHER,LOCK	22
	18	PAFZZ	5305-00-182-9411	96906	MS51957-5B	SCREW,MACHINE	3
	19	PAFZZ	5855-01-063-6168	80063	SM-C-807128	CELL ASSEMBLY,OPTIC	1
	20	PAFZZ	5305-00-256-7471	96906	MS51957-7B	SCREW,MACHINE	3
	21	PADZZ	5305-00-224-0783	96906	MS51957-4B	SCREW,MACHINE	2
	22	PADZZ	5305-00-324-8210	96906	MS51957-6B	SCREW,MACHINE	4
	23	PADZZ	5365-00-097-4399	80063	SM-C-773868-1	SPACER,SLEEVE	2
*	24	PAFDD	6150-01-497-7253	19200	12951559	CABLE ASSEMBLY, W1 SEE FIG. 21 FOR BREAKDOWN	1
	25	PADZZ	5340-00-619-7754	80063	SM-C-772436-4	CLAMP,LOOP	1
	26	PADZZ	5305-00-448-6547	96906	MS51957-27B	SCREW,MACHINE	1
	27	XDDZZ	5310-01-408-7088	96906	MS35333-71B	WASHER,LOCK	1
	28	XDDZZ		80063	SM-D-807145	SPINDLE,DRUM,TARGET	1
	29	XDDZZ		80063	SM-C-807197	HOUSING,HEATER	1
	30	PADZZ	5305-00-455-2512	96906	MS51959-13B	SCREW,MACHINE	4
	31	XDDZZ		80063	SM-C-807131	COVER,HEATER	1
	32	PBFZZ	6920-01-433-0841	19200	12951563	TARGET,BAR	1
	33	XDDZZ	5999-01-443-8859	19200	12951564	HEATSINK,RTD	1
	34	PBFZZ	6920-01-433-0842	19200	12951562	TARGET,X	1
	35	XDDZZ		80063	SM-D-807144	DRUM,TARGET	1
	36	XDDZZ		80063	SM-C-773920-3	WASHER,SPRING	1
END OF FIGURE							

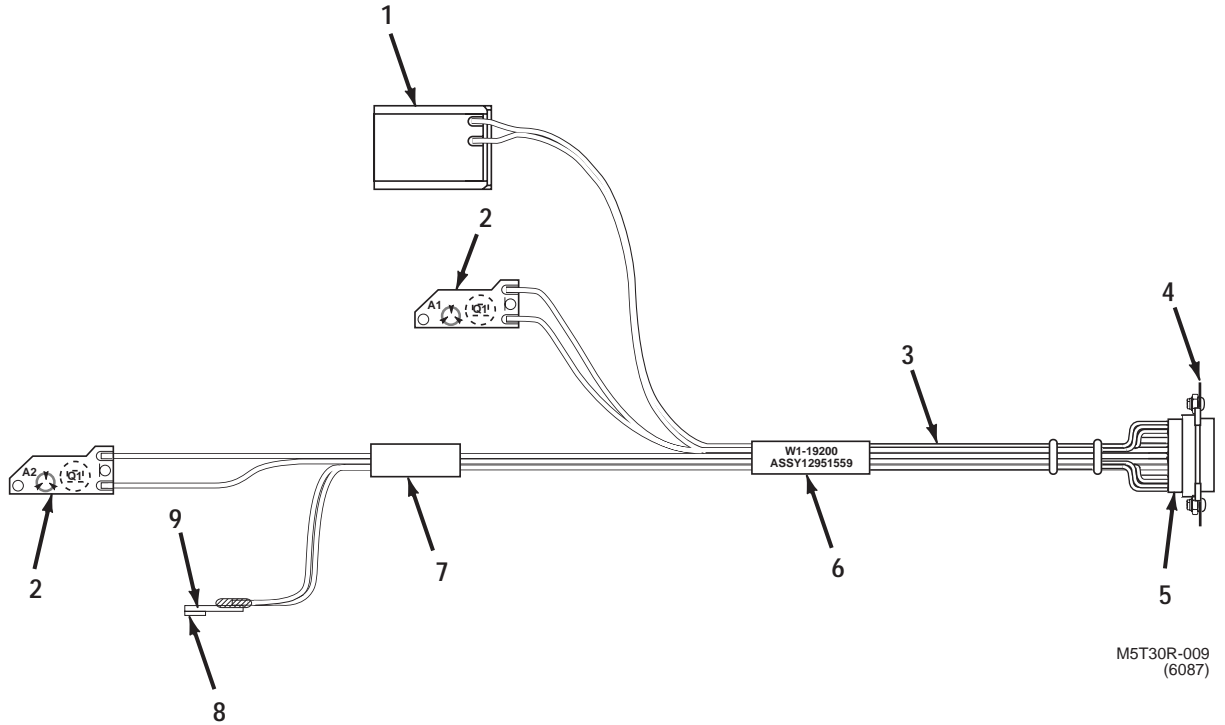
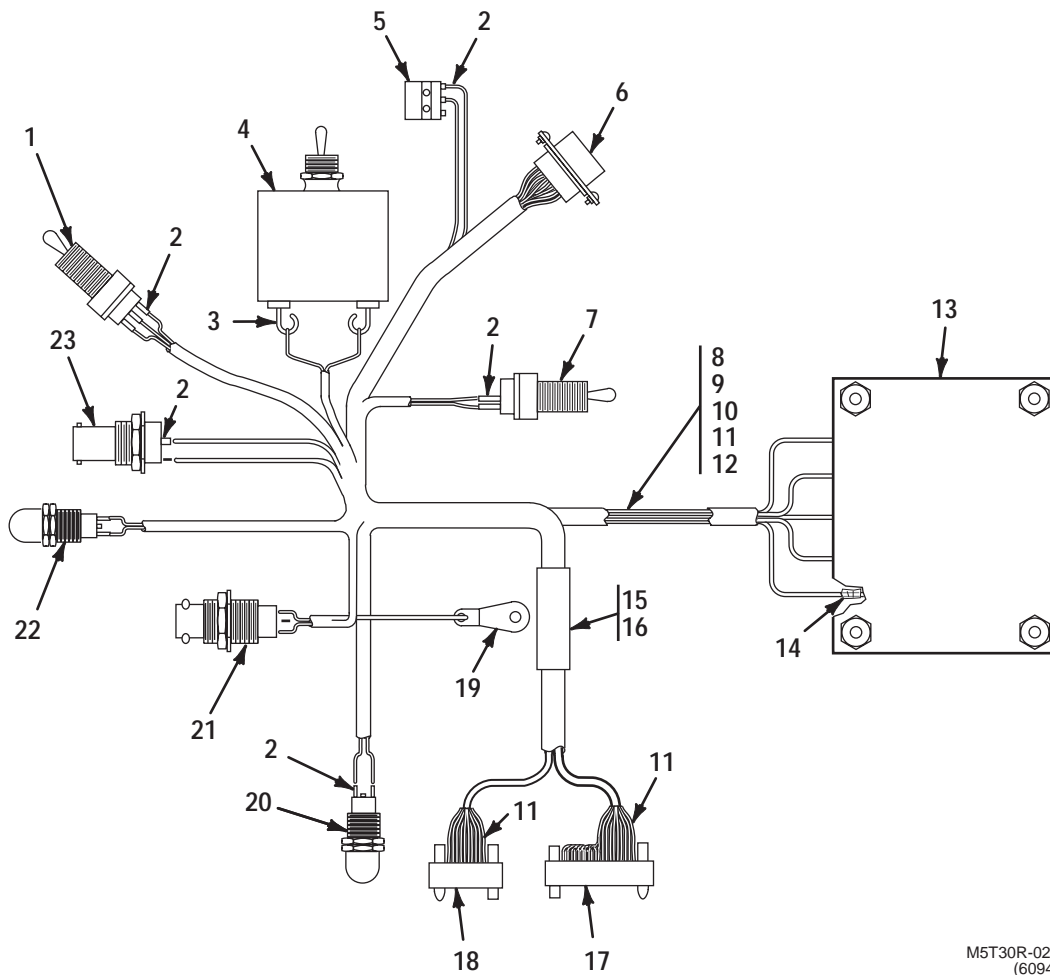


Figure 21. Group 04C01010101 and 07C01010101 Cable Assembly (W1) 12951559

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C01010101 AND 07C01010101 CABLE ASSEMBLY (W1)						
FIG. 21 CABLE ASSEMBLY (W1) 12951559						
1	PADZZ	5855-01-063-6186	80063	SM-D-807146	HEATING ELEMENT,ELE	1
2	PAFZZ	5998-01-442-2902	19200	12951551	CIRCUIT CARD ASSEMBLY, SENSOR,A2	2
3	MDDZZ	6145-01-115-2036	81349	M27500-22SB2U00	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-01-115-2036	V
4	XDDZZ	5340-01-118-8672	19207	12301886-2	PLATE,MOUNTING	2
5	XDDZZ		81349	M24308/4-1F	CONNECTOR	1
6	MDDZZ	5970-00-740-2971	81349	M23053/5-107-9	INSULATION SLEEVING MAKE FROM NSN 5970-00-740-2971	V
7	MDDZZ	5970-00-990-9912	81349	M23053/5-204-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-990-9912	V
8	XDDZZ		19200	12951616	THERMAL PAD	1
9	XDDZZ		19200	12951601	ELEMENT, RTD	1
END OF FIGURE						

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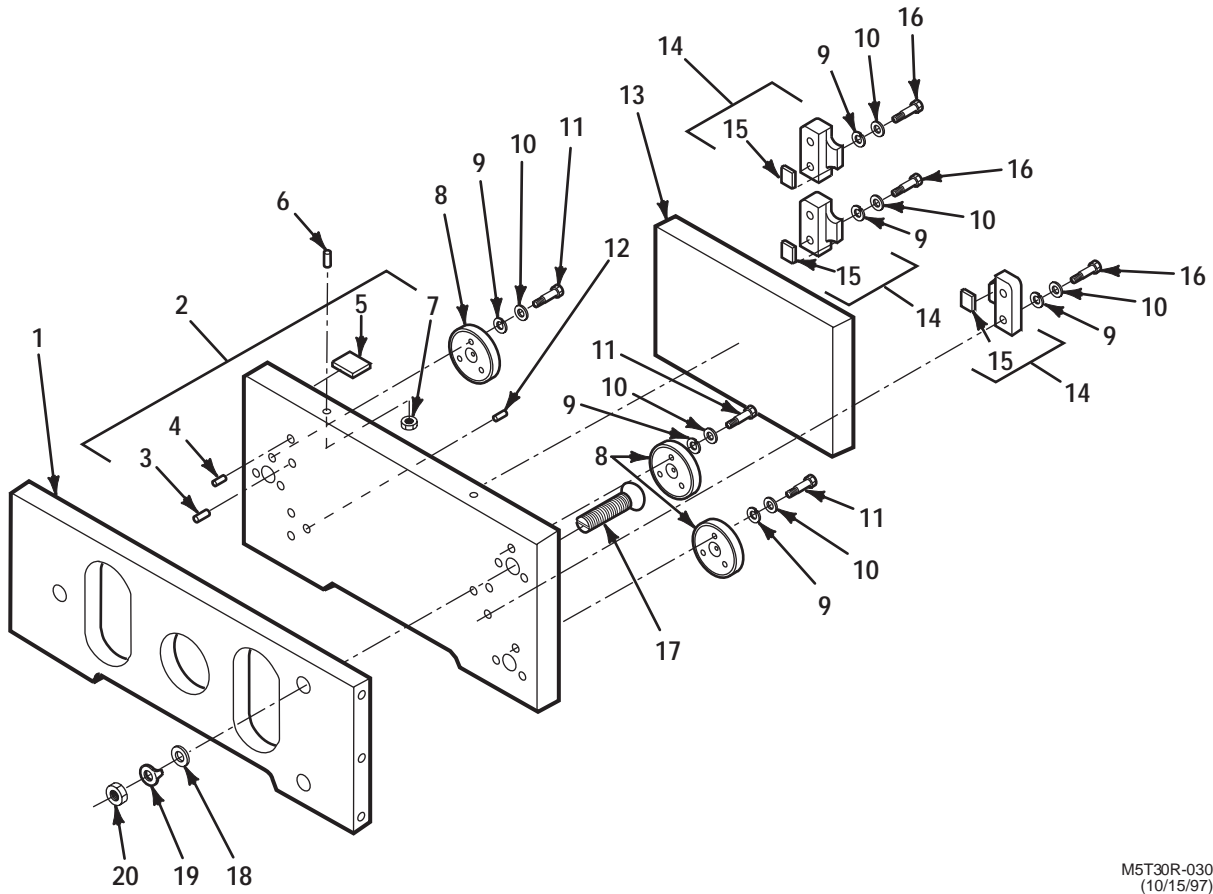
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Figure 22. Group 04C010102 and 07C010102 Cable Assembly (W2) 12951560

GROUP 04C010102 AND 07C010102 CABLE ASSEMBLY (W2) 12951560 – CONTINUED

0195 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C010102 AND 07C010102 CABLE ASSEMBLY (W2)						
FIG. 22 CABLE ASSEMBLY (W2) 12951560						
1	PAFZZ	5930-00-905-7807	96906	MS90310-211	SWITCH,TOGGLE	1
2	MDDZZ	5970-00-990-9912	81343	M23053/5-204-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-990-9912	V
* 3	MDDZZ	5970-00-767-0524	81343	M23053/5-206-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-767-0524	V
4	PAFZZ	5925-01-037-0466	81349	M39019/01-225	CIRCUIT BREAKER	1
5	PAFZZ	5930-00-403-8848	96906	MS24547-2	SWITCH,SENSITIVE	1
6	XDDZA	5935-01-282-2054	81349	M24308/2-1F	CONNECTOR,RECEPTACL P3	1
7	PAFZZ	5930-00-913-3641	96906	MS90310-221	SWITCH,TOGGLE S4	1
* 8	MDDZZ	6145-01-099-9118	81343	M22759/32-22-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-099-9118	V
9	MDDZZ	6145-01-115-2036	81349	M27500-22SB2U00	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-01-115-2036	V
10	MDDZZ	6145-01-225-2210	81349	M27500-24SB2U00	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-01-225-2210	V
11	MDDZZ	5970-01-327-1155	81343	M23053/5-203-C	INSULATION SLEEVING MAKE FROM NSN 5970-01-327-1155	V
12	MDDZZ	6145-01-112-9285	81349	M27500-22SB3U00	CABLE,SPECIAL PURPO MAKE FROM NSN 6145-01-112-9285	V
13	PAFZZ	5950-01-063-6190	80063	SM-D-806034-1	TRANSFORMER,POWER	1
14	MDDZZ	5970-00-767-0515	81343	M23053/5-205-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-767-0515	V
15	MDDZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING MAKE FROM NSN 5970-00-812-2967, OPTIONAL WITH P/N M23053/5-208-0	V
16	MDDZZ	5970-00-871-5779	81343	M23053/5-208-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-871-5779, OPTIONAL WITH P/N M23053/5-108-0	V
17	XDDZA	5935-01-264-2839	81349	M55302/63-A20H	CONNECTOR,PLUG,ELEC	1
18	XDDZZ		81349	M55302/62LA10H	CONNECTOR,	1
19	XDDZZ	5940-00-816-6103	96906	MS77066-2	TERMINAL,LUG	1
20	PAFZZ	6210-00-617-0938	80063	SM-C-806462-3	LIGHT,INDICATOR, DS2	1
21	PAFZZ	5935-01-176-8988	96906	MS3474W12-3P	CONNECTOR,RECEPTACL, J1	1
22	PAFZZ	6210-00-519-0845	80063	SM-C-806462-2	LIGHT,INDICATOR, DS1	1
23	PAFZA	5935-01-209-6591	19200	9358313	CONNECTOR,RECEPTACL	1
END OF FIGURE						



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(10/15/97)

Figure 23. Group 04C0102 and 07C0102 Folding Mirror Assembly SM-D-804945

GROUP 04C0102 AND 07C0102 FOLDING MIRROR ASSEMBLY SM-D-804945 – CONTINUED

0196 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C0102 AND 07C0102 FOLDING MIRROR ASSEMBLY						
FIG. 23 FOLDING MIRROR ASSEMBLY SM-D-804945						
1	XDDZZ	5855-01-218-3733	80063	SM-D-804954	PLATE,BACKING	1
2	XDDZZ	5855-01-218-3734	80063	SM-D-804947	PLATE,RETAINING	1
3	XDDZZ	5340-00-843-0003	96906	MS122078	INSERT,SCREW THREAD	3
4	PADZZ	5340-00-815-4930	96906	MS21209C0615	INSERT,SCREW THREAD	6
5	XDDZZ		80063	SM-C-804949	PAD,SIDE FOLD MIRR	2
6	PADZZ	5305-01-063-6304	80063	SM-C-773929-7	SETSCREW	2
7	XDDZZ	5340-01-063-6310	80063	SM-C-804953	CAP,PROTECTIVE,DUST	2
8	XDDZZ	5855-01-212-1623	80063	SM-D-804952	CAP,SPHERICAL HEAD	3
* 9	XDDZZ	5310-00-409-1763	80205	MS15795-805B	WASHER,FLAT	15
10	PADZZ	5310-00-224-0747	96906	MS35338-136B	WASHER,LOCK	15
11	PADZZ	5305-00-145-0713	80205	MS16995-18B	SCREW,CAP,SOCKET HE	9
12	PADZZ	5305-00-807-7975	80063	SM-C-772442-2	SETSCREW	3
13	PADZZ	9340-01-063-6192	80063	SM-D-804946	MIRROR,FOLDING	1
14	XDDDD		80063	SM-C-804950	RETAINER,FOLD MIRR	3
15	XDDZZ		80063	SM-C-804951	PAD,RETAINER	1
16	PADZZ	5305-00-256-7282	80205	MS16995-19B	SCREW,CAP,SOCKET HE	6
17	PADZZ	5305-01-063-6191	80063	SM-C-804955	SCREW,SPHERICAL,HEA	3
18	XDDZZ		96906	MS15795-810	WASHER,FLAT	3
19	XDDZZ	5310-00-933-8121	80205	MS35338-139	WASHER,LOCK	3
20	XDDZZ	5310-00-905-1691	96906	MS51972-1	NUT,PLAIN,HEXAGON	3
END OF FIGURE						

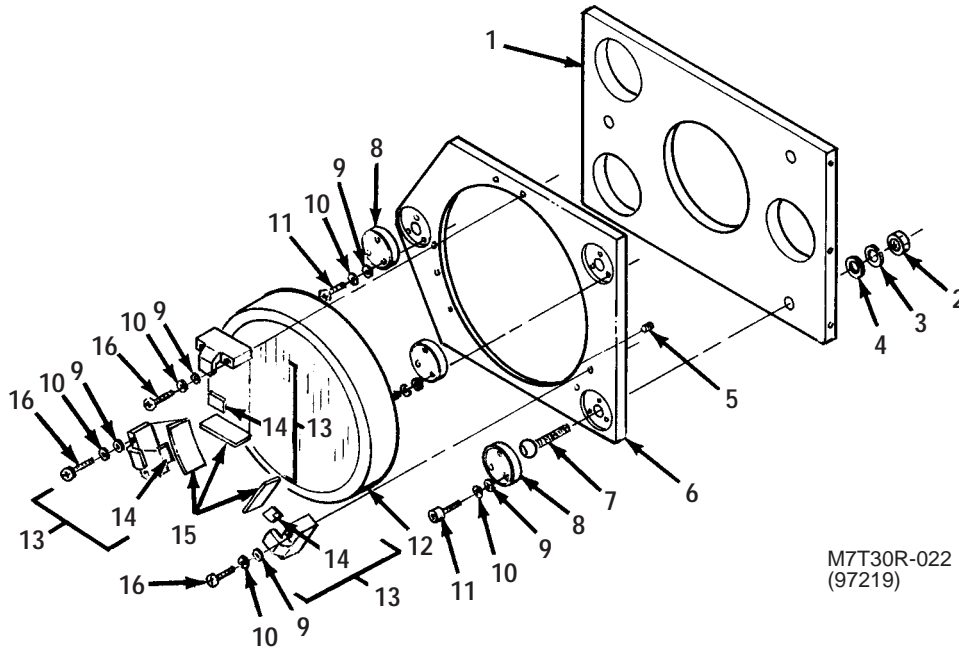


Figure 24. Group 04C0103 and 07C0103 Collimator Mirror Assembly SM-D-804956

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04C0103 AND 07C0103 COLLIMATOR MIRROR ASSEMBLY						
FIG. 24 COLLIMATOR MIRROR ASSEMBLY SM-D-804956						
1	XDDZZ	5855-01-218-3735	80063	SM-D-805662	PLATE, BACKING	1
2	XDDZZ	5310-00-905-1691	96906	MS51972-1	NUT, PLAIN, HEXAGON	3
3	XDDZZ	5310-00-933-8121	80205	MS35338-139	WASHER, LOCK	3
4	XDDZZ		96906	MS15795-810	WASHER, FLAT	3
5	PADZZ	5305-00-807-7975	80063	SM-C-772442-2	SETSCREW	3
6	XDDZZ		80063	SM-D-805658	PLATE, RTNR COLL MIR	1
7	PADZZ	5305-01-063-6191	80063	SM-C-804955	SCREW, SPHERICAL, HEA	3
8	XDDZZ	5855-01-212-1623	80063	SM-D-804952	CAP, SPHERICAL HEAD	3
9	XDDZZ	5310-00-409-1763	80205	MS15795-805B	WASHER, FLAT	15
10	PADZZ	5310-00-224-0747	96906	MS35338-136B	WASHER, LOCK	15
11	PADZZ	5305-00-145-0713	80205	MS16995-18B	SCREW, CAP, SOCKET HE	9
12	PADZZ	6650-01-063-6127	80063	SM-D-804957	MIRROR, OPTICAL INST	1
13	XDDDD		80063	SM-D-805659	RETAINER, COLL MIR	3
14	XDDZZ	5340-01-439-7286	80063	SM-C-805660	PAD, RET, COLL, MIRROR	1
15	XDDZZ	5340-01-439-8888	80063	SM-C-805661	PAD, COLLIMATING MIR	1
16	PADZZ	5305-00-150-3426	96906	MS51957-33B	SCREW, MACHINE	6
END OF FIGURE						

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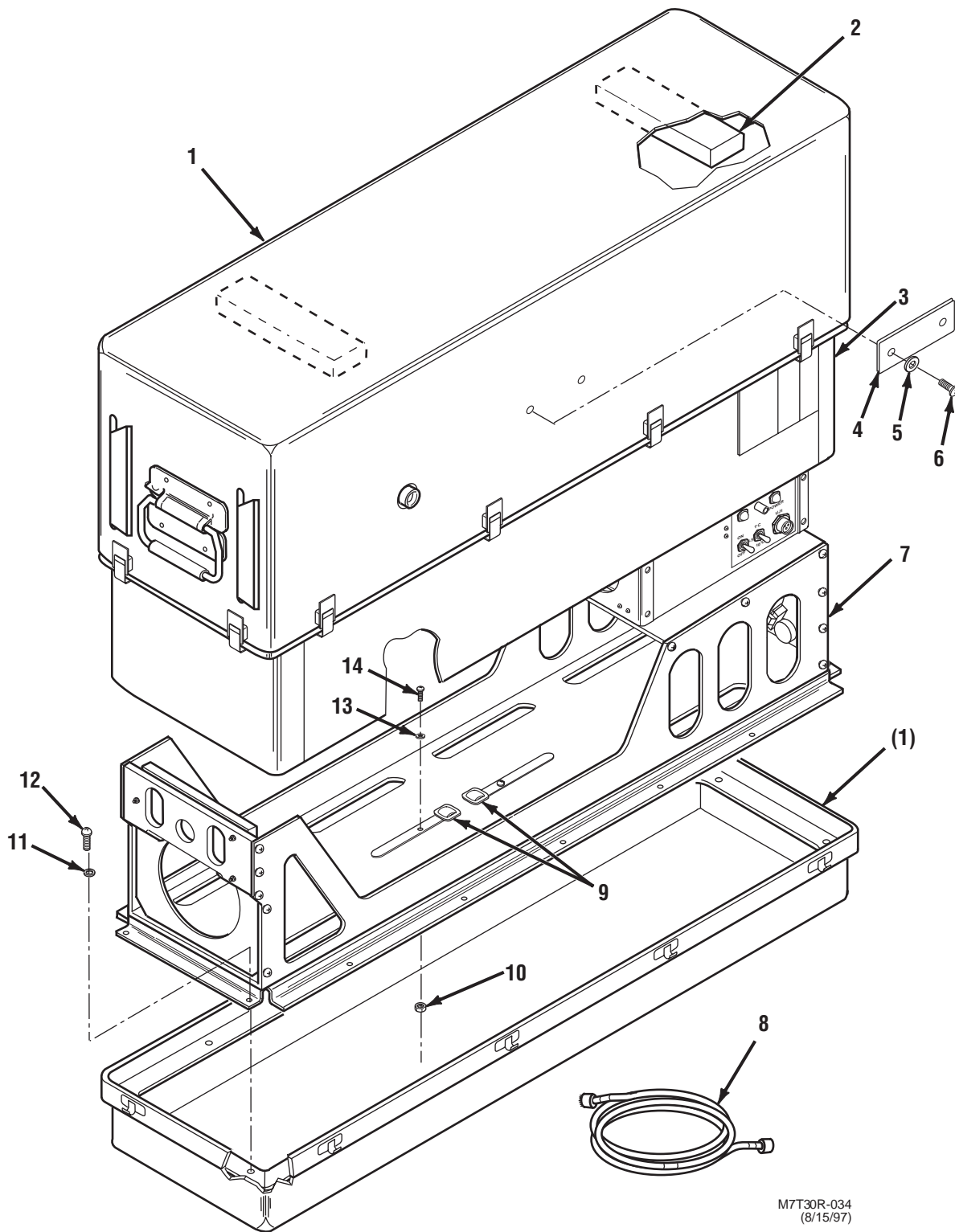
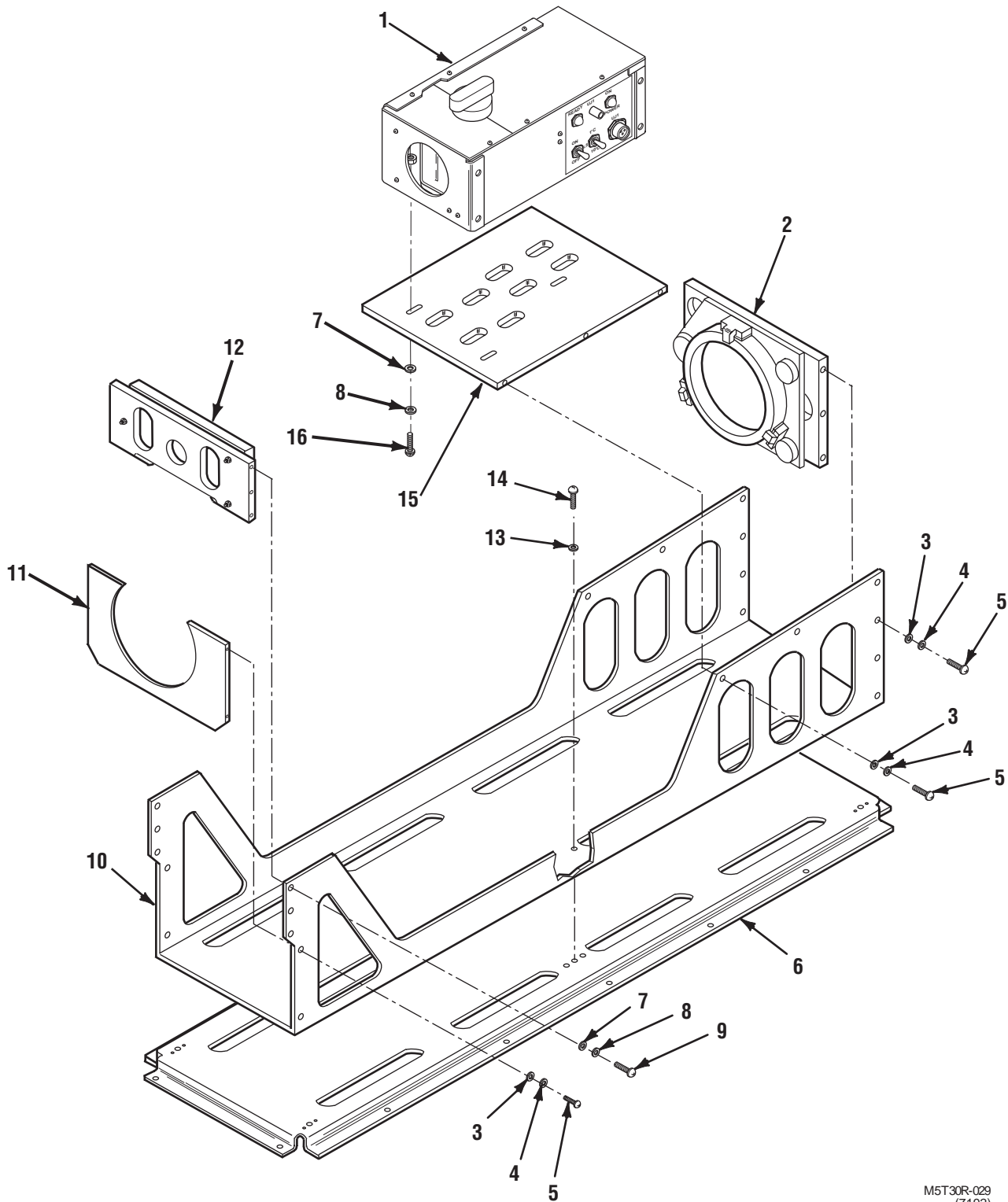


Figure 25. Group 04D Infrared Collimator SM-D-969722

GROUP 04D INFRARED COLLIMATOR SM-D-969722 – CONTINUED

0198 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D INFRARED COLLIMATOR						
FIG. 25 INFRARED COLLIMATOR SM-D-969722						
1	XDOZZ		80063	SM-D-805111-1	CONTAINER, NO 1	1
2	PAOZZ	5340-01-455-5222	80063	SM-C-969726	PAD, CUSHIONING	2
3	PBOZZ	6625-01-317-5433	19200	12927309	COVER, ELECTRICAL, COLLIMATOR	1
4	XDOZZ		80063	SM-C-807513-1	PLATE, ID	1
5	PAOZZ	5310-00-224-0746	96906	MS35338-135B	WASHER, LOCK	2
6	PAOZZ	5305-00-494-7333	96906	MS51957-13B	SCREW, MACHINE	2
7	XDFDD		80063	SM-D-805110	COLLIMATOR ASSY SEE FIG. 26 FOR PARTS BREAKDOWN	1
8	PAOZF	5995-01-134-2148	80063	SM-C-807178	CABLE ASSEMBLY, POWE	1
9	PAOZZ	5340-01-260-1521	80063	SM-C-968334-1	STRAP, LINE SUPPORTI	2
* 10	PAOZZ	5310-00-982-4999	80205	MS21044C04	NUT, SELF-LOCKING, HE	2
* 11	PAOZZ	5310-00-224-0740	80205	MS15795-807B	WASHER, FLAT	14
12	PAOZZ	5305-00-150-3425	96906	MS51957-46B	SCREW, MACHINE	14
13	PAOZZ	5310-01-258-8502	80063	SM-C-968335-1	WASHER, FLAT	2
14	PAOZZ	5305-00-433-3744	96906	MS51957-18B	SCREW, MACHINE	2
END OF FIGURE						



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(7192)

Figure 26. Group 04D01 Collimator Assembly SM-D-805110

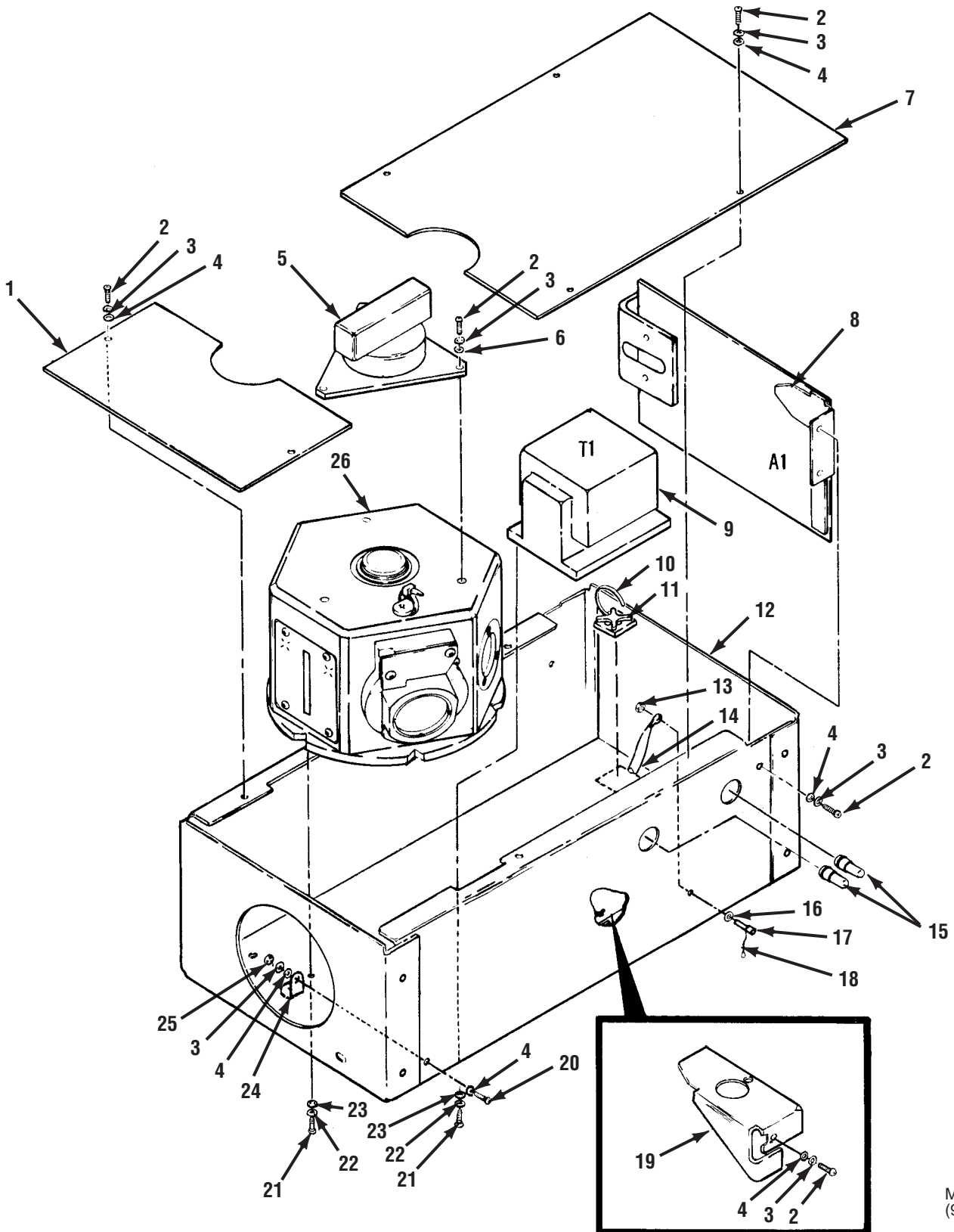
GROUP 04D01 COLLIMATOR ASSEMBLY SM-D-805110 – CONTINUED

0199 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D01 COLLIMATOR ASSEMBLY						
FIG. 26 COLLIMATOR ASSEMBLY SM-D-805110						
	1		80063	SM-D-808663	TEMP CONTROLLER ASY SEE FIG. 27 FOR BREAKDOWN	1
	2		80063	SM-D-804956	MIRROR ASSY,COLIM SEE FIG. 31 FOR BREAKDOWN	1
*	3	5310-00-224-0740	80205	MS15795-807B	WASHER,FLAT	16
	4	5310-00-224-0748	96906	MS35338-137B	WASHER,LOCK	16
	5	5305-00-433-3741	96906	MS51957-44B	SCREW,MACHINE	16
	6		80063	SM-D-807200	PLATE,CHASSIS INTFC	1
*	7	5310-00-194-3648	80205	MS15795-806B	WASHER,FLAT	9
	8	5310-00-224-0747	96906	MS35338-136B	WASHER,LOCK	9
	9	5305-00-490-4581	96906	MS51957-29B	SCREW,MACHINE	6
	10		80063	SM-D-804944	CHASSIS,58 IN. COLL	1
	11		80063	SM-C-805665	PLATE,STOP	1
	12		80063	SM-D-804945	MIRROR ASSY,FOLDING SEE FIG. 30 FOR BREAKDOWN	1
*	13	5310-00-470-3000	80205	MS15795-810B	WASHER,FLAT	6
	14	5305-00-470-8664	96906	MS51958-80B	SCREW,MACHINE	6
	15		80063	SM-D-805663	PLATE,TEMP CONTROL	1
	16	5305-00-256-7282	80205	MS16995-19B	SCREW,CAP,SOCKET HE	3
END OF FIGURE						

GROUP 04D0101 TEMPERATURE CONTROLLER ASSEMBLY
SM-D-808663

0200 00



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(97219)

Figure 27. Group 04D0101 Temperature Controller Assembly SM-D-808663 (Sheet 1 of 2)

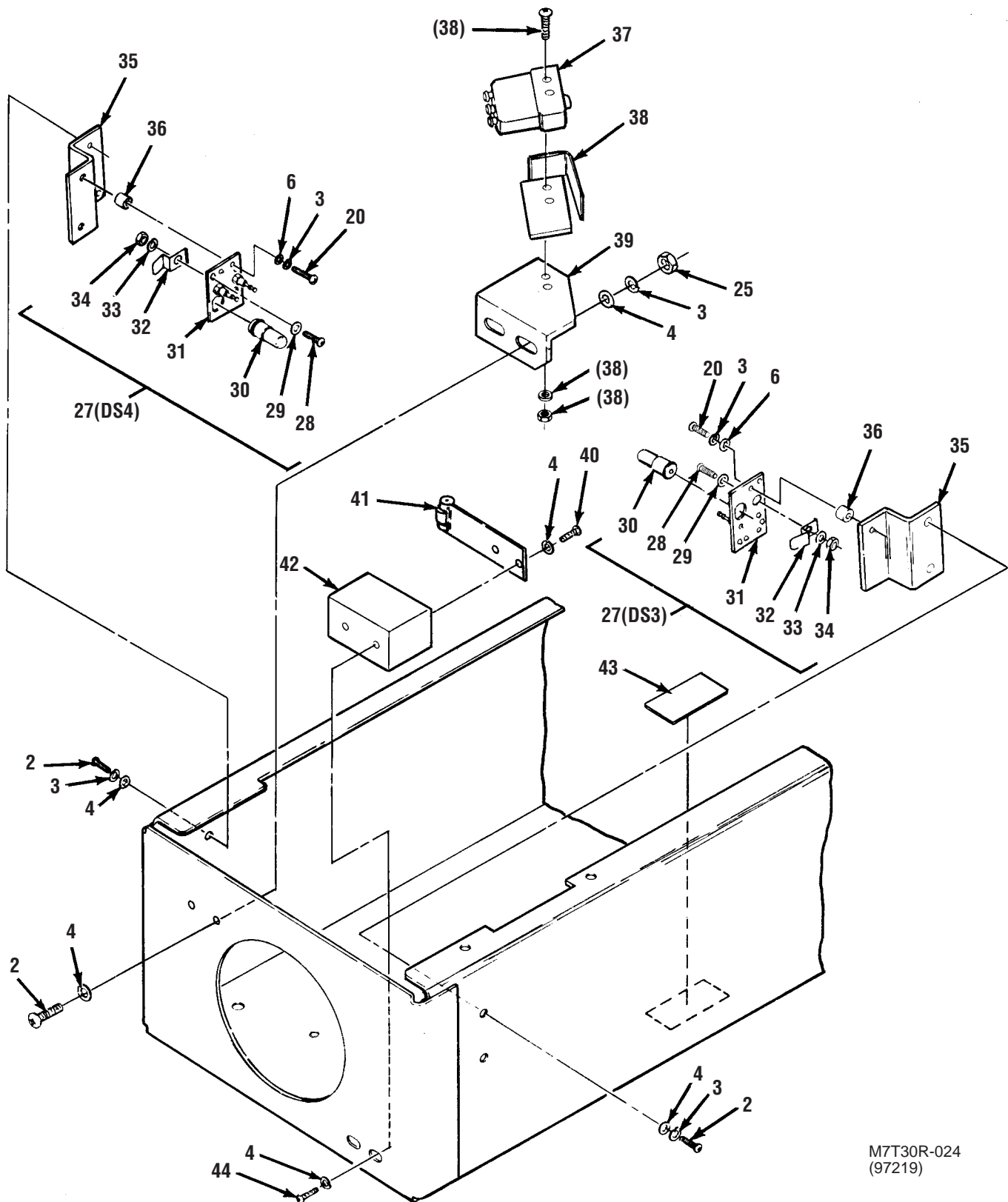


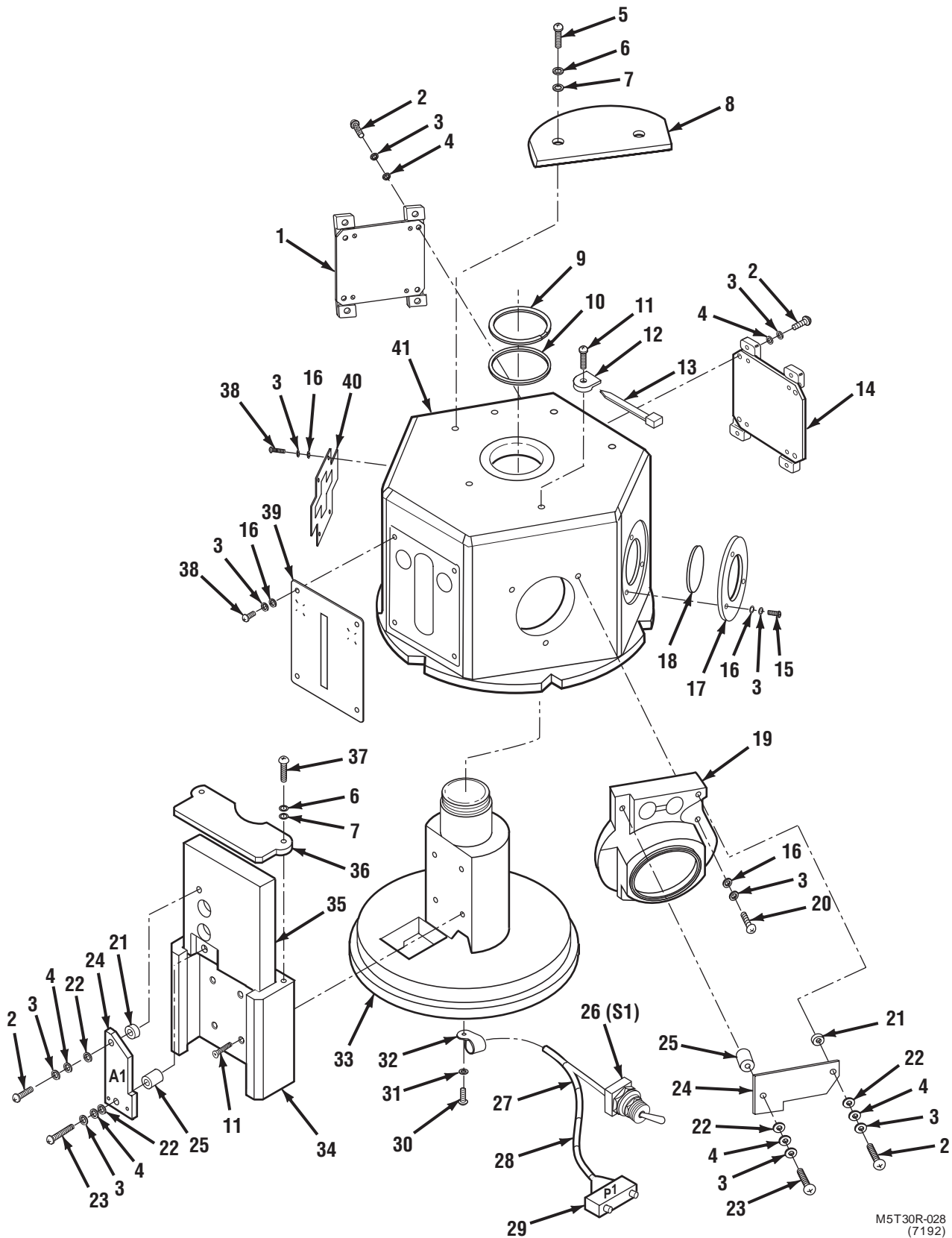
Figure 27. Group 04D0101 Temperature Controller Assembly SM-D-808663 (Sheet 2 of 2)

GROUP 04D0101 TEMPERATURE CONTROLLER ASSEMBLY
SM-D-808663 – CONTINUED

0200 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D0101 TEMPERATURE CONTROLLER ASSEMBLY						
FIG. 27 TEMPERATURE CONTROLLER ASSEMBLY SM-D-808663						
1	XDFZZ		80063	SM-C-807142	COVER,LEFT	1
2	PAFZZ	5305-00-242-7275	96906	MS51957-15B	SCREW,MACHINE	19
3	PAFZZ	5310-00-224-0746	96906	MS35338-135B	WASHER,LOCK	26
4	PAFZZ	5310-00-687-6664	80205	MS15795-804B	WASHER,FLAT	30
5	XDFZZ		80063	SM-D-807155	KNOB,SELECT,TARGET	1
6	PAFZZ	5310-00-057-0573	80205	NAS620C4	WASHER,FLAT	7
7	XDDZZ		80063	SM-C-807130	COVER,RIGHT	1
8	PAFDD	5999-01-109-6689	80063	SM-D-808662	CIRCUIT CARD ASSEMB, A1 FGC 04D010101	1
9	PBFZZ	5950-01-063-6190	80063	SM-D-806034-1	TRANSFORMER,POWER	1
10	PAFZZ	5975-00-727-5153	81343	MS3367-4-9	STRAP,TIEDOWN,ELECT	3
11	PAFZZ	5975-01-149-8627	80063	SM-C-806052-2	MOUNTING BASE,TIEDO	1
12	XDDZZ		80063	SM-D-807147	CHASSIS	1
13	PAFZZ	5310-00-616-8660	80205	NAS671C6	NUT,PLAIN,HEXAGON	1
14	XDFFF		80063	SM-D-807169	WIRING HARNESS SEE FIG. 29 FOR BREAKDOWN	1
15	PAFZZ	6240-00-155-7836	96906	MS25237-327	LAMP,INCANDESCENT	2
16	PAFZZ	5310-00-929-6395	80205	MS35338-136	WASHER,LOCK	1
17	PAFZZ	5305-00-957-2690	96906	MS24674-1	SCREW,CAP,SOCKET HE	1
18	PAFZZ	9505-00-293-4208	80205	MS20995C32	WIRE,NONELECTRICAL	1
19	XDFZZ		80063	SM-C-807140	BRACKET,SWITCH	1
20	PAFZZ	5305-00-465-6745	96906	MS51957-16B	SCREW,MACHINE	7
21	PAFZZ	5305-00-448-6547	96906	MS51957-27B	SCREW,MACHINE	8
22	PAFZZ	5310-00-224-0747	96906	MS35338-136B	WASHER,LOCK	8
23	PAFZZ	5310-00-773-7624	80205	NAS620C6	WASHER,FLAT	8
24	PAFZZ	5340-00-985-6633	42498	C15109-8	CLAMP,LOOP	3
25	PAFZZ	5310-00-158-5259	96906	MS35649-244B	NUT,PLAIN,HEXAGON	5
26	XDFDD	5855-01-259-6897	80063	SM-D-807126	SPINDLE AND DRUM AS SEE FIG. 28 FOR BREAKDOWN	1
27	XDFFF		80063	SM-C-807159	VISIBLE LAMP ASSY FGC 04D010103	2
28	PAFZZ	5305-00-054-5637	96906	MS51957-3	SCREW,MACHINE	1
29	PAFZZ	5310-00-595-6761	80205	MS15795-802	WASHER,FLAT	1
30	PAFZZ	6240-00-155-7836	96906	MS25237-327	LAMP,INCANDESCENT	1
31	XDFZZ		80063	SM-D-807158	PWB,VSB LAMP ASSY	1
32	PAFZZ	5999-01-063-6189	80063	SM-C-807133	CONTACT,ELECTRICAL	1
33	PAFZZ	5310-00-928-2690	80205	MS35338-134	WASHER,LOCK	1
34	PAFZZ	5310-00-938-2013	80205	MS35649-224	NUT,PLAIN,HEXAGON	1
35	XDFZZ		80063	SM-C-807134	BRACKET,PWB,LAMP	1
36	XDFZZ		80063	SM-C-773868-3	SPACER,SLEEVE-NYLON	4
37	PAFZZ	5930-00-403-8848	96906	MS24547-2	SWITCH,SENSITIVE	1
38	PAFZZ	5930-00-823-0853	80063	SM-C-805997-1	ADAPTER,SWITCH ACTU	1
39	XDFZZ		80063	SM-C-968337	BRACKET,SWITCH	1
40	PAFZZ	5305-00-494-7333	96906	MS51957-13B	SCREW,MACHINE	6
41	XDFZZ	5855-01-141-5190	80063	SM-C-807127	DETENT ASSY	1
42	XDFZZ	5365-01-221-9180	80063	SM-C-805858	SPACER,PLATE	1
43	XDFZZ	7690-01-434-1605	80063	SM-C-968319-1	LABEL,WARNING	1
44	PAFZZ	5305-00-459-4687	96906	MS51957-14B	SCREW,MACHINE	6
END OF FIGURE						

*



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Figure 28. Group 04D010102 Spindle and Drum Assembly SM-D-807126

GROUP 04D010102 SPINDLE AND DRUM ASSEMBLY SM-D-807126 – CONTINUED

0201 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D010102 SPINDLE AND DRUM ASSEMBLY						
FIG. 28 SPINDLE AND DRUM ASSEMBLY SM-D-807126						
1	PAFZZ	6650-01-068-3687	80063	SM-C-807194	WINDOW,OPTICAL INST	1
2	PADZZ	5305-00-224-0783	96906	MS51957-4B	SCREW,MACHINE	10
3	PAFZZ	5310-00-177-1301	96906	MS35338-134B	WASHER,LOCK	30
4	PADZZ	5310-00-043-4708	80205	NAS620C2	WASHER,FLAT	12
5	PAFZZ	5305-00-465-6745	96906	MS51957-16B	SCREW,MACHINE	2
6	PADZZ	5310-00-224-0746	96906	MS35338-135B	WASHER,LOCK	4
7	PADZZ	5310-00-687-6664	80205	MS15795-804B	WASHER,FLAT	4
8	XDFZZ	5930-01-221-9158	80063	SM-C-968336	ADAPTER,SWITCH ACTU	1
9	PAFZZ	5365-00-804-7651	96906	MS16624-4081	RING,RETAINING	1
10	XDDZZ		80063	SM-C-773920-3	WASHER,SPRING	1
11	PADZZ	5305-00-455-2512	96906	MS51959-13B	SCREW,MACHINE	5
12	XDDZZ	5975-00-060-9488	80063	SM-C-804715-1	MOUNTING BASE,TIEDO	1
13	PAFZZ	5975-00-727-5153	81343	MS3367-4-9	STRAP,TIEDOWN,ELECT	1
14	PAFZF	5855-01-063-6174	80063	SM-C-807182	TARGET,THERMAL,VISI	1
15	PAFZZ	5305-00-182-9411	96906	MS51957-5B	SCREW,MACHINE	3
16	PAFZZ	5310-00-433-3599	80205	MS15795-802B	WASHER,FLAT	18
17	XDFZZ		80063	SM-C-807132	RETAINER,TARGET	1
18	XDFZZ		19200	12981690	TARGET,DISK	1
19	PAFZZ	5855-01-063-6168	80063	SM-C-807128	CELL ASSEMBLY,OPTIC	1
20	PAFZZ	5305-00-256-7471	96906	MS51957-7B	SCREW,MACHINE	3
21	PADZZ	5970-00-451-5970	80205	NAS1515M02	INSULATOR,BUSHING	2
22	PADZZ	5310-00-044-5823	80205	NAS1515H02L	WASHER,FLAT	4
23	PADZZ	5305-00-324-8210	96906	MS51957-6B	SCREW,MACHINE	2
24	PAFZZ	5961-01-063-6385	80063	SM-C-807150	SEMICONDUCTOR DEVIC	2
25	PADZZ	5365-01-073-3028	80063	SM-C-773868-2	SPACER,SLEEVE	2
26	PAFZZ	5930-00-913-3641	96906	MS90310-221	SWITCH,TOGGLE	1
27	XDDZZ		80063	SM-C-805314-121	MARKER,CABLE	1
28	XDDZZ		80063	SM-C-805314-122	MARKER,CABLE	1
29	PADZA	5935-01-162-8599	81349	M55302/63-A10H	CONNECTOR,PLUG,ELEC	1
30	PADZZ	5305-00-448-6547	96906	MS51957-27B	SCREW,MACHINE	1
* 31	XDDZZ	5310-00-194-3648	80205	MS15795-806B	WASHER,FLAT	1
32	PADZZ	5340-00-619-7754	80063	SM-C-772436-4	CLAMP,LOOP	1
33	XDDZZ		80063	SM-D-807145	SPINDLE,DRUM,TARGET	1
34	XDDZZ		80063	SM-C-807197	HOUSING,HEATER	1
35	PADZZ	5855-01-063-6186	80063	SM-D-807146	HEATING ELEMENT,ELE	1
36	XDDZZ		80063	SM-C-807131	COVER,HEATER	1
37	PADZZ	5305-00-459-4687	96906	MS51957-14B	SCREW,MACHINE	2
38	PAFZZ	5305-00-490-4580	96906	MS51957-3B	SCREW,MACHINE	12
39	XDFZZ	5855-01-063-6187	80063	SM-C-807138	TARGET,BAR	1
40	PAFZZ	5855-01-222-5802	80063	SM-C-968339	TARGET,DIAGONAL	1
41	XDDZZ		80063	SM-D-807144	DRUM,TARGET	1
END OF FIGURE						

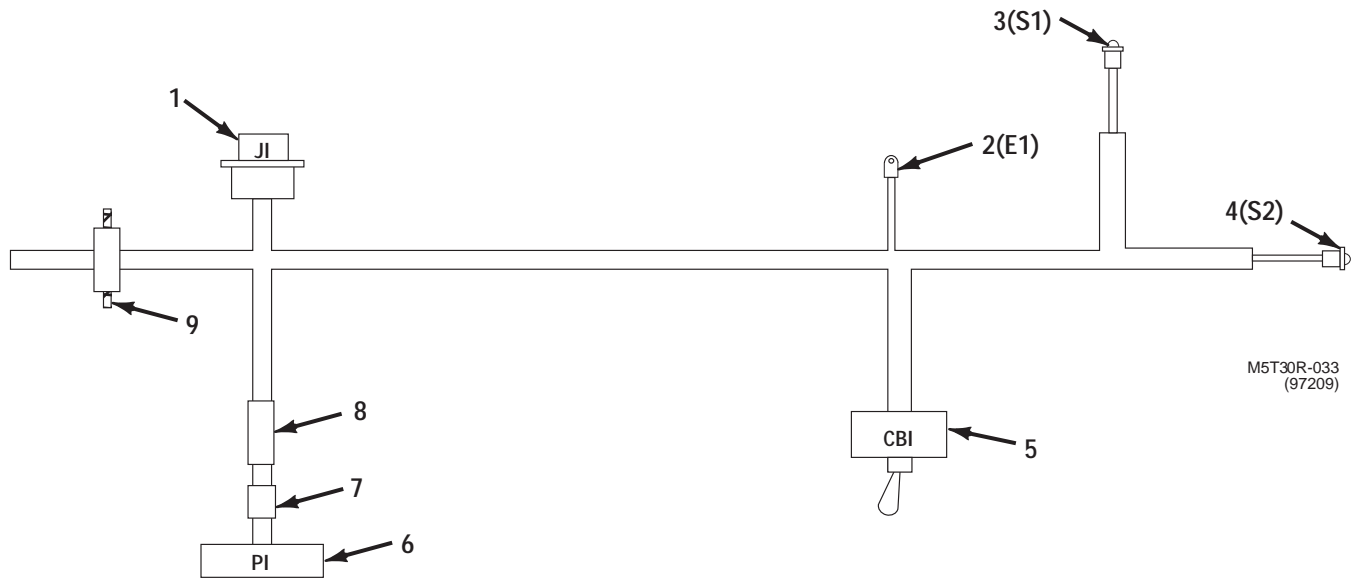


Figure 29. Group 04D010104 Wiring Harness SM-D-807169

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D010104 WIRING HARNESS						
FIG. 29 WIRING HARNESS SM-D-807169						
1	PAFZZ	5935-01-176-8988	96906	MS3474W12-3P	CONNECTOR, RECEPTACL, J1	1
2	XDFZZ	5940-00-050-2308	96906	MS35431-3	TERMINAL, LUG, E1	1
3	PAFZZ	6210-00-519-0845	80063	SM-C-806462-2	LIGHT, INDICATOR, S1	1
4	PAFZZ	6210-00-617-0938	80063	SM-C-806462-3	LIGHT, INDICATOR, S2	1
5	PAFZZ	5925-01-037-0466	81349	M39019/01-225	CIRCUIT BREAKER, CB1	1
6	PAFZA	5935-01-151-4421	81349	M55302/62-A10H	CONNECTOR, PLUG, ELEC, P1	1
7	XDFZZ		80063	SM-C-805314-98	MARKER, CABLE	1
8	XDFZZ		80063	SM-C-805314-97	MARKER, CABLE	1
* 9	PAFZZ	5975-00-727-5153	81343	MS3367-4-9	STRAP, TIEDOWN, ELEC	1
END OF FIGURE						

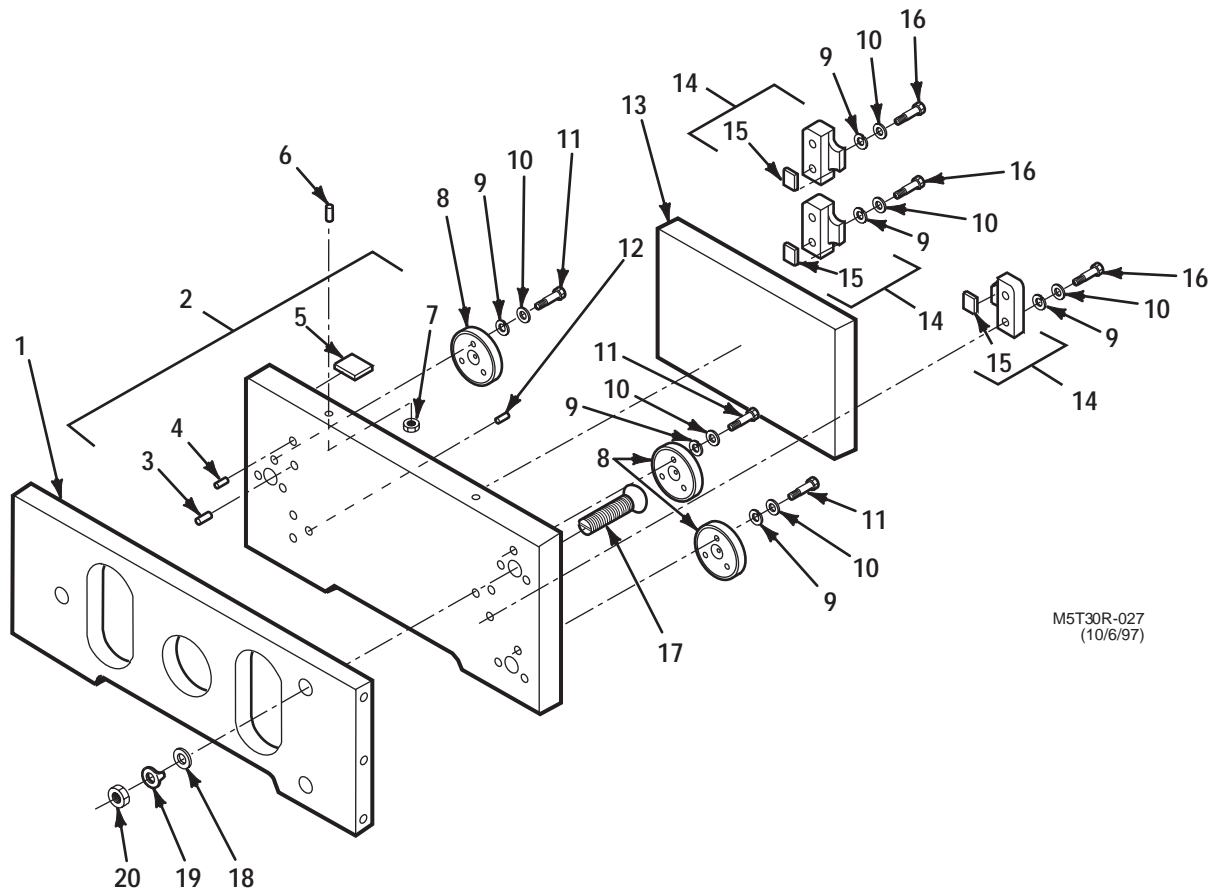


Figure 30. Group 04D0102 Folding Mirror Assembly SM-D-804945

GROUP 04D0102 FOLDING MIRROR ASSEMBLY SM-D-804945 – CONTINUED

0203 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D0102 FOLDING MIRROR ASSEMBLY						
FIG. 30 FOLDING MIRROR ASSEMBLY SM-D-804945						
1	XDDZZ	5855-01-218-3733	80063	SM-D-804954	PLATE, BACKING	1
2	XDDZZ	5855-01-218-3734	80063	SM-D-804947	PLATE, RETAINING	1
3	XDDZZ	5340-00-843-0003	96906	MS122078	INSERT, SCREW THREAD	3
4	PADZZ	5340-00-815-4930	96906	MS21209C0615	INSERT, SCREW THREAD	6
5	XDDZZ		80063	SM-C-804949	PAD, SIDE FOLD MIRR	2
6	PADZZ	5305-01-063-6304	80063	SM-C-773929-7	SETSCREW	2
7	XDDZZ	5340-01-063-6310	80063	SM-C-804953	CAP, PROTECTIVE, DUST	2
8	XDDZZ	5855-01-212-1623	80063	SM-D-804952	CAP, SPHERICAL HEAD	3
9	XDDZZ	5310-00-409-1763	80205	MS15795-805B	WASHER, FLAT	15
10	PADZZ	5310-00-224-0747	96906	MS35338-136B	WASHER, LOCK	15
11	PADZZ	5305-00-145-0713	80205	MS16995-18B	SCREW, CAP, SOCKET HE	9
12	PADZZ	5305-00-807-7975	80063	SM-C-772442-2	SETSCREW	3
13	PADZZ	9340-01-063-6192	80063	SM-D-804946	MIRROR, FOLDING	1
14	XDDDD		80063	SM-C-804950	RETAINER, FOLD MIRR	3
15	XDDZZ		80063	SM-C-804951	PAD, RETAINER	1
16	PADZZ	5305-00-256-7282	80205	MS16995-19B	SCREW, CAP, SOCKET HE	6
17	PADZZ	5305-01-063-6191	80063	SM-C-804955	SCREW, SPHERICAL, HEA	3
18	XDDZZ		96906	MS15795-810	WASHER, FLAT	3
19	XDDZZ	5310-00-933-8121	80205	MS35338-139	WASHER, LOCK	3
20	XDDZZ	5310-00-905-1691	96906	MS51972-1	NUT, PLAIN, HEXAGON	3
END OF FIGURE						

*

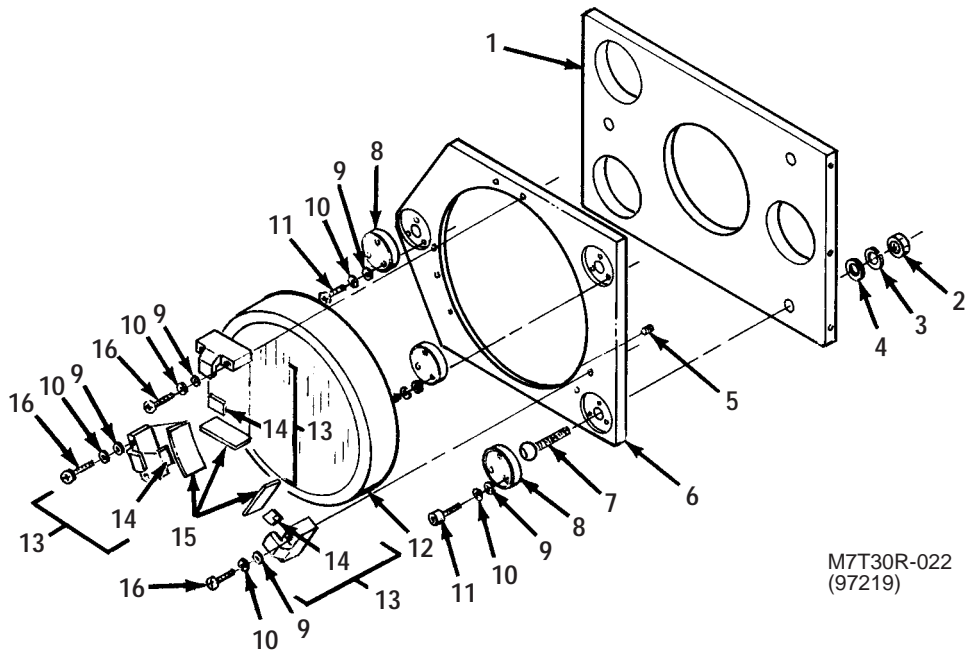
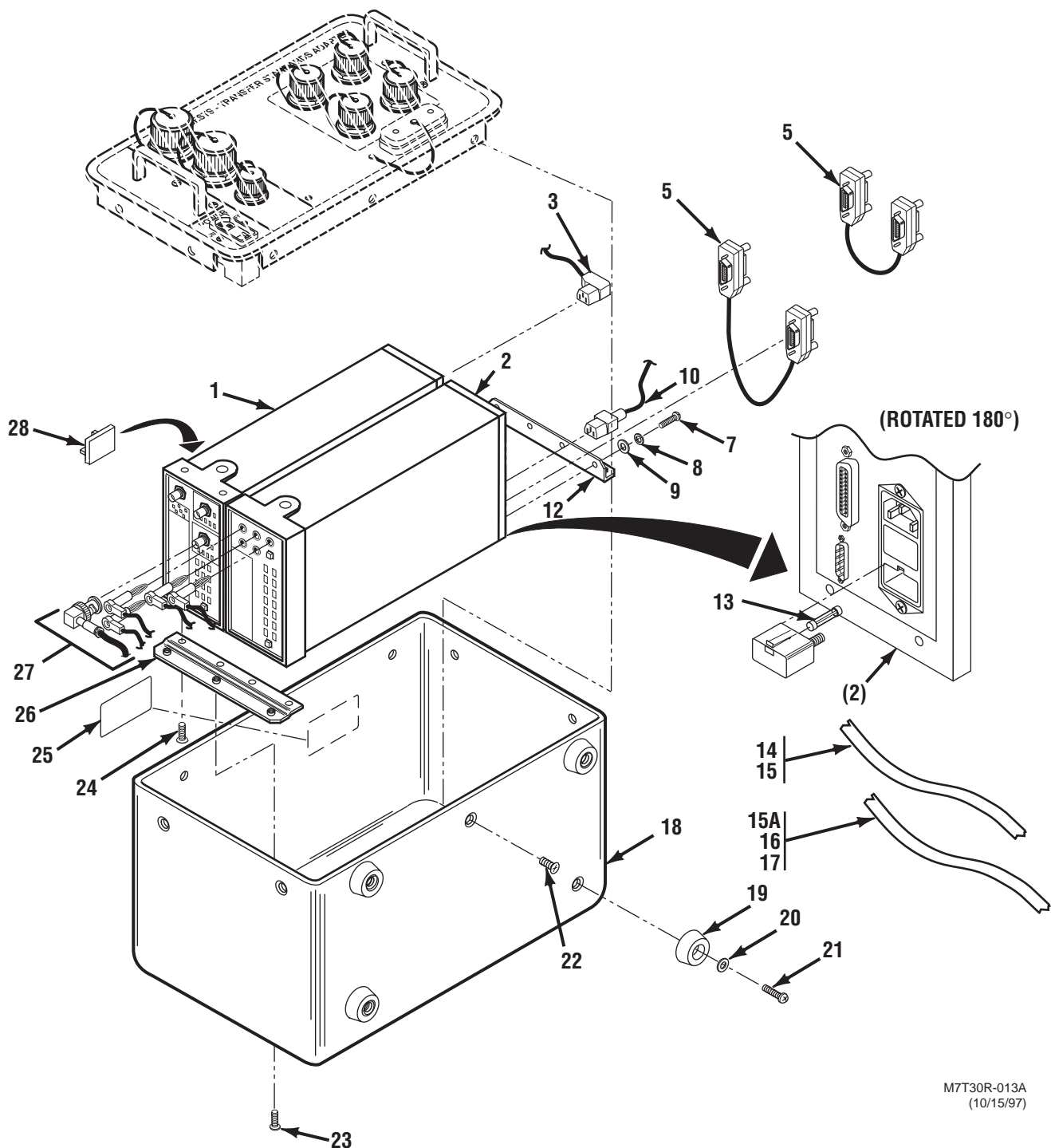


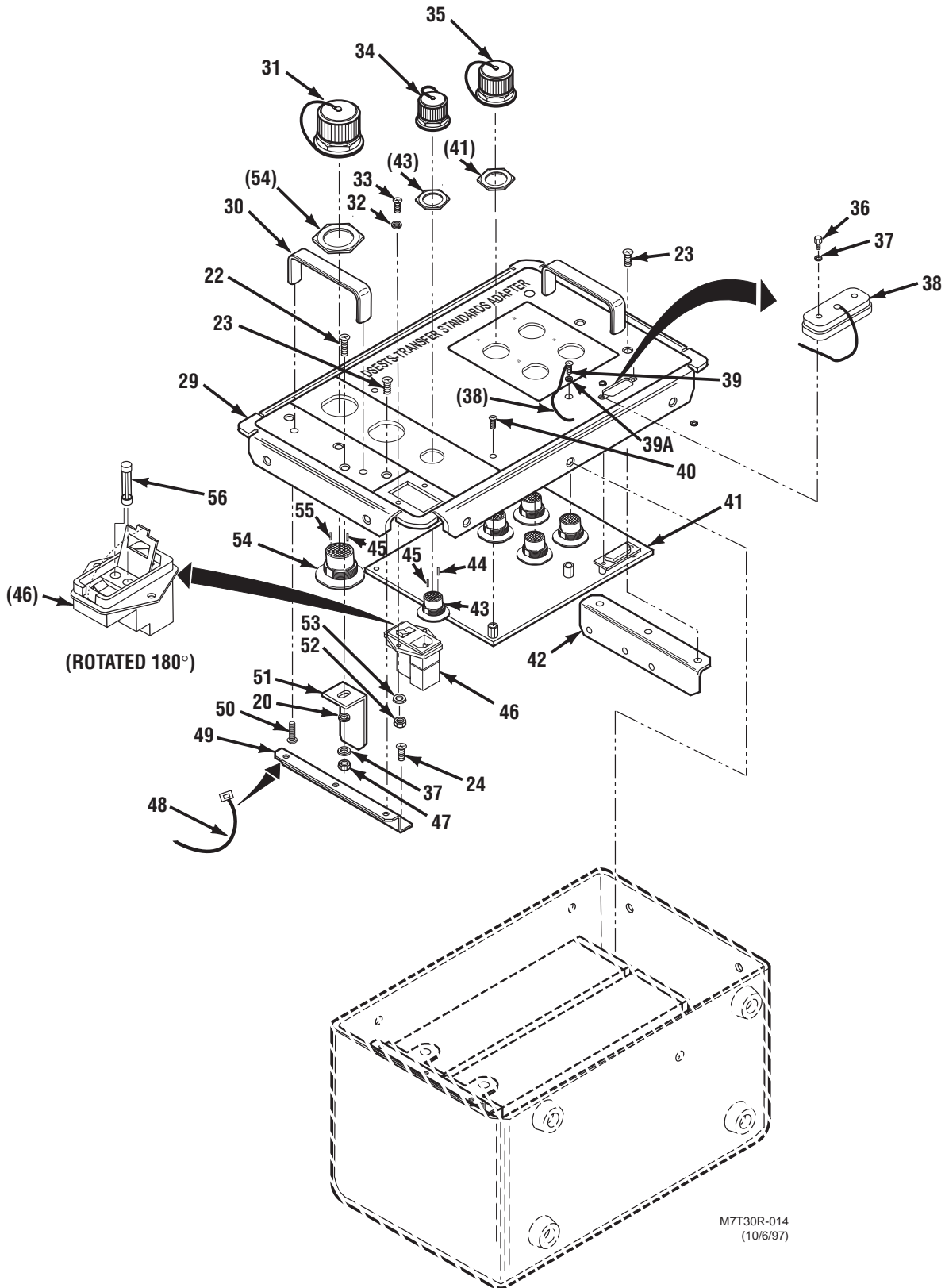
Figure 31. Group 04D0103 Collimator Mirror Assembly SM-D-804956

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04D0103 COLLIMATOR MIRROR ASSEMBLY						
FIG. 31 COLLIMATOR MIRROR ASSEMBLY SM-D-804956						
1	XDDZZ	5855-01-218-3735	80063	SM-D-805662	PLATE, BACKING	1
2	XDDZZ	5310-00-905-1691	96906	MS51972-1	NUT, PLAIN, HEXAGON	3
3	XDDZZ	5310-00-933-8121	80205	MS35338-139	WASHER, LOCK	3
4	XDDZZ		96906	MS15795-810	WASHER, FLAT	3
5	PADZZ	5305-00-807-7975	80063	SM-C-772442-2	SETSCREW	3
6	XDDZZ		80063	SM-D-805658	PLATE, RTNR COLL MIR	1
7	PADZZ	5305-01-063-6191	80063	SM-C-804955	SCREW, SPHERICAL, HEA	3
8	XDDZZ	5855-01-212-1623	80063	SM-D-804952	CAP, SPHERICAL HEAD	3
* 9	XDDZZ	5310-00-409-1763	80205	MS15795-805B	WASHER, FLAT	15
10	PADZZ	5310-00-224-0747	96906	MS35338-136B	WASHER, LOCK	15
11	PADZZ	5305-00-145-0713	80205	MS16995-18B	SCREW, CAP, SOCKET HE	9
12	PADZZ	6650-01-063-6127	80063	SM-D-804957	MIRROR, OPTICAL INST	1
13	XDDDD		80063	SM-D-805659	RETAINER, COLL MIR	3
14	XDDZZ	5340-01-439-7286	80063	SM-C-805660	PAD, RET, COLL, MIRROR	1
15	XDDZZ	5340-01-439-8888	80063	SM-C-805661	PAD, COLLIMATING MIR	1
16	PADZZ	5305-00-150-3426	96906	MS51957-33B	SCREW, MACHINE	6
END OF FIGURE						



M7T30R-013A
(10/15/97)

Figure 32. Group 96000302 Special Tools (Repair Parts) Transfer Standards Adapter Assembly 12972100
(Sheet 1 of 2)



M7T30R-014
 (10/6/97)

Figure 32. Group 96000302 Special Tools (Repair Parts) Transfer Standards Adapter Assembly 12972100
 (Sheet 2 of 2)

GROUP 96000302 SPECIAL TOOLS (REPAIR PARTS) TRANSFER STANDARDS
ADAPTER ASSEMBLY 12972100 – CONTINUED

0205 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 96000302 TRANSFER STANDARDS ADAPTER ASSEMBLY						
FIG. 32 TRANSFER STANDARDS ADAPTER ASSEMBLY 12972100						
1	XDFDD	6680-01-448-6485	19200	12972142	COUNTER,ELECTRICAL SEE TM9-6625-907-24P FOR PARTS BREAKDOWN	1
2	XAFZZ		19200	12972120	MULTIMETER	1
3	PAFZZ	6150-01-451-0303	19200	12972094	CORD,ASSEMBLY	1
4					DELETED	
5	PAFZZ	6150-01-451-0341	19200	12972106-2	CABLE ASSEMBLY,SPEC	2
6					DELETED	
7	PAFZZ	5305-01-453-4312	80204	B1867EC035100	SCREW,MACHINE	8
8	PAFZZ	5310-00-929-6395	80205	MS35338-136	WASHER,LOCK	8
9	PAFZZ	5310-01-352-9588	80205	NAS1149CN632R	WASHER,FLAT	8
10	PAFZZ	6150-01-451-0305	19200	12972093	CORD ASSEMBLY	1
11					DELETED	
12	XDFZZ		19200	12972101	BRACKET,REAR,RIGHT	1
13	PAFZA	5320-00-532-2629	07385	A1007	FUSE,CARTRIDGE	1
* 14	MDDZZ	6145-01-169-5661	81343	M22759/32-20-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-169-5661	V
15	MDDZZ	6145-01-162-6049	81349	M22759/32-26-9	WIRE,ELECTRICAL MAKE FROM NSN 6145-01-162-6049	V
15A	MDDZZ	5970-00-767-0524	81343	M23053/5-206-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-767-0524 .	V
16	MDDZZ	5970-00-767-0515	81343	M23053/5-205-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-767-0515 .	V
17	MDDZZ	5970-00-990-9912	81343	M23053/5-204-C	INSULATION SLEEVING MAKE FROM NSN 5970-00-990-9912 .	V
18	XDFZZ		19200	12972095	ENCLOSURE	1
19	PAFZZ	5340-01-193-6750	19207	12323295	BUMPER,NONMETALLIC	4
20	PAFZZ	5310-01-352-9575	80205	NAS1149C0363R	WASHER,FLAT	5
21	PAFZZ	5305-00-059-3661	96906	MS51958-65	SCREW,MACHINE	4
22	PAFZZ	5305-00-957-7811	80205	MS24693-S272	SCREW,MACHINE	9
23	PAFZZ	5305-01-302-7534	96906	MS24693-270	SCREW,MACHINE	12
24	PAFZZ	5305-01-453-6874	80204	B1867EA040100	SCREW,MACHINE	8
25	PAFZZ	9905-01-073-9737	19207	12285280	PLATE,IDENTIFICATIO	1
26	XDFZZ		19200	12972099	BRACKET,REAR,LEFT	1
27	PAFZZ	6150-01-451-0318	19200	12972084	WIRING HARNESS	1
28	PAFZZ	5975-01-102-1587	19200	12972131	MOUNT,TIEDOWN STRAP	3
29	XDFZZ		19200	12972096	PANEL,FRONT	1
30	PAFZZ	5340-01-094-9589	51506	9314-4.562-10-24-A-5	HANDLE,BOW	2
31	PAFZZ	5935-01-451-0568	19200	12972125-1	COVER,ELECTRICAL CO	2
32	PAFZZ	5310-01-338-4121	80205	NAS1149CN432R	WASHER,FLAT	2
33	PAFZZ	5305-00-808-7834	96906	MS24693-6	SCREW,MACHINE	2
34	PAFZZ	5935-01-451-0170	19200	12972126-6	COVER,ELECTRICAL	1
35	PAFZZ	5935-01-451-0222	19200	12972125-3	COVER,ELECTRICAL	4
36	PAFZZ	5305-01-455-9754	19200	12972117	SCREW CAP,HEXAGON	2
37	PAFZZ	5310-00-933-8120	80205	MS35338-138	WASHER,LOCK	3
38	PAFZZ	5935-01-451-0115	19200	12972119	COVER,ELECTRICAL CO	1
39	XDFZZ	5320-00-493-4101	81349	M24243/1-B604	RIVET,BLIND	1
39A	PAFZZ	5970-01-119-5707	19207	12301865	WASHER,NYLON	1
40	PAFZZ	5305-01-047-6239	96906	MS24693-2	SCREW,MACHINE	2
41	XDFDD	5998-01-449-4177	19200	12972080	CIRCUIT CARD ASSEMB A1	1
42	XDFZZ		19200	12972098	BRACKET,FRONT,RIGHT	1
43	PAFZZ	5935-01-473-9220	96906	MS27468E15F35SA	CONNECTOR,RECEPTACL FJ3	1
* 44	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	37
45	PAFZZ	5935-00-351-5944	96906	MS27488-22-1	PLUG,END SEAL,ELECT	202
46	PAFZZ	5998-01-454-2065	19200	12972078	MODULE,POWER ENTRY S1	1
47	PAFZZ	5310-00-934-9765	80205	MS35650-304	NUT,PLAIN,HEXAGON	1
48	PAFZZ	5975-00-074-2072	81343	MS3367-1-9	STRAP,TIEDOWN,ELECT	9
49	XDFZZ		19200	12972097	BRACKET,FRONT,LEFT	1
50	PAFZZ	5305-00-151-3187	96906	MS24693-70	SCREW,MACHINE	4
51	XDFZZ		19200	12972102	RETAINER,CABLE	1
52	PAFZZ	5310-00-934-9748	80205	MS35649-244	NUT,PLAIN,HEXAGON	2
53	PAFZZ	5310-00-933-8118	80205	MS35338-135	WASHER,LOCK	2
54	PAFFA	5935-01-450-8346	81349	D38999/44FJ35SC	CONNECTOR,RECEPTACL FJ1,FJ2	2
* 55	PAFZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	128
56	PAFZZ	5920-00-280-4960	81349	F02A250V2A	FUSE,CARTRIDGE	2
END OF FIGURE						

GROUP 9999 BULK MATERIALS

0206 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 9999 BULK MATERIALS						
FIG. BULK MATERIALS						
1	PADZZ	6145-01-115-2036	81349	M27500-22SB2U00	CABLE,SPECIAL PURPO	V
2	PADZZ	6145-01-112-9285	81349	M27500-22SB3U00	CABLE,SPECIAL PURPO	V
3	PADZZ	6145-01-225-2210	81349	M27500-24SB2U00	CABLE,SPECIAL PURPO	V
4	PAFZZ	6145-00-839-2119	81349	M27500/22ML1T08	CABLE,SPECIAL PURPO	V
* 5	PAFZZ	6145-00-090-5401	1P787	M27500-22ML2T08	CABLE,SPECIAL PURPO	V
6	PADZZ	6145-01-181-0868	1P787	M27500-24SB1T23	CABLE,SPECIAL PURPO	V
7	PCOZZ	5970-00-814-2878	81349	M23053/5-106-9	INSULATION SLEEVING	V
* 8	PCOZZ	5970-00-954-1624	81343	M23053/5-107-0	INSULATION SLEEVING	V
9	PCDZZ	5970-00-740-2971	81349	M23053/5-107-9	INSULATION SLEEVING	V
10	PCDZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	V
* 11	PAOZZ	5970-00-916-2679	81343	M23053/5-202-C	INSULATION SLEEVING	V
* 12	PCOZZ	5970-00-990-9912	81343	M23053/5-204-C	INSULATION SLEEVING	V
13	PAOZZ	5970-00-767-0524	81343	M23053/5-206-C	INSULATION SLEEVING	V
14	PAOZZ	5970-01-327-1155	81343	M23053/5-203-C	INSULATION SLEEVING	V
15	PAOZZ	5970-00-871-5779	81343	M23053/5-208-C	INSULATION SLEEVING	V
16	PAOZZ	5970-00-990-9911	81349	M23053/5-210-C	INSULATION SLEEVING	V
* 17	PCOZZ	5970-00-767-0515	81343	M23053/5-205-C	INSULATION SLEEVING	V
18	PCFZZ	5970-00-819-9569	81349	M23053/5-103-9	INSULATION SLEEVING	V
19	XDDZZ	5330-01-217-2024	74284	SKM2000	GASKET	V
20	XDDZZ	5330-01-254-5201	53031	XTC20R07	SEAL,PLAIN	V
21	PAOZZ	6145-00-489-8898	81349	M16878/1BEE9	WIRE,ELECTRICAL	V
22	XDFZA	6145-00-652-1784	81349	M16878/1BFE9	WIRE,ELECTRICAL	V
23	PAFZZ	6145-00-652-1441	81349	M16878/1BGE9	WIRE,ELECTRICAL	V
24	PAFZZ	6145-00-643-0650	81349	M16878/1BJE9	WIRE,ELECTRICAL	V
25	PADZZ	6145-01-191-3321	81349	M22759/32-16-0	WIRE,ELECTRICAL	V
26	XDDZZ	6145-01-183-4137	81349	M22759/32-16-5	WIRE,ELECTRICAL	V
27	PADZZ	6145-01-170-6398	81349	M22759/32-16-9	WIRE,ELECTRICAL	V
* 28	PADZZ	6145-01-169-5661	81343	M22759/32-20-9	WIRE,ELECTRICAL	V
29	PADZZ	6145-01-099-9118	81343	M22759/32-22-9	WIRE,ELECTRICAL	V
30	PADZZ	6145-01-170-4658	81343	M22759/32-24-9	WIRE,ELECTRICAL	V
31	PADZZ	6145-01-162-6049	81349	M22759/32-26-9	WIRE,ELECTRICAL	V
END OF FIGURE						

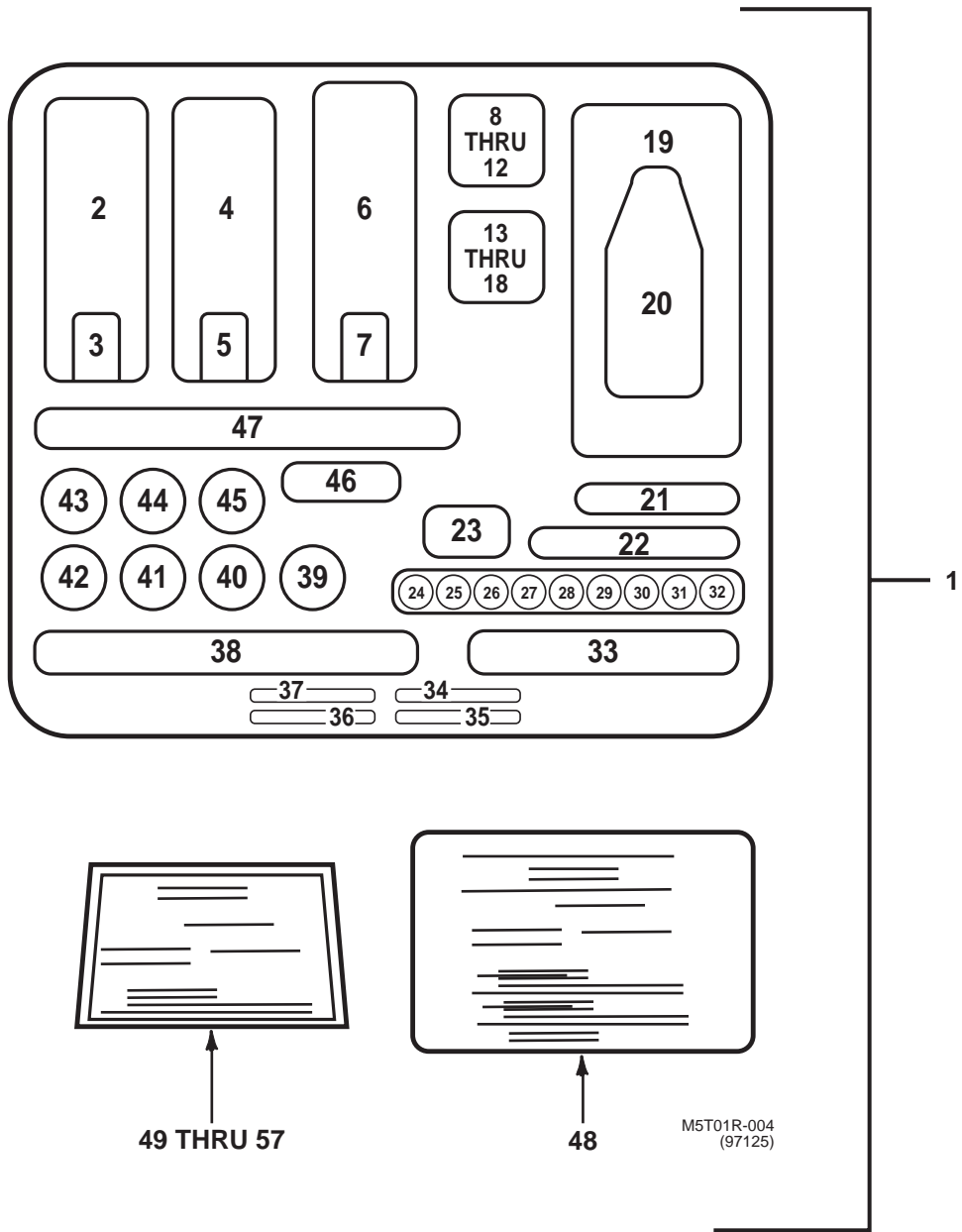
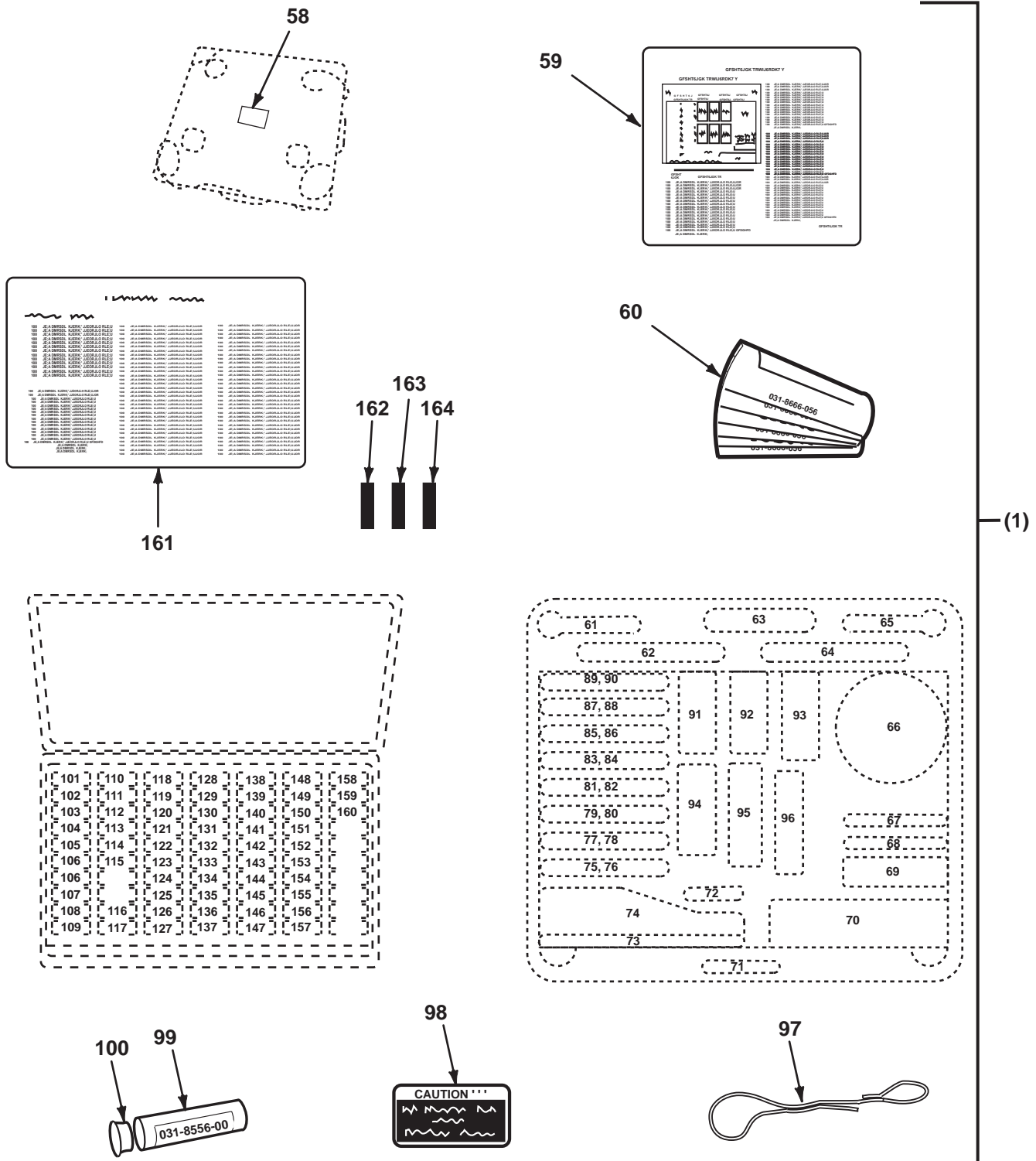


Figure 33. Group 9600 Special Tools (Sheet 1 of 3)



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(97119)

Figure 33. Group 9600 Special Tools (Sheet 2 of 3)

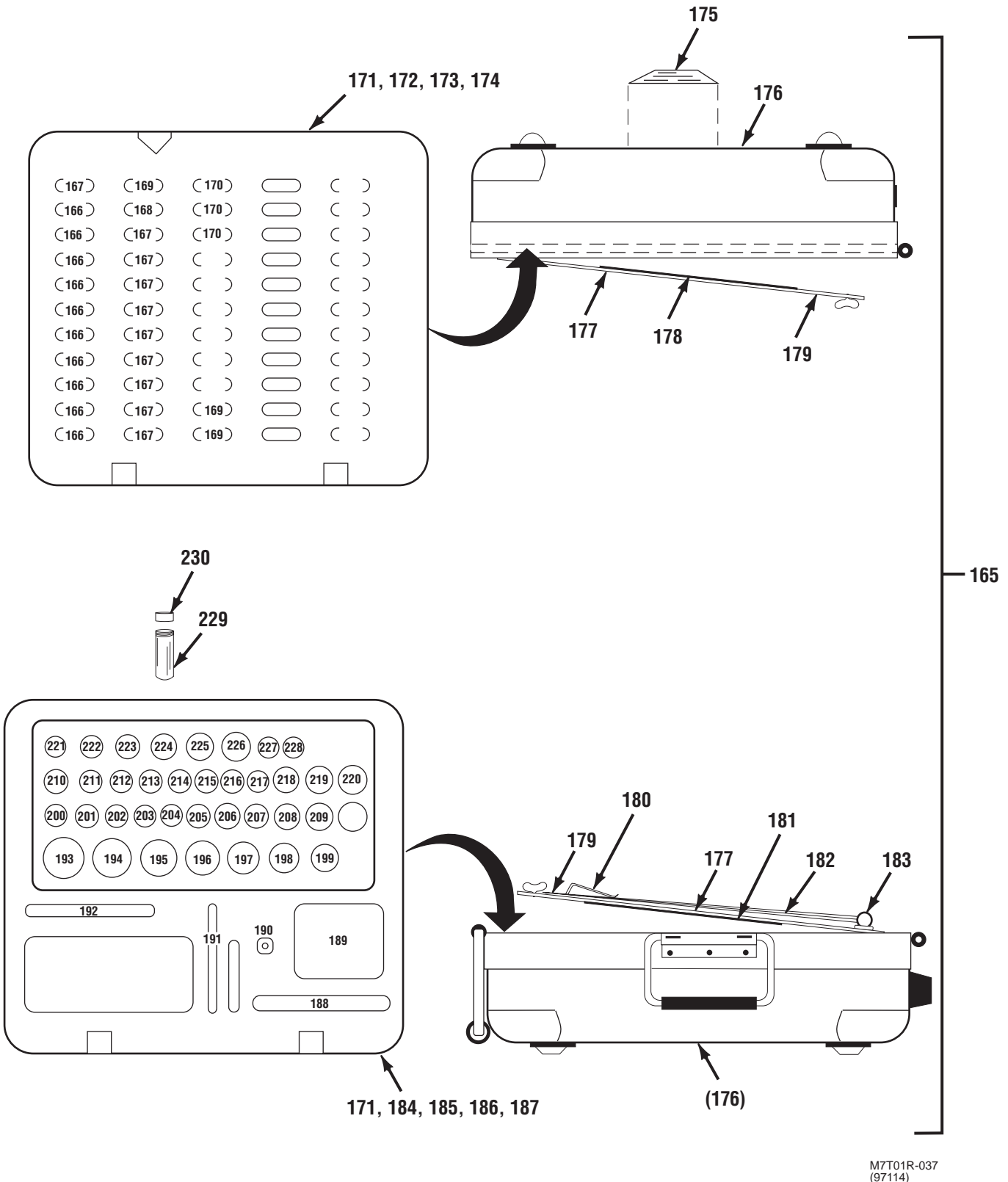


Figure 33. Group 9600 Special Tools (Sheet 3 of 3)

GROUP 9600 SPECIAL TOOLS – CONTINUED

0207 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 9600 SPECIAL TOOLS						
FIG. 33 SPECIAL TOOLS						
1	PEOFF	5935-01-344-1073	19207	5705498	MAINTENANCE KIT,ELECTRICAL FGC 960001	1
2	PAOZZ	4931-01-146-6454	11851	CW100-1	PLIERS CONN HOLDING	1
3	PAOZZ	4931-01-146-6457	11851	CW100-2	PLIERS CONN HOLDING	1
4	PAOZZ	4931-01-146-6448	11851	CW100-3	PLIERS CONN HOLDING	1
5	PAOZZ	4931-01-146-6453	11851	CW100-4	PLIERS CONN HOLDING	1
6	PAOZZ	4931-01-146-6452	11851	CW100-5	PLIERS CONN HOLDING	1
7	PAOZZ	4931-01-146-6451	11851	CW100-6	PLIERS CONN HOLDING	1
8	PAOZZ	5120-01-117-3222	11851	CS22-1	SOCKET,SOCKET WRENC	1
9	PAOZZ	5120-01-117-3219	11851	CS22	SOCKET,SOCKET WRENC	1
10	PAOZZ	5120-01-117-3217	11851	CS18	SOCKET,SOCKET WRENC	1
11	PAOZZ	5120-01-117-3215	11851	CS14	SOCKET,SOCKET WRENC	1
12	PAOZZ	5120-01-117-3213	11851	CS10	SOCKET,SOCKET WRENC	1
13	PAOZZ	5120-01-117-3221	11851	CS24-1	SOCKET,SOCKET WRENC	1
14	PAOZZ	5120-01-117-3220	11851	CS24	SOCKET,SOCKET WRENC	1
15	PAOZZ	5120-01-117-3218	11851	CS20	SOCKET,SOCKET WRENC	1
16	PAOZZ	5120-01-117-3216	11851	CS16	SOCKET,SOCKET WRENC	1
17	PAOZZ	5120-01-117-3214	11851	CS12	SOCKET,SOCKET WRENC	1
18	PAOZZ	5120-01-117-3212	11851	CS8	SOCKET,SOCKET WRENC	1
19	PAOZZ	5130-00-176-3991	06928	TW-1	STRIPPER,WIRE,THERM	1
20	PAOZZ	5110-01-037-1408	30119	45-123	CUTTER,CABLE-WIRE	1
21	PAOZZ	5220-00-090-6722	81349	M22520/3-1	GAGE,PLUG,PLAIN CYL	1
22	PAOZZ	5120-00-177-7341	11851	74008	KEY,SOCKET HEAD SCR	1
23	PAOZZ	5120-00-126-0860	81349	M22520/5-100	DIE,CRIMPING TOOL	1
24	PAOZZ	5120-00-165-3913	81349	M22520/2-02	CONTACT POSITIONER,	1
25	PAOZZ	5120-00-017-3809	81349	M22520/2-06	CONTACT POSITIONER,	1
26	PAOZZ	5120-00-017-3827	81349	M22520/2-07	CONTACT POSITIONER,	1
27	PAOZZ	5120-00-017-3921	81349	M22520/2-08	CRIMPING TOOL,TERMI	1
28	PAOZZ	5120-00-017-3927	81349	M22520/2-09	CONTACT POSITIONER,	1
29	PAOZZ	5120-00-017-3932	81349	M22520/2-10	CONTACT POSITIONER,	1
*	XDOZZ	5120-01-361-9642	11851	K280	CONTACT POSITIONER,	1
*	PAOZZ	5120-01-361-9646	11851	K330-3	CONTACT POSITIONER,	1
	XDOZZ	5120-01-361-9656	11851	K503	CONTACT POSITIONER,	1
33	PAOZZ	5120-00-165-3910	81349	M22520/2-01	CRIMPING TOOL,TERMI	1
34	PAOZZ	5220-01-116-3022	11851	CG20	GAGE,CONTACT,ELECTR	1
35	PAOZZ	5220-01-116-3023	11851	CG22	GAGE,CONTACT,ELECTR	1
36	PAOZZ	5220-01-116-3021	11851	CG16	GAGE,CONTACT,ELECTR	1
37	PAOZZ	5220-01-116-3020	11851	CG12	GAGE,CONTACT,ELECTR	1
38	PAOZZ	5120-00-165-3912	81349	M22520/1-01	CRIMPING TOOL,TERMI	1
39	XDOZZ	5120-01-361-9498	11851	TP580	CONTACT POSITIONER,	1
*	XDOZZ	5120-01-361-9454	11851	TH514	TURRET HEAD,CRIMPIN	1
*	XDOZZ	5120-01-361-9452	11851	TH452	TURRET HEAD,CRIMPIN	1
42	PAOZZ	5120-01-361-9709	11851	TH378	POSITIONER,CONTACT	1
43	PAOZZ	5120-00-016-6382	81349	M22520/1-02	CRIMPING TOOL,TERMI	1
44	PAOZZ	5120-00-016-7582	81349	M22520/1-04	TURRET HEAD ASSEMBL	1
45	XDOZZ	5120-01-361-9708	11851	TH369	TURRET HEAD CRIMPING	1
46	PAOZZ	5120-01-037-1407	11851	HX3-82	DIE REMOVAL PIN	1
47	PAOZZ	5120-00-132-6913	81349	M22520/5-01	CRIMPING TOOL,TERMI	1
48	XDOZZ		11851	DMC63-CS/N-1	COVER SHEET W/N-1	1
49	XDOZZ		11851	DMC63-CCA	CONTENTS CHART	1
50	XDOZZ		11851	DMC63-WS/N-3	WARNING SHEET	1
51	XDOZZ		11851	IS-1A/IS-1B	INSTRUCTION SHEET	1
52	XDOZZ		11851	IS-2A/IS-2B	INSTRUCTION SHEET	1
53	XDOZZ		11851	IS-3A/IS-3B	INSTRUCTION SHEET	1
54	XDOZZ		11851	IS0087/IS0106	INSTRUCTION SHEET	1
55	XDOZZ		11851	IS0132/IS0033	INSTRUCTION SHEET	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 9600 SPECIAL TOOLS						
FIG. 33 SPECIAL TOOLS						
56	XDOZZ		11851	TSC63-1/2	TOOL SELECTION CHART	1
57	XDOZZ		11851	TSC63-3/4	TOOL SELECTION CHART	1
58	XDOZZ		11851	DMC63-NP	NAMEPLATE	1
59	XDOZZ		11851	DMC63-CCB	CONTENTS CHART	1
60	PAOZZ	7690-01-342-5896	11851	DMC63-VLS	DECAL SET PREPRINTED	1
* 61	XDOZZ	5120-01-361-9362	11851	DRK105	REMOVER,ELECTRICAL (WITH 5 TIPS)	1
* 62	XDOZZ	5120-01-361-9593	11851	DAK96-12	INSERTER,ELECTRICAL	1
* 63	PAOZZ	4931-01-146-6456	11851	46151-0T1	TOOL INSERTION	1
* 64	XDOZZ	5120-01-361-9594	11851	DAK96-16	INSERTER,ELECTRICAL	1
* 65	XDOZZ	5120-01-335-8675	11851	DRK110	REMOVER,ELECTRICAL	1
* 66	XDOZZ	5970-00-101-4669	20999	INSULTAPETYPE1 3-4IN	TAPE,INSULATION,ELE	2
67	PAOZZ	4931-01-146-6450	11851	11-7370-5T1	TIP REMOVAL	1
68	PAOZZ	4931-01-146-6455	11851	11-7674-3T1	TOOL REMOVAL	1
69	PAOZZ	4931-01-193-4731	11851	46150T1	HANDLE,REMOVAL TOOL	1
70	PAOZZ	5120-01-335-8842	11851	BT-BS-609	WRENCH,STRAP	1
71	PAOZZ	5120-01-344-3774	81349	M81714/69-01	REMOVER,ELECTRICAL	2
72	PAOZZ	5120-01-131-6022	30106	12830-05	INSERT,JAW,CONNECTO	2
73	PAOZZ	5120-01-117-3310	11851	DW75	EXTENSION, SOCKET WR	1
* 74	PAOZZ	5120-00-624-8065	05047	B107.27	PLIERS, SLIP JOINT	1
75	PAOZZ	5120-01-227-3173	81349	M81969/18-02	INSERTER,ELECTRICAL	1
76	PAOZZ	5120-01-338-2697	81349	M81969/20-02	REMOVER,ELECTRICAL	1
77	PAOZZ	5120-00-018-0531	81349	M81969/8-09	INSERTER,ELECTRICAL	1
78	PAOZZ	5120-00-103-9708	81349	M81969/8-10	REMOVER,ELECTRICAL	1
79	PAOZZ	5120-00-018-0529	81349	M81969/8-07	INSERTER,ELECTRICAL	1
80	PAOZZ	5120-00-409-5206	81349	M81969/8-08	REMOVER,ELECTRICAL	1
81	PAOZZ	5120-00-177-6967	81349	M81969/8-05	INSERTER,ELECTRICAL	1
82	PAOZZ	5120-00-177-6966	81349	M81969/8-06	REMOVER,ELECTRICAL	1
83	PAOZZ	5120-00-251-9503	81349	M81969/8-01	INSERTER,ELECTRICAL	1
84	PAOZZ	5120-00-146-6558	81349	M81969/8-02	REMOVER,ELECTRICAL	3
85	PAOZZ	5120-01-335-8674	11851	DAK83-20B	INSERTER,ELECTRICAL	1
86	PAOZZ	5120-01-335-8716	11851	DRK83-20B	REMOVER,ELECTRICAL	1
* 87	XDOZZ	5120-01-430-8601	81349	M81969/8-207	INSERTER,ELECTRICAL	1
* 88	XDOZZ	5120-01-430-8597	81349	M81969/8-208	INSERTER,ELECTRICAL	1
89	PAOZZ	5120-01-335-8672	11851	DAK83-12B	INSERTER,ELECTRICAL	1
90	PAOZZ	5120-01-335-8714	11851	DRK83-12	REMOVAL, TOOL, CONNEC	1
91	PAOZZ	5120-00-018-0575	81349	M81969/14-01	INSERTER AND REMOVE	10
92	PAOZZ	5120-00-915-4587	81349	M81969/14-11	INSERTER AND REMOVE	10
93	PAOZZ	5120-00-132-5739	81349	M81969/1-02	INSTALLING AND REMO TOOL	1
94	PAOZZ	5120-00-915-4588	81349	M81969/14-03	INSERTER AND REMOVE	10
95	PAOZZ	5120-00-157-3138	81349	M81969/14-04	INSERTER AND REMOVE	5
96	PAOZZ	5120-01-361-9451	11851	DRK96	REMOVER,ELECTRICAL	1
97	PAOZZ	5120-01-231-5725	11851	BT-A-6010	STRAP,STRAP WRENCH (1/2 INCH)	1
98	XDOZZ		11851	DMC179-WL	WARNING LABEL	6
99	XDOZZ	8125-01-347-5348	11851	4-1254	BOTTLE,SNAP-ON CAP	70
100	PAOZZ	5340-01-342-4898	11851	4-1249	PLUG,PROTECTIVE,DUS	70
* 101	PAOZA	5940-01-128-4437	55561	27911-T9	TERMINAL,STUD	10
* 102	PAOZA	5940-01-128-4438	55561	27913-T9	TERMINAL,STUD	10
103	PAOZZ	5999-01-131-7437	55561	27961-T9	CONTACT,ELECTRICAL	10
104	PAOZZ	5999-01-131-7438	55561	27963-T9	CONTACT,ELECTRICAL	10
105	PAOZZ	5999-01-131-7436	55561	27914-26T9	CONTACT,ELECTRICAL	10
106	PAOZZ	5999-01-131-7439	55561	27964-26T9	CONTACT,ELECTRICAL	10
107	PAOZZ	5935-01-342-4914	55561	27977-12T50	GUIDE,ELECTRICAL CO	10
108	PAOZZ	5935-01-342-4915	55561	27977-16T50	GUIDE,ELECTRICAL CO	10
109	PAOZZ	5999-01-146-6466	81312	27917-T9	CONTACT,ELECTRICAL I/O PIN	1

GROUP 9600 SPECIAL TOOLS – CONTINUED

0207 00

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 9600 SPECIAL TOOLS							
FIG. 33 SPECIAL TOOLS							
110	PAOZA	5999-01-130-6262	77820	10-581808	CONTACT,ELECTRICAL I/O SOCKET	1	
111	PAOZA	5999-01-130-6261	55561	46239-T9	CONTACT,ELECTRICAL I/O PIN WITH NYLON TIP	1	
112	XDOZZ		55561	27901/A	CONTACT,ELECTRICAL (16S)ALUMEL PIN	2	
113	XDOZZ	5999-00-310-4325	55561	27951/A	CONTACT,ELECTRICAL (16S) ALUMEL SOCKET	2	
114	XDOZZ	5999-00-058-9439	55561	27901/CH	CONTACT,ELECTRICAL (16S) CHROMEL PIN	2	
115	XDOZZ	5999-00-201-3970	55561	27951/CH	CONTACT,ELECTRICAL (16S) CHROMEL SOCKET	2	
116	PAOZZ	5999-00-146-8592	81349	M39029/4-110	CONTACT,ELECTRICAL	35	
117	PAOZZ	5999-00-172-8254	81349	M39029/4-111	CONTACT,ELECTRICAL	20	
118	PAOZZ	5999-01-044-4099	81349	M39029/4-112	CONTACT,ELECTRICAL	20	
119	PAOZZ	5999-00-408-5585	81349	M39029/4-113	CONTACT,ELECTRICAL	10	
120	PAOZZ	5999-01-068-2587	81349	M39029/4-114	CONTACT,ELECTRICAL	10	
121	PAOZZ	5999-00-172-8253	81343	M39029/5-115	CONTACT,ELECTRICAL	35	
*	122	PAOZZ	5999-01-045-3132	81343	AS39029/5-116	CONTACT,ELECTRICAL	20
	123	PAOZZ	5999-01-065-3076	81349	M39029/5-117	CONTACT,ELECTRICAL	20
	124	PAOZZ	5999-01-070-3057	81349	M39029/5-118	CONTACT,ELECTRICAL	10
	125	PAOZZ	5999-01-068-9542	81349	M39029/5-119	CONTACT,ELECTRICAL	10
	126	PAOZZ	5999-01-068-9548	81349	M39029/22-191	CONTACT,ELECTRICAL	40
	127	PAOZA	5999-01-089-0801	81349	M39029/22-192	CONTACT,ELECTRICAL	40
	128	PAOZZ	5999-01-068-5196	81349	M39029/22-193	CONTACT,ELECTRICAL	40
	129	PAOZZ	5999-01-068-2590	81349	M39029/29-212	CONTACT,ELECTRICAL	10
	130	PAOZA	5999-01-119-6239	81349	M39029/29-213	CONTACT,ELECTRICAL	10
	131	PAOZZ	5999-01-041-3754	81349	M39029/30-217	CONTACT,ELECTRICAL	20
	132	XDOZZ	5999-01-089-0801	81349	M39029/30-218	CONTACT,ELECTRICAL	10
	133	PAOZA	5999-00-190-1887	81349	M39029/30-219	CONTACT,ELECTRICAL	10
*	134	PAOZA	5999-01-183-6522	81349	M39029/35-441	CONTACT,ELECTRICAL	20
	135	PAOZZ	5999-00-320-7459	81343	AS39029/56-348	CONTACT,ELECTRICAL	10
	136	PAOZZ	5999-00-152-9574	81349	M39029/56-351	CONTACT,ELECTRICAL	50
	137	PAOZZ	5999-01-034-0716	81349	M39029/56-352	CONTACT,ELECTRICAL	20
	138	PAOZA	5999-00-378-0206	81349	M39029/56-353	CONTACT,ELECTRICAL	10
	139	PAOZA	5999-00-478-4402	81349	M39029/57-354	CONTACT,ELECTRICAL	40
	140	PAOZA	5999-00-402-2539	81349	M39029/57-359	CONTACT,ELECTRICAL	10
*	141	PAOZA	5999-00-473-3551	81349	M39029/58-360	CONTACT,ELECTRICAL	40
	142	PAOZZ	5999-00-243-6500	81349	M39029/58-363	CONTACT,ELECTRICAL	50
	143	PAOZZ	5999-00-402-2545	81349	M39029/58-364	CONTACT,ELECTRICAL	20
	144	PAOZZ	5999-01-123-7941	81349	M39029/58-365	CONTACT,ELECTRICAL	10
*	145	PAOZZ	5999-00-239-3338	81343	M39029/63-368	CONTACT,ELECTRICAL	25
	146	PAOZA	5999-00-411-7645	81349	M39029/64-369	CONTACT,ELECTRICAL	25
	147	PAOZZ	5999-01-343-8908	71468	031-8555-051	CONTACT,ELECTRICAL 16S CHROMEL SOCKET	2
	148	PAOZZ	5999-01-344-8758	71468	030-8586-000	CONTACT,ELECTRICAL 16S PIN	10
	149	PAOZZ	5999-01-343-8903	71468	030-8586-050	CONTACT,ELECTRICAL 16S ALUMEL PIN	2
	150	PAOZZ	5999-01-343-8904	71468	030-8586-051	CONTACT,ELECTRICAL 16S CHROMEL PIN	2
	151	PAOZZ	5999-01-279-3055	71468	030-8587-000	CONTACT,ELECTRICAL	10
	152	PAOZZ	5999-01-344-8759	71468	030-8588-000	CONTACT,ELECTRICAL 12 PIN	10
	153	PAOZZ	5999-01-343-8906	71468	031-8555-000	CONTACT,ELECTRICAL 16S SOCKET	10
	154	PAOZZ	5999-01-343-8907	71468	031-8555-050	CONTACT,ELECTRICAL 16S ALUMEL SOCKET	2
	155	PAOZA	5999-01-158-8887	71468	031-8556-000	CONTACT,ELECTRICAL 16 SOCKET	10
	156	XDOZZ		71468	030-8557-000	CONTACT,ELECTRICAL 12 SOCKET	10
	157	PAOZZ	5935-01-097-0399	96906	MS27488-12-1	PLUG,END SEAL,ELECT	10
	158	PAOZZ	5935-00-235-8970	96906	MS27488-16-1	PLUG,END SEAL,ELECT	40
	159	PAOZZ	5935-00-496-7171	96906	MS27488-20-1	PLUG,END SEAL,ELECT	50
	160	PAOZZ	5935-00-351-5944	96906	MS27488-22-1	PLUG,END SEAL,ELECT	50
	161	XDOZZ		11851	DMC63-CCC	CONTENTS CHART	1
	162	PAOZZ	5999-01-344-8760	71468	030-8614-000	CONTACT,ELECTRICAL I/O PIN	1
	163	XDOZZ		71468	031-8714-050	CONTACT,ELECTRICAL 16S CHROMEL SOCKET	1
	164	PAOZZ	5999-01-343-8905	71468	031-8521-000	CONTACT,ELECTRICAL 16S CHROMEL SOCKET	1

GROUP 9600 SPECIAL TOOLS – CONTINUED

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(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY	
GROUP 9600 SPECIAL TOOLS							
FIG. 33 SPECIAL TOOLS							
*	165	PAOOF	5935-01-436-9147	19207	57K2935	MAINTENANCE KIT,ELECTRICAL FGC 960002	1
	166	PAOZA	5999-01-138-5637	81349	M39029/29-215	CONTACT,ELECTRICAL	10
	167	PAOZA	5999-01-117-3634	81349	M39029/30-221	CONTACT,ELECTRICAL	10
	168	PAOZA	5999-01-193-0286	81349	M39029/1-507	CONTACT,ELECTRICAL	10
	169	XDOZZ		77820	10-40564	CONTACT,ELECTRICAL	3
	170	PAOZZ	5999-01-460-0654	17549	031-8613-000	CONTACT,ELECTRICAL	3
	171	XDOZZ		11851	DMC730-16FM	FOAM PAD	2
	172	XDOZZ		11851	DMC63SUPP-4FM	FOAM INSERT	1
	173	XDOZZ		11851	DMC63SUPP-5FM	FOAM PAD	1
	174	XDOZZ		11851	DMC730-19FM	FOAM PAD	1
	175	XDOZZ		11851	DMC63SUPP-NP	NAMEPLATE	1
	176	XDOZZ		11851	9-1073-8	CASE,FIBERGLASS	1
	177	XDOZZ		11851	DMC262-5FM	FOAM PAD	2
	178	XDOZZ		11851	DMC63SUPP-CCB	CONTENTS CHART	1
	179	XDOZZ		11851	DMC179-WL	WARNING LABEL	4
	180	PAOZZ	5340-01-228-3413	11851	A18-LT	STRIKE,CATCH	2
	181	XDOZZ		11851	DMC63SUPP-CCA	CONTENTS CHART	1
	182	XDOZZ		11851	DMC63SUPP-HBK	HANDBOOK	1
	183	XDOZZ		11851	M2700-969	BINDER,4-RING	1
	184	XDOZZ		11851	DMC63SUPP-1FM	FOAM INSERT	1
	185	XDOZZ		11851	DMC63SUPP-2FM	FOAM INSERT	1
	186	XDOZZ		11851	DMC63SUPP-3FM	FOAM PAD	1
	187	XDOZZ		11851	DMC730-12FM	FOAM PAD	2
	188	XDOZZ		58164	ATC 2234	REMOVAL TOOL	1
	189	PAOZZ	5120-01-367-0272	81349	M81969/14-07	INSERTER AND REMOVE	5
	190	XDOZZ		11851	K496-1	POSITIONER	1
	191	PAOZZ	5120-00-221-7966	11851	BT-HT-100	HANDLE,SOCKET WRENCH,T-HANDLE,3/8	1
	192	PAOZZ	5120-00-241-3143	11851	BT-HT-107	HANDLE,SOCKET WRENC	1
	193	XDOZZ		11851	BT-J-149 AL	SOCKET,JAM NUT	1
	194	XDOZZ		11851	BT-J-146 AL	SOCKET,JAM NUT	1
	195	XDOZZ		11851	BT-J-142 AL	SOCKET,JAM NUT	1
	196	XDOZZ		11851	BT-J-139 AL	SOCKET,JAM NUT	1
	197	XDOZZ		11851	BT-J-138 AL	SOCKET,JAM NUT	1
	198	XDOZZ		11851	BT-J-133 AL	SOCKET,JAM NUT	1
	199	XDOZZ		11851	BT-J-130 AL	SOCKET,JAM NUT	1
	200	XDOZZ	5120-01-377-4600	11851	CM389TR-9A	ADAPTER TOOL,ELECTR	1
*	201	XDOZZ	5120-01-377-4527	11851	CM389TR-9B	ADAPTER TOOL,ELECTR	1
*	202	XDOZZ	5120-01-377-1288	11851	CM389TR-11A	ADAPTER TOOL,ELECTR	1
*	203	XDOZZ	5120-01-377-1252	11851	CM389TR-13A	ADAPTER TOOL,ELECTR	1
*	204	XDOZZ	5120-01-377-1188	11851	CM389TR-15A	ADAPTER TOOL,ELECTR	1
*	205	XDOZZ	5120-01-379-0140	11851	CM389TR-15B	ADAPTER TOOL,ELECTR	1
*	206	XDOZZ	5120-01-379-0193	11851	CM389TR-17A	ADAPTER TOOL,ELECTR	1
	207	XDOZZ	5120-01-379-0172	11851	CM389TR-19A	ADAPTER TOOL,ELECTR	1
	208	XDOZZ	5120-01-379-0161	11851	CM389TR-19B	ADAPTER TOOL,ELECTR	1
	209	XDOZZ	5120-01-379-0142	11851	CM389TR-21A	ADAPTER TOOL,ELECTR	1
	210	XDOZZ	5120-01-379-0146	11851	CM389T-17A	ADAPTER TOOL,ELECTR	1
	211	XDOZZ	5120-01-377-1200	11851	CM389T-15B	ADAPTER TOOL,ELECTR	1
*	212	XDOZZ	5120-01-377-1172	11851	CM389T-15A	ADAPTER TOOL,ELECTR	1
*	213	XDOZZ	5120-01-377-1215	11851	CM389T-13A	ADAPTER TOOL,ELECTR	1
*	214	XDOZZ	5120-01-377-1302	11851	CM389T-11A	ADAPTER TOOL,ELECTR	1
*	215	XDOZZ	5120-01-377-1178	11851	CM389T-11B	ADAPTER TOOL,ELECTR	1

GROUP 9600 SPECIAL TOOLS – CONTINUED

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(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 9600 SPECIAL TOOLS						
FIG. 33 SPECIAL TOOLS						
* 216	XDOZZ	5120-01-377-1230	11851	CM389T-9A	ADAPTER TOOL,ELECTR	1
* 217	XDOZZ	5120-01-379-0194	11851	CM389T-9B	ADAPTER TOOL,ELECTR	1
218	XDOZZ	5120-01-377-4568	11851	CM389TR-25B	ADAPTER TOOL,ELECTR	1
219	XDOZZ	5120-01-377-4605	11851	CM389TR-25A	ADAPTER TOOL,ELECTR	1
* 220	XDOZZ	5120-01-379-0173	11851	CM389TR-23A	ADAPTER TOOL,ELECTR	1
221	PAOZZ	5120-01-255-7892	11851	CM389T-19A	ADAPTER TOOL,ELECTR	1
* 222	XDOZZ	5120-01-377-1207	11851	CM389T-21A	ADAPTER TOOL,ELECTR	1
* 223	XDOZZ	5120-01-377-1245	11851	CM389T-23A	ADAPTER TOOL,ELECTR	1
* 224	XDOZZ	5120-01-377-4525	11851	CM389T-25A	ADAPTER TOOL,ELECTR	1
* 225	XDOZZ	5120-01-377-1320	11851	CM389T-25B	ADAPTER TOOL,ELECTR	1
* 226	XDOZZ	5120-01-377-1152	11851	CM389B-25	ADAPTER TOOL,ELECTR	1
* 227	XDOZZ	5120-01-368-4133	11851	CM389B-15	ADAPTER TOOL,ELECTR	1
228	XDOZZ	5120-01-377-1193	11851	CM387-14B	ADAPTER TOOL,ELECTR	1
229	XDOZZ	8125-01-347-5348	11851	4-1254	BOTTLE,SNAP-ON CAP	55
230	PAOZZ	5340-01-342-4898	11851	4-1249	PLUG,PROTECTIVE,DUS	55
231	PEFFF	5935-01-350-8391	18876	13440042	MAINTENANCE KIT, ELE ELECTRICAL CONNECTOR (NOT SHOWN) ...	1
232	PAFZZ	5120-01-035-7847	27264	11-01-0001	INSERTION TOOL,TERM	1
233	PAFZZ	5120-01-082-8467	27264	11-01-0008	CRIMPING TOOL,TERMI	1
234	PAFZZ	5120-01-384-4750	27264	11-03-0002	REMOVER,ELECTRICAL	1
235	PAFZZ	5120-00-028-3318	10001	3188899	REMOVAL TOOL	1
236	PAFZZ	5140-01-301-3988	52346	356-058	CASE,TOOL,RUGGED DUTY	1
237	PAFZZ	4940-00-307-2745	65309	41516	GUN,AIR BLOW	1
238	PAFZZ	5120-01-361-8969	00779	58342-1	CRIMPING TOOL,TERMI	1
239	PAFZZ	5120-01-361-8970	00779	58448-2	CRIMPING TOOL,TERMI	1
240	PAFZZ	5120-01-162-6765	58164	613873	CRIMPING TOOL,TERMI	1
241	PAFZZ	5120-01-430-9446	00779	843477-1	REMOVER,ELECTRICAL	1
242	PAFZZ	5120-01-335-8719	00779	91067-2	INSERTER AND REMOVAL TOOL	1
243	PAFZZ	5120-01-005-9120	06090	993850	HOLDER WIRE, ALIGNME	1
244	PAFZZ	5120-01-378-7209	7Y927	ATX2013	REMOVAL TOOL	1
245	PAFZZ	5120-00-963-7661	71468	CET-C6B	REMOVER, ELECTRICAL	1
246	PAFZZ	5120-00-931-2788	71468	CET20-11	REMOVER, ELECTRICAL	1
247	PAFZZ	5120-01-377-1266	11851	CM389L-17	ADAPTER,TOOL	1
248	PAFZZ	5120-01-377-1180	11851	CM389L-21	ADAPTER,TOOL	1
249	PAFZZ	5120-01-368-4142	11851	CM389L-25	ADAPTER,TOOL	1
250	PAFZZ	5120-01-372-3649	2P953	DCE.91.133.5LA	REMOVER,ELECTRICAL	1
251	PAFZZ	5120-01-372-9370	2P953	DCE.91.133.BVC	CRIMPING TOOL,	1
252	PAFZZ	5120-01-372-9371	2P953	DCE.91.133.BVM	CRIMPING TOOL,	1
253	PAFZZ	5120-01-127-0721	22526	HT-0073	CRIMPING TOOL, TERMI	1
254	PAFZZ	5120-00-124-5439	22526	HT-0095	CRIMPING TOOL, TERMI	1
255	PAFZZ	5129-00-133-1747	81349	M22520-7-01	REMOVER,ELECTRICAL	1
256	PAFZZ	5120-00-133-1770	81349	M22520-7-03	REMOVER,ELECTRICAL	1
257	PAFZZ	5120-00-133-1772	81349	M22520-7-04	CONTACT POSITIONER	1
258	PAFZZ	5120-00-165-3912	81349	M22520/1-01	CRIMPING TOOL,TERMI	1
259	PAFZZ	5120-00-016-6382	81349	M22520/1-02	CRIMPING TOOL,TERMI	1
260	PAFZZ	5120-00-016-6554	81349	M22520/1-03	CONTACT POSITIONER	1
261	PAFZZ	5120-00-016-7582	81349	M22520/1-04	CRIMPING TOOL,TERMI	1
262	PAFZZ	5120-00-165-3910	81349	M22520/2-01	CRIMPING TOOL,TERMI	1
263	PAFZZ	5120-00-017-3809	81349	M22520/2-06	CONTACT POSITIONER	1
264	PAFZZ	5120-00-017-3827	81349	M22520/2-07	CONTACT POSITIONER,	1
265	PAFZZ	5120-00-017-3921	81349	M22520/2-08	CRIMPING TOOL,TERMI	1
266	PAFZZ	5120-00-017-3927	81349	M22520/2-09	CONTACT POSITIONER,	1
267	PAFZZ	5120-00-017-3932	81349	M22520/2-10	CONTACT POSITIONER	1
268	PAFZZ	5120-01-382-7890	81349	M22520/2-20	CONTACT POSITIONER	1
269	PAFZZ	5120-00-018-0575	81349	M81969/14-01	INSERTER AND REMOVE	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 9600 SPECIAL TOOLS						
FIG. 33 SPECIAL TOOLS						
270	PAFZZ	5120-00-915-4588	81349	M81969/14-03	INSERTER AND REMOVE	1
271	PAFZZ	5120-00-915-4587	81349	M81969/14-11	INSTALLING AND REMO	1
272	PAFZZ	5120-00-930-7504	81349	M81969/18-01	INSERTER, ELECTRICAL	1
273	PAFZZ	5120-00-930-7503	81349	M81969/20-01	REMOVER, ELECTRICAL	1
274	PAFZZ	5120-00-133-0144	81349	M81969/29-02	REMOVER, ELECTRICAL	1
275	PAFZZ	5120-00-251-9503	81349	M81969/8-01	INSERTER, ELECTRICAL	1
276	PAFZZ	5120-00-146-6558	81349	M81969/8-02	INSERTER, ELECTRICAL	1
277	PAFZZ	5120-00-137-9140	81349	M81969/8-03	INSERTER, ELECTRICAL	1
278	PAFZZ	5120-00-146-6557	81349	M81969/8-04	REMOVER, ELECTICAL	1
279	PAFZZ	5120-00-177-6967	81349	M81969/8-05	INSERTER, ELECTRICAL	1
280	PAFZZ	5120-00-177-6966	81349	M81969/8-06	INSERTER, ELECTRICAL	1
281	PAFZZ	5120-00-018-0529	81349	M81969/8-07	INSERTER, ELECTRICAL	1
282	PAFZZ	5120-00-409-5206	81349	M81969/8-08	INSERTER, ELECTRICAL	1
283	PAFZZ	5120-00-018-0531	81349	M81969/8-09	INSERTER, ELECTRICAL	1
284	PAFZZ	5120-00-108-9708	81349	M81969/8-10	REMOVER, ELECTRICAL	1
285	PAFZZ	5120-00-020-8628	64334	OE-7/16	ADAPTER, TORQUE	1
286	PAFZZ	5120-00-010-5637	64334	PN1CCM 1501	HANDLE, TORQUE WRENC	1
287	PAFZZ	5120-00-757-5141	8V613	TM016RT006	EXTRACTOR, CONTACT	1
END OF FIGURE						

NATIONAL STOCK NUMBER INDEX

0208 00

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5975-00-009-0173	3	25	5305-00-145-0713	23	11
5120-00-010-5637	33	286		24	11
5120-00-016-6382	33	43		30	11
	33	259		31	11
5120-00-016-6554	33	260	5120-00-146-6557	33	278
5120-00-016-7582	33	44	5120-00-146-6558	33	84
	33	261		33	276
5120-00-017-3809	33	25	5999-00-146-8592	10	2
	33	263		12	8
5120-00-017-3827	33	26		13	2
	33	264		14	7
5120-00-017-3921	33	27		33	116
	33	265	5305-00-150-3425	17	13
5120-00-017-3927	33	28		25	12
	33	266	5305-00-150-3426	24	16
5120-00-017-3932	33	29		31	16
	33	267	5305-00-151-3187	32	50
5120-00-018-0529	33	79	5905-00-151-4639	7	30
	33	281	5999-00-152-9574	33	136
5120-00-018-0531	33	77	6240-00-155-7836	27	15
	33	283		27	30
5120-00-018-0575	33	91	5120-00-157-3138	33	95
	33	269	5310-00-158-5259	27	25
5120-00-020-8628	33	285	5120-00-165-3910	33	33
5120-00-028-3318	33	235		33	262
5310-00-043-4708	19	23	5120-00-165-3912	33	38
	28	4		33	258
5310-00-044-5823	28	22	5120-00-165-3913	33	24
5940-00-050-2308	29	2	5310-00-167-0699	3	35
5305-00-051-6521	3	37		7	33
5305-00-051-6751	19	35	5310-00-167-0818	3	54
5305-00-054-5637	27	28	5999-00-172-8253	3	127
5310-00-057-0573	27	6		3	138
5999-00-058-9439	33	114		3	146
5305-00-059-3661	32	21		33	121
5305-00-059-4550	3	80	5999-00-172-8254	33	117
5305-00-059-4553	6	5	5130-00-176-3991	33	19
5305-00-059-8256	7	34	6210-00-176-4928	3	121
5975-00-060-9488	28	12	6210-00-176-4954	3	123
5975-00-074-2072	32	48	6210-00-176-4955	3	125
6145-00-090-5401	3	154	6210-00-176-4956	3	124
	BULK	5	5310-00-177-1301	19	24
5220-00-090-6722	33	21		20	3
5365-00-097-4399	20	23		28	3
5970-00-101-4669	33	66	5120-00-177-6966	33	82
5120-00-103-9708	33	78		33	280
	33	284	5120-00-177-6967	33	81
5320-00-117-6939	8	6		33	279
5120-00-124-5439	33	254	5120-00-177-7341	33	22
5120-00-126-0860	33	23	5305-00-182-9411	20	18
5120-00-132-5739	33	93		28	15
5120-00-132-6913	33	47	5999-00-190-1887	33	133
5120-00-133-0144	33	274	5310-00-193-7577	3	17
5120-00-133-1747	33	255		6	2
5120-00-133-1770	33	256	5310-00-194-3648	18	7
5120-00-133-1772	33	257		26	7
5999-00-137-5066	3	28		28	31
	3	30	5905-00-195-6289	7	31
5120-00-137-9140	33	277	5905-00-195-6433	7	26
5940-00-143-4771	3	91	5999-00-201-3970	33	115
5940-00-143-4777	11	1	5310-00-208-3786	17	3
5970-00-144-7345	7	9	5305-00-211-8193	3	26

NATIONAL STOCK NUMBER INDEX – CONTINUED

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-211-8193	7	5	5305-00-324-8210	19	25
5120-00-221-7966	33	191		20	22
5310-00-224-0740	17	12		28	23
	18	3	5935-00-351-5944	12	3
	25	11		13	9
	26	3		14	3
5310-00-224-0746	20	5		32	45
	25	5		33	160
	27	3	5999-00-378-0206	33	138
	28	6	5999-00-402-2539	33	140
5310-00-224-0747	18	8	5999-00-402-2545	3	144
	23	10		33	143
	24	10	5930-00-403-8848	22	5
	26	8		27	37
	27	22	5999-00-408-5585	33	119
	30	10	5310-00-409-1763	23	9
	31	10		24	9
5310-00-224-0748	18	4		30	9
	26	4		31	9
5305-00-224-0783	20	21	5120-00-409-5206	33	80
	28	2		33	282
5305-00-227-1543	3	9	5999-00-411-7645	7	7
	5	9		33	146
5305-00-230-8586	3	12	5310-00-420-0737	19	26
5320-00-234-1557	8	6	5905-00-429-6985	7	35
5935-00-235-8970	33	158	5310-00-433-3599	20	16
5999-00-239-3338	3	78		28	16
	33	145	5305-00-433-3741	18	5
5120-00-241-3143	33	192		26	5
5305-00-242-1264	3	48	5305-00-433-3744	18	21
	6	1		25	14
5305-00-242-7275	20	8	5305-00-448-6547	19	13
	27	2		20	26
5999-00-243-6500	33	142		27	21
5331-00-250-0225	2	8		28	30
5120-00-251-9503	33	83	5970-00-451-5970	28	21
	33	275	5305-00-455-2512	20	30
5305-00-256-7282	18	15		28	11
	23	16	5305-00-459-4687	19	2
	26	16		27	44
	30	16		28	37
5305-00-256-7471	20	20	5305-00-465-6745	20	6
	28	20		27	20
5905-00-262-5286	7	20		28	5
5905-00-264-3711	7	3	5310-00-470-3000	18	18
5905-00-273-9607	7	29		26	13
5920-00-280-4960	32	56	5305-00-470-8664	18	17
9505-00-293-4208	27	18		26	14
5325-00-298-7027	8	17	5999-00-473-3551	9	20
4940-00-307-2745	33	237		12	2
5905-00-307-3425	7	1		13	8
5905-00-308-6304	7	37		14	2
5999-00-310-4325	33	113		33	141
5999-00-320-7459	3	129	5999-00-478-4402	33	139
	3	131	5305-00-489-0742	19	32
	3	133	5935-00-489-1959	3	94
	3	140	6145-00-489-8898	3	152
	3	142		BULK	21
	3	148	5305-00-490-4580	20	2
	32	44		28	38
	32	55	5305-00-490-4581	18	9
	33	135		26	9

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5320-00-493-4101	32	39	5970-00-767-0524	3	108
5305-00-494-7333	19	10		7	16
	25	6		22	3
	27	40		32	15A
5935-00-496-7171	10	3		BULK	13
	12	9	5310-00-773-7624	27	23
	13	3	5325-00-804-7651	20	9
	14	8		28	9
	33	159	5305-00-807-7975	23	12
5905-00-500-9318	7	19		24	5
5905-00-509-4009	7	38		30	12
5905-00-509-4058	7	28		31	5
5305-00-518-5734	3	23	5305-00-808-7832	3	38
	5	13	5305-00-808-7834	32	33
6210-00-519-0845	22	22	5310-00-811-6419	15	5
	29	3		16	3
5305-00-519-7255	9	12		16	17
5920-00-532-2629	32	13	5970-00-812-2967	22	15
5310-00-543-4652	3	88		BULK	10
5310-00-559-0070	3	13	5970-00-814-2878	9	3
5935-00-566-3994	7	18		BULK	7
5310-00-579-0079	3	10	5325-00-815-4930	23	4
	5	2		30	4
5310-00-595-6761	27	29	5940-00-816-6103	22	19
5330-00-599-0998	9	6	5970-00-819-9569	7	42
5310-00-616-8660	19	33		BULK	18
	27	13	5930-00-823-0853	27	38
6210-00-617-0938	22	20	5305-00-828-9490	15	3
	29	4		16	7
5340-00-619-7754	20	25		16	19
	28	32	6145-00-839-2119	3	155
5120-00-624-8065	33	74		BULK	4
6145-00-643-0650	3	149	5325-00-843-0003	23	3
	BULK	24		30	3
6145-00-652-1441	3	150	5305-00-855-2991	2	2
	7	15		3	55
	BULK	23	5970-00-871-5779	11	10
6145-00-652-1784	3	151		22	16
	BULK	22		BULK	15
5310-00-687-6664	18	11	5310-00-877-5797	3	53
	27	4	5305-00-889-2997	3	106
	28	7		7	36
5305-00-701-5071	3	118	5305-00-889-3001	7	12
5305-00-716-5458	17	6	5305-00-889-3002	7	41
5310-00-716-5612	6	3	5310-00-905-1691	23	20
5305-00-719-5064	3	4		24	2
5325-00-720-8064	3	50		30	20
5305-00-725-4191	3	93		31	2
5975-00-727-5153	19	8	5930-00-905-7807	22	1
	27	10	5930-00-913-3641	22	7
	28	13		28	26
	29	9	5120-00-915-4587	33	92
5940-00-727-5243	3	22		33	271
5305-00-727-8833	3	24	5120-00-915-4588	33	94
5970-00-740-2971	21	6		33	270
	BULK	9	5970-00-916-2679	3	153
5120-00-757-5141	33	287		BULK	11
5305-00-763-3357	3	86	5310-00-928-2690	27	33
5970-00-767-0515	7	17	5310-00-929-6395	7	13
	22	14		19	34
5970-00-767-0515	32	16	5310-00-929-6395	27	16
	BULK	17		32	8

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5120-00-930-7503	33	273	5935-01-039-4552	3	147
5120-00-930-7504	33	272	5999-01-041-3754	33	131
5120-00-931-2788	33	246	5999-01-044-4099	33	118
5310-00-933-8118	32	53	5999-01-045-3132	33	122
5310-00-933-8120	32	37	5305-01-047-6239	32	40
5310-00-933-8121	23	19	5930-01-049-5779	3	117
	24	3	5999-01-063-1868	33	127
	30	19	6650-01-063-6127	24	12
	31	3		31	12
5310-00-934-9739	3	16	5855-01-063-6168	20	19
5310-00-934-9747	3	14		28	19
5310-00-934-9748	32	52	5855-01-063-6174	20	13
5310-00-934-9757	3	51		28	14
5310-00-934-9765	32	47	5855-01-063-6186	21	1
5310-00-938-2013	3	89		28	35
	27	34	5855-01-063-6187	28	39
5310-00-942-5139	8	9	5999-01-063-6189	27	32
	15	12	5950-01-063-6190	22	13
	16	21		27	9
5970-00-954-1624	9	14	5305-01-063-6191	23	17
	9	17		24	7
	BULK	8		30	17
5305-00-954-3938	9	8		31	7
5305-00-957-2690	27	17	9340-01-063-6192	23	13
5305-00-957-7811	32	22		30	13
5120-00-963-7661	33	245	5305-01-063-6304	23	6
5325-00-980-2555	8	8		30	6
	15	10	5340-01-063-6310	23	7
	16	11		30	7
5310-00-982-4999	18	10	5961-01-063-6385	28	24
	25	10	5999-01-065-3076	33	123
5305-00-984-4988	3	8	5999-01-068-2587	33	120
5340-00-985-6633	27	24	5999-01-068-2590	33	129
5305-00-988-1167	7	2	6650-01-068-3687	20	1
5305-00-988-9220	7	23		28	1
5970-00-990-9911	11	3	5999-01-068-5196	33	128
	BULK	16	5999-01-068-9542	33	125
5970-00-990-9912	3	95	5999-01-068-9548	33	126
	7	25	5999-01-070-3057	33	124
	21	7	5365-01-073-3028	28	25
	22	2	9905-01-073-9737	1	22
	32	17		2	4
	BULK	12		17	4
5305-01-005-3181	3	135		32	25
5120-01-005-9120	33	243	5935-01-074-8627	14	1
5935-01-010-2938	3	132	5935-01-077-5176	13	7
5935-01-015-8263	3	139	5935-01-080-5001	3	47
5935-01-015-8264	3	128	5120-01-082-8467	33	233
5935-01-015-8265	3	130	5910-01-086-5608	3	102
5935-01-017-0158	3	141	5305-01-087-3182	3	103
5305-01-030-8753	3	111	5999-01-089-0801	33	132
	5	1	5998-01-089-8943	5	6
5999-01-032-1188	3	32	5935-01-092-9698	11	6
	3	41	6240-01-093-7323	3	122
5999-01-034-0716	11	7	5340-01-094-9589	3	120
	33	137		15	19
5120-01-035-7847	33	232		16	8
5925-01-037-0466	22	4		32	30
	29	5	5998-01-094-9626	3	68
5120-01-037-1407	33	46	5998-01-094-9630	3	60
5110-01-037-1408	33	20	5998-01-094-9631	3	66

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5998-01-094-9632	3	71	3040-01-118-8706	9	5
5998-01-094-9633	4	1	6625-01-118-8728	9	11
5998-01-094-9634	4	2	6150-01-118-8843	1	5
5998-01-094-9635	4	3	5970-01-119-5707	2	3
5998-01-094-9637	3	74		3	56
5998-01-094-9639	3	72		32	39A
5998-01-094-9640	3	69	5999-01-119-5743	3	62
5998-01-094-9642	3	65	5998-01-119-5745	3	59
5998-01-094-9643	3	70	5998-01-119-5746	3	58
5935-01-094-9922	9	19	6625-01-119-5747	3	82
	12	1	4330-01-119-5748	3	136
5340-01-095-2138	3	36	5365-01-119-5750	3	39
	7	4	5999-01-119-6239	33	130
5935-01-097-0399	33	157	5925-01-120-2897	3	114
5935-01-098-9998	13	1	5999-01-120-2898	8	12
6145-01-099-9118	22	8	5330-01-120-2899	9	9
	BULK	29	4931-01-120-2902	7	10
6240-01-103-3081	19	12	5950-01-120-4163	7	32
5935-01-103-4765	3	137	5999-01-120-4165	3	115
5935-01-107-7294	14	6	4931-01-120-9766	3	99
5935-01-108-4488	10	1	6625-01-121-1404	9	2
	12	7	5340-01-121-1405	9	1
5999-01-109-6689	27	8	3040-01-121-1406	9	7
5935-01-112-5439	3	126	5999-01-123-7941	33	144
6145-01-112-9285	22	12	5120-01-127-0721	33	253
	BULK	2	5998-01-127-5014	3	98
6145-01-115-2036	21	3	5325-01-127-5021	3	109
	22	9	5999-01-127-5022	11	8
	BULK	1	5950-01-127-5023	7	40
5220-01-116-3020	33	37	5950-01-127-8979	7	24
5220-01-116-3021	33	36	5940-01-128-4437	33	101
5220-01-116-3022	33	34	5940-01-128-4438	33	102
5220-01-116-3023	33	35	5940-01-130-5697	3	92
5120-01-116-6115	33	90	5999-01-130-6261	33	111
5120-01-117-3212	33	18	5999-01-130-6262	33	110
5120-01-117-3213	33	12	5120-01-131-6022	33	72
5120-01-117-3214	33	17	5999-01-131-7436	33	105
5120-01-117-3215	33	11	5999-01-131-7437	33	103
5120-01-117-3216	33	16	5999-01-131-7438	33	104
5120-01-117-3217	33	10	5999-01-131-7439	33	106
5120-01-117-3218	33	15	5905-01-134-1187	7	39
5120-01-117-3219	33	9	5905-01-134-1188	7	27
5120-01-117-3220	33	14	5995-01-134-2148	25	8
5120-01-117-3221	33	13	5905-01-135-4769	3	107
5120-01-117-3222	33	8	5940-01-135-7076	12	13
5120-01-117-3310	33	73	5940-01-135-7085	3	160
5999-01-117-3634	33	167	5940-01-135-7086	3	161
5905-01-117-8089	7	21	5940-01-135-7091	12	12
5999-01-118-8638	6	9	5305-01-135-9495	3	83
6150-01-118-8651	1	4	5940-01-136-2540	10	8
6625-01-118-8661	1	6	6640-01-136-7362	2	7
5325-01-118-8671	7	8	5961-01-136-7366	7	11
	19	20	5999-01-138-5637	33	166
5340-01-118-8672	3	79	5855-01-141-5190	19	17
	21	4		27	41
6625-01-118-8686	3	81	5998-01-142-2647	3	33
6625-01-118-8694	3	44	5998-01-142-2687	5	15
6625-01-118-8695	3	43	6150-01-142-2709	9	15
5998-01-118-8703	3	100	6150-01-142-5585	1	7
5998-01-118-8704	9	10	6150-01-142-5586	1	8
6635-01-118-8705	9	4	6150-01-142-5587	1	9

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5340-01-144-3005	3	18	6145-01-183-4137	BULK	26
5340-01-144-5534	8	3	5999-01-183-6522	33	134
5340-01-144-5535	8	2	5998-01-184-6413	3	73
6625-01-146-6241	2	1	5999-01-184-6414	3	64
5999-01-146-6276	3	110	5999-01-184-6415	3	63
4931-01-146-6448	33	4	5945-01-189-1874	3	49
4931-01-146-6450	33	67	6145-01-191-3321	11	11
4931-01-146-6451	33	7		BULK	25
4931-01-146-6452	33	6	5999-01-193-0286	33	168
4931-01-146-6453	33	5	4931-01-193-4731	33	69
4931-01-146-6454	33	2	5340-01-193-6750	32	19
4931-01-146-6455	33	68	5998-01-193-6788	3	67
4931-01-146-6456	33	63	5305-01-194-0385	5	18
4931-01-146-6457	33	3	5310-01-195-0303	19	27
9905-01-146-6461	2	6	5340-01-201-9078	19	29
5999-01-146-6466	33	109	5935-01-203-3258	3	157
7690-01-146-6473	8	16	5935-01-207-5632	1	16
5998-01-146-7700	1	26	5935-01-207-5633	1	11
5975-01-149-8627	27	11	5935-01-207-5634	3	87
5935-01-151-4421	29	6	4931-01-207-5635	1	24
5962-01-152-0350	7	14	2590-01-207-5665	15	15
5935-01-153-7510	1	13	2590-01-207-5666	15	14
5935-01-153-7511	1	17	2590-01-207-5667	15	16
5935-01-153-7512	1	14	4931-01-207-5668	1	25
5935-01-153-7513	1	12	2590-01-207-5670	16	4
5340-01-153-8249	8	1	2590-01-207-5671	16	5
5935-01-153-8301	1	19	5340-01-207-5672	16	2
5935-01-154-0924	1	10	7690-01-207-5731	1	2
6150-01-154-1869	9	16	7690-01-207-5735	1	27
5310-01-156-7514	8	11	5998-01-207-5904	3	61
	15	4	5935-01-209-6591	22	23
	16	18	5855-01-212-1623	23	8
5935-01-157-9563	3	145		24	8
5325-01-158-6752	8	10		30	8
	15	6		31	8
	16	15	5330-01-217-2024	8	7
5999-01-158-8887	33	155		BULK	19
5905-01-160-2571	7	22	5855-01-218-3733	23	1
6145-01-162-6049	13	5		30	1
	32	15	5855-01-218-3734	23	2
	BULK	31		30	2
5120-01-162-6765	33	240	5855-01-218-3735	24	1
5935-01-162-8599	28	29		31	1
4730-01-165-0546	9	13	5935-01-220-3041	3	159
5935-01-165-2948	3	143	5930-01-221-9158	20	12
6145-01-169-5661	32	14		28	8
	BULK	28	5365-01-221-9180	19	16
6145-01-170-4658	10	5		27	42
	12	4	5855-01-222-5802	28	40
	13	4	5340-01-224-6380	9	21
	14	4		12	11
	BULK	30	5340-01-224-6381	10	7
6145-01-170-6398	11	12		12	10
	BULK	27	5340-01-224-6382	11	5
7690-01-173-9940	1	3	5340-01-224-6383	13	10
5935-01-176-7192	3	156		14	10
5935-01-176-8988	22	21	5340-01-224-6384	13	11
	29	1		14	9
6145-01-181-0868	10	6	5305-01-224-9128	15	13
	12	5		16	6
	BULK	6	6145-01-225-2210	22	10
6145-01-183-4137	11	2		BULK	3

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STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5120-01-227-3173	33	75	5120-01-344-3774	33	71
5340-01-228-3413	33	180	5999-01-344-8758	33	148
5999-01-230-8821	3	75	5999-01-344-8759	33	152
5998-01-231-3236	3	57	5999-01-344-8760	33	162
5120-01-231-5725	33	97	8125-01-347-5348	33	99
5910-01-232-6460	3	19		33	229
5945-01-235-6547	3	42	5340-01-347-9722	19	30
6625-01-237-3640	8	5	5935-01-350-8391	33	231
4931-01-242-1633	3	134	6130-01-351-6823	3	116
4931-01-242-2435	3	11	5310-01-352-9575	32	20
7530-01-242-2476	3	84	5310-01-352-9588	32	9
5940-01-243-6938	3	29	5975-01-361-4845	19	9
5940-01-243-6939	3	27	5120-01-361-8969	33	238
5940-01-243-6949	3	31	5120-01-361-8970	33	239
5940-01-243-6950	3	40	5120-01-361-9362	33	61
4140-01-246-6845	3	85	5120-01-361-9451	33	96
5310-01-253-1618	3	52	5120-01-361-9452	33	41
5330-01-254-5201	8	7	5120-01-361-9454	33	40
	BULK	20	5120-01-361-9498	33	39
5120-01-255-7892	33	221	5120-01-361-9593	33	62
5310-01-258-8502	18	20	5120-01-361-9594	33	64
	25	13	5120-01-361-9642	33	30
5855-01-259-6897	27	26	5120-01-361-9646	33	31
5340-01-260-1521	18	19	5120-01-361-9656	33	32
	25	9	5120-01-361-9708	33	45
5935-01-264-2839	22	17	5120-01-361-9709	33	42
5999-01-279-3055	33	151	5120-01-367-0272	33	189
5340-01-280-0353	3	6	5120-01-368-4133	33	227
5340-01-281-8317	3	2	5120-01-368-4142	33	249
5935-01-282-2053	21	5	5120-01-372-3649	33	250
5935-01-282-2054	22	6	5120-01-372-9370	33	251
5935-01-282-3114	7	6	5120-01-372-9371	33	252
5935-01-284-2870	3	77	5120-01-377-1152	33	226
5140-01-301-3988	33	236	5120-01-377-1172	33	212
5305-01-302-7534	32	23	5120-01-377-1178	33	215
5935-01-305-0809	3	158	5120-01-377-1180	33	248
4931-01-310-0379	1	18	5120-01-377-1188	33	204
6625-01-317-5433	25	3	5120-01-377-1193	33	228
5970-01-327-1155	22	11	5120-01-377-1200	33	211
	BULK	14	5120-01-377-1207	33	222
5998-01-331-2983	3	90	5120-01-377-1215	33	213
5120-01-335-8672	33	89	5120-01-377-1230	33	216
5120-01-335-8674	33	85	5120-01-377-1245	33	223
5120-01-335-8675	33	65	5120-01-377-1252	33	203
5120-01-335-8716	33	86	5120-01-377-1266	33	247
5120-01-335-8719	33	242	5120-01-377-1288	33	202
5120-01-335-8842	33	70	5120-01-377-1302	33	214
5120-01-338-2697	33	76	5120-01-377-1320	33	225
5310-01-338-4121	32	32	5120-01-377-4525	33	224
5999-01-341-0416	3	76	5120-01-377-4527	33	201
5340-01-342-4898	33	100	5120-01-377-4568	33	218
	33	230	5120-01-377-4600	33	200
5935-01-342-4914	33	107	5120-01-377-4605	33	219
5935-01-342-4915	33	108	5120-01-378-7209	33	244
7690-01-342-5896	33	60	5120-01-379-0140	33	205
5999-01-343-8903	33	149	5120-01-379-0142	33	209
5999-01-343-8904	33	150	5120-01-379-0146	33	210
5999-01-343-8905	33	164	5120-01-379-0161	33	208
5999-01-343-8906	33	153	5120-01-379-0172	33	207
5999-01-343-8907	33	154	5120-01-379-0173	33	220
5999-01-343-8908	33	147	5120-01-379-0193	33	206
5935-01-344-1073	33	1	5120-01-379-0194	33	217

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5915-01-382-6285	3	102	5940-01-507-0329	11	13
5120-01-382-7890	33	268	5998-01-532-7956	3	98
5998-01-383-8420	3	97	5975-01-540-0337	32	28
5120-01-384-4750	33	234	5998-01-546-3022	3	59
5325-01-397-8145	15	18	5998-01-546-3023	3	97
	16	9	5998-01-546-5216	3	73
3120-01-398-5008	3	7	5998-01-546-6671	3	57
5310-01-408-7083	19	3	5998-01-546-6672	3	62
	20	10	5998-01-546-6673	3	72
5310-01-408-7088	19	14	5325-01-569-3036	15	17
	20	27		16	1
5310-01-409-0185	19	4			
	20	11			
5310-01-419-4523	19	28			
6150-01-419-4978	19	6			
5998-01-419-4979	19	31			
5998-01-419-4980	19	37			
5310-01-420-3002	20	17			
5995-01-421-3554	17	10			
5340-01-421-9458	20	4			
6625-01-421-9775	1	15			
6920-01-430-3514	19	18			
5120-01-430-8597	33	88			
5120-01-430-8601	33	87			
5120-01-430-9446	33	241			
5310-01-431-8744	19	21			
6920-01-433-0841	20	32			
6920-01-433-0842	20	34			
7690-01-434-1605	19	36			
	27	43			
5935-01-436-9147	33	165			
6625-01-439-5598	17	7			
5340-01-439-7286	24	14			
	31	14			
5340-01-439-8888	24	15			
	31	15			
5310-01-440-3574	17	5			
5340-01-441-1741	18	5A			
5998-01-442-2902	21	2			
5999-01-443-8859	20	33			
6680-01-448-6485	32	1			
5998-01-449-4177	32	41			
5935-01-450-8346	32	54			
5935-01-451-0115	32	38			
5935-01-451-0170	32	34			
5935-01-451-0222	32	35			
6150-01-451-0303	32	3			
6150-01-451-0305	32	10			
6150-01-451-0318	32	27			
6150-01-451-0341	32	5			
5935-01-451-0568	32	31			
5305-01-453-4312	32	7			
5305-01-453-6874	32	24			
5998-01-454-2065	32	46			
5340-01-455-5222	17	2			
	25	2			
5305-01-455-9754	32	36			
5999-01-460-0654	33	170			
5935-01-473-9220	32	43			
5935-01-478-6892	9	18			
5995-01-485-3478	17	11			
6150-01-497-7253	20	24			

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AA59126/09-9-02	3	22	CM389TR-19B	33	208
AN960B6	3	35	CM389TR-21A	33	209
	7	33	CM389TR-23A	33	220
AS39029/56-348	3	129	CM389TR-25A	33	219
	3	131	CM389TR-25B	33	218
	3	133	CM389TR-9A	33	200
	3	140	CM389TR-9B	33	201
	3	142	CS10	33	12
	3	148	CS12	33	17
	32	44	CS14	33	11
	32	55	CS16	33	16
	33	135	CS18	33	10
ATC 2234	33	188	CS20	33	15
ATX2013	33	244	CS22	33	9
A1007	32	13	CS22-1	33	8
A18-LT	33	180	CS24	33	14
A35T24	15	17	CS24-1	33	13
	16	1	CS8	33	18
BT-A-6010	33	97	CW100-1	33	2
BT-BS-609	33	70	CW100-2	33	3
BT-HT-100	33	191	CW100-3	33	4
BT-HT-107	33	192	CW100-4	33	5
BT-J-130 AL	33	199	CW100-5	33	6
BT-J-133 AL	33	198	CW100-6	33	7
BT-J-138 AL	33	197	C15109-8	27	24
BT-J-139 AL	33	196	DAK83-12B	33	89
BT-J-142 AL	33	195	DAK83-20B	33	85
BT-J-146 AL	33	194	DAK96-12	33	62
BT-J-149 AL	33	193	DAK96-16	33	64
B1867EA040100	32	24	DCE.91.133.BVC	33	251
B1867EC035100	32	7	DCE.91.133.BVM	33	252
CET-C6B	33	245	DCE.91.133.5LA	33	250
CET20-11	33	246	DMC179-WL	33	98
CG12	33	37		33	179
CG16	33	36	DMC262-5FM	33	177
CG20	33	34	DMC63-CCA	33	49
CG22	33	35	DMC63-CCB	33	59
CM387-14B	33	228	DMC63-CCC	33	161
CM389B-15	33	227	DMC63-CS/N-1	33	48
CM389B-25	33	226	DMC63-NP	33	58
CM389L-17	33	247	DMC63-VLS	33	60
CM389L-21	33	248	DMC63-WS/N-3	33	50
CM389L-25	33	249	DMC63SUPP-CCA	33	181
CM389T-11A	33	214	DMC63SUPP-CCB	33	178
CM389T-11B	33	215	DMC63SUPP-HBK	33	182
CM389T-13A	33	213	DMC63SUPP-NP	33	175
CM389T-15A	33	212	DMC63SUPP-1FM	33	184
CM389T-15B	33	211	DMC63SUPP-2FM	33	185
CM389T-17A	33	210	DMC63SUPP-3FM	33	186
CM389T-19A	33	221	DMC63SUPP-4FM	33	172
CM389T-21A	33	222	DMC63SUPP-5FM	33	173
CM389T-23A	33	223	DMC730-12FM	33	187
CM389T-25A	33	224	DMC730-16FM	33	171
CM389T-25B	33	225	DMC730-19FM	33	174
CM389T-9A	33	216	DRK105	33	61
CM389T-9B	33	217	DRK110	33	65
CM389TR-11A	33	202	DRK83-12	33	90
CM389TR-13A	33	203	DRK83-20B	33	86
CM389TR-15A	33	204	DRK96	33	96
CM389TR-15B	33	205	DW75	33	73
CM389TR-17A	33	206	D38999/44FJ35SC	32	54
CM389TR-19A	33	207	F02A250V2A	32	56

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HT-0073	33	253	MS20426D3-4	16	13
HT-0095	33	254	MS20995C32	27	18
HX3-82	33	46	MS21042-04	15	5
INSULTAPETYPE1 3-4IN	33	66		16	3
IS-1A/IS-1B	33	51		16	17
IS-2A/IS-2B	33	52	MS21044C04	18	10
IS-3A/IS-3B	33	53		25	10
IS0087/IS0106	33	54	MS21044N3	3	53
IS0132/IS0033	33	55	MS21209C0615	23	4
K280	33	30		30	4
K330-3	33	31	MS24547-2	22	5
K496-1	33	190		27	37
K503	33	32	MS24674-1	27	17
LC35GT2	3	125	MS24693-S25	3	37
LC35RT2	3	123	MS24693-S272	32	22
LC35WT2	3	124	MS24693-S29	3	38
LH89/1	3	121	MS24693-2	32	40
MD-3452-G	7	18	MS24693-270	32	23
MS122078	23	3	MS24693-6	32	33
	30	3	MS24693-70	32	50
MS15795-802	27	29	MS24693-70B	15	13
MS15795-802B	20	16		16	6
	28	16	MS24693-9B	9	12
MS15795-804B	18	11	MS25036-103	3	91
	27	4	MS25036-154	11	13
	28	7	MS25036-157	11	1
MS15795-805B	23	9	MS25237-327	27	15
	24	9		27	30
	30	9	MS25237-8918	3	122
	31	9	MS27467E25F35PB	13	7
MS15795-806B	18	7	MS27467E25F35PC	14	1
	26	7	MS27467T13B4S	11	6
	28	31	MS27467T15F35P	9	19
MS15795-807B	17	12		12	1
	18	3	MS27468E15F35SA	32	43
	25	11	MS27468E25F35S	3	139
	26	3	MS27468E25F35SA	3	128
MS15795-810	23	18	MS27468E25F35SB	3	141
	24	4	MS27468E25F35SC	3	130
	30	18	MS27468T13F4P	3	143
	31	4	MS27468T15B35S	3	147
MS15795-810B	18	18	MS27468T23B35S	3	132
	26	13	MS27488-12-1	33	157
MS15795-845B	19	28	MS27488-16-1	33	158
MS16624-1025	3	50	MS27488-20-1	10	3
MS16624-4081	20	9		12	9
	28	9		13	3
MS16995-16	19	35		14	8
MS16995-18B	23	11		33	159
	24	11	MS27488-22-1	12	3
	30	11	MS27488-22-1	13	9
	31	11		14	3
MS16995-19B	18	15		32	45
MS16995-19B	23	16		33	160
	26	16	MS29513-118	2	8
	30	16	MS29513-8	9	6
MS16997-10L	3	83	MS3212-36	2	2
MS20257-4-800	15	8		3	55
	16	14	MS3367-1-9	32	48
MS20426AD3-5	8	6	MS3367-4-9	19	8
MS20426A3-6	8	6		27	10
MS20426D3-4	15	9		28	13

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MS3367-4-9	29	9	MS35649-224	27	34
MS3474L16-26SW	3	126	MS35649-242	3	16
MS3474W12-3P	22	21	MS35649-244	32	52
	29	1	MS35649-244B	27	25
MS3474W24-61S	3	137	MS35649-262	3	14
MS3474W24-61SW	3	145	MS35649-282	3	51
MS3476W16-26PW	10	1	MS35649-284B	19	26
	12	7	MS35650-304	32	47
MS3476W24-61P	13	1	MS51029-117	5	18
MS3476W24-61PW	14	6	MS51412-18	3	52
MS35190-235	3	80	MS51849-12	3	135
MS35190-238	6	5	MS51849-13	3	48
MS35206-204	7	2		6	1
MS35206-207	9	8	MS51849-32	3	111
MS35206-215	3	106		5	1
	7	36	MS51849-33	3	9
MS35206-228	3	8		5	9
MS35206-231	7	12	MS51849-34	3	12
MS35206-242	7	41	MS51849-35	3	23
MS35214-31	7	34		5	13
MS35214-8	7	23	MS51849-36	3	103
MS35333-36	3	17	MS51849-54	3	26
	6	2		7	5
MS35333-37	3	10	MS51859-2	6	3
	5	2	MS51957-13B	19	10
MS35333-38	3	13		25	6
MS35333-69	3	88		27	40
MS35333-69B	20	17	MS51957-138	17	6
MS35333-70B	19	3	MS51957-14B	19	2
	20	10		27	44
MS35333-71B	19	14		28	37
	20	27	MS51957-15B	20	8
MS35333-72B	19	27		27	2
MS35338-134	27	33	MS51957-16B	20	6
MS35338-134B	19	24		27	20
	20	3		28	5
	28	3	MS51957-18B	18	21
MS35338-135	32	53		25	14
MS35338-135B	20	5	MS51957-27B	19	13
	25	5		20	26
	27	3		27	21
	28	6		28	30
MS35338-136	7	13	MS51957-29B	18	9
	19	34		26	9
	27	16	MS51957-3	27	28
	32	8	MS51957-3B	20	2
MS35338-136B	18	8		28	38
MS35338-136B	23	10	MS51957-33B	24	16
	24	10		31	16
	26	8	MS51957-4B	20	21
	27	22		28	2
	30	10	MS51957-41B	19	32
	31	10	MS51957-44B	18	5
MS35338-137B	18	4		26	5
	26	4	MS51957-46B	17	13
MS35338-138	32	37		25	12
MS35338-139	23	19	MS51957-5B	20	18
	24	3		28	15
	30	19	MS51957-6B	19	25
	31	3		20	22
MS35431-3	29	2		28	23
MS35649-224	3	89	MS51957-7B	20	20

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MS51957-7B	28	20	M22759/32-20-9	32	14
MS51958-65	32	21	BULK		28
MS51958-80B	18	17	M22759/32-22-9	22	8
	26	14	BULK		29
MS51959-13B	20	30	M22759/32-24-9	10	5
	28	11		12	4
MS51959-3	3	24		13	4
MS51959-30	3	4		14	4
MS51959-6	3	86	BULK		30
MS51959-61	3	118	M22759/32-26-9	13	5
MS51959-7	3	93		32	15
MS51972-1	23	20	BULK		31
	24	2	M23053/5-103-9	7	42
	30	20	BULK		18
	31	2	M23053/5-106-9	9	3
MS77066-2	22	19	BULK		7
MS90310-211	22	1	M23053/5-107-0	9	14
MS90310-221	22	7		9	17
	28	26	BULK		8
M15733/49-0008	3	102	M23053/5-107-9	21	6
M16878/1BEE9	3	152	BULK		9
	BULK	21	M23053/5-108-0	22	15
M16878/1BFE9	3	151	BULK		10
	BULK	22	M23053/5-202-C	3	153
M16878/1BGE9	3	150	BULK		11
	7	15	M23053/5-203-C	22	11
	BULK	23	BULK		14
M16878/1BJE9	3	149	M23053/5-204-C	3	95
	BULK	24		7	25
M22520-7-01	33	255		21	7
M22520-7-03	33	256		22	2
M22520-7-04	33	257		32	17
M22520/1-01	33	38	BULK		12
	33	258	M23053/5-205-C	7	17
M22520/1-02	33	43		22	14
	33	259		32	16
M22520/1-03	33	260	BULK		17
M22520/1-04	33	44	M23053/5-206-C	3	108
	33	261	M23053/5-206-C	7	16
M22520/2-01	33	33		22	3
	33	262		32	15A
M22520/2-02	33	24	BULK		13
M22520/2-06	33	25	M23053/5-208-C	11	10
	33	263		22	16
M22520/2-07	33	26	BULK		15
	33	264	M23053/5-210-C	11	3
M22520/2-08	33	27	BULK		16
	33	265	M24243/1-B604	32	39
M22520/2-09	33	28	M24308/2-1F	22	6
	33	266	M24308/2-3F	3	77
M22520/2-10	33	29	M24308/4-1F	21	5
	33	267	M24308/4-3F	7	6
M22520/2-20	33	268	M2700-969	33	183
M22520/3-1	33	21	M27500-22ML2T08	3	154
M22520/5-01	33	47		BULK	5
M22520/5-100	33	23	M27500-22SB2U00	21	3
M22759/32-16-0	11	11		22	9
	BULK	25	BULK		1
M22759/32-16-5	11	2	M27500-22SB3U00	22	12
	BULK	26	BULK		2
M22759/32-16-9	11	12	M27500-24SB1T23	10	6
	BULK	27		12	5

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M27500-24SB1T23	BULK	6	M55302/55-A20H	3	157
M27500-24SB2U00	22	10	M55302/62-A10H	29	6
	BULK	3	M55302/62LA10H	22	18
M27500/22ML1T08	3	155	M55302/63-A10H	28	29
	BULK	4	M55302/63-A14H	3	159
M39003/01-8234	3	19	M55302/63-A20H	22	17
M39016/6-107P	3	49	M55302/63-A36H	3	156
M39019/01-225	22	4	M55302/63A44H	3	158
	29	5	M6106/19-022	3	42
M39029/1-101	3	28	M6363/8-6AS15	19	12
	3	30	M81714/2-D-B1	3	27
M39029/1-102	3	32	M81714/2-DA1	3	29
	3	41	M81714/3-DA1	3	31
M39029/1-507	33	168	M81714/3-DB1	3	40
M39029/22-191	33	126	M81714/5-1	3	25
M39029/22-192	33	127	M81714/69-01	33	71
M39029/22-193	33	128	M81969/1-02	33	93
M39029/29-212	33	129	M81969/14-01	33	91
M39029/29-213	33	130		33	269
M39029/29-215	33	166	M81969/14-03	33	94
M39029/30-217	33	131		33	270
M39029/30-218	33	132	M81969/14-04	33	95
M39029/30-219	33	133	M81969/14-07	33	189
M39029/30-221	33	167	M81969/14-11	33	92
M39029/35-441	33	134		33	271
M39029/4-110	10	2	M81969/18-01	33	272
	12	8	M81969/18-02	33	75
	13	2	M81969/20-01	33	273
	14	7	M81969/20-02	33	76
	33	116	M81969/29-02	33	274
M39029/4-111	33	117	M81969/8-01	33	83
M39029/4-112	33	118		33	275
M39029/4-113	33	119	M81969/8-02	33	84
M39029/4-114	33	120		33	276
M39029/5-115	3	127	M81969/8-03	33	277
M39029/5-115	3	138	M81969/8-04	33	278
	3	146	M81969/8-05	33	81
	33	121		33	279
M39029/5-116	33	122	M81969/8-06	33	82
M39029/5-117	33	123		33	280
M39029/5-118	33	124	M81969/8-07	33	79
M39029/5-119	33	125		33	281
M39029/56-351	33	136	M81969/8-08	33	80
M39029/56-352	11	7		33	282
	33	137	M81969/8-09	33	77
M39029/56-353	33	138		33	283
M39029/57-354	33	139	M81969/8-10	33	78
M39029/57-359	33	140		33	284
M39029/58-360	9	20	M81969/8-207	33	87
	12	2	M81969/8-208	33	88
	13	8	M83439/02-001	3	102
	14	2	M83519/1-1	12	13
	33	141	M83519/1-2	10	8
M39029/58-363	33	142	M83519/2-12	10	9
M39029/58-364	3	144	M83519/2-13	12	12
	33	143	M83519/2-7	3	160
M39029/58-365	33	144	M83519/2-8	3	161
M39029/63-368	3	78	M8805/99-009	3	117
	33	145	NAS1149CN416B	17	5
M39029/64-369	7	7	NAS1149CN432B	19	4
	33	146		20	11
M49466/01-007P	7	9	NAS1149CN432R	32	32

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NAS1149CN632R	32	9	SM-C-804955	24	7
NAS1149C0363R	32	20		30	17
NAS1149F0363P	3	54		31	7
NAS1464-034-06T	3	21	SM-C-805314-121	28	27
NAS1515H02L	28	22	SM-C-805314-122	28	28
NAS1515M02	28	21	SM-C-805314-97	29	8
NAS1829C4G04	19	30	SM-C-805314-98	29	7
NAS1829C4G10	19	29	SM-C-805660	24	14
NAS514P440-6P	15	3		31	14
	16	7	SM-C-805661	24	15
	16	19		31	15
NAS620C2	19	23	SM-C-805665	18	13
	28	4		26	11
NAS620C4	27	6	SM-C-805858	19	16
NAS620C6	27	23		27	42
NAS671C4	17	3	SM-C-805997-1	27	38
NAS671C6	19	33	SM-C-806052-2	27	11
	27	13	SM-C-806462-2	22	22
OE-7/16	33	285		29	3
PN1CCM 1501	33	286	SM-C-806462-3	22	20
RER40F10R0R	7	30		29	4
RER40F1000R	7	31	SM-C-807127	19	17
RER40F2R00R	7	20		27	41
RER40F2000R	7	29	SM-C-807128	20	19
RER40F2870R	7	26		28	19
RER40F4870R	7	27	SM-C-807130	19	5
RER40F5R62R	7	21	SM-C-807130	27	7
RER40F6040R	7	19	SM-C-807131	20	31
RER40F61R9R	7	28		28	36
RER45F27R4R	7	3	SM-C-807132	20	15
RER45F90R9R	7	1		28	17
RER50F46R4R	7	22	SM-C-807133	27	32
RER55F10R0R	7	35	SM-C-807134	27	35
RER55F30R1R	7	38	SM-C-807138	28	39
RER55F36R5R	7	39	SM-C-807140	27	19
RER75F13R0R	7	37	SM-C-807142	19	1
RF3 1-2	8	17		27	1
SKM2000	8	7	SM-C-807150	28	24
	BULK	19	SM-C-807159	27	27
SM-C-772436-4	20	25	SM-C-807178	25	8
	28	32	SM-C-807182	20	13
SM-C-772442-2	23	12		28	14
	24	5	SM-C-807194	20	1
	30	12		28	1
	31	5	SM-C-807197	20	29
SM-C-773868-1	20	23		28	34
SM-C-773868-2	28	25	SM-C-807513-1	25	4
SM-C-773868-3	27	36	SM-C-968319-1	19	36
SM-C-773920-3	20	36		27	43
	28	10	SM-C-968334-1	18	19
SM-C-773929-7	23	6		25	9
	30	6	SM-C-968335-1	18	20
SM-C-804715-1	28	12		25	13
SM-C-804949	23	5	SM-C-968336	20	12
	30	5		28	8
SM-C-804950	23	14	SM-C-968337	27	39
	30	14	SM-C-968339	28	40
SM-C-804951	23	15	SM-C-969726	17	2
	30	15		25	2
SM-C-804953	23	7	SM-D-804944	26	10
	30	7	SM-D-804945	18	14
SM-C-804955	23	17		26	12

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SM-D-804946	23	13	031-8555-000	33	153
	30	13	031-8555-050	33	154
SM-D-804947	23	2	031-8555-051	33	147
	30	2	031-8556-000	33	155
SM-D-804952	23	8	031-8613-000	33	170
	24	8	031-8714-050	33	163
	30	8	10-40564	33	169
	31	8	10-581808	33	110
SM-D-804954	23	1	11-01-0001	33	232
	30	1	11-01-0008	33	233
SM-D-804956	18	2	11-03-0002	33	234
	26	2	11-7370-5T1	33	67
SM-D-804957	24	12	11-7674-3T1	33	68
	31	12	11019315-1	8	9
SM-D-805110	25	7		15	12
SM-D-805111-1	17	1		16	21
	25	1	12279993	3	119
SM-D-805658	24	6	12280050	3	107
	31	6	12280055	3	36
SM-D-805659	24	13		7	4
	31	13	12280055-2	20	4
SM-D-805662	24	1	12280059	3	68
	31	1	12280063	3	112
SM-D-805663	18	16	12280117	7	11
	26	15	12280124	3	60
SM-D-806034-1	22	13	12280128	3	66
	27	9	12280132	3	71
SM-D-807126	27	26	12280136	4	1
SM-D-807144	20	35	12280140	4	2
	28	41	12280144	4	3
SM-D-807145	20	28	12280152	3	74
	28	33	12280160	3	72
SM-D-807146	21	1	12280164	3	69
	28	35	12280173-2	3	109
SM-D-807147	27	12	12280174	11	8
SM-D-807155	20	7	12280175	7	24
	27	5	12280176	3	65
SM-D-807158	27	31	12280180	7	40
SM-D-807169	27	14	12280181	7	32
SM-D-807200	18	6	12280184	3	70
	26	6	12280196-1	3	46
SM-D-808662	27	8	12280198	3	114
SM-D-808663	26	1	12280207	3	82
TH369	33	45	12280210	3	113
TH378	33	42	12280211	3	34
TH452	33	41	12280216-3	5	8
TH514	33	40	12280217-1	5	10
TM016RT006	33	287	12280217-2	5	4
TP580	33	39	12280218-1	5	11
TSC63-1/2	33	56	12280218-2	5	5
TSC63-3/4	33	57	12280219-1	5	14
TW-1	33	19	12280219-2	5	16
XTC20R07	8	7	12280220	5	7
	BULK	20	12280222	3	45
030-8557-000	33	156	12280224-2	3	136
030-8586-000	33	148	12280245	8	12
030-8586-050	33	149	12280246	3	18
030-8586-051	33	150	12280283	3	62
030-8587-000	33	151	12280291	3	59
030-8588-000	33	152	12280295	3	58
030-8614-000	33	162	12285280	1	22
031-8521-000	33	164		2	4

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PART NUMBER	FIG.	ITEM	PART NUMBER	FIG.	ITEM
12285280	17	4	12309785	9	9
	32	25	12309786	9	16
12301865	2	3	12309787	9	18
	3	56	12309817	1	1
	32	39A	12309837	3	98
12301876	3	105	12309841-1	3	57
12301883	3	15	12309845-1	3	97
12301886-1	7	8	12309861-1	6	9
	19	20	12309869	3	100
12301886-2	3	79	12309873	9	10
	21	4	12309882	9	1
12301887	5	6	12309885	3	110
12301888	3	115	12309888	3	101
12301890	3	47	12309893	3	104
12301897	7	43	12309895	5	17
12301899-1	3	92	12309896	5	15
12301899-2	3	94	12309897	3	5
12301899-4	3	87	12309898	3	33
12301903	3	39	12309904	9	15
12301904	8	1	12309914	1	4
12301905	8	3	12309919	1	5
12301906	8	2	12309939	1	6
12301954	3	81	12309940	9	2
12301962	3	44	12309941	9	4
12301963	3	43	12309942	9	11
12309035	1	19	12309943	9	5
12309036-3	1	16	12309944	9	7
12309036-4	1	18	12312033	3	1
12309037-2	1	15	12312034	3	3
12309038-1	1	10	12312035	5	3
12309038-3	1	11	12312036	5	12
12309039	1	17	12312039	8	13
12309040-1	1	14	12312040	8	16
12309040-2	1	12	12312041	3	73
12309041	1	13	12322192	3	64
12309042	1	7	12322200	3	63
12309043	1	8	12323284-1	3	90
12309044	1	9	12323290-5	1	3
12309060	1	26	12323295	32	19
12309074	2	1	12323312	3	75
12309093	9	13	12323316	8	5
12309106	2	6	12337176	3	67
12309109-1	8	8	12337224	3	2
	15	10	12354484	3	61
	16	11	12354496	1	2
12309110-1	8	10	12354499-09	11	5
	15	6	12354499-10	9	21
	16	15		12	11
12309110-2	8	11	12354499-11	10	7
	15	4		12	10
	16	18	12354499-17	13	11
12309118	2	7		14	9
12309754	2	5	12354499-18	13	10
12309776	8	5		14	10
12309776-1	8	14	12354503	16	2
12309776-2	8	15	12354504-1	16	4
12309779-1	3	96	12354504-2	16	5
12309780-1	6	7	12354505-1	15	1
12309780-2	6	4	12354505-2	16	10
12309781-1	6	8	12354506-1	15	7
12309781-2	6	6	12354506-2	16	20
12309782	3	99	12354507-1	16	12

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PART NUMBER	FIG.	ITEM	PART NUMBER	FIG.	ITEM
12354507-2	15	11	12972106-2	32	5
12354508	15	2	12972117	32	36
	16	16	12972119	32	38
12354509	15	14	12972120	32	2
12354515-1	15	15	12972125-1	32	31
12354515-2	15	16	12972125-3	32	35
12354532	1	27	12972126-6	32	34
12354535-1	1	24	12972131	32	28
12354535-2	1	25	12972142	32	1
12354555	3	134	12981690	20	14
12359976	3	11		28	18
12359978	1	28	12990368	17	11
12359985	3	20	12999709	14	5
12360015	3	85	13006058	3	98
12360081	3	84	13008914	3	73
12596191	3	6	13010072	3	57
12596414	11	9	13011503	3	72
12596621-5	1	20	13011504	3	62
12596622	1	21	13011525	3	97
12596795	1	29	13011950	3	59
12596796	1	23	13014841	13	6
12596801	3	116	13018968-1	15	17
12596820	3	76		16	1
12596960	19	37	13440042	33	231
12596963	19	31	13457996	19	9
12830-05	33	72	226/02-0374	8	4
12927309	25	3	232/58-0299	7	14
12951496	17	7	238/07-1885	7	10
12951546	18	1	250626	10	4
12951547	17	10	250816	11	4
12951548	17	8	251023	12	6
12951549	18	12	27901/A	33	112
12951550	19	18	27901/CH	33	114
12951551	21	2	27911-T9	33	101
12951552	19	15	27913-T9	33	102
12951555	19	11	27914-26T9	33	105
12951558	19	22	27917-T9	33	109
12951559	20	24	27951/A	33	113
12951560	19	6	27951/CH	33	115
12951561	19	7	27961-T9	33	103
12951562	20	34	27963-T9	33	104
12951563	20	32	27964-26T9	33	106
12951564	20	33	27977-12T50	33	107
12951601	21	9	27977-16T50	33	108
12951616	21	8	3188899	33	235
12951617	15	18	356-058	33	236
	16	9	4-1249	33	100
12951635	3	7		33	230
12951683	18	5A	4-1254	33	99
12951684	19	21		33	229
12972078	32	46	41516	33	237
12972080	32	41	45-123	33	20
12972084	32	27	46150T1	33	69
12972093	32	10	46151-0T1	33	63
12972094	32	3	46239-T9	33	111
12972095	32	18	529	33	74
12972096	32	29	57K2935	33	165
12972097	32	49	5705498	33	1
12972098	32	42	58342-1	33	238
12972099	32	26	58448-2	33	239
12972101	32	12	613873	33	240
12972102	32	51	74008	33	22

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PART NUMBER	FIG.	ITEM
843477-1	33	241
9-1073-8	33	176
91067-2	33	242
9314-4.562-10-24-A-5	3	120
	15	19
	16	8
	32	30
9358313	22	23
993850	33	243

EXPENDABLE AND DURABLE ITEMS LIST

0210 00

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the test set. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanations of Columns in the Expendable/Durable Items List

Column (1) -Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., “Use isopropyl alcohol (Item 10, WP 0210 00)”).

Column (2) - Level. This column includes the lowest level of maintenance that requires the listed item (O = Unit Maintenance).

Column (3) - National Stock Number. This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Commercial and Government Entity Code (CAGE), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) - Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

EXPENDABLE AND DURABLE ITEMS LIST

Table 1. Expendable and Durable Items List

(1) Item Number	(2) Level	(3) National Stock Number	(4) Item Name, Description, Cage, Part Number	(5) U/M
1	O	8040-01-009-1562	Adhesive, sealant, Type II 3-ounce tube (71948) 3140	oz
2	O	7920-00-514-2417	Brush, acid swabbing box of 144 (81348) H-B-643	ea
3	O	7920-00-205-1711	Rag, wiping, cotton, white 50 lb bale (58536) A-A-531	lb
4	F	8030-00-148-9833	Sealing Compound, Type II, Grade N 10-cubic centimeter bottle (05972) 271-21	cc
5	O	6810-00-687-8429	Solvent, Methyl Ethyl Ketone 1-pint can (81348) TT-M-261	pt.

EXPENDABLE AND DURABLE ITEMS LIST - CONTINUED

0210 00

Table 1. Expendable and Durable Items List (Continued)

(1) Item Number	(2) Level	(3) National Stock Number	(4) Item Name, Description, Cage, Part Number	(5) U/M
6	O	4020-00-753-6555 500 yard spool (88818) 225270-3	Tape, lacing	yd
7	O	8105-01-120-3375 (10 1/2 inch X 12 inch) (52942) MIL-B-117	Bag, Plastic (anti-static)	ea
8	O	8135-00-239-1648	Tag, stock marking (16956) 34 MR	pk
9	O	3439-00-473-2000	Solder, Tin Alloy 1-pound can (81348) SN63WRMAP3	lb
10	O	6810-01-190-2538	Isopropyl Alcohol 9-ounce can (81348) TT-I-735	oz
11	O	8320-00-299-8625	Pad, Cotton (81348), JJJ-C-561	lb
12	O	7930-00-880-4454	Detergent (81348), P-D-410	bx
13	O	6810-00-292-9676	Methanol (Alcohol, Methyl) (81348), O-M-232	qt
14	F	8040-00-117-8510	Compound, Silicone (80063) SM-C-773163-2	tu
15	F	9525-00-803-3044	Wire, Safety (96906), MS20995NC32	rl
16	F	6850-00-927-9461	Compound, Silicone, Heat Insulating (80063) SM-C773551-2	tu
17	F	8030-00-163-5792	Sealing Compound, (19207) 11663357	pt
18			Elastomer, Thermally conductive 12951553	
19	O	6850-00-664-5685	Dry Cleaning Solvent. Type II 1-quart can (81348) ASTM D 235	qt

INTRODUCTION**Scope**

This work package includes complete instructions for making items authorized to be manufactured or fabricated at the direct support maintenance level.

How to Use the Index of Manufactured Items

An index in alphabetic order is provided for cross-referencing the item to be manufactured to the figure which covers fabrication criteria.

Explanation of the Illustrations of Manufactured Items

All instructions needed by maintenance personnel to manufacture the item are included on the illustrations. All bulk materials needed for manufacture of an item are listed by part number or specification number in a tabular list on the illustration.

INDEX OF MANUFACTURED ITEMS

<u>Item Name</u>	<u>Figure Number</u>
Adapter, 10 V (W457)	1
Adapter, 24 V (W457)	2
Wrench, combination, 9/16-inch	3

ILLUSTRATED LIST OF MANUFACTURED ITEMS – CONTINUED

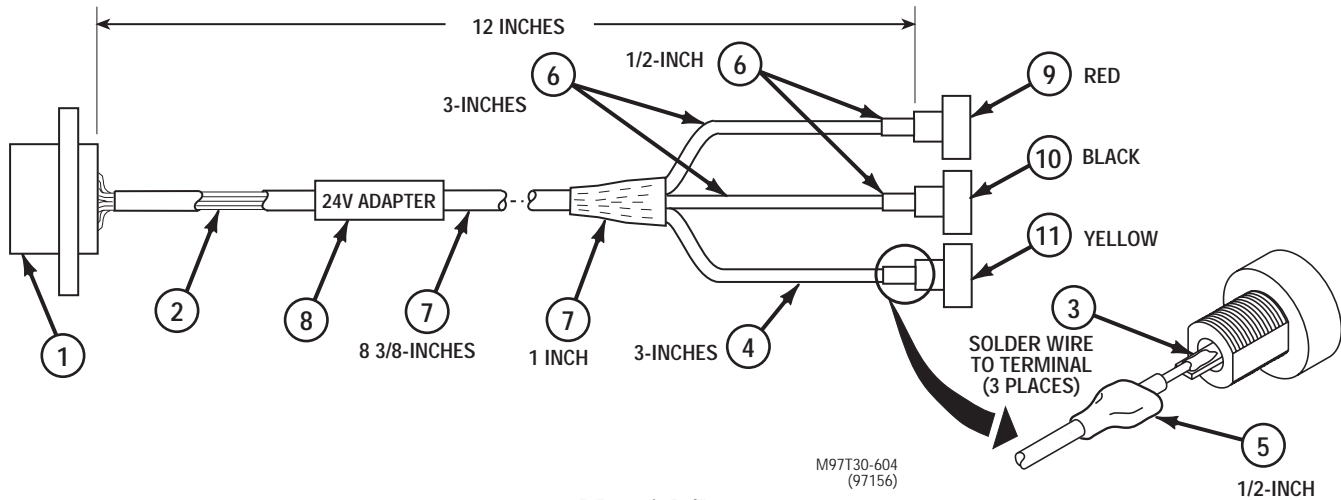
0211 00**Manufacture Adapter, 10 V (W457)**

Tools:Electrical Maintenance Kit

Manufacturing Instructions:

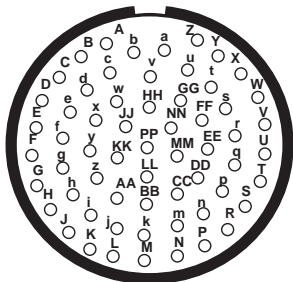
1. Using wire stripper and crimping tool, put two new contacts on wires.
2. Install contacts in connector. Refer to wiring diagram.
3. Using wire stripper, remove 3/16-inch of insulation from cable wire.
4. Temporarily place precut pieces of insulation sleeving over two wires.
5. Solder stripped wire ends to banana jack terminal lugs. Refer to wiring diagram.
6. Position precut pieces of insulation sleeving on wiring and banana jack lugs as shown.
7. Heat shrink insulation sleeving.
8. Mark label material with nomenclature (10 V Adapter) as shown.
9. Install label to cable.
10. Verify wiring continuity. Refer to wiring diagram.

Figure 1. Adapter, 10 V (W457) – Continued

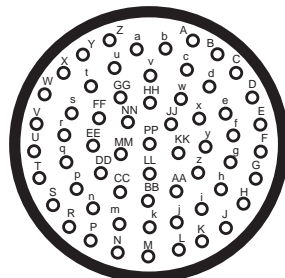


Materials/Parts

Item	Description	Part Number	National Stock Number	Quantity
1	Connector	MS3474L24-61SW	5935-00-009-6362	1
2	Wire, electrical	M22759/32-20-9	6145-01-169-5661	7 wires, 12 inches long each
3	Solder, tin alloy	SN63WRMAP3	3439-00-473-2000	As required
4	Insulation sleeving	M23053/5-103-0	5970-00-812-2974	1 - 3 inch length
5	Insulation sleeving	M23053/5-104-0	5970-00-812-2969	1/2-inch length
6	Insulation sleeving	M23053/5-105-0	5970-00-954-1622	2 - 1/2 inch lengths 2 - 3 inch lengths
7	Insulation sleeving	M23053/5-107-0	5970-00-954-1624	1 - 1 inch length 1 - 8-3/8 inch length
8	Label	Brady type or equivalent	—	1
9	Banana jack (red)	Standard .175 inch	—	1
10	Banana jack (black)	Standard .175 inch	—	1
11	Banana jack (yellow)	Standard .175 inch	—	1



(FRONT VIEW)



(REAR VIEW)

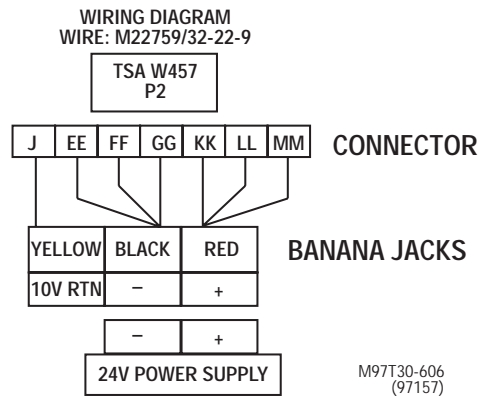


Figure 2. Adapter, 24 V (W457)

ILLUSTRATED LIST OF MANUFACTURED ITEMS – CONTINUED

0211 00

Manufacture Adapter, 24 V (W457)

Tools:Electrical Maintenance Kit

Manufacturing Instructions:

1. Using wire stripper and crimping tool, put two new contacts on wires.
2. Install contacts in connector. Refer to wiring diagram in Figure 2.
3. Using wire stripper, remove 3/16-inch of insulation from cable wire.
4. Temporarily place precut pieces of insulation sleeving over wires. Refer to Figure 2.
5. Solder stripped wire ends to banana jack terminal lugs. Refer to wiring diagram.
6. Position precut pieces of insulation sleeving on wiring and banana jack lugs as shown.
7. Heat shrink insulation sleeving.
8. Mark label material with nomenclature (24 V Adapter) as shown.
9. Install label to cable.
10. Verify wiring continuity. Refer to wiring diagram.

Figure 2. Adapter, 24 V (W457) – Continued

Manufacture Wrench, Combination, 9/16-inch**Tools:**

File, hand, double face bastard cut, 8-inch heel
Grinding machine, utility, bench mount
Rule, steel, 6-inch

Materials/Parts:

Wrench, combination, 9/16-inch

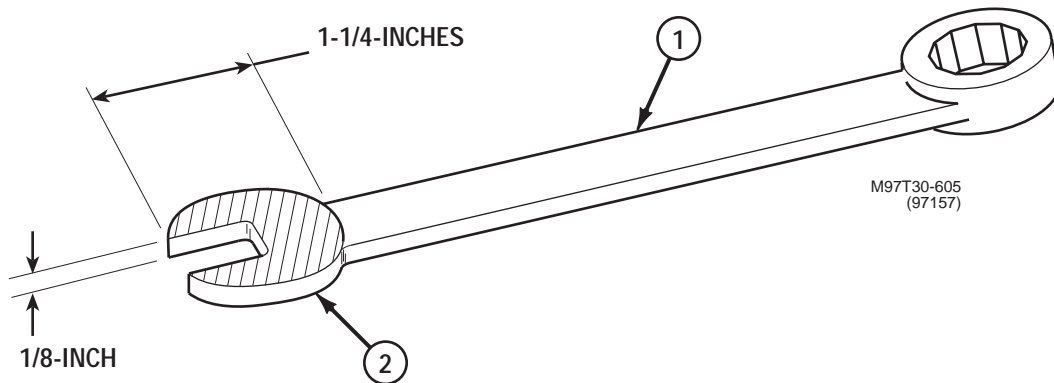


Figure 3. Wrench, combination, 9/16-inch

Manufacturing Instructions:

1. Grind down open end of combination wrench (1) on one side, until jaw (2) is 1/8-inch thick, 1-1/4-inch from end of wrench (1).
2. Take off all burrs and sharp edges from ground areas of wrench (1) with file.

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FST-TJ6 Test Plug	0034 00-4
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Collimator SM-D-969722 Connector J1-Temperature Controller Assembly, Replace	0124 00-1
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OIU Capacitor C5, C6, C7, or C8, Replace	0090 00-1
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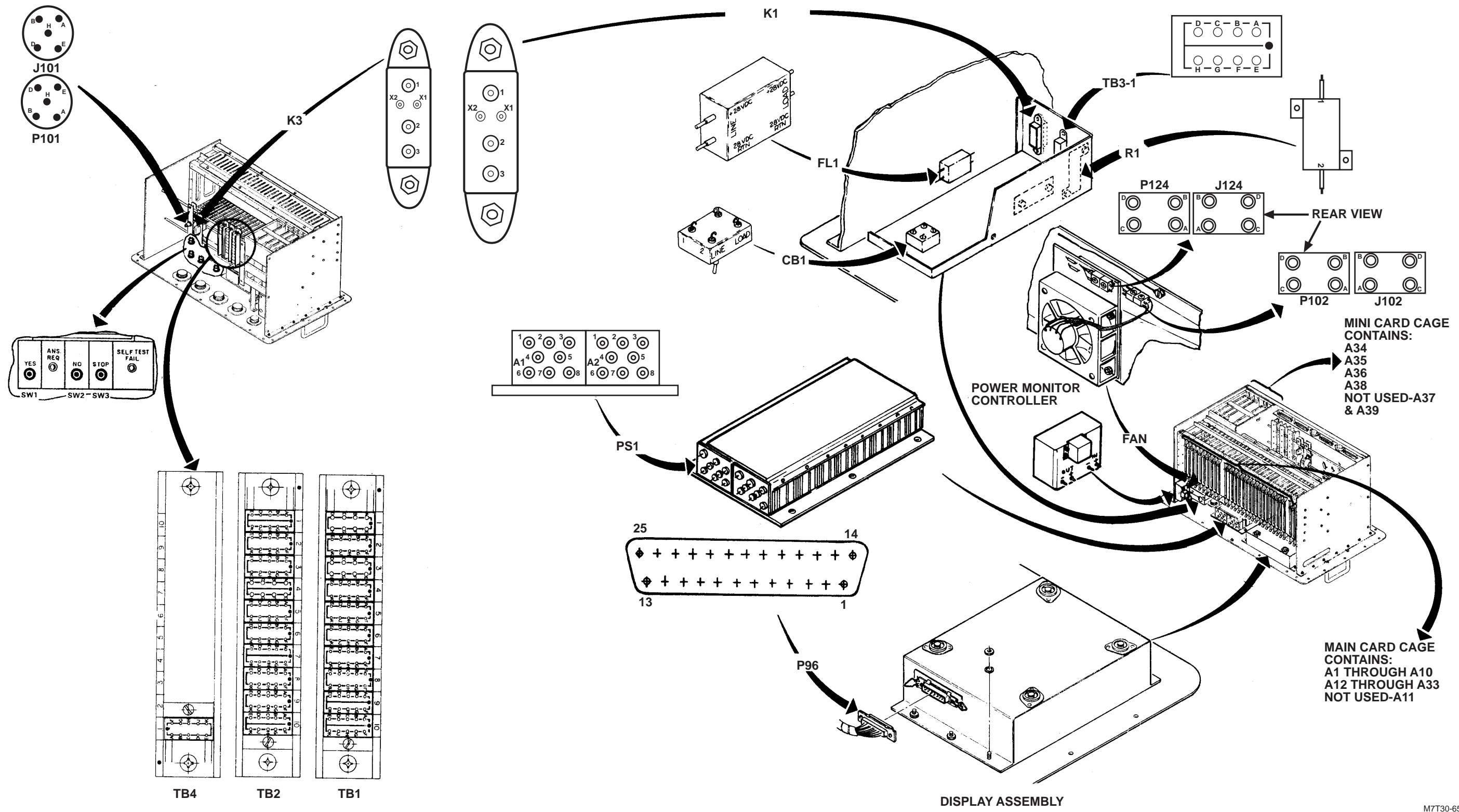
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Display goes blank when ground clip is connected to LRU, or OIU ON/OFF circuit breaker trips when ground clip is connected to LRU, or OIU fails Functional Self Test and display reads – FAULTY DSESTS POWER DISTRIBUTION	0027 00-1
Display is dark or unreadable when power is applied to OIU	0013 00-1
Display reads – ADJ VOLTS TO 18-30V VOLTS IS 0.0000 PUSH YES WHEN OK	0029 00-1
Display reads – TEST S1 BEFORE REPLACING DISPLAY	0012 00-1
Display reads – TEST S2 BEFORE REPLACING DISPLAY	0010 00-1
Display reads – TEST S3 BEFORE REPLACING DISPLAY	0011 00-1
Display reads – WARNING FAULTY FAN*A38*A10 GEN 200	0028 00-1
Display reads – WARNING TEMP LIMITS EXCEEDED XXX.X DEGS F.	0024 00-1
Display still reads – SELF TEST? - after pressing YES pushbutton	0008 00-1
During OIU FST or LRU test display changes to – OIU DSPS XX.X SELF TEST IN PROGRESS	0031 00-1
No power to OIU with ON/OFF circuit breaker ON (All lamps off, display dark or scrambled, display unreadable).	0006 00-1
OIU cooling fan not running with ON/OFF circuit breaker ON	0022 00-1
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OIU fails part one of the Functional Self Test, no FST adapters or FST cables to OIU	0017 00-1
OIU fails part three of Functional Self Test, FST adapters TJ5-2, TJ7-2, TJ9-2, and FST cables W87 and W88 connected to OIU	0019 00-1
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OIU ON/OFF circuit breaker trips when power is applied and ON/OFF circuit breaker is set to ON	0007 00-1
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Probe found faulty during Functional Self Test or LRU testing	0023 00-1
Self test fail lamp is ON and display reads one of the messages in Table 1	0009 00-1
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MINI CARD CAGE
CONTAINS:
A34
A35
A36
A38
NOT USED-A37
& A39

MAIN CARD CAGE
CONTAINS:
A1 THROUGH A10
A12 THROUGH A33
NOT USED-A11

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Figure 1. OIU Component Locations (Sheet 1 of 2)

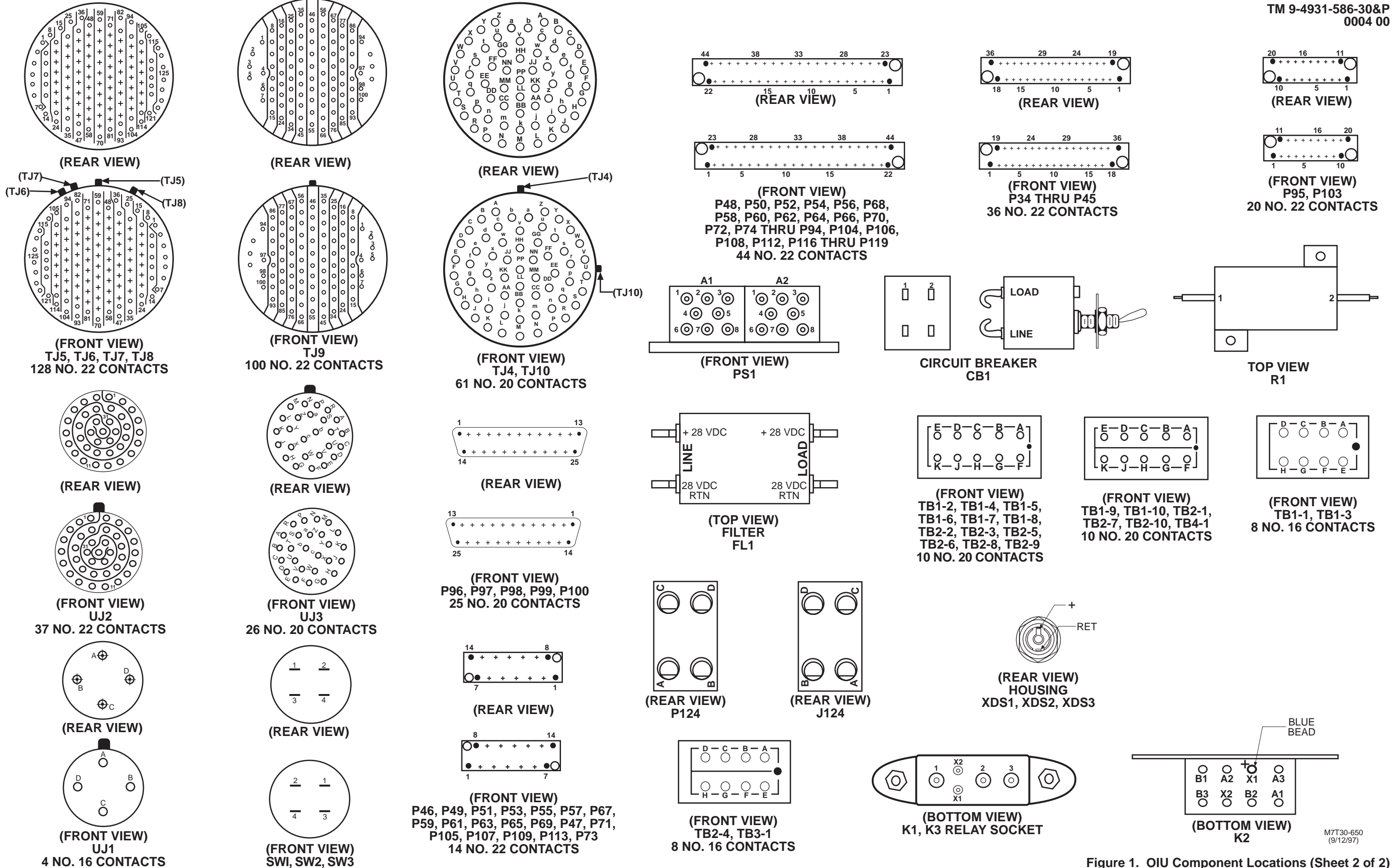


Figure 1. OIU Component Locations (Sheet 2 of 2)

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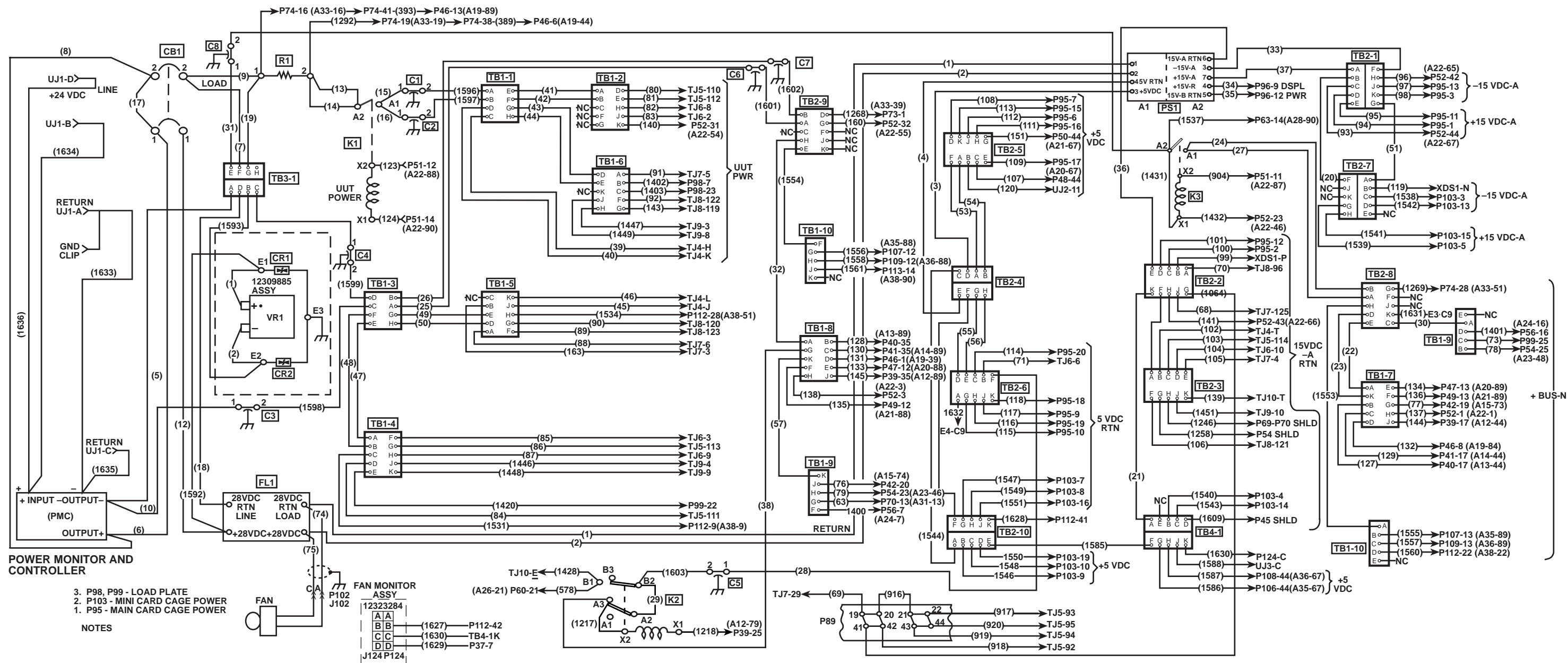


Figure 2. OIU Power Input Wiring Diagram

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(8/6/01)

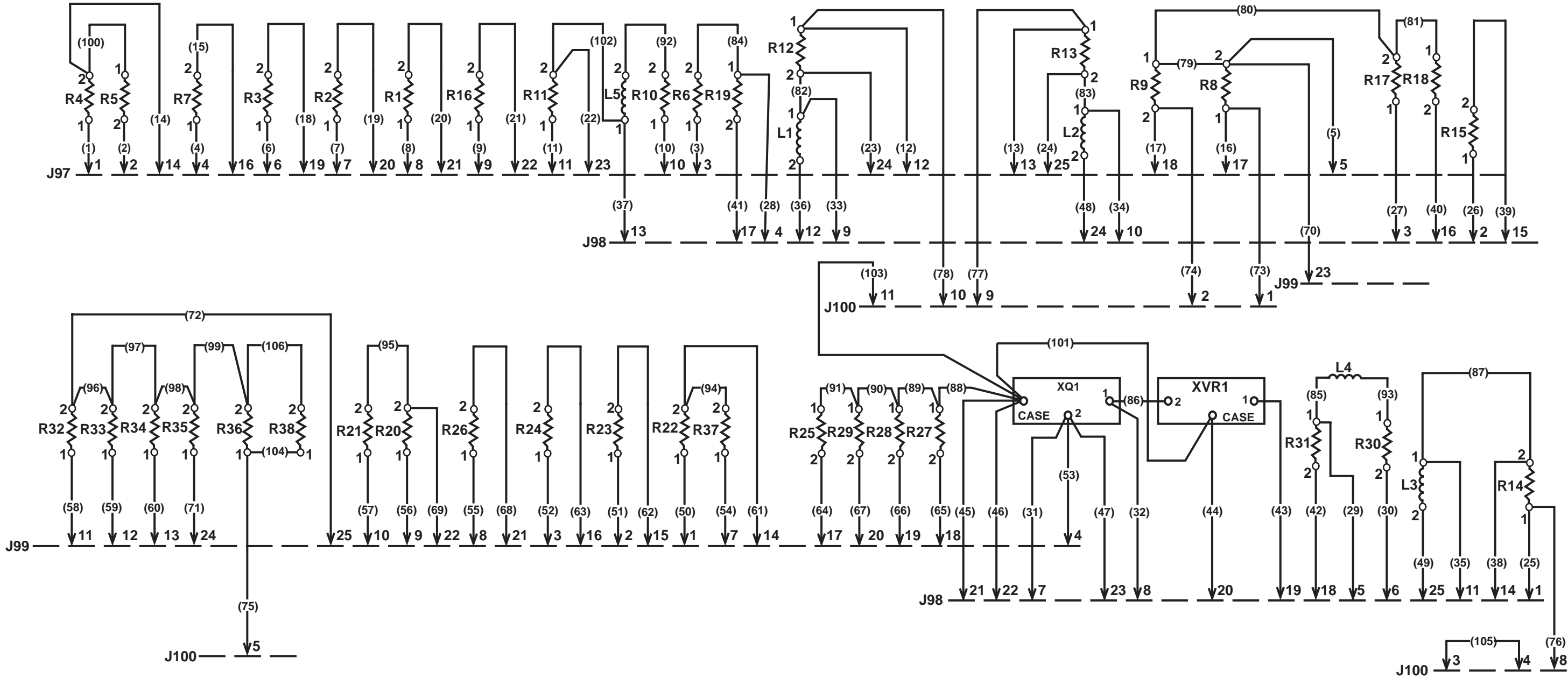
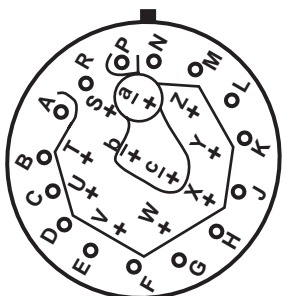
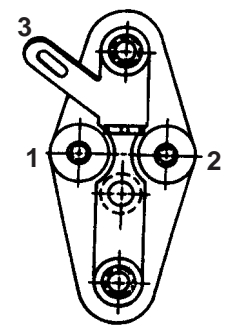


Figure 3. Load Plate Assembly Wiring Diagram

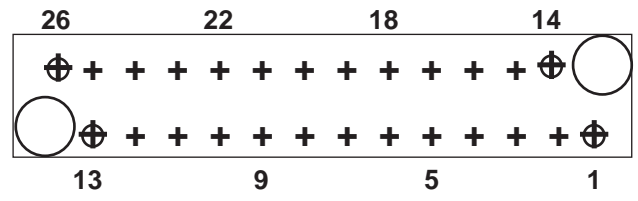
M7T30-658
(10/8/97)



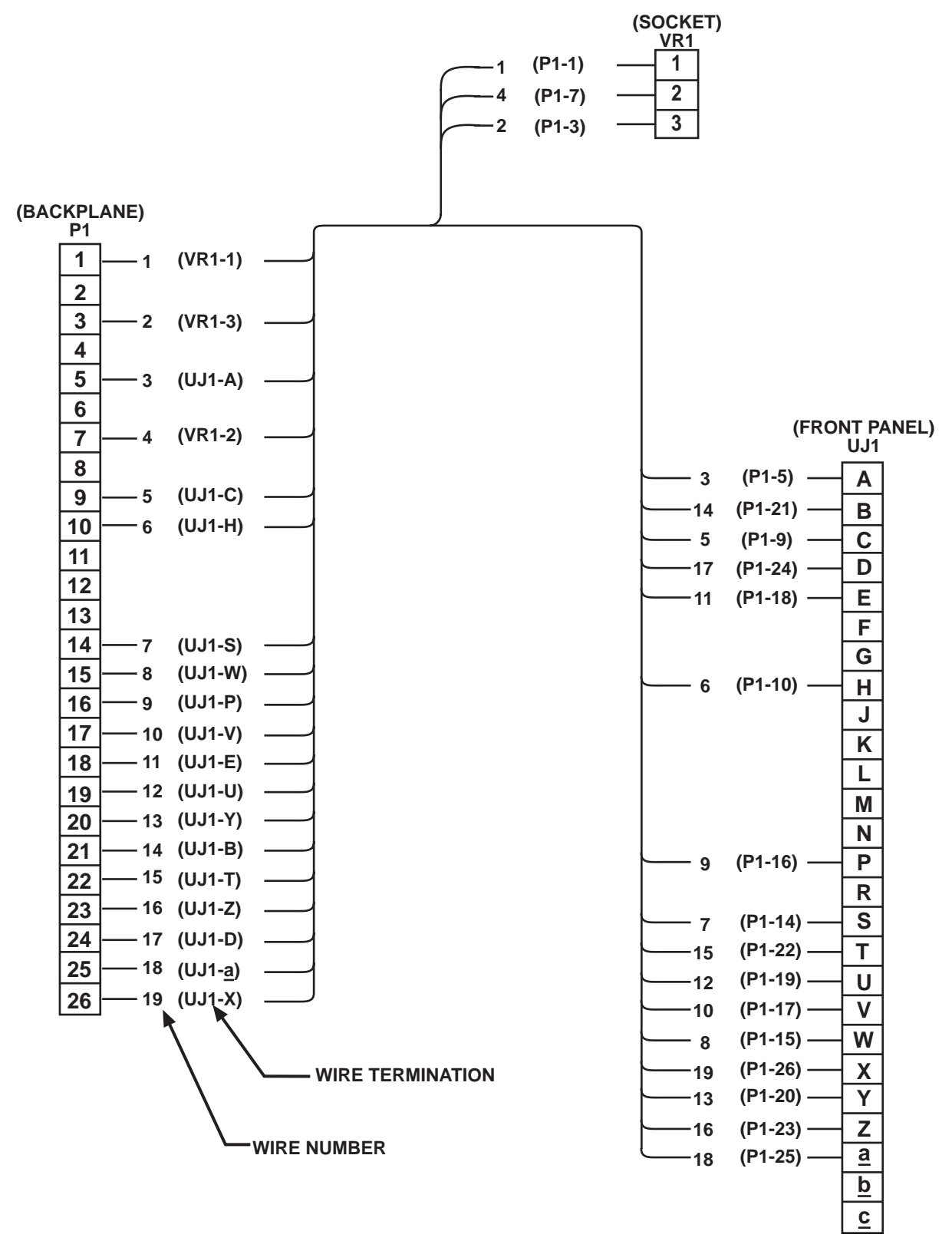
(FRONT VIEW)
UJ1
26 NO. 20 CONTACTS



(REAR VIEW)
VR1

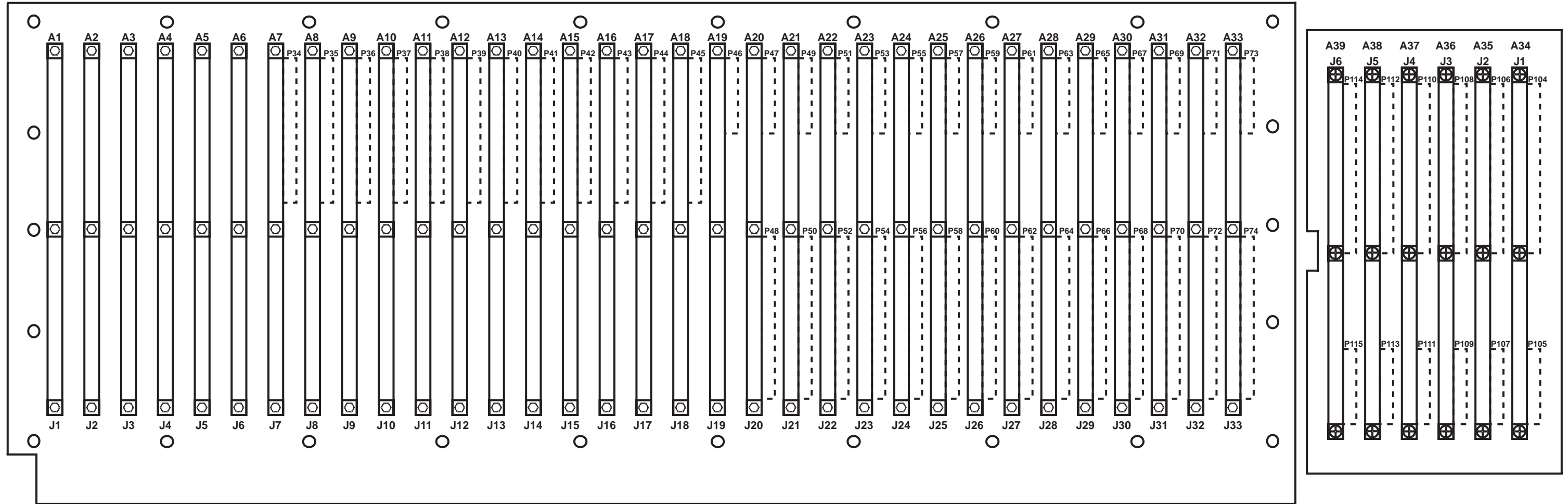


(REAR VIEW)
P1
26 NO. 22 CONTACTS



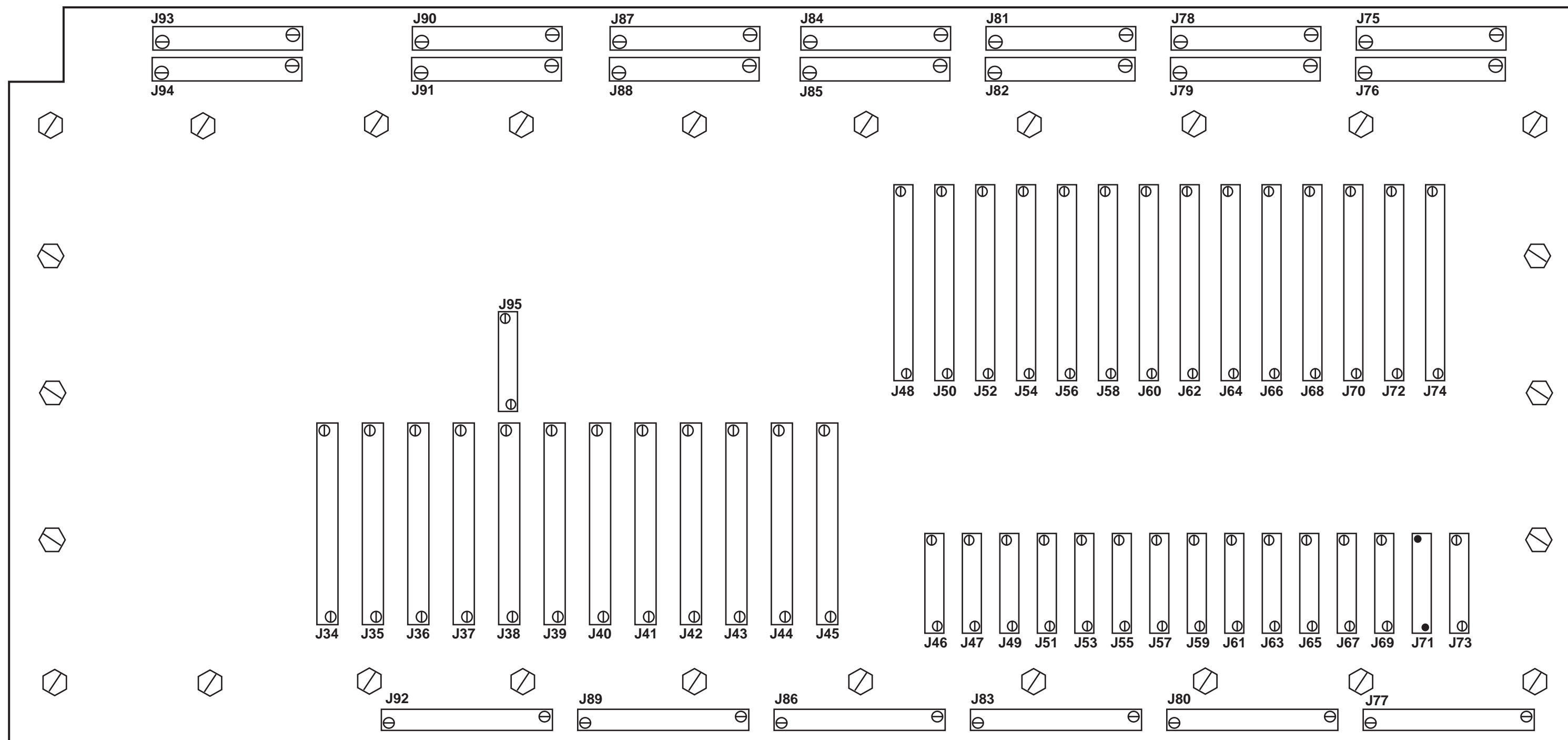
M7730-651
(8/6/01)

Figure 4. Memory Module Wiring Diagram



M7T30-655
(9/19/97)

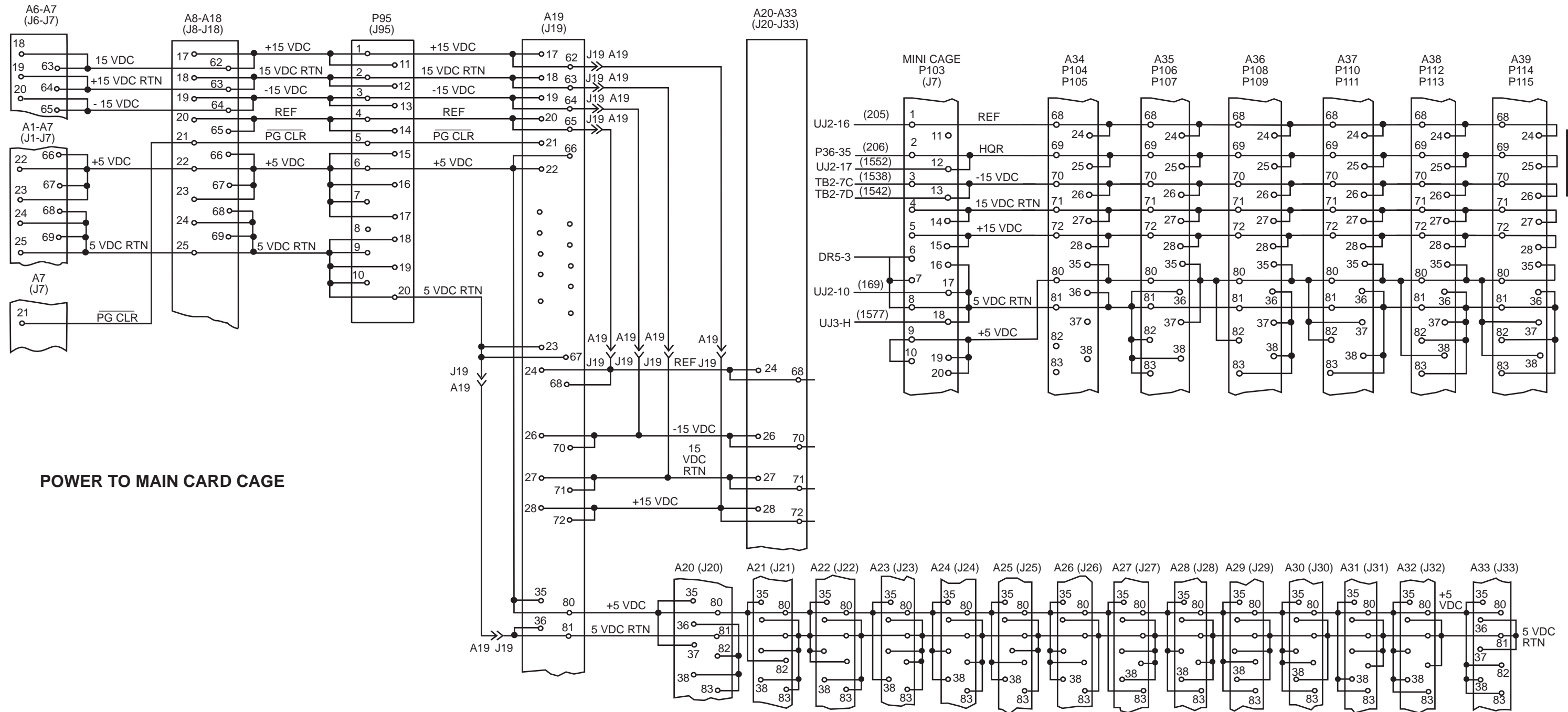
Figure 5. Circuit Card and Backplane Connector Locations (Sheet 1 of 2)



M7T30-652
(9/13/97)

Figure 5. Circuit Card and Backplane Connector Locations (Sheet 2 of 2)

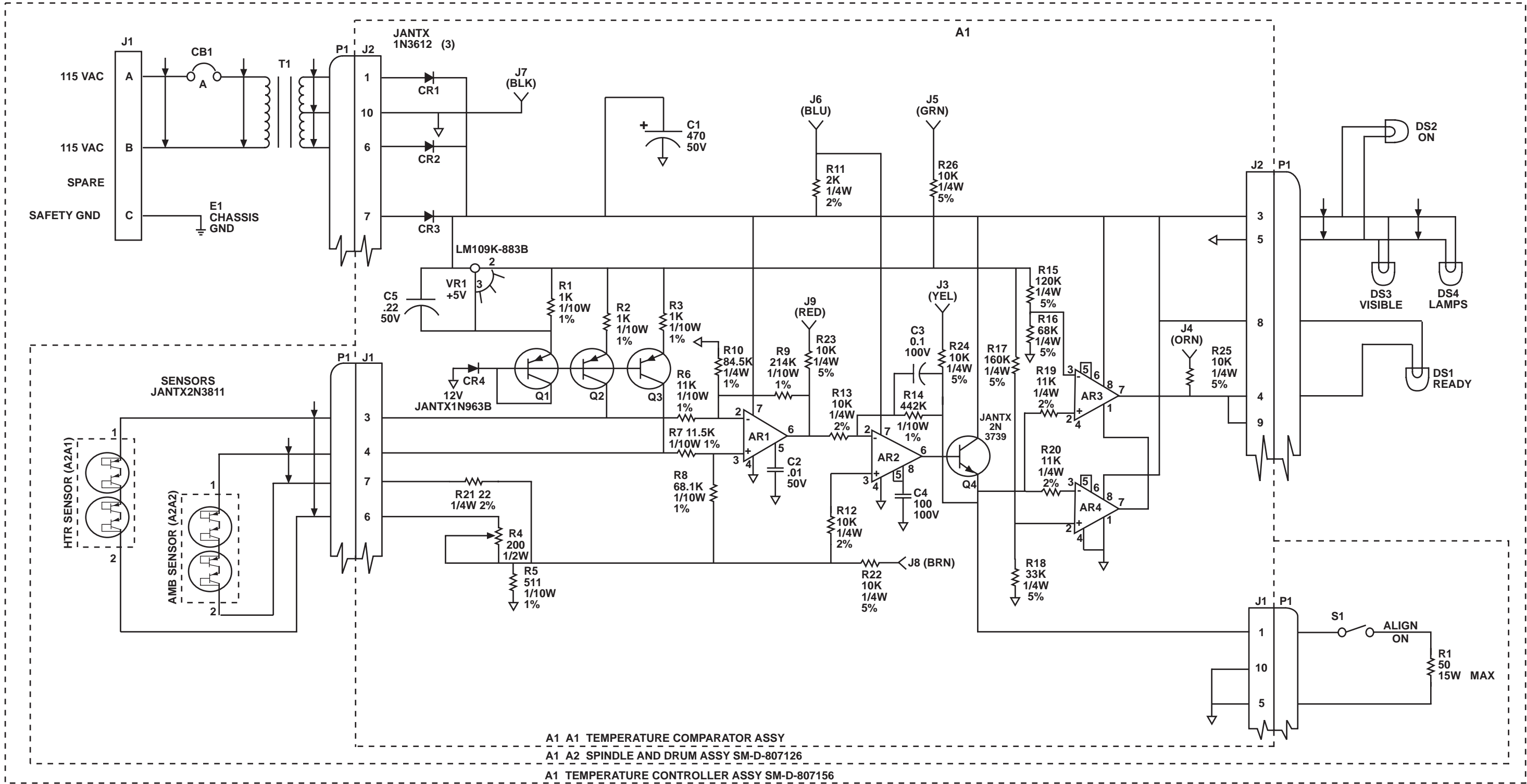
POWER TO MINI CARD CAGE



POWER TO MAIN CARD CAGE

Figure 6. OIU Backplane Power Distribution

M97T30-008
(11/24/97)

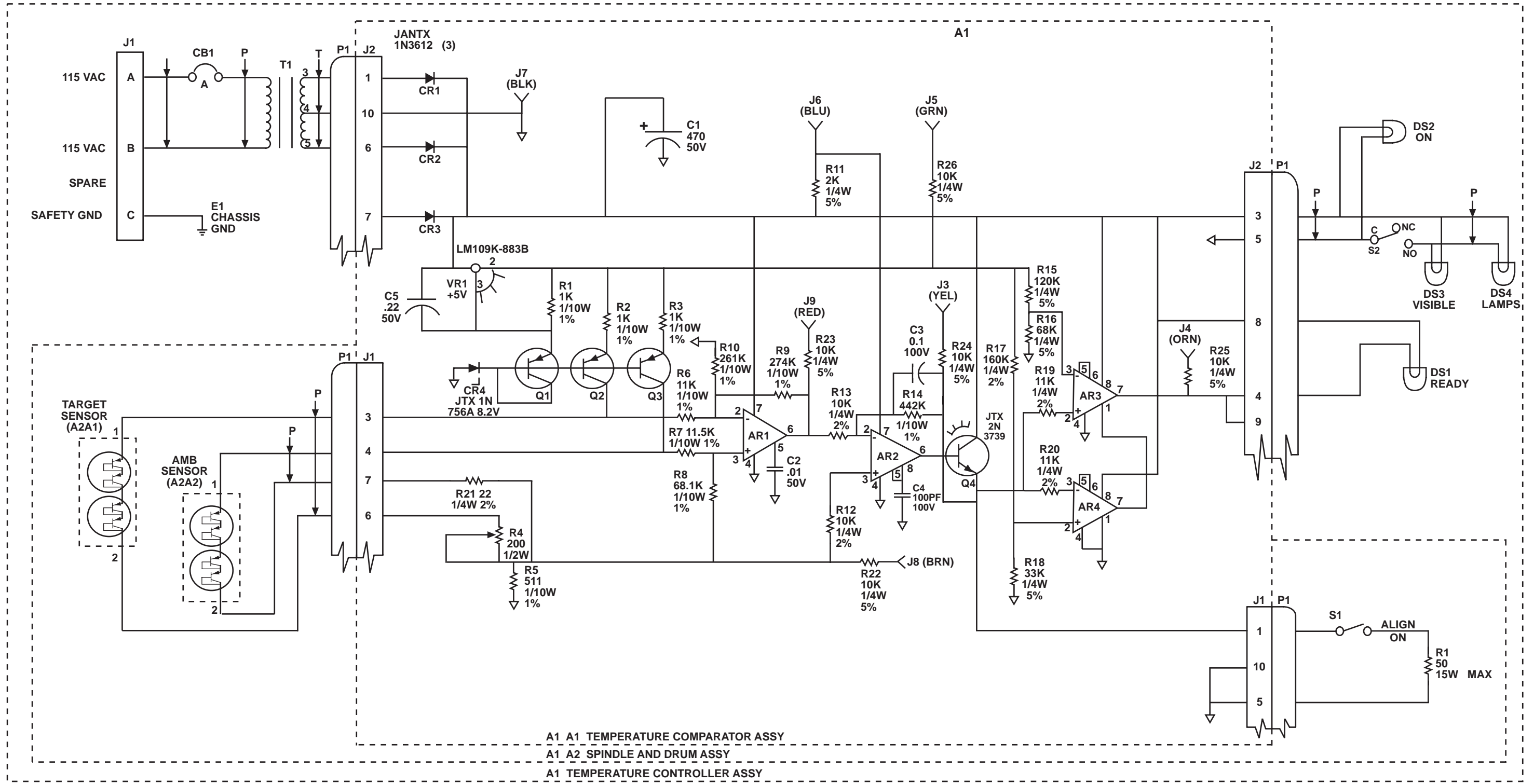


NOTES: UNLESS OTHERWISE SPECIFIED

1. CAPACITANCES ARE IN MFD
2. RESISTANCE VALUES ARE IN OHMS

M97T30-656
(9/19/97)

Figure 7. Temperature Controller Assembly (Collimator SM-D-969722) Schematic Diagram (Without Sensitive Switch)

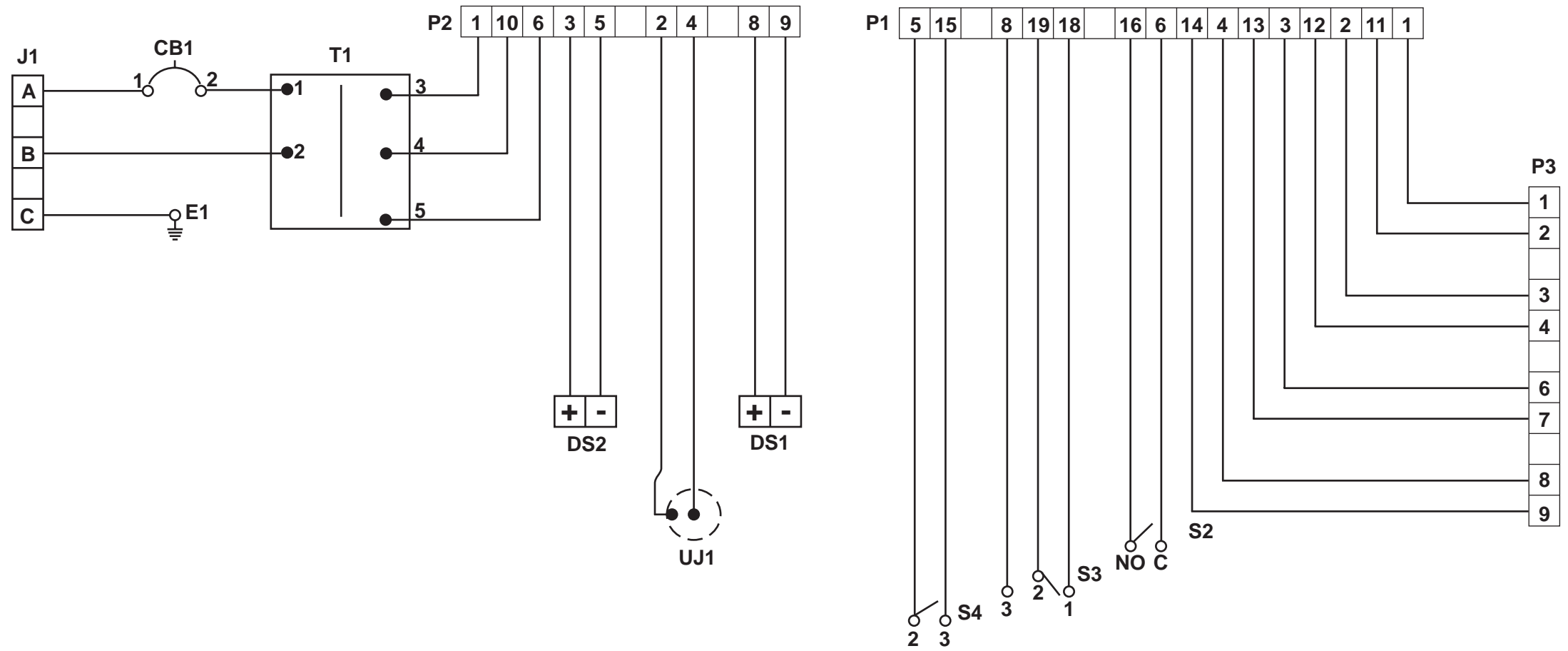


NOTES: UNLESS OTHERWISE SPECIFIED

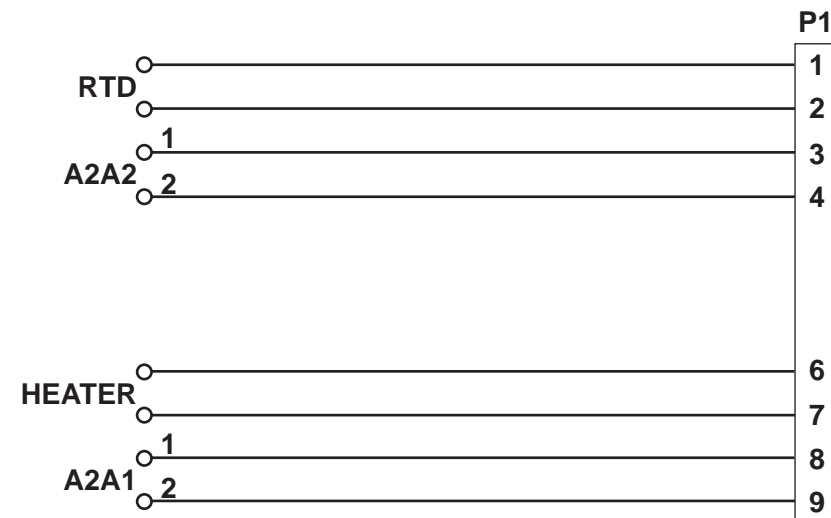
1. CAPACITANCES ARE IN MFD
2. RESISTANCE VALUES ARE IN OHMS

M97T30-657
(9/23/97)

Figure 8. Temperature Controller Assembly (Collimator SM-D-969722)
Schematic Diagram (With Sensitive Switch)



CABLE ASSEMBLY W2 WIRING DIAGRAM



CABLE ASSEMBLY W1 WIRING DIAGRAM

M7T30-653
(9/16/97)

Figure 9. Temperature Controller Assembly (Collimator 12951545) Schematic Diagram

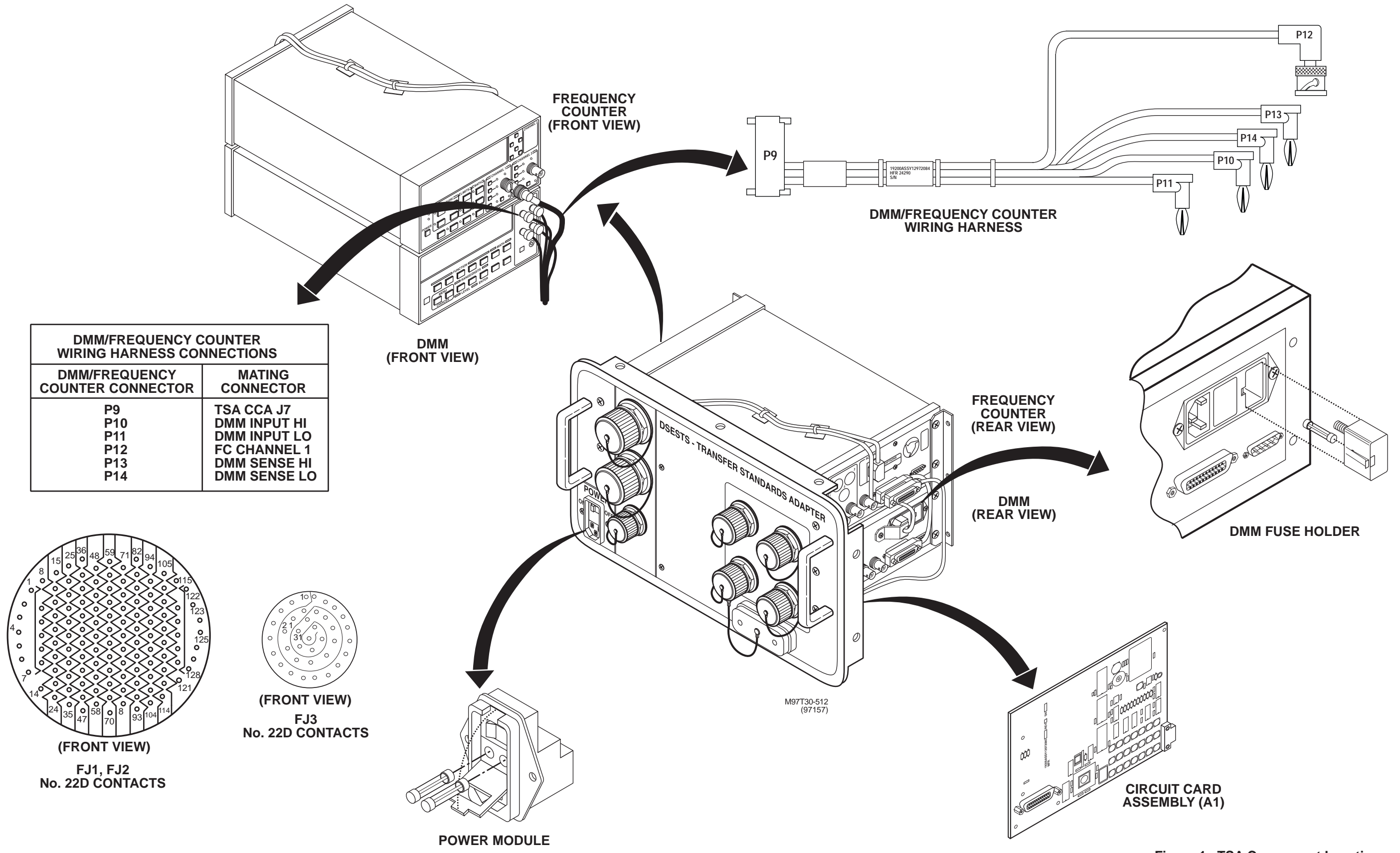


Figure 1. TSA Component Locations

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ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
						SAMPLE	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE Your Name				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE Your Signature	

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630	FROM: <i>(Activity and location) (Include ZIP Code)</i> Your address	DATE Date you filled out this form
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<h1>SAMPLE</h1>								

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<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

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Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

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LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 Lb
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
 1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches
 1 Cu Meter = 1,000 000 Cu Centimeters = 35.31 Cu Feet

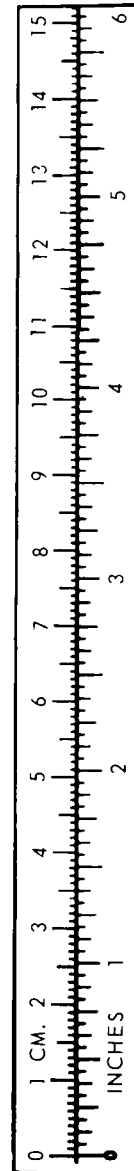
TEMPERATURE

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5 ^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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