

TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING DEPOT REPAIR PARTS AND SPECIAL TOOLS LIST)

ELECTRICAL EQUIPMENT SHELTER

S-457A/G

NSN 5410-01-028-0696

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Readiness Activity, Vint Hill Farms Station, Warrenton, VA 22186.

HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1980

WARNING

DANGEROUS CHEMICALS

are used in cleaning this equipment.

DEATH

may result if personnel fail
to observe safety precautions.

WARNING

HIGH VOLTAGE

is used in the operation of this equipment.

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Learn the areas containing high voltage in each piece of equipment.

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

Before working inside the equipment, turn power off and
ground points of high potential before touching them.

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CURRENT AS OF 22 JUNE 1979

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

No. 32-5410-001-24&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 10 October 1980**ORGANIZATIONAL, DIRECT, AND GENERAL SUPPORT
MAINTENANCE MANUAL
(INCLUDING DEPOT REPAIR PARTS AND SPECIAL TOOLS LIST)**

FOR

**ELECTRICAL EQUIPMENT SHELTER S-457A/G
NSN 5410-01-028-0696**

Current as of 22 June 1979

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know a better way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-E, Vint Hill Farms Station, Warrenton, Virginia 22186. A reply will be furnished to you.

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SAFETY SUMMARY

The following are general safety precautions that are not related to any specific procedures and therefore do not appear elsewhere in this publication. These are recommended precautions that personnel must understand and apply during many phases of operation and maintenance.

KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must at all times observe all safety regulations. Do not replace components or make adjustments inside the equipment with the high voltage supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position due to charges retained by capacitors. To avoid casualties, always remove power and discharge and ground a circuit before touching it.

DO NOT SERVICE OR ADJUST ALONE

Under no circumstances should any person reach into or enter the enclosure for the purpose of servicing or adjusting the equipment except in the presence of someone who is capable of rendering aid.

RESUSCITATION

Personnel working with or near high voltages should be familiar with modern methods of resuscitation.

The following warnings and cautions appear in the text of this publication and are repeated here for emphasis.

WARNING

High voltage is used in the operation of this equipment. Death on contact may result if personnel fail to observe safety precautions. (Page 2-3.)

WARNING

To avoid injury to personnel and damage to the equipment, permit only those personnel engaged in actual siting operations to be near the lifting device and shelter. To eliminate confusion, all instructions shall come from the installation supervisor. (Page 2-9.)

WARNING

To avoid injury to personnel and damage to the equipment, permit only those personnel engaged in the actual loading operation to be near the truck, lifting device, and shelter. To eliminate confusion, all instructions shall come from the installation supervisor. All personnel must remain clear of the truck while the shelter is being lowered into position. (Page 2-9.)

WARNING

Improper grounding can cause severe shock to operating and/or maintenance personnel. (Page 2-10.)

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR AN OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas. (Pages 2-10,4-2,4-3.)

WARNING

Fluorescent lamps often are tightly held in their holders. Do not use tools to pry them out. Breaking a fluorescent tube may be dangerous to the health if the person removing the tube is cut because of the mercury compound within the tube. (Pages 2-11, 2-16.)

WARNING

Because of the weight of the air conditioner, two men are required to lift and move the unit. (Page 4-2.)

CAUTION

Stop operation immediately if any deficiency that would damage the equipment is noted. (Page 2-2.)

CAUTION

Do not use a forklift to remove the shelter as the forklift blades may damage the shelter skin. (Page 2-9.)

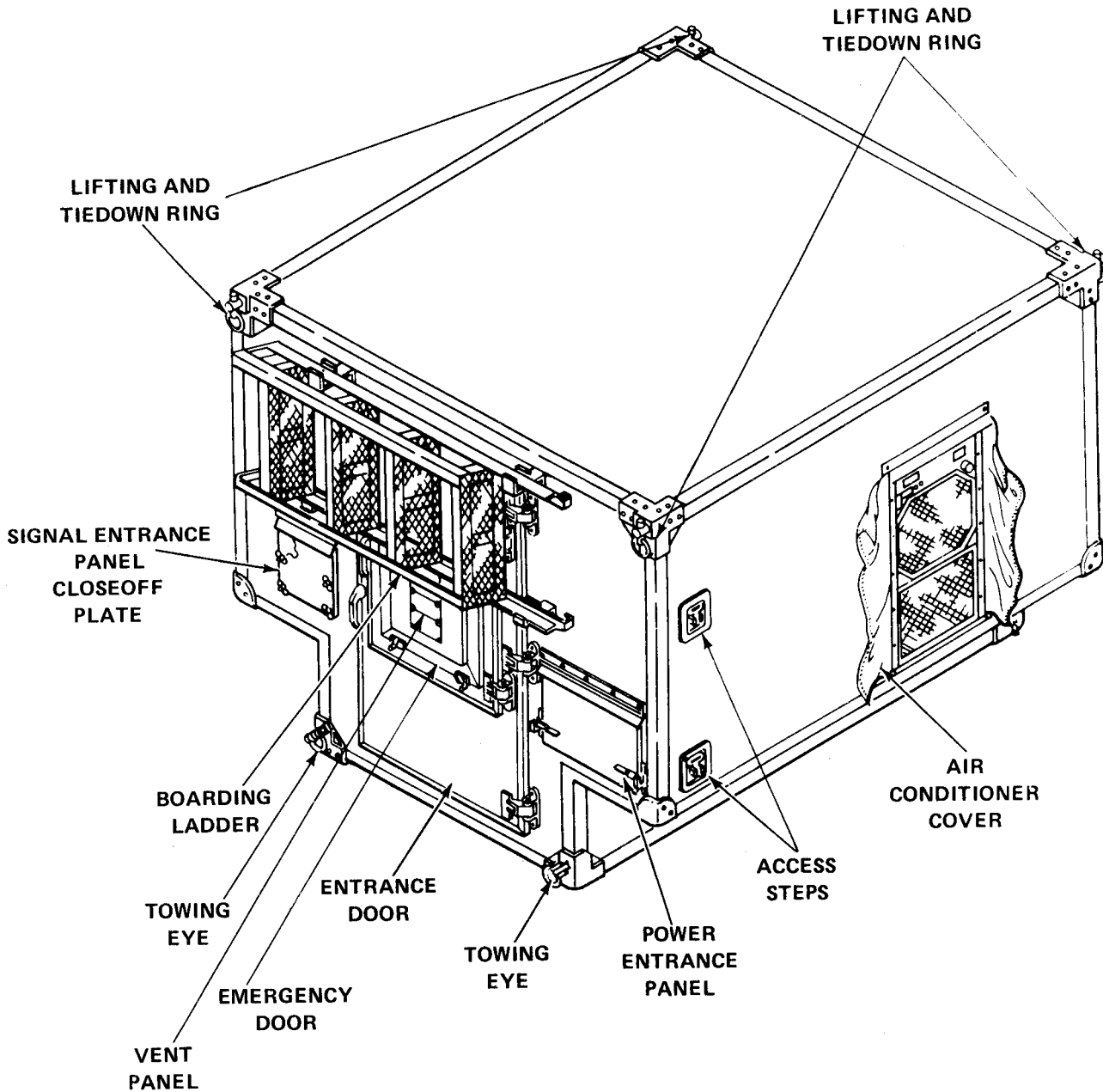


Figure 1-1. Electrical Equipment Shelter S-457 A/G

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1 SCOPE. This manual provides organizational and direct support instructions for the installation and maintenance of the Electrical Equipment Shelter S-457A/G (figure 1-1). A depot repair parts and special tool list is included. The air conditioner and the PXS-EE-28VF power supply are covered in TM 5-4120-337-14 and TM 32-6130-001-14&P.

1-2 MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

1-3 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. The S-457/G shelter will be destroyed to prevent enemy use in accordance with instructions provided in TM 750-244-2, Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

1-4 ADMINISTRATIVE STORAGE. Administrative storage will be in accordance with instructions provided in TM 740-90-1, Administrative Storage of Equipment.

1-5 CALIBRATION. No calibration of the basic equipment is required.

1-6 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's). If your shelter needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on a SF 368 (Quality Deficiency Report). Mail it to us at US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-I, Vint Hill Farms Station, Warrenton, Virginia 22186. We'll send you a reply.

Section II. DESCRIPTION AND DATA

1-7 DESCRIPTION. The Electrical Equipment Shelter S-457A/G (figure 1-1) is a modified S-250/G shelter used as a mobile electronics facility. The various components of this shelter are described in the following subparagraphs.

a. Shelter. The electrical equipment shelter is a fully insulated, weatherproof enclosure designed to house signal communications equipment. The shelter contains air conditioning, heating, lights, and convenience outlets for ac and dc power. The shelter can be mounted on a 1-1/4 ton truck or can be transported by air.

b. Shelter Exterior. A personnel entrance door, located at the rear of the enclosure, provides access to the equipment compartment. A four-step boarding ladder is mounted on four brackets over the personnel entrance door. Two folding steps are located on the right-hand side (curbside) of the shelter and allow access to the roof. A filtered, covered air vent is provided on the personnel door. Applicable warning, name, and instruction plates are attached to the cover of the air vent. There is a signal entrance panel to the left of the personnel entrance door and a power entrance panel to the right of the door. An air conditioner

exhaust port with a protective cover is located on the curbside wall of the shelter. Four lifting and tie-down rings (one at each upper corner) and four towing eyes (two at the cab end and two at the door end) are provided with the shelter.

c. Shelter Interior. Refer to figures 1-2 through 1-5.

(1) *Lighting.* Four fluorescent light fixtures are mounted on the ceiling of the shelter for primary lighting. Blue incandescent lights are provided for lighting under blackout conditions. Primary lighting is controlled by a door interlock during blackout conditions; during non-blackout conditions, the door interlock may be bypassed by a switch located to the right of the entrance door. Two spare fluorescent tubes and starters are mounted in spring clamps on the curbside wall. A cold start light is located on the door-end wall above the power distribution panel. This light is controlled by a switch located to the right of the entrance door and is used in lieu of the fluorescent lights when the temperature is below 40° F. A power supply indicator light is mounted above the power distribution panel to indicate the availability of primary electrical power.

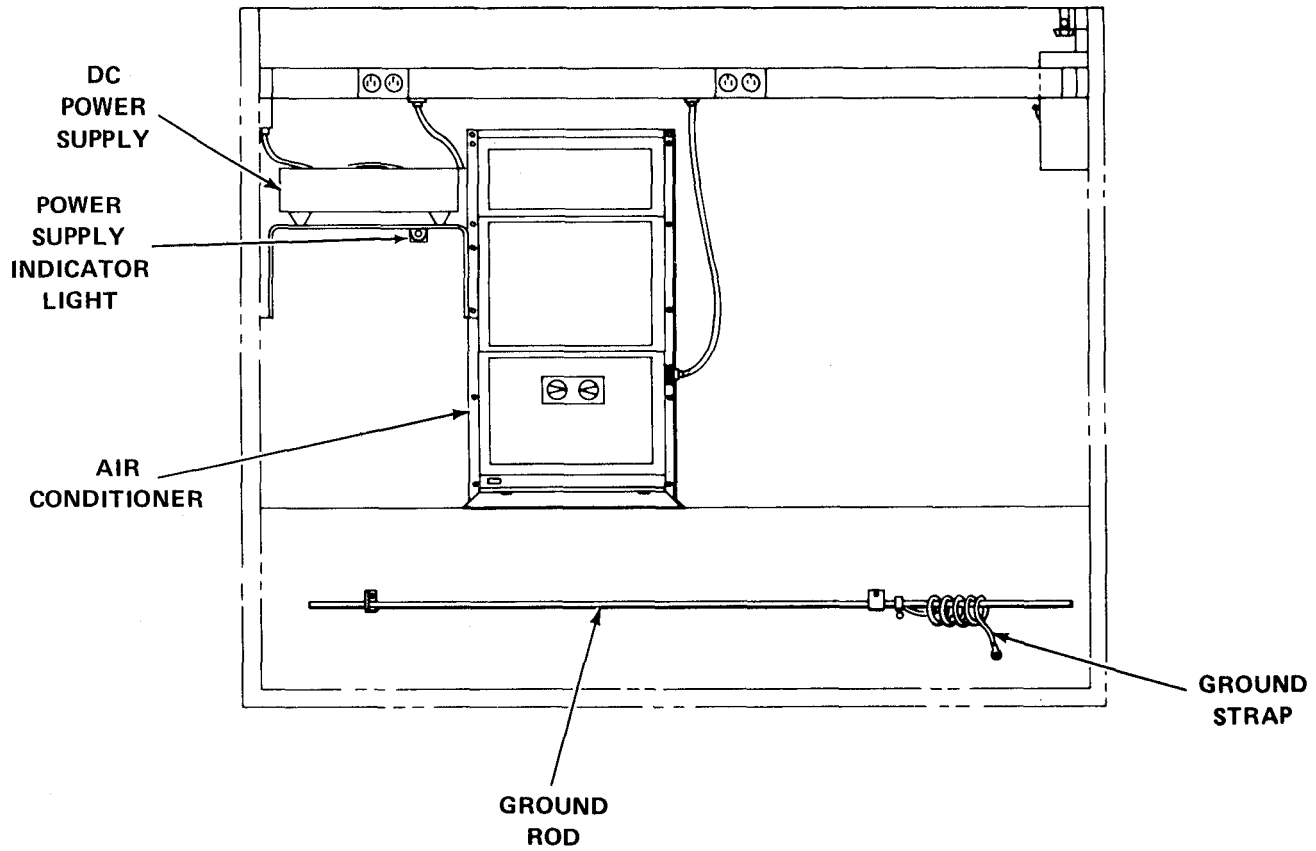


Figure 1-2. Shelter Interior, Curbside Wall

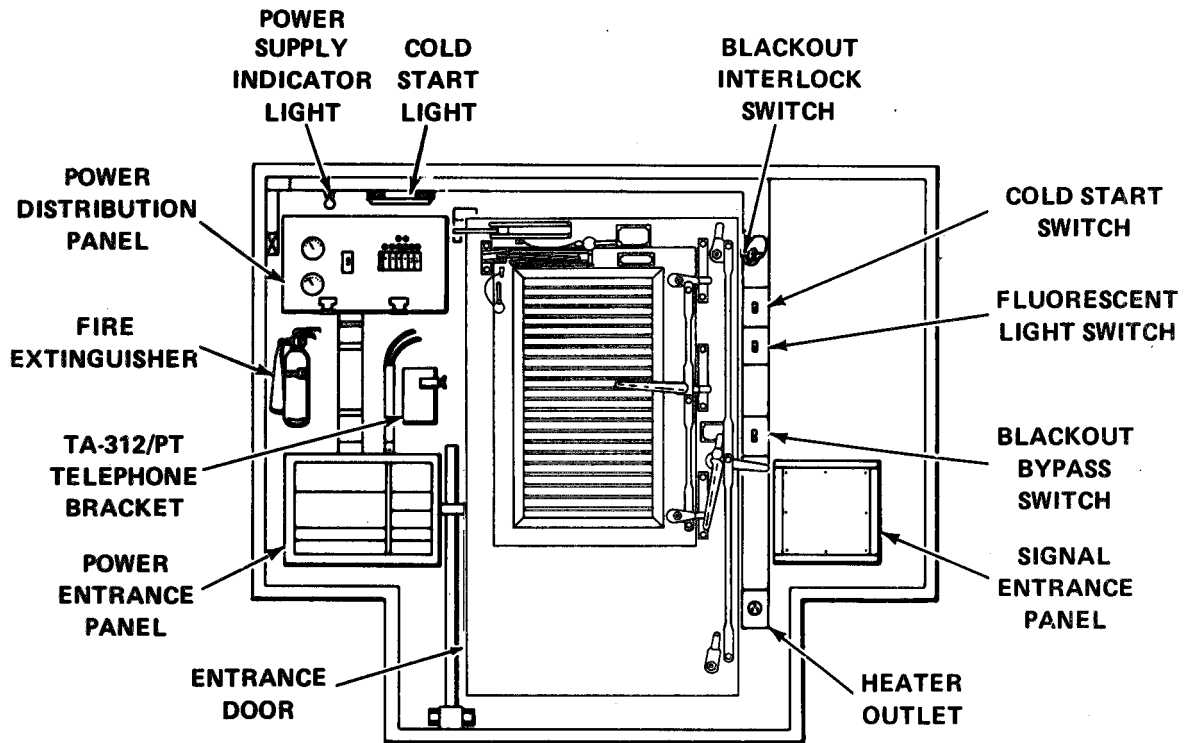


Figure 1-3. Shelter Interior, Door End Wall

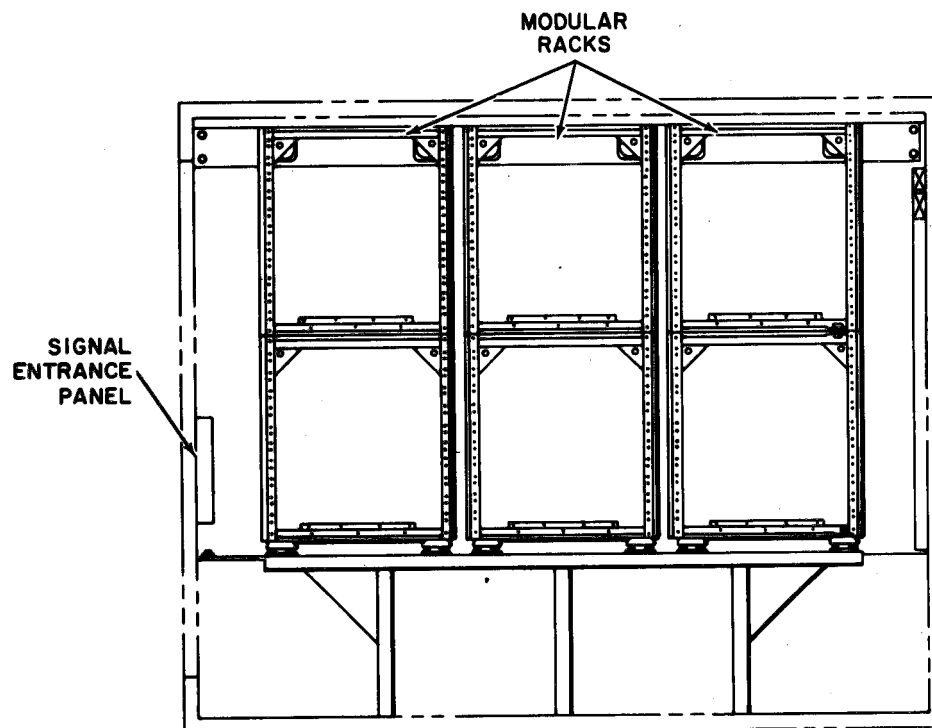


Figure 1-4. Shelter Interior, Roadside Wall

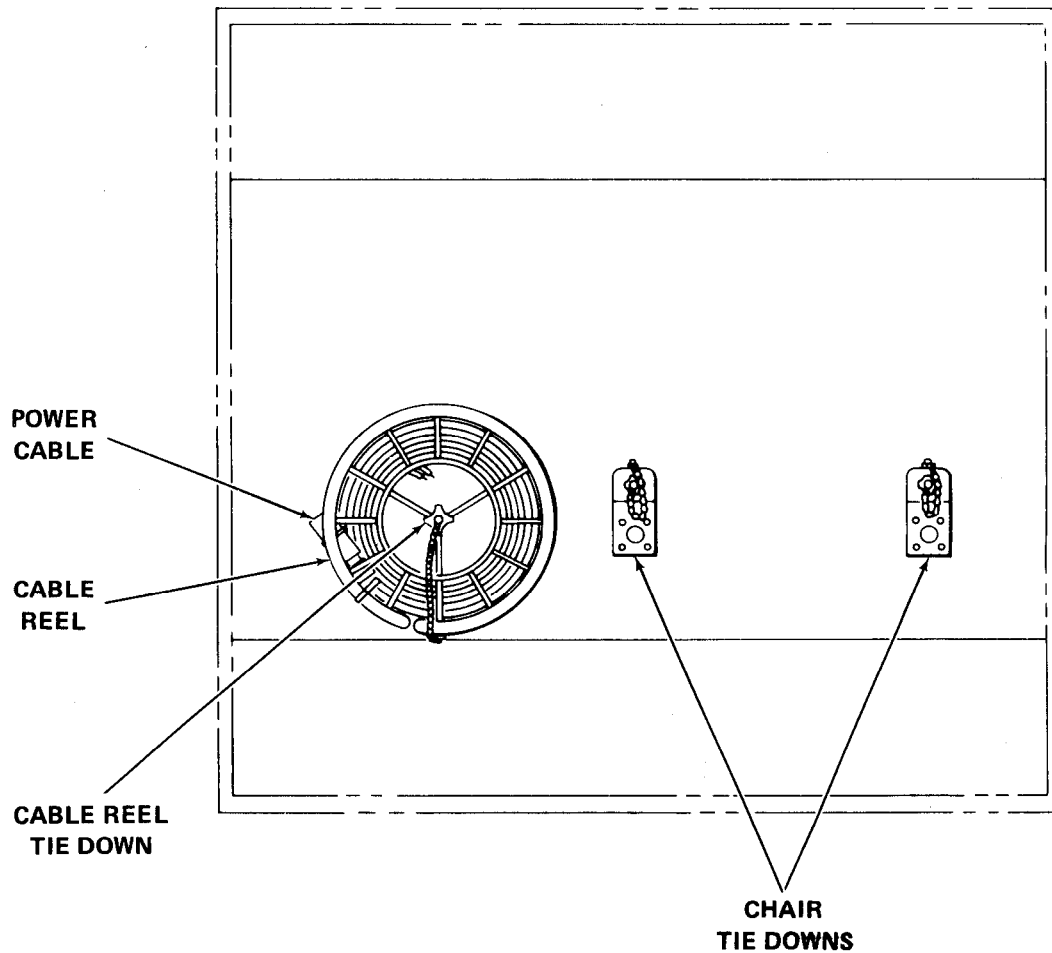


Figure 1-5. Shelter Interior, Floor

(2) *Power Connections.* A watertight receptacle is provided in the power entrance panel on the exterior of the door-end wall of the shelter to permit connection to an external power supply. This ac power is routed through the power distribution panel and wall ducting to the ac convenience outlets, ac receptacles, ceiling lights, and the dc power supply unit. This ac power may be supplied by a separate engine-driven generator unit or from a central power source.

(3) *Telephone.* A bracket for the TA-312/PT telephone is installed on the interior door-end wall just above the power entrance box. Signal leads (two two-conductor cables) are provided at the bracket for connecting the telephone; these leads are connected to four binding posts on the power entrance panel.

NOTE

The TA-312/PT telephone is not supplied with the shelter.

(4) *Equipment Racks.* Six modular racks are installed on the inner roadside wall of the shelter. The racks are stacked two high along the wall and are supported in the front by a floor-attached bracket. Each rack has one ac and one dc power strip; each power strip has six outlets.

(5) *Fire Extinguisher.* A Class C fire extinguisher is located on the right side of the door-end wall.

(6) *Tiedowns and Accessory Hardware.* Each shelter is equipped with tiedowns and accessory hardware to secure the cable reel and power cable assembly, the two rotary chairs, and the ground rod and its strap during transit of the shelter. Additional securing hardware is required to secure the angle brackets in the six modular racks which accept equipment installed at various insert angles. This securing hardware is not supplied with the shelter but is furnished during the assembly of the various component configurations.

(7) *Air Conditioner.* A 9000-Btu air conditioner is mounted through the curbside wall of the shelter and consists of four systems: a refrigeration system which includes

a hermetically sealed motor-compressor, a condenser, an evaporator, thermal expansion valves, a slight glass, a back-pressure regulating valve, a pressure relief valve, and a high-pressure cutout control; a heating system consisting of six 300-watt heating elements; an air circulation system which includes a return air register, a supply air register, an evaporator fan, a condenser fan, required motors, a fresh air duct, and a CBR air duct; and an electrical system which includes fan motors, the compressor motor, strip heater relays, contactors, and a 187 Vdc rectifier with its associated fuses, solenoids, an outdoor thermostat, a circuit breaker, and a heater thermostat.

(8) *Regulated Power Supply.* A 28 Vdc power supply unit (Power Supply PXS-EE-28VF) is mounted on the curbside interior wall (towards the front of the shelter). This power supply provides regulated +28 Vdc power to the shelter equipment. Refer to TM 32-6130-001-14&P for operating and maintenance instructions for the power supply.

(9) *Power Distribution Panel.* The power distribution panel is mounted on the curbside of the door-end wall and receives ac power through the power entrance panel from an external power source. This power is distributed through eight circuits to serve the electrical requirements of the shelter. A voltmeter and an ammeter are provided on the panel.

1-8 TABULATED DATA. Overall physical and performance characteristics of the Electrical Equipment Shelter S-457A/G and various components are as follows:

a. Shelter, Electrical Equipment.

| | |
|---------------------|---------------------------------|
| Weight | 2,600 lb (approximately) |
| Dimensions: | |
| Height | 70 in |
| Depth | 86.625 in |
| Width | 79 in |

| | |
|--|-------------------------------------|
| Volume | 277.22 ft³ |
| Power requirements: | |
| Input voltage | 117 Vac, single-phase, 60 Hz |
| Power consumption: | |
| Incandescent lights (3) | 21 W |
| Fluorescent lights (4) | 56 W |
| Power supply | 504 W |
| Air conditioner | 3,335 W |

b. Air Conditioner.

| | |
|-------------------------------|--|
| Weight | 180 lb |
| Dimensions: | |
| Height | 32 in |
| Depth | 17 in |
| Width | 17 in. |
| Volume | 5.35 ft³ |
| Cooling capacity | 9,000 Btu |
| Heating capacity | 6,000 Btu |
| Power input | 115 Vac, single-phase 60 Hz |

c. Power Supply PXS-EE-28VF.

| | |
|------------------------------------|--|
| Weight | 38 lb |
| Dimensions: | |
| Height | 4.75 in |
| Depth | 17 in |
| Width | 7.5 in |
| Volume | 0.35 ft³ |
| Input voltage | 105-132 Vac, 47-63 Hz |
| Output voltage | 28 ±4 Vdc |
| Operating temperature | 32° to 159.8° F |
| Noise and ripple | 1.5 mV, 5 mV p-p with positive or negative grounded |

CHAPTER 2

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. TOOLS AND EQUIPMENT

2-1 TOOLS. The tools required for this level of maintenance are listed in the Maintenance Allocation Chart (MAC), Appendix B. Table 2-1 lists the tools required and their use.

2-2 TEST EQUIPMENT. The test equipment required at this level of maintenance is listed in the Maintenance

Allocation chart (MAC), Appendix B. Table 2-1 lists the test equipment required and its uses.

2-3 MATERIALS. Materials required at this level of maintenance are listed in the Expendable Supplies and Material List (ESML), Appendix D. Table 2-2 lists the materials required and their use.

Table 2-1. *Tools and Test Equipment*

| NSN | Item | Use |
|------------------|--|--|
| 5180-00-605-0079 | Tool Kit, Electronic Equipment TK-100/G | Clean, service, and repair equipment |
| 5180-00-610-8177 | Tool Kit, Electronic Equipment TK-105/G | Remove and replace power supply and air conditioner |
| 6625-00-999-7465 | Multimeter AN/USM-223 | Perform voltage and resistance measurements |

Table 2-2. *Materials Required*

| NSN | Item | Use |
|------------------|-----------------------------|-------------------------------------|
| 6850-00-935-1082 | Trichloroethane | Clean metal parts |
| 8020-00-246-8806 | Soft brush | Clean electrical components |
| 7920-00-365-4694 | 1-inch bristle brush | Clean metal surfaces |
| 8305-00-267-3015 | Lint-free cloth | Clean and dry metal surfaces |

Section II. REPAINTING AND REFINISHING INSTRUCTIONS

2-4 REPAINTING AND REFINISHING. Repainting and refinishing of the electrical equipment shelter shall be accomplished in accordance with TB 43-0118, Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters. Necessary paints and

finishes shall be in accordance with SB 11-573, Painting and Preservation Supplies Available for Field Use for Electronics command Equipment, and AR 746-1, Packaging of Army Equipment for Shipment and Storage. Special painting instructions are listed on a plate attached to the personnel entrance door at the rear of the shelter.

Section III. LUBRICATION INSTRUCTIONS

2-5 LUBRICATION. Lubricate door hinges, vent hinges, ventilating fans, and door latches during routine maintenance checks; use Lubrication Oil, Internal Combustion Engine, Arctic, MIL-L-46167.

nance checks; use Lubrication Oil, Internal Combustion Engine, Arctic, MIL-L-46167.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-6 GENERAL. To ensure that the shelter is always ready for operation, inspect it routinely and systematically so that defects may be discovered and corrected before they result in serious damage or failure.

CAUTION

Stop operation immediately if any deficiency that would damage the equipment is noted.

2-7 PREVENTIVE MAINTENANCE PROCEDURES. Preventive maintenance checks and services that must be performed at the organizational level of maintenance are listed in table 2-3. Any defects noted during the operation of the shelter and its components shall be noted and

corrections made as soon as operation has ceased. Record all deficiencies, with the corrective action taken, on DA Form 2404, Equipment Inspection and Maintenance Worksheet. The first column of table 2-3 indicates the sequence in which a particular check or service is to be accomplished. The next major column (Interval) indicates the intervals at which the procedure is to be accomplished. The codes for the interval column are explained in the legend preceding the body of the table. The next column lists the exact item or component to be inspected. The fourth column outlines the inspection procedures. The last column contains the criteria which shall cause the equipment to be classified NOT READY (RED) because of its inability to perform its primary mission. Additional maintenance procedures for the shelter are covered in TB 43-0124, Maintenance and Repair Procedures for Shelters, Electrical Equipment.

Section V. TROUBLESHOOTING

2-8 GENERAL This section contains troubleshooting information for locating and correcting malfunctions at the organizational maintenance level. Refer to the appropriate technical manuals for specific troubleshooting procedures for items of equipment, not covered by this manual. (See Appendix A for the listing of the appropriate manuals.)

2-9 TROUBLESHOOTING TABLE. Troubleshooting this shelter is done in conjunction with the preventive maintenance checks listed in table 2-3. When an abnormal condition or malfunction is observed during these checks, the

troubleshooting table (table 2-4) lists the malfunction, followed by the test or inspection required to determine the cause of the malfunction. The recommended corrective action to be taken is listed in the third column. Any trouble that is beyond the scope of organizational maintenance shall be referred to the next higher level of maintenance as specified in the Maintenance Allocation Chart, Appendix B. The Maintenance Allocation Chart contains references to various technical manuals for maintenance instructions and procedures for equipment components not covered in this manual.

Table 2-3. Organizational Preventive Maintenance Checks and Services

WARNING

High voltage is used in the operation of this equipment. Death on contact may result if personnel fail to observe safety precautions.

NOTE

If the equipment must be kept in continuous operation, check and service only those items which are the responsibility of organizational maintenance and which can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down. Within the designated intervals, these checks shall be accomplished in the order indicated in the left-hand column.

The "Item No." column shall be used as a source of item numbers for the "TM Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

Legend

W-Weekly
M-Monthly

Q-Quarterly
S-Semiannually

A-Annually
B-Biennially

H-Hours
MI-Miles

| Item No. | Interval | | | | | | | | Item to be inspected | Procedures | Equipment will be reported Not Ready (Red) if: |
|----------|----------|---|---|---|---|---|---|----|---------------------------|--|--|
| | W | M | Q | S | A | B | H | MI | | | |
| 1 | | • | | | | | | | COMPLETENESS OF EQUIPMENT | Check the completeness of the equipment. | Power supply missing. |
| 2 | | • | | | | | | | SHELTER INTERIOR | Check that the interior of the shelter is clean and free of foreign matter. | |
| 3 | | • | | | | | | | PAINTING AND PRESERVATION | Check all surfaces for evidence of fungus, rust, and corrosion. Refer to paragraph 2-4 for repainting instructions. | |
| 4 | | • | | | | | | | PUBLICATIONS | Check that all applicable publications are current, complete, and serviceable. Refer to Appendix A and DA PAM 310-4 for publications applicable to this shelter. | |

Table 2-3. Organizational Preventive Maintenance Checks and Services – Continued

| Item No. | Interval | | | | | | | | | Item to be inspected | Procedures | Equipment will be reported Not Ready (Red) if: |
|----------|----------|---|---|---|---|---|---|----|--|-------------------------------|--|---|
| | W | M | Q | S | A | B | H | MI | | | | |
| 5 | | • | | | | | | | | MODIFICATIONS | Check that all current Modification Work Orders (MWOs) have been applied. Apply urgent MWOs immediately. Schedule normal MWOs to avoid disrupting operation when possible. | Urgent MWOs not applied. Switches or circuit breakers inoperative. |
| 6 | | • | | | | | | | | CABLES AND WIRES | Check that cable insulation is intact and free from cuts, fraying, or excessive wear. Repair or replace as required. Tighten all loose connections. | |
| 7 | | • | | | | | | | | RECEPTACLES | Clean area around receptacles. Replace covers on unused outlets. Check receptacles for continuity and shorts. Repair or replace as required. | |
| 8 | | • | | | | | | | | SWITCHES AND CIRCUIT BREAKERS | Check for shorts and proper operation. Repair or replace as required. | |
| 9 | | • | | | | | | | | SHELTER EXTERIOR | Check for holes, open seams, or signs of seepage or leaks. If repairs are required, refer to the next higher maintenance level. | |
| 10 | | • | | | | | | | | DOOR VENT FILTER | Check for dirt, obstructions, or signs of damage. Clean or replace as required. | |

Table 2-3. Organizational Preventive Maintenance Checks and Services – Continued

| Item No. | Interval | | | | | | | | Item to be inspected | Procedures | Equipment will be reported Not Ready (Red) if: |
|----------|----------|---|---|---|---|---|---|----|--------------------------|---|--|
| | W | M | Q | S | A | B | H | MI | | | |
| 11 | | | • | | | | | | AIR CONDITIONER | Refer to TM 5-4120-337-14 for complete maintenance instructions. Check for proper operation and for signs of damage to cabinet and guards on the outside of the shelter. Ensure that the drain is free from obstructions. All repairs shall be referred to the next higher maintenance level. | Equipment inoperative. |
| 12 | | | • | | | | | | POWER SUPPLY | Refer to TM 32-6130-001-14&P for complete maintenance instructions. | Power supply inoperative. |
| 13 | | | • | | | | | | FIRE EXTINGUISHER | Check pressure gauge. Renew pressure cartridge if gauge reads below the indicator line. | |

Table 2-4. Troubleshooting

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. NO AC POWER AVAILABLE INSIDE SHELTER WHEN EXTERNAL POWER IS CONNECTED.

Step 1. Check that the external power source is energized.

Energize the external power source.

Step 2. Check power receptacle J1.

Repair or replace as required.

Step 3. Check the main circuit breaker CB-9.

Replace main circuit breaker.

Step 4. Check the wiring from the power entrance panel to the power distribution panel.

Repair or replace wiring as required.

2. FLUORESCENT CEILING LIGHTS ARE INOPERATIVE WHEN FLUORESCENT LIGHT SWITCH(ES) ARE ON.

Step 1. Check for a burned out fluorescent tube or defective starter.

Replace tube(s) or starter(s).

Step 2. Check the fluorescent light circuit breaker CB-1.

Replace circuit breaker CB-1.

Step 3. Check fluorescent light switch.

Replace switch.

Step 4. Check for defective wiring between circuit breaker CB-1 and the ceiling fixtures.

Repair or replace wiring as required.

3. BLACKOUT LIGHTS FAIL TO OPERATE WHEN THE PERSONNEL ENTRANCE DOOR IS OPENED.

Step 1. Check for burned out incandescent bulb(s).

Replace bulb(s).

Step 2. Check position of blackout light switch.

Set to the ON position.

Table 2-4. Troubleshooting – Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|---|---|---|
| 3. BLACKOUT LIGHTS FAIL TO OPERATE WHEN THE PERSONNEL ENTRANCE DOOR IS OPENED - CONTINUED. | Step 3. Check blackout bypass switch. | Set to the OFF position. Replace or repair if defective. |
| | Step 4. Check the blackout light interlock microswitch. | Replace if defective. |
| | Step 5. Check for defective wiring. | Repair or replace wiring as required. |
| 4. CEILING LIGHTS DO NOT GO OUT WHEN THE PERSONNEL ENTRANCE DOOR IS OPENED AND THE BLACK-OUT BYPASS SWITCH IS OFF. | Step 1. Check blackout bypass switch. | Repair or replace if defective. |
| | Step 2. Check the blackout light interlock microswitch. | Replace if defective. |
| | Step 3. Check for defective wiring. | Repair or replace wiring as required. |
| 5. NO POWER IN AC POWER RECEPTACLES. | Step 1. Check circuit breaker CB-2, CB-4, or CB-5. | Replace any defective circuit breaker. |
| | Step 2. Check for defective wiring. | Repair or replace wiring as required. |
| 6. AIR CONDITIONER DOES NOT OPERATE. | Step 1. Check circuit breaker CB-6. | Replace if defective. |

Table 2-4. Troubleshooting – Continued

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

6. AIR CONDITIONER DOES NOT OPERATE - CONTINUED.

Step 2. Check condition of air conditioner power plug.

Repair or replace power plug as required.

Step 3. Check for defective wiring.

Repair or replace wiring as required.

Step 4. Check operation of the air conditioning unit.

Refer to TM 5-4120-337-14 for troubleshooting and maintenance instructions.

7. NO POWER IN DC POWER OUTLETS.

Step 1. Check circuit breaker CB-3.

Replace if defective.

Step 2. Check operation of PXS-EE-28VF power supply.

Refer to TM 32-6130-001-14&P for troubleshooting and maintenance instructions.

Step 3. Check for defective wiring.

Repair or replace wiring as required,

Step 4. Check for defective dc power outlet receptacles.

Repair or replace receptacles as required.

Section VI. MAINTENANCE OF ELECTRICAL EQUIPMENT SHELTER S-457 A/G

2-10 GENERAL. This section contains instructions covering organizational level maintenance for Electrical Equipment Shelter S-457 A/G. It consists of those items specified in the Maintenance Allocation Chart, Appendix B of this manual, that may be performed at the organizational level. These items include initial installation of the shelter; cleaning of components; inspection of components; preventive maintenance; installation, replacement, and repair of the power distribution panel; removal and replacement of the dc power supply unit; and repair of the electrical power distribution and ducting. Additional and detailed maintenance instruction for the dc power supply unit and the air conditioner are contained in TM 5-4120-337-14 and TM 32-6130-001-14&P.

2-11 INITIAL INSTALLATION OF SHELTER.

a. General. The shelter may be installed on the ground or on a 1-1/4 ton truck. If installed on the ground, it shall be placed on a firm, dry surface with good drainage and be placed on concrete blocks or wooden beams and positioned to facilitate the connection of power and signal cables. If external power is supplied from a generator set, in lieu of a shelter power central, locate the equipment shelter at least 75 feet from the generator set to minimize fire hazard and noise interference. If the shelter is to be installed in a truck, the accessibility of the vehicle must be taken into consideration when positioning the shelter truck.

b. Unpacking Upon Receipt.

(1) The shelter is packed in a reusable wooden crate and is anchored to eyebolts in the crate skid base; it is also blocked with lumber at the sides and ends. The skid base may be handled with a forklift.

(2) Unfasten the crate lag screws and remove the top, end, and side panels from the base.

(3) Loosen the turnbuckle on each sling leg and detach the sling assembly from the eyebolts in the crate base; remove the lumber blocking from the sides and ends.

(4) Using overhead lifting equipment, remove the shelter from the crate base.

CAUTION

Do not use a forklift to remove the shelter as the forklift blades may damage the shelter skin.

NOTE

Ship the packing materials to a local storage area (if practical) since these materials may be used for reshipment of the shelter.

(5) Inspect the shelter for damage that might have occurred during shipment. Report any damage on DD Form 6.

c. Ground Installation. If the shelter is to be installed on the ground, proceed as follows:

WARNING

To avoid injury to personnel and damage to the equipment, permit only those personnel engaged in actual siting operations to be near the lifting device and shelter. To eliminate confusion, all instructions shall come from the installation supervisor.

(1) Place the sling assembly on top of the shelter.

(2) Connect the four sling assembly hooks to the four lifting rings (one on each upper corner of the shelter) (see figure 1-1). Connect the sling eye to the hoist.

(3) Tie a 1/2-inch rope (at least 15 feet long to each of the towing eyes at the rear of the shelter.

(4) Slowly lift the shelter from its resting place to a position high enough to permit cement blocks or wooden beams to be positioned beneath it.

(5) Position a man at each guide rope and slowly lower the shelter onto the cement blocks or wooden beams.

(6) Remove the sling eye from the hoist lifting hook. Remove the four sling hooks from the shelter lifting rings; remove the two ropes from the towing eyes.

d. Truck Installation. To install the shelter on a 1-1/4 ton truck, proceed as follows:

WARNING

To avoid injury to personnel and damage to equipment, permit only those personnel engaged in the actual loading operation to be near the truck, lifting device, and shelter. To eliminate confusion, all instructions shall come from the installation supervisor. All personnel must remain clear of the truck while the shelter is being lowered into position.

- (1) Place the sling assembly on top of the shelter.
- (2) Connect the four sling assembly hooks to the four lifting eyes (one on each upper corner of the shelter) (see figure 1-1). Connect the sling eye to the hoist.
- (3) Tie a 1/2-inch rope (at least 15 feet long) to each of the towing eyes at the rear of the shelter.
- (4) Lower the tailgate of the truck; ensure that all tools and equipment have been removed from the bed of the truck.
- (5) Slowly lift the shelter from its resting place to a position high enough to clear the bed of the truck.

NOTE

The personnel entrance door of the shelter must be at the rear of the truck; the front end of the shelter must be flush against the front of the truck bed when finally placed in position and secured.

- (6) Back the truck into position under the shelter.
- (7) Position a man at each guide rope and slowly lower the shelter into the truck.
- (8) Remove the sling eye from the hoist lifting hook. Remove the four sling hooks from the shelter lifting rings; remove the two ropes from the towing eyes.
- (9) Install a tiedown bracket at each corner of the cargo bed side rails of the truck.

e. Boarding Ladder Installation.

- (1) If the shelter is installed in a truck, remove the boarding ladder from its stowed position over the personnel entrance on the rear end of the shelter. Position the truck tailgate in the horizontal position. Hook the boarding ladder firmly over the bottom edge of the tailgate and position the foot of the ladder on the ground.
- (2) If the shelter is mounted on the ground, remove the ladder from its stowing brackets and move to a local storage area so it will be available for reinstallation if the shelter is moved to another location.

f. Cable Reel and Power Cable Assemblies. Release the cable reel and power cable from the tie down assembly on the floor of the shelter (see figure 1-5). Remove the reel and cable assembly from the shelter.

g. Grounding of Shelter. The shelter must be properly grounded before input power is connected. Select a grounding site that is low and damp and will not interfere with the personnel entrance door, field wires, and power or signal cables.

WARNING

Improper grounding can cause severe shock to operating and/or maintenance personnel.

- (1) Remove the ground rod and ground strap from the brackets inside the shelter (see figure 1-2). Remove any dirt or grease from the rod.
- (2) Scoop out a small hole (approximately 6 inches deep) at the grounding site.
- (3) Drive the ground rod into hole with a sledge hammer until the top of the rod is approximately 3 inches from the bottom of the hole. Connect the ground strap to the lower GROUND TERMINAL in the power entrance panel.
- (4) Saturate the ground around the ground rod with water.

h. Power Connections.

- (1) Ensure that all circuit breakers and equipment power switches in the shelter are in the OFF position.
- (2) The primary source of power for the shelter will be a field generator rated at 5kW, 110 Vac, 60 Hz, single-phase. In some instances, the shelter may be powered from another command shelter; however, the input power remains the same.
- (3) Open the cover on the power entrance panel and remove the cover from the inlet power receptacle on the face of the panel. Connect the input power supply cable to the power receptacle in the power entrance panel. Connect the other end of the input power cable to the appropriate terminals on the field generator.

i. Equipment/Modular Racks. Install the applicable equipment in the universal racks (see figure 1-4) as required by the particular application of the shelter. This equipment may be installed at any angle (up to 60 degrees from the front panel) by adjusting the angle brackets, as required, and then securing the applicable bracket. The primary power connections to the installed equipment are located on the rear of each rack and contain both ac and dc female connectors.

2-12 CLEANING.

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR HEAT OR OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas.

- a.* Remove dust and dirt from the equipment with a lint-free cloth; if necessary, moisten the cloth with trichloroethane. After cleaning, wipe dry with a lint-free cloth.

b. Use a 1-inch bristle brush to remove dirt and dust from hard to reach areas.

c. Remove grease with trichloroethane and wipe dry with a clean, lint-free cloth.

d. Remove caked-on dirt with a stiff bristle brush soaked with trichloroethane. Wipe dry with a clean, lint-free cloth.

e. Dry compressed air (at a pressure not to exceed 60 psig) may be used to remove dust and dirt from inaccessible areas, such as behind the air conditioner and equipment racks.

2-13 FLUORESCENT LAMPS AND STARTERS.

a. Removal. To remove any fluorescent lamp or starter, proceed as follows:

(1) Remove the two screws holding the cover to the lamp fixture; remove the cover.

WARNING

Flourescent lamps often are tightly held in their holders. Do not use tools to pry them out. Breaking a fluoresent tube may be dangerous to the health if the person removing the tube is cut because of the mercury compound within the tube.

(2) Grasp the tube firmly and twist it out of the holders.

(3) Remove starters by turning counterclockwise.

b. Replacement. To replace fluoresent lamps or starters, proceed as follows:

(1) Install starters and turn clockwise to secure in position.

(2) Insert the prongs on each end of the tube into their holders and twist to secure in place.

(3) Replace the lamp cover and secure with the two screws.

2-14 BLACKOUT AND POWER INDICATOR LAMPS.

The blackout and power indicator lamps have screw thread bases. Remove by turning counterclockwise; install replacement lamps by turning clockwise.

2-15 POWER DISTRIBUTION PANEL INDICATOR LAMPS.

a. Removal. To remove a defective power distribution panel lamp, proceed as follows:

(1) Remove the lamp lens by turning counterclockwise.

(2) Grasp the lamp, push in, and turn counterclockwise to free it from its holder.

b. Installation. To install power distribution lamps, proceed as follows:

(1) Insert the new lamp into its holder, push in, and turn clockwise to secure the lamp.

(2) Reinstall the lamp lens and turn clockwise to secure in place.

2-16 POWER DISTRIBUTION PANEL CIRCUIT BREAKERS. See figures 2-1 and 2-2.

a. Removal To remove any circuit breaker from the power distribution panel, proceed as follows:

(1) Remove the two retaining screws and swing the front panel down.

(2) Remove the defective circuit breaker by pulling it from its holder.

b. Replacement. To replace any circuit breaker in the power distribution panel, proceed as follows:

(1) Insert the circuit breaker into its holder,

(2) Swing the front panel up and secure in position with two retaining screws and washers.

2-17 POWER DISTRIBUTION PANEL METERS.

a. Removal. To remove either the voltmeter or the ammeter from the power distribution panel, proceed as follows:

(1) Remove the two retaining screws and swing the front panel down to gain access to the rear of the meters.

(2) Tag and disconnect the leads to the voltmeter.

(3) Remove the three nuts, washers, and screws securing the voltmeter to the front panel; remove the voltmeter.

(4) Tag and disconnect the leads to the ammeter.

(5) Remove the three nuts, washers, and screws securing the ammeter to the front panel; remove the ammeter.

b. Replacement. To replace the voltmeter or ammeter in the power distribution panel, proceed as follows:

(1) Install the ammeter in the front panel and secure with three screws, washers, and nuts.

(2) Reconnect the leads to the ammeter, paying attention to the lead tags to be sure that they are connected the same as they originally were.

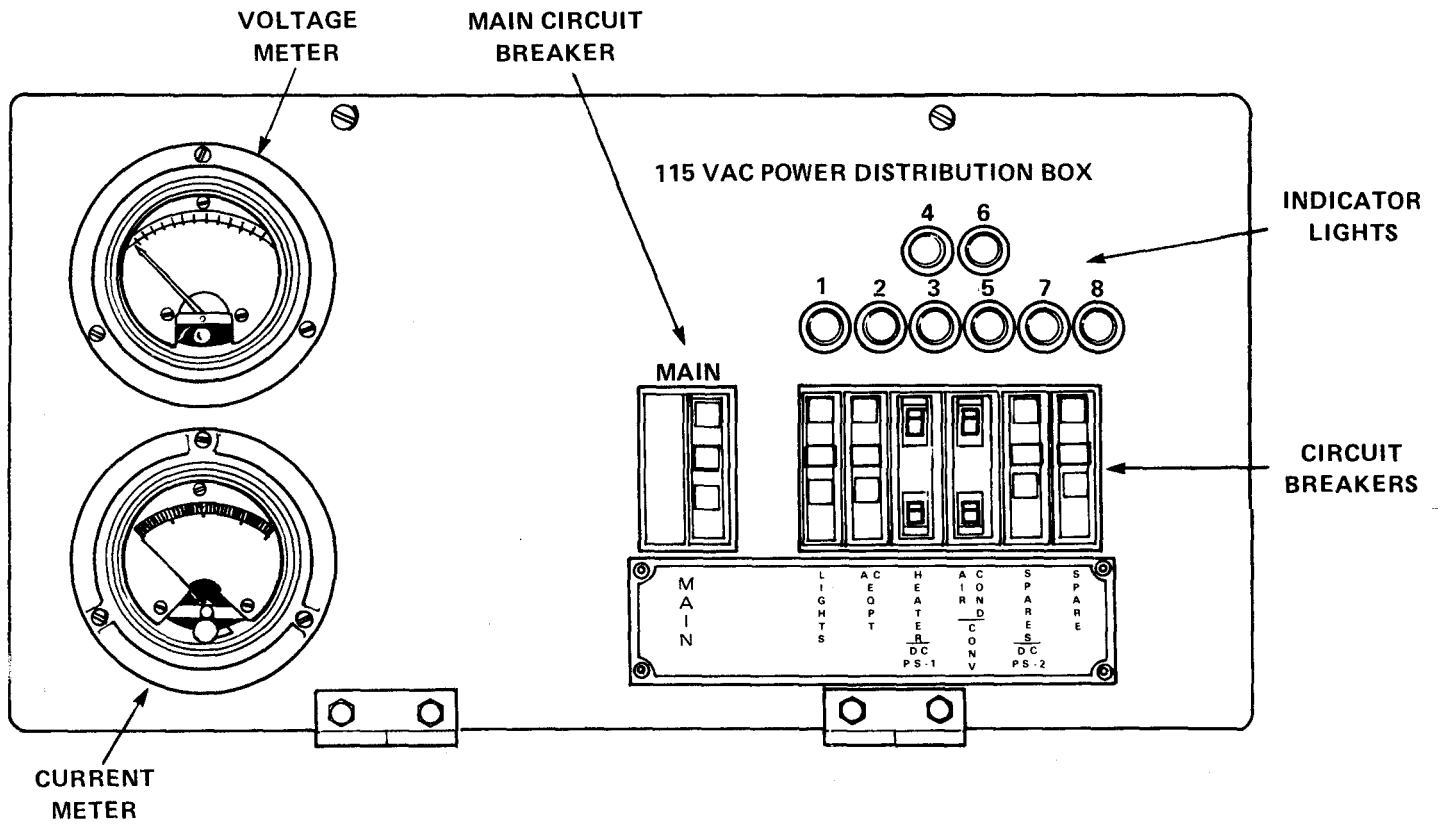
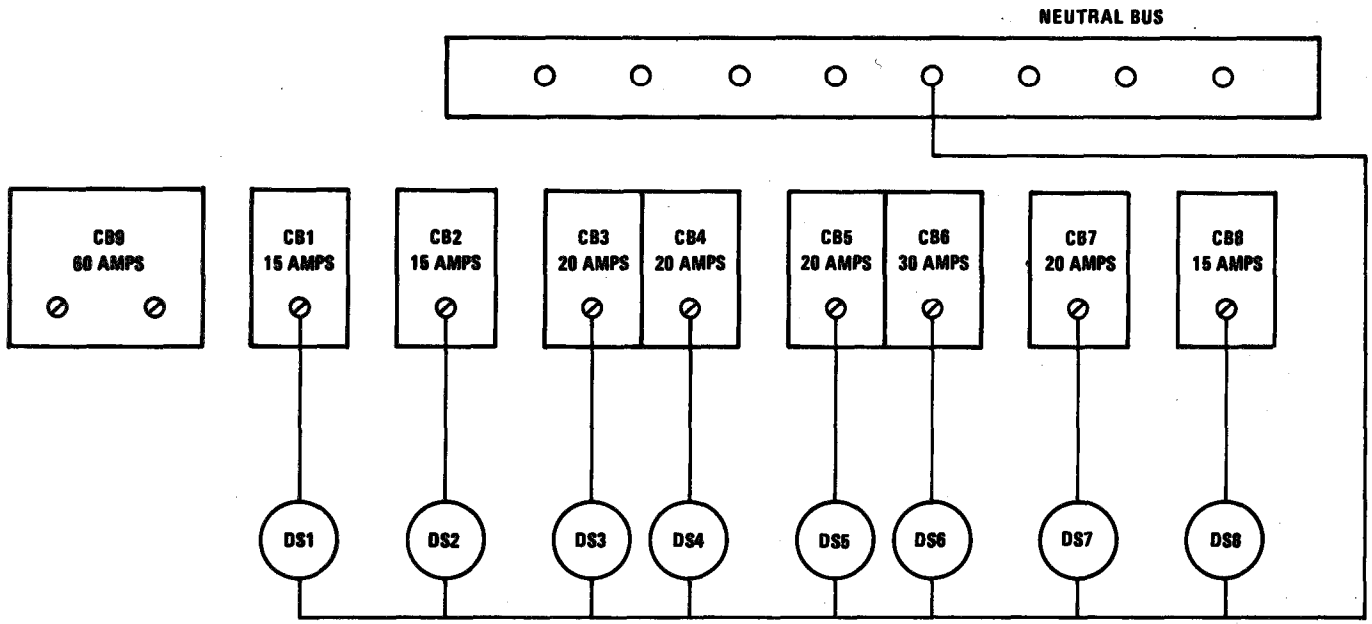


Figure 2-1. Power Distribution Panel Enclosure



| LEGEND | |
|--------|---------------|
| CB1 | LIGHTS |
| CB2 | AC EQPT |
| CB3 | DC PS-1 |
| CB4 | HEATER |
| CB5 | CONV |
| CB6 | AIR COND |
| CB7 | SPARE DC PS-2 |
| CB8 | SPARE |
| CB9 | MAIN |

Figure 2-2. Power Distribution Panel Wiring Diagram

(3) Install the voltmeter in the front panel and secure with three screws, washers, and nuts.

(4) Reconnect the leads to the voltmeter, paying attention to the lead tags to be sure that they are connected the same as they originally were.

(5) Swing the front panel up and secure in position with the two retaining screws.

2-18 ELECTRICAL EQUIPMENT RACKS AND SHELVES. The maintenance for the electrical equipment racks and shelves consists basically of keeping them clean. Refer to paragraph 2-12 for cleaning instructions.

2-19 AIR CONDITIONER. Detailed maintenance instructions for the air conditioner are outlined in TM 5-4120-274-15. However, the following procedures for removing, cleaning; and reinstalling the air-conditioner filter are repeated for emphasis.

a. Removal of Filter.

(1) Remove the four screws and washers securing the return air inlet louver to the air-conditioner unit.

(2) Remove the louver; remove the air-conditioner filter.

b. Cleaning of Filter.

(1) Clean the filter thoroughly with hot water or steam,

(2) Thoroughly dry the filter with dry compressed air at a pressure not to exceed 5 psig.

(3) After completely drying the filter and before reinstalling it, dip the filter in Stranded Air Maze Filter-kote or an equivalent solution.

c. Reinstallation of Filter.

(1) Reinstall the filter in the air-conditioner unit.

(2) Reinstall the return air inlet louver and secure in place with four screws and washers.

2-20 PERSONNEL ENTRANCE DOOR FILTER.

a. Removal of Filter.

(1) Loosen the four thumbscrews securing the vane assembly to the door and remove this assembly.

(2) Remove the filter from the door.

b. Cleaning of Door Filter.

(1) Wash the filter in a solution of mild soap and warm water.

(2) Thoroughly dry the filter with dry compressed air at a pressure not to exceed 5 psig.

c. Reinstallation of Filter.

(1) Reinstall the filter in the door.

(2) Attach the vane assembly to the personnel entrance door and secure in place with four thumbscrews.

2-21 ELECTRICAL DUCTING AND LIGHTING FIXTURES.

a. Power Receptacles.

(1) *Removal.* To remove the receptacles proceed as follows:

(a) Remove the screws securing the receptacle to the electrical ducting and withdraw the receptacle.

(b) Tag and disconnect the electrical leads to the receptacle.

(2) *Installation.* To reinstall the receptacles, proceed as follows:

(a) Reconnect the electrical leads to the receptacle, ensuring that the leads are connected to the proper terminals.

(b) Insert the receptacle into the electrical ducting and secure in place with its screws.

b. Switches.

(1) *Removal.* To remove any switch, proceed as follows:

(a) Remove the screws securing the switch to the electrical ducting and withdraw the switch.

(b) Tag and disconnect the electrical leads to the switch.

(2) *Installation.* To reinstall any switch, proceed as follows:

(a) Reconnect the electrical leads to the switch, ensuring the leads are connected to the proper terminals.

(b) Insert the switch into the electrical ducting and secure in place with its screws.

c. Ceiling Light Fixtures.

(1) *Removal.* To remove the ceiling light fixture, proceed as follows:

(a) Remove the two screws securing the cover; remove the cover.

(b) Tag and disconnect the electrical leads to the fixture.

(c) Remove the nuts and lockwashers and remove the light fixture from the ceiling of the shelter.

(2) *Disassembly.* To disassemble the light fixture proceed as follows:

WARNING

Fluorescent lamps often are tightly held in their holders. Do not use tools to pry them out. Breaking a fluorescent tube may be dangerous to the health if the person removing the tube is cut because of the mercury compound within the tube.

NOTE

Disassemble the light fixture only to the extent required to replace defective components.

(a) Remove the fluorescent tube.

(b) Remove the cover assembly and terminal lugs by removing the securing nuts and lockwashers.

(c) Remove the lampholders from the end brackets.

(d) Remove the end brackets by removing the securing nuts and lockwashers.

(e) Remove the bracket from the enclosure by removing two nuts, washers, and lockwashers.

(f) Remove the tip ballast from the enclosure by removing four nuts, washers, and lockwashers.

(g) Remove the filter from the enclosure by removing the nut, washer, and lockwasher.

(h) Remove the lamp starter from its socket.

(i) Remove the the starter socket by removing two screws, lockwashers, and nuts.

(3) *Repair.* Repair of the ceiling light fixtures is limited to the replacement of those parts found to be defective.

(4) *Reassembly.* To reassemble the ceiling light fixture proceed as follows:

(a) Reinstall the lamp starter socket in the enclosure and secure in place with the screws, lockwashers, and nuts.

(b) Reinstall the starter in its socket.

(c) Install the filter on the enclosure and hold in position with its nut, lockwasher, and washer.

(d) Reinstall the lamp ballast in the enclosure and secure in position with four lockwashers, washers, and nuts.

(e) Reinstall the bracket in the enclosure and secure in place with two lockwashers, washers, and nuts.

(f) Reinstall the two end brackets and secure in place with two lockwashers and nuts.

(g) Reinstall the lampholders in the end brackets.

(h) Reinstall the terminal lugs and cover assembly on the enclosure and secure in place with the securing nuts and lockwashers.

(i) Reinstall fluorescent tube.

(5) *Reinstallation.* To reinstall the ceiling light fixture proceed as follows:

(a) Reinstall the light fixture on the ceiling of the shelter and secure in place with two lockwashers and nuts.

(b) Reconnect the electrical leads to the fixture, ensuring that the leads are connected to the proper terminals.

(c) Replace the lamp cover and secure with the two screws.

2-22 ORGANIZATIONAL TESTING. Organizational testing of the shelter consists of performing point-to-point continuity checks of the shelter lighting circuits and the electrical wiring in the electrical ducting and power distribution panel. Refer to FO-1 for the schematic wiring diagram.

CHAPTER 3

FUNCTIONING OF EQUIPMENT

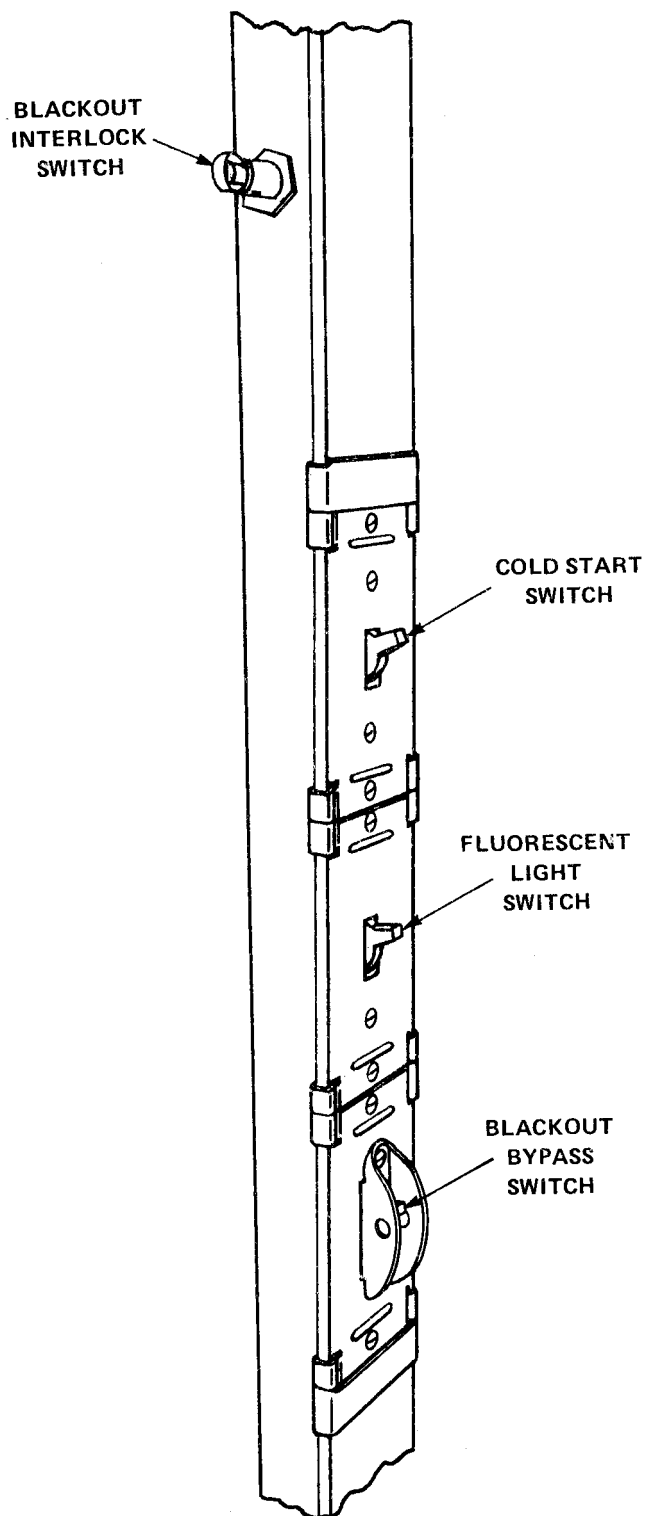
3-1 SCOPE. This chapter contains a functional description of the Electrical Equipment Shelter S-457A/G. Appendix A list the applicable technical manuals for the air-conditioning unit and the dc power supply. The only functional components of this basic shelter are the electrical system, dc power supply, and the air conditioner.

3-2 ELECTRICAL SYSTEM. The electrical system of the shelter consists of a power entrance panel which receives 115 Vac from an external source. This power is distributed through the main circuit breaker on the power distribution panel on the interior of the rear wall to individual circuit breakers. These breakers distribute the power through electrical ducting to the ac convenience and equipment outlets, the dc power supply, the air con-

ditioner, and the shelter lights. The dc power supply rectifies the incoming power and supplies this power through six dc equipment outlets. There is a blackout microswitch (figure 3-1), activated by the personnel entrance door, to provide low-level lighting when the shelter door is open there is a blackout bypass switch mounted on the interior of the rear wall of the shelter to defeat the blackout microswitch and permit the fluorescent lights to remain lit, even when the shelter personnel entrance door is opened.

3-3 AIR CONDITIONER. For theory of operation for the air conditioner, refer to TM 5-4120-337-14.

3-4 POWER SUPPLY. For the theory of operation for the dc power supply, refer to TM 32-6130-001-14&P.



LIGHT SWITCHES, ROADSIDE
INTERIOR OF REAR WALL

Figure 3-1. Shelter Light Switch Panel

CHAPTER 4

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

4-1 SCOPE OF MAINTENANCE.

a. This chapter contains instructions for direct support maintenance of the Electrical Equipment Shelter S-457 A/G and covers troubleshooting, repair functions, and replacement of parts. Maintenance support functions beyond the scope of direct support maintenance, as autho-

ized by the Maintenance Allocation Chart (MAC), Appendix B, shall be performed by a higher level of maintenance.

b. Direct support maintenance includes inspecting, servicing, repairing, and replacing those items as specified in the MAC, Appendix B, and in the Repair Parts and Special Tools List (RPSTL), Appendix C.

Section II. TOOLS AND EQUIPMENT

4-2 TOOLS. The tools required for direct support maintenance of this shelter are listed in the MAC, Appendix B; their nomenclature, use, and NSN are listed in table 4-1.

4-3 TEST EQUIPMENT. The only test equipment required for direct support of this shelter is Multimeter AN/USM-233 (NSN 662-00-999-7465) which is used to measure voltages and resistances.

Table 4-1. Tools Required for Direct Support Maintenance

| NSN | Item | Use |
|------------------|---|--|
| 5180-00-605-0079 | Tool Kit, Electronic Equipment TK-100/G | Service and repair of equipment |
| 5180-00-973-4369 | Tool Kit, Electronic Equipment Shelter TK-144/G | Removal and replacement of air conditioner |

4-4 MATERIALS REQUIRED. The materials required for direct support maintenance of this shelter are listed

in the Expendable Supplies and Materials List, Appendix D; their nomenclature, use, and NSN are listed in table 4-2.

Table 4-2. Materials Required for Direct Support Maintenance

| NSN | Item | Use |
|------------------|----------------------|------------------------------|
| 6850-00-935-1082 | Trichloroethane | Clean metal parts |
| 7920-00-365-4694 | 1-inch bristle brush | Clean metal surfaces |
| 8020-00-246-8806 | Soft brush | Clean electrical components |
| 8305-00-267-3015 | Lint-free cloth | Clean and dry metal surfaces |

Section III. TROUBLESHOOTING

4-5 TROUBLESHOOTING TABLE. Refer to table 2-4 for troubleshooting procedures.

Section IV. MAINTENANCE OF ELECTRICAL EQUIPMENT SHELTER S-457 A/G

4-6 GENERAL. This section contains instructions for the complete servicing of the shelter and consists of the removal and replacement of parts at the direct support maintenance level. This maintenance includes removal and replacement of the air-conditioner unit; removal, repair, and replacement of the electrical equipment racks; and repair of the power entrance panel.

4-7 AIR-CONDITIONER UNIT.

a. Removal. To remove the air-conditioner unit, proceed as follows:

- (1) Disconnect the electrical power cable from the side of the unit.
- (2) Remove four screws and lockwashers securing the unit to two angle brackets.

WARNING

Because of the weight of the air conditioner, two men are required to lift and move the unit .

- (3) Carefully lift the unit, using the handles on its sides, and remove it from the shelter.

b. Repair. Refer to TM 5-4120-337-14 for maintenance instructions for the air-conditioner unit.

c. Reinstallation. To reinstall the air-conditioner unit, proceed as follows:

WARNING

Because of the weight of the air conditioner, two men are required to lift and move the unit .

- (1) Carefully lift the air-conditioner unit, using the handles on its sides, and place it on the two angle brackets.
- (2) Slide the unit back on the angle brackets until the holes in the bottom of the unit are aligned with the holes on the brackets. Secure the unit in place in the shelter with four lockwashers and screws.
- (3) Reconnect the electrical power cable to the side of the unit.

4-8 ELECTRICAL EQUIPMENT RACKS.

a. Removal of Upper Racks. To remove the upper racks, proceed as follows:

- (1) Disconnect the ac and dc power cables from the receptacles on the front (cab) wall of the shelter.

- (2) Remove the screws and lockwashers securing each rack to the roadside wall of the shelter.

- (3) Remove the four screws, nuts, and lockwashers securing the uppermost rack to the second rack; remove the upper racks.

b. Removal of Lower Racks. To remove the lower racks, proceed as follows:

- (1) Remove the upper racks using the procedures described above.
- (2) Remove the screws and lockwashers securing each rack to the angle brackets; remove the racks.

c. Disassembly of Electrical Equipment Racks. To disassemble any of the electrical equipment racks, proceed as follows:

- (1) Remove the angle bracket from the side plate by removing two screws, lockwashers, and nuts.
- (2) Remove the side plate from the rack weldment by removing four screws, washers, lockwashers, and nuts.
- (3) Remove the ground strap from the grounding terminal strip by removing the attaching screw and lockwasher.
- (4) Remove the grounding terminal strip from the rack weldment by removing three screws, lockwashers, and nuts.
- (5) Remove the ac electrical connector set by removing two screws and lockwashers. Remove the dc electrical connector set by removing two screws and lockwashers.
- (6) Remove the four posts by removing four screws and lockwashers.

d. Cleaning of Electrical Equipment Racks. To clean the disassembled electrical equipment racks, proceed as follows:

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR HEAT OR OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas.

- (1) Remove dust and dirt with a clean lint-free cloth; if necessary, moisten the cloth with trichloroethane. After cleaning, wipe dry with a clean, lint-free cloth.

(2) Remove grease or oil with trichloroethane; wipe dry with a clean, lint-free cloth.

(3) Remove caked-on dirt with a 1-inch bristle brush soaked with trichloroethane; after cleaning, wipe dry with a clean, lint-free cloth.

e. Repair of Electrical Equipment Racks. Repair of the racks is limited to the replacement of those parts found to be damaged. Refer to the figures in the Repair Parts and Special Tools List (RPSTL), Appendix C, for the part numbers of these items.

f. Reassembly of Electrical Equipment Racks. To reassemble any of the racks, proceed as follows:

(1) Install four posts to the rack weldment and secure in place with four screws and lockwashers.

(2) Install the dc electrical connector set and secure with two screws and lockwashers. Install the ac electrical connector set and secure with two screws and lockwashers.

(3) Install the grounding terminal strip to the rack weldment and secure with the screw lockwashers, and nuts.

(4) Install the ground strap to the grounding terminal strip with screw and lockwasher.

(5) Install the side plate to the rack weldment and secure with four screws, washers, lockwashers, and nuts.

(6) Install the angle bracket to the side plate and secure with two screws, lockwashers, and nuts.

g. Reinstallation of Lower Racks. To reinstall the lower racks, proceed as follows:

(1) Place the lower racks on the shock mounts attached to the angle brackets. Secure in place with two screws and lockwashers.

(2) Connect the ac and dc electrical cables to the respective receptacles at the front (cab) wall of the shelter.

h. Reinstallation of Upper Racks. To reinstall the upper racks, proceed as follows:

(1) Place the upper racks above the lower racks and secure in place with four screws, lockwashers, and nuts.

(2) Connect the ac and dc electrical cables to the respective receptacles at the front (cab) wall of the shelter.

4-9 POWER ENTRANCE PANEL.

a. Disassembly. To remove and disassemble the power entrance panel, proceed as follows:

(1) Remove 42 screws and washers securing the inner cover to the frame; remove the inner cover.

(2) Remove the rf shielding gasket.

(3) Tag and disconnect the electrical leads to the power entrance panel.

(4) Remove four binding posts.

(5) Remove the stud assembly by removing the wing nut, nut, two lockwashers, two washers, three sealer washers, two nuts, sealer washer, and stud.

(6) Remove the circuit breaker from its connector.

(7) Remove the connector, rubber gasket, and dust cap by removing four screws, washers, and nuts.

(8) Remove the weatherproof convenience outlet cover by removing four screws, washers, and nuts.

(9) Remove the convenience outlet by removing four nuts and washers.

(10) Remove the electrical connector.

(11) Remove six screws, washers and nuts; remove the two fender hoobs.

(12) Remove the stud assembly by removing the wing nut, nut, two lockwashers, two washers, three sealing washers, two nuts, sealer washer, and stud.

(13) Remove the securing screw, washer, and nut; remove the cap and chain.

(14) Remove four screws, washers, and nuts; remove connector.

(15) Remove the wing nut and washer; remove the cover support.

b. Cleaning. To clean the disassembled power entrance panel, proceed as follows:

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR HEAT OR OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas.

(1) Remove dirt and dust with a clean lint-free cloth; if necessary, moisten the cloth with trichloroethane. After cleaning, wipe dry with a clean, lint-free cloth.

(2) Remove grease or oil with trichloroethane; wipe dry with a clean, lint-free cloth.

(3) Remove caked-on dirt with a 1-inch bristle brush soaked with trichloroethane; after cleaning, wipe dry with a clean, lint-free cloth.

c. Repair. The repair of the power entrance panel is limited to the replacement of those parts found to be damaged. Refer to the figures in the Repair Parts and Special Tools List (RPSTL), Appendix C, for the part numbers of these items.

d. Reassembly of Power Entrance Panel. To reassemble the power entrance panel, proceed as follows:

(1) Reinstall the cover support and secure in place with washer and wing nut.

(2) Reinstall connector and secure in place with four screws, washers, and nuts.

(3) Reinstall the cap and chain and secure in place with screw, washer, and nut.

(4) Reinstall the stud assembly by replacing the stud, sealing washer, two nuts, three sealing washers, two lockwashers, nut, and wing nut.

(5) Reinstall the two fender hooks and secure in place with six screws, washers, and nuts.

(6) Reinstall the electrical connector.

(7) Reinstall the convenience outlet and secure in place with four washers and nuts.

(8) Reinstall the weatherproof convenience outlet cover and secure in place with four screws, washers, and nuts.

(9) Reinstall connector, rubber gasket, and dust cap and secure in place with four screws, washers, and nuts.

(10) Reinstall circuit breaker.

(11) Reinstall the stud assembly by replacing the stud, sealing washer, two nuts, three sealing washers, two lockwashers, nut, and wing nut.

(12) Reinstall four binding posts.

(13) Reconnect the electrical leads to the power entrance panel, ensuring that the leads are connected to the proper terminals.

(14) Reinstall the rf shielding gasket and inner cover to the frame and secure in place with 42 washers and screws.

4-10 BASIC SHELTER. For repairs to the basic electrical equipment shelter, refer to TB 43-0124 and DMWR 32-5410-001.

APPENDIX A

REFERENCES

| <u>Reference</u> | <u>Title</u> |
|---------------------|--|
| TM 5-4120-337-14 | Operator, Organizational, Direct Support, and General Support Maintenance Manual: Air Conditioner, Vertical, Compact, Self-Contained, Air Cooled, Electric Motor Driven, 115 Vat, 50/60 Hz, Single-Phase, 9000 Btu/Hr Cooling, 6000 Btu/Hr Heating |
| TM 11-5410-214-15P | Operator, Organizational, Direct Support, General Support, and Depot Maintenance Repair Parts and Special Tools List for Shelter, Electrical Equipment S-250/G |
| TM 32-6130-001-14&P | Operator, Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Power Supply PXS-EE-28VF (Model A and Model B) |
| TM 38-750 | The Army Maintenance Management System (TAMMS) |
| TM 43-0139 | Painting Instructions for Field Use |
| TM 740-90-1 | Administrative Storage of Equipment |
| TM 750-244-2 | Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command) |
| AR 700-42 | Classification, Reclassification, Maintenance, Issuance, and Reporting of Maintenance Training Aircraft |
| AR 746-1 | Packaging of Army Materiel for Shipment and Storage |
| CTA 50-970 | Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items) |
| DA Form 2028 | Recommended Changes to Publications and Blank Forms |
| DA Form 2404 | Equipment Inspection and Maintenance Worksheet |
| DA PAM 310-4 | Index of Technical Publications |
| SF 364 | Report of Discrepancies |
| DMWR 32-5410-001 | Depot Maintenance Work Requirements for Shelter, Electrical Equipment S-457A/G |
| SB 11-573 | Painting and Preservation of Supplies Available for Field Use for Electronics Command Equipment |
| SB 700-20 | Army Adopted/Other Items Selected for Authorization/List of Reportable Items (Microfiche and Hard Copy) |
| SB 708-41/42 | Federal Supply Code for Manufacturer; United States and Canada. Name to Code and Code to Name (GSA-FSS H4-1/H4-2) |
| SF 368 | Quality Deficiency Report |

| <u>Reference</u> | <u>Title</u> |
|------------------|--|
| TB 43-0118 | Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters |
| TB 43-0124 | Maintenance and Repair Procedures for Shelters, Electrical Equipment S-141/G and S-141B/G, S-144G, S-144A/G, S-144B/G, S-144C/G and S-144D/G, S-250/G, S-250/G (Shielded), S-280/G, S-280A/G, S-280B/G, S-280B/G (Shielded), S-318G, and S-318A/G. |

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1 GENERAL.

a. This section provides a general explanation of all maintenance and repair function authorized at various maintenance levels.

b. The Maintenance Allocation Chart (MAC) in Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the special tools and test equipment required for each maintenance function as referenced from Section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2 MAINTENANCE FUNCTIONS.

a. *Inspect.* To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.

b. *Test.* To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. *Service.* Operations required periodically to keep an item in proper operating condition; i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. *Adjust.* To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. *Install.* The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

f. *Replace.* The act of substituting a serviceable like type part, subassembly, or module for an unserviceable counterpart.

g. *Repair.* The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), and item, or system.

h. *Overhaul.* That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards; i.e., Depot Maintenance Work Requirement in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

B-3 EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. *Column 1, Group Number.* Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. *Column 2, Component/Assembly.* Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column 3, Maintenance Function.* Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para. B-2.)

d. *Column 4, Maintenance Level.* Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of man-hours specified by the "work the" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

- C Operator or crew
- O Organizational maintenance
- F Direct support maintenance
- H General support maintenance
- D Depot maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, Test, Measurement, and Diagnostic Equipment (TMDE), and support equipment required to perform the designated function.

f. Column 6, Remarks. This column shall, when applicable, contain a letter code, in alphabetical order, which shall be keyed to the remarks contained in Section IV.

B-4 EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. Column 1, Reference Code. The tool and TMDE reference code correlates with a code used in the MAC, Section II, column 5.

b. Column 2, Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

c. Column 3, Nomenclature. Name or identification of the tool or test equipment.

d. Column 4, National/NATO Stock Number. The National Stock Number (NSN) of the tool or TMDE.

e. Column 5, Tool Part Number. The manufacturer's part number.

B-5 EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. Reference Code. The code recorded in Section II, column 6.

b. Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section II. MAINTENANCE ALLOCATION CHART

| (1) Group Number | (2) Component/Assembly | (3) Maintenance function | (4) Maintenance level | | | | | (5) Tools and equipment | (6) Remarks |
|------------------------|---|--------------------------------|--------------------------|-----|------|---|----|-------------------------------|----------------|
| | | | C | O | F | H | D | | |
| 0 0 | ELECTRICAL EQUIPMENT SHELTER S-457A/G | Inspect | | 2.0 | | | | | |
| | | Test | | 1.0 | | | | 3 | |
| | | Service | | 2.0 | | | | 1, 2, 3 | |
| | | Install | | 1.0 | | | | 1 | |
| | | Replace | | 1.5 | | | | 1 | |
| | | Repair | | 8.0 | | | | 1, 2, 3, 4 | A |
| | | Repair | | | 16.0 | | | 1, 2, 3, 4 | A |
| | | Repair | | | | | ** | 1, 2, 3, 4 | A |
| 01 | POWER DISTRIBUTION BOX AND PANEL | Overhaul | | | | | 4 | A | |
| | | Inspect | | 0.2 | | | | | |
| | | Test | | 0.3 | | | | 3 | |
| | | Service | | 1.0 | | | | 1, 3 | |
| | | Install | | 0.5 | | | | 1 | |
| | | Replace | | 0.8 | | | | 1 | |
| | | Repair | | 2.0 | | | | 1 | |
| | | Overhaul | | | | | ** | | |
| 02 | ELECTRICAL EQUIPMENT RACKS AND SHELVES | Inspect | | 0.2 | | | | | |
| | | Service | | 0.3 | | | | 1 | |
| | | Install | | | 1.0 | | | 1 | |
| | | Replace | | | 1.5 | | | 1 | |
| | | Repair | | | 3.0 | | | 1, 2 | |
| | | Overhaul | | | | | ** | | |
| 03 | AIR CONDITIONER | Inspect | | 1.0 | | | | | |
| | | Service | | 3.0 | | | | 1 | B |
| | | Install | | | 8.0 | | | 4 | B |
| | | Replace | | | 10.0 | | | 4 | B |
| | | Repair | | | | | ** | | B |
| | | Overhaul | | | | | ** | | B |
| 04 | ELECTRICAL RACEWAYS AND LIGHTING INSTALLATION | Inspect | | 1.0 | | | | 1, 3 | |
| | | Service | | 1.5 | | | | 1, 3 | |
| | | Install | | 3.0 | | | | 1 | |
| | | Replace | | 3.5 | | | | 1 | |
| | | Repair | | 4.0 | | | | 1, 3 | |
| | | Overhaul | | | | | ** | | |
| 05 | POWER SUPPLY | Inspect | | 0.2 | | | | | |
| | | Service | | 0.3 | | | | 1 | |
| | | Test | | 2.3 | | | | 1, 3 | |
| | | Adjust | | 0.6 | | | | 1 | |
| | | Install | | 0.8 | | | | 1 | |
| | | Replace | | 1.4 | | | | 1 | |
| | | Repair | | | 4.0 | | | 2, 3 | |
| | | Overhaul | | | | | ** | | |
| 06 | CABLE AND WIRING ASSEMBLIES | Inspect | | 1.0 | | | | | |
| | | Test | | 4.0 | | | | 3 | |
| | | Replace | | 3.0 | | | | 1, 2, 3 | |

** Required man-hours are listed in the DMWR for the equipment.

| (1) Group Number | (2) Component/Assembly | (3) Maintenance function | (4) Maintenance level | | | | | (5) Tools and equipment | (6) Remarks |
|------------------------|--------------------------------------|--|--------------------------|------------|------------|---|---|-------------------------------|----------------|
| | | | C | O | F | H | D | | |
| 07 | BRACKET INSTALLATIONS | Inspect Replace Repair | | 1.0 | 1.5 3.0 | | | 1 1, 2 | |
| 08 | FLUORESCENT LAMP INSTALLATION | Inspect Replace | | 0.3 0.8 | | | | 1 | |
| 09 | ROTARY CHAIR ASSEMBLY | Inspect Replace Repair | | 0.2 0.5 | 1.0 | | | 1 1 | |
| 10 | CABLEREEL TIEDOWN ASSEMBLY | Inspect Replace | | 0.1 0.1 | | | | 1 | |
| 11 | LADDER BRACKET | Inspect Replace | | 0.1 0.3 | | | | 1 | |
| 12 | POWER ENTRANCE BOX COVER ASSEMBLY | Inspect Service Install Replace | | 0.5 1.0 | 1.0 1.0 | | | 1 4 4 | |

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

| (1) Reference code | (2) Maintenance level | (3) enc | (4) National/NATO stock number | (5) Tool number |
|--------------------------|-----------------------------|--|--------------------------------------|-----------------------|
| 1 | O | TOOL KIT, ELECTRONIC EQUIPMENT TK-100/G | 5180-00-605-0079 | TK-100/G |
| 2 | O | TOOL KIT, ELECTRONIC EQUIPMENT TK-105/G | 5180-00-610-8177 | TK-105/G |
| 3 | O | MULTIMETER AN/USM-223 | 6625-00-999-7465 | AN/USM- 223 |
| 4 | F | TOOL KIT, ELECTRONIC EQUIPMENT SHELTER TK-144/G | 5180-00-973-4369 | TK-144/G |

Section IV. REMARKS

| Reference code | Remarks |
|----------------|--|
| A | Refer to DMWR 32-5410-001 for required manhours and procedures. |
| B | Refer to TM 5-4120-274-5 for detailed maintenance instructions. |
| C | Refer to TM 32-6130001-14&P for detailed maintenance instructions. |

APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1 SCOPE. This appendix lists spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Electrical Equipment Shelter S-457 A/G. It authorizes the requisitioning and issue of spare and repair parts as indicated by the source and maintenance codes.

C-2 GENERAL This Repair Parts and Special Tools List is divided into the following sections:

a. Section II Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of fictional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National Stock Number (NSN) sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbers (NSN) appearing in the listings followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

C-3 EXPLANATION OF COLUMNS.

a. Illustrations. This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source Code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and

second positions of the uniform SMR code format as follows:

| Code | <u>Definition</u> |
|------|---|
| PA | Item procured and stocked for anticipated or known usage. |
| PD | Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfitting. Not subject to automatic replenishment. |
| PF | Support equipment which will not be stocked but which will be centrally procured on demand. |
| MO | Item to be manufactured or fabricated at organizational level. |
| AO | Item to be assembled at organizational level. |
| AF | Item to be assembled at direct support maintenance level. |
| XB | Item is not procured or stocked. If not available through salvage, requisition. |
| XC | Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number. |
| XD | A support item that is not stocked. When required, item will be procured through normal support channels. |

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA and aircraft support items as restricted by AR 70042.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes

are entered in the third and fourth positions of the uniform SMR code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

| <u>Code</u> | <u>Application/Explanation</u> |
|-------------|--|
| O | - Support item is removed, replaced, used at the organizational level. |
| F | - Support item is removed, replaced, used at the direct support level. |

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair; i.e., all authorized maintenance functions. This position will contain one of the following maintenance codes:

| <u>Code</u> | <u>Application/Explanation</u> |
|-------------|--|
| O | - The lowest maintenance level capable of complete repair of the support item is the organizational level. |
| F | - The lowest maintenance level capable of complete repair of the support item is the direct support level. |
| D | - The lowest maintenance level capable of complete repair of the support item is the depot level. |
| Z | - Nonreparable. No repair is authorized. |

(3) *Recoverability Code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the uniform SMR code format as follows:

| <u>Recoverability Code</u> | <u>Definition</u> |
|----------------------------|--|
| Z | - Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3. |
| O | - Reparable item. When uneconomically reparable, condemn and dispose at organizational level. |

| <u>Recoverability Code</u> | <u>Definition</u> |
|----------------------------|---|
| F | - Reparable item. When uneconomically reparable, condemn and dispose at the direct support level. |
| D | - Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level. |

c. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

d. Part Number. 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 a stock numbered item is requisitioned, the item received may have a different part number from the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-41/42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the U/M differs from the unit of issue, the lowest unit of issue that will satisfy the required U/M will be requisitioned.

h. Quantity Incorporated in Unit. 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 in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.).

C-4 HOW TO LOCATE REPAIR PARTS.***a. When National Stock Number or Part Number is unknown:***

(1) *First.* Using the table of contents, determine the functional group or subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or subgroups, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group or subgroup to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number notes on the illustration.

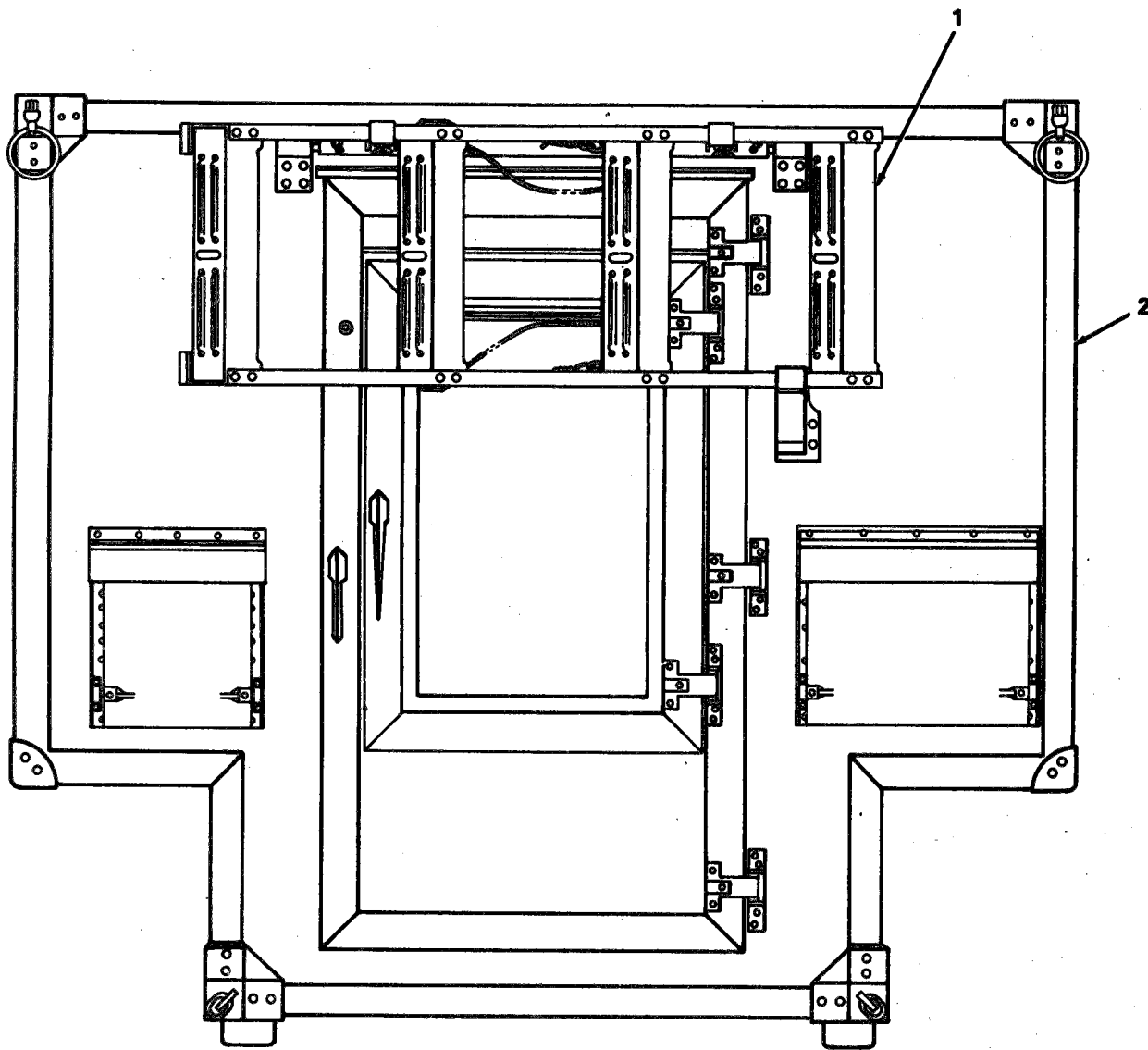
b. When National Stock Number or Part Number is known:

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent NSN or part number. This index is in NIIN sequence, followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

C-5 ABBREVIATIONS. Not applicable.

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EXTERIOR VIEW, REAR OF SHELTER

Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 1 of 6)

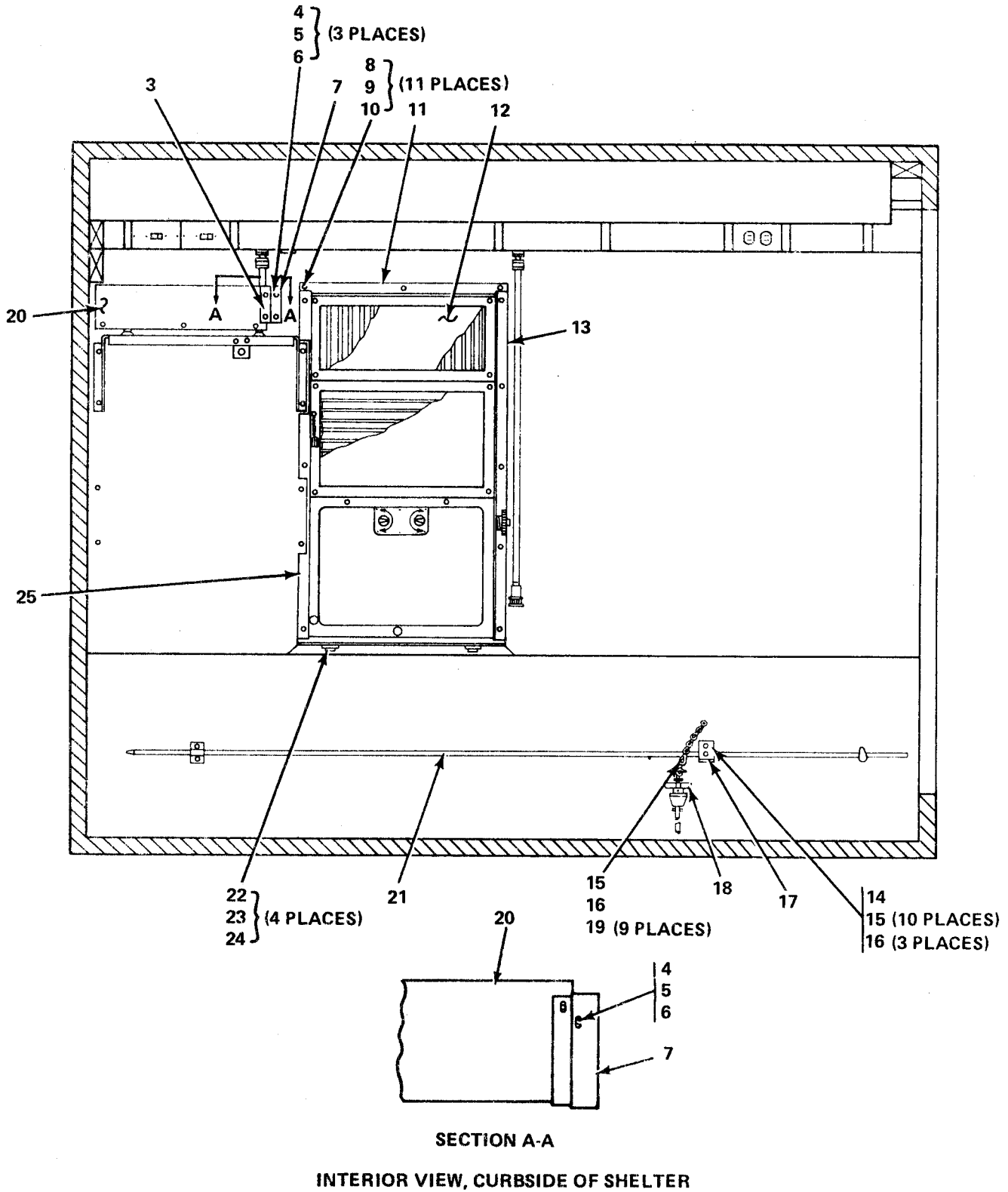
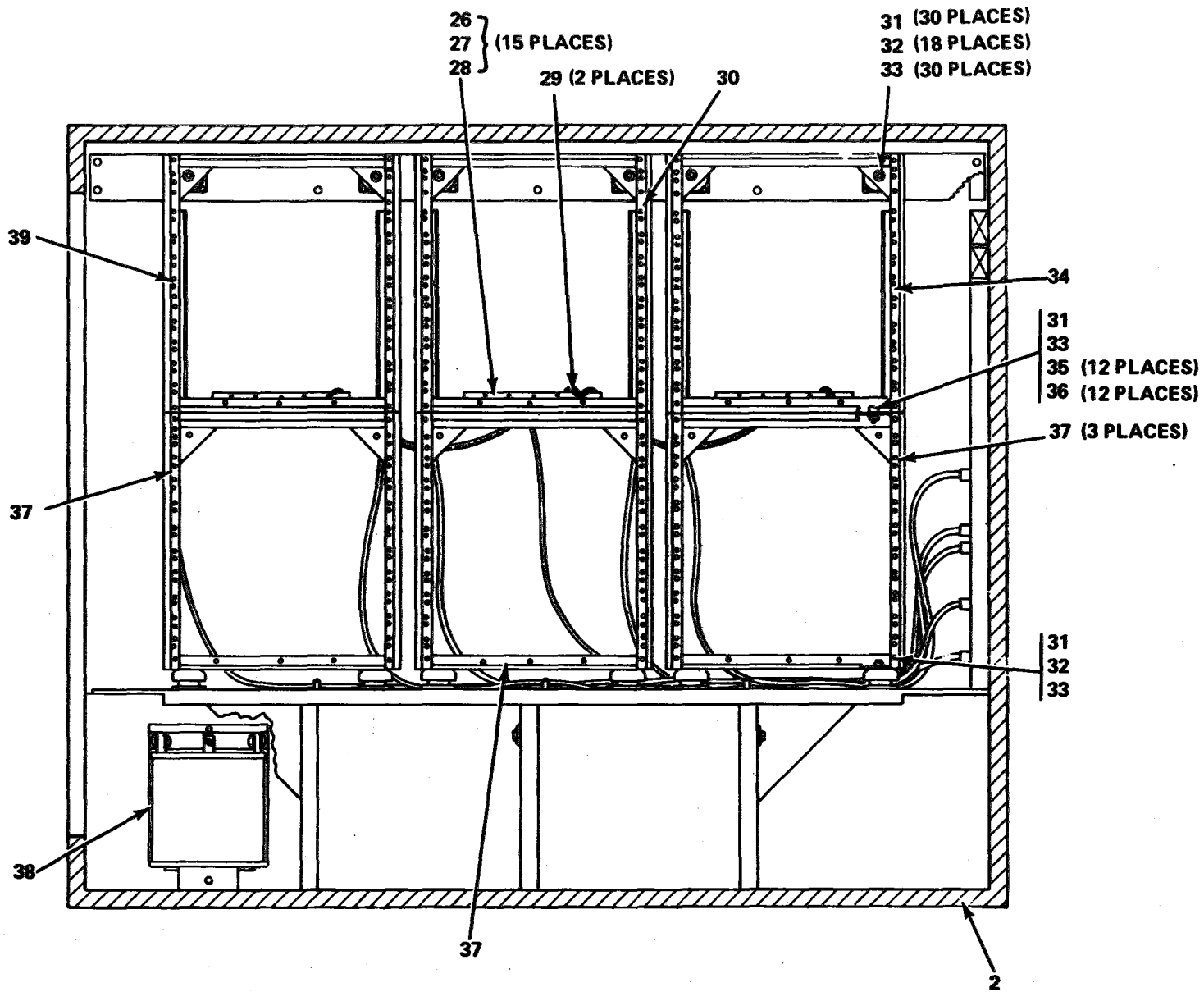
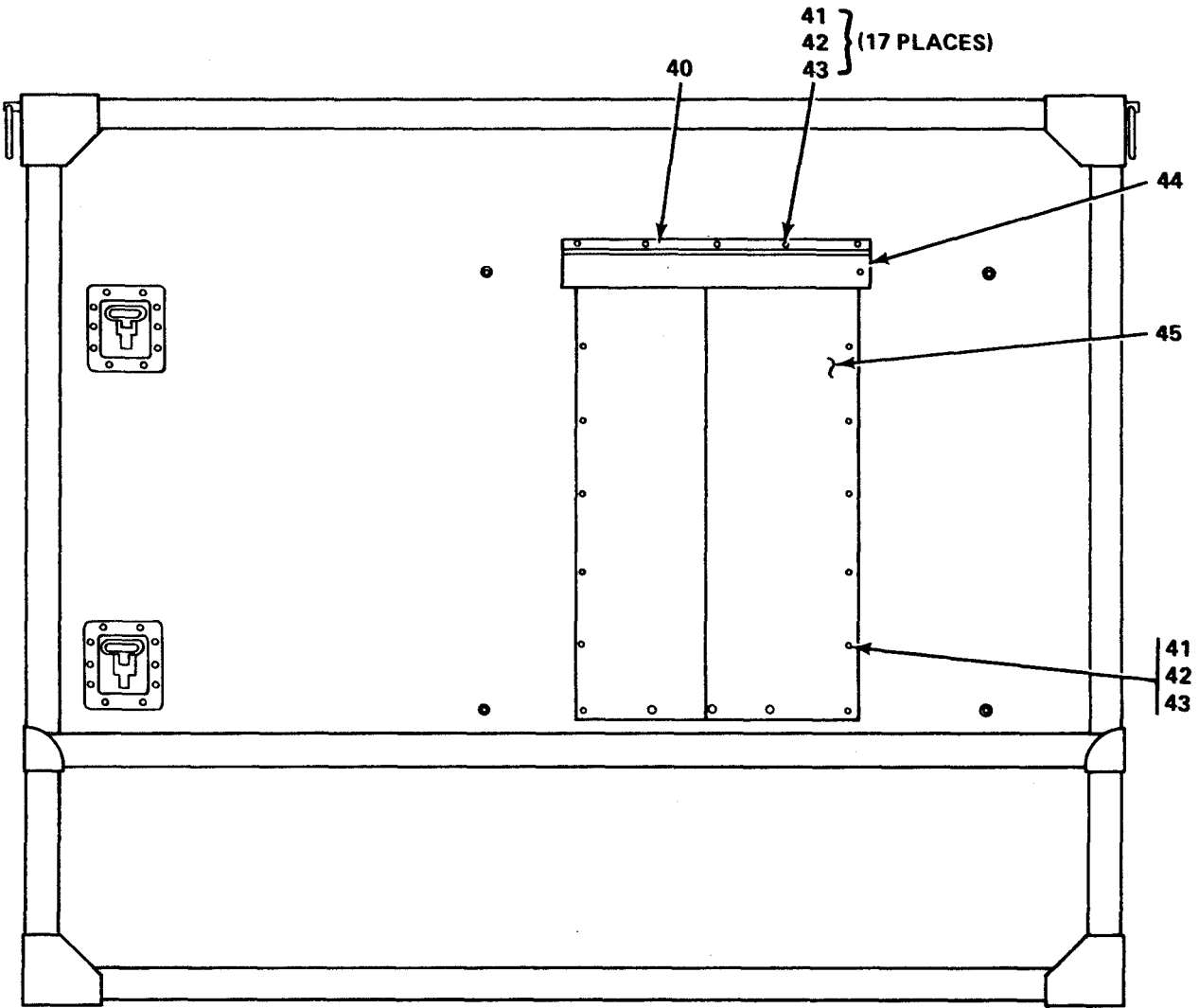


Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 2 of 6)



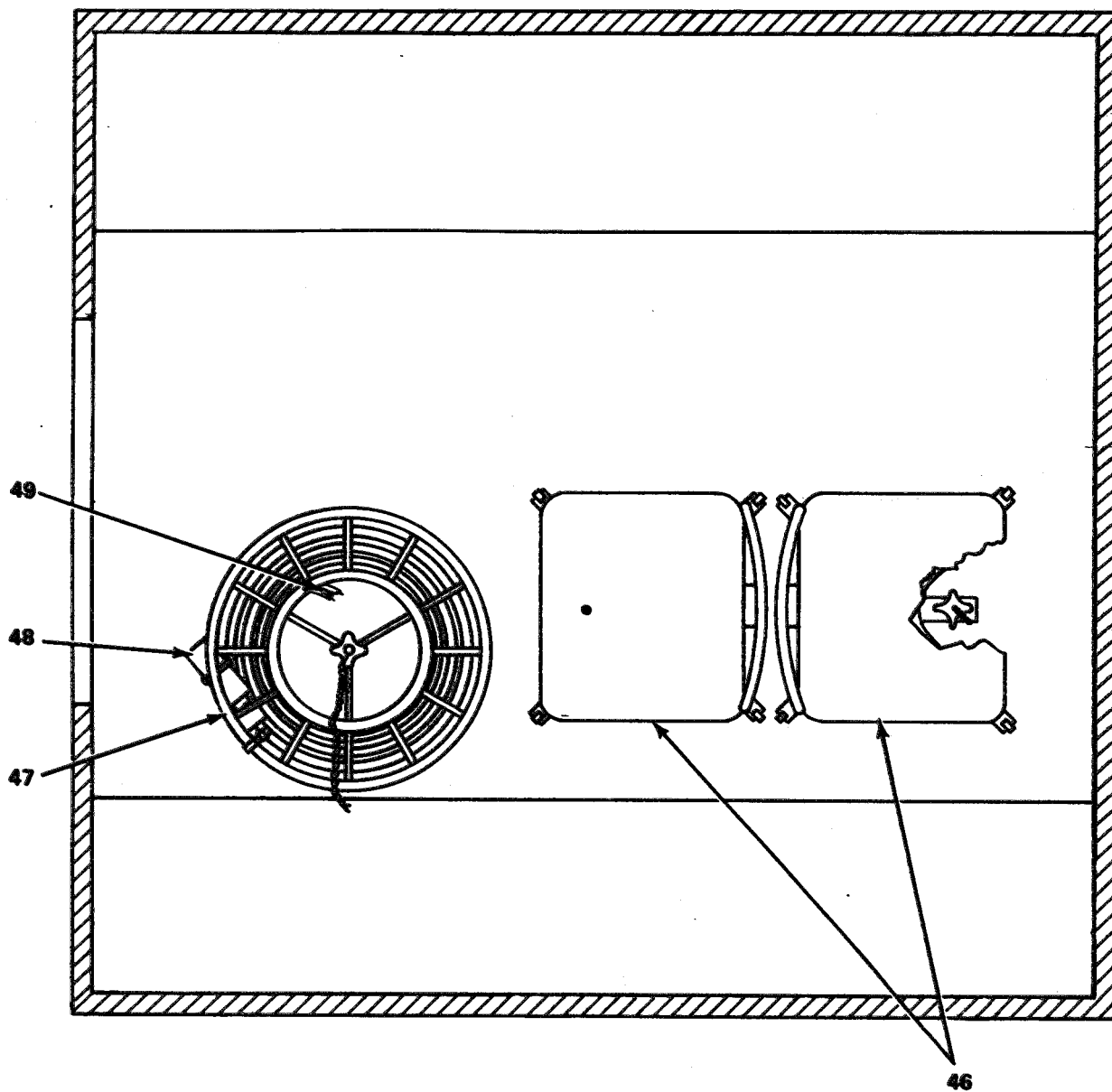
INTERIOR VIEW, ROADSIDE OF SHELTER

Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 3 of 6)



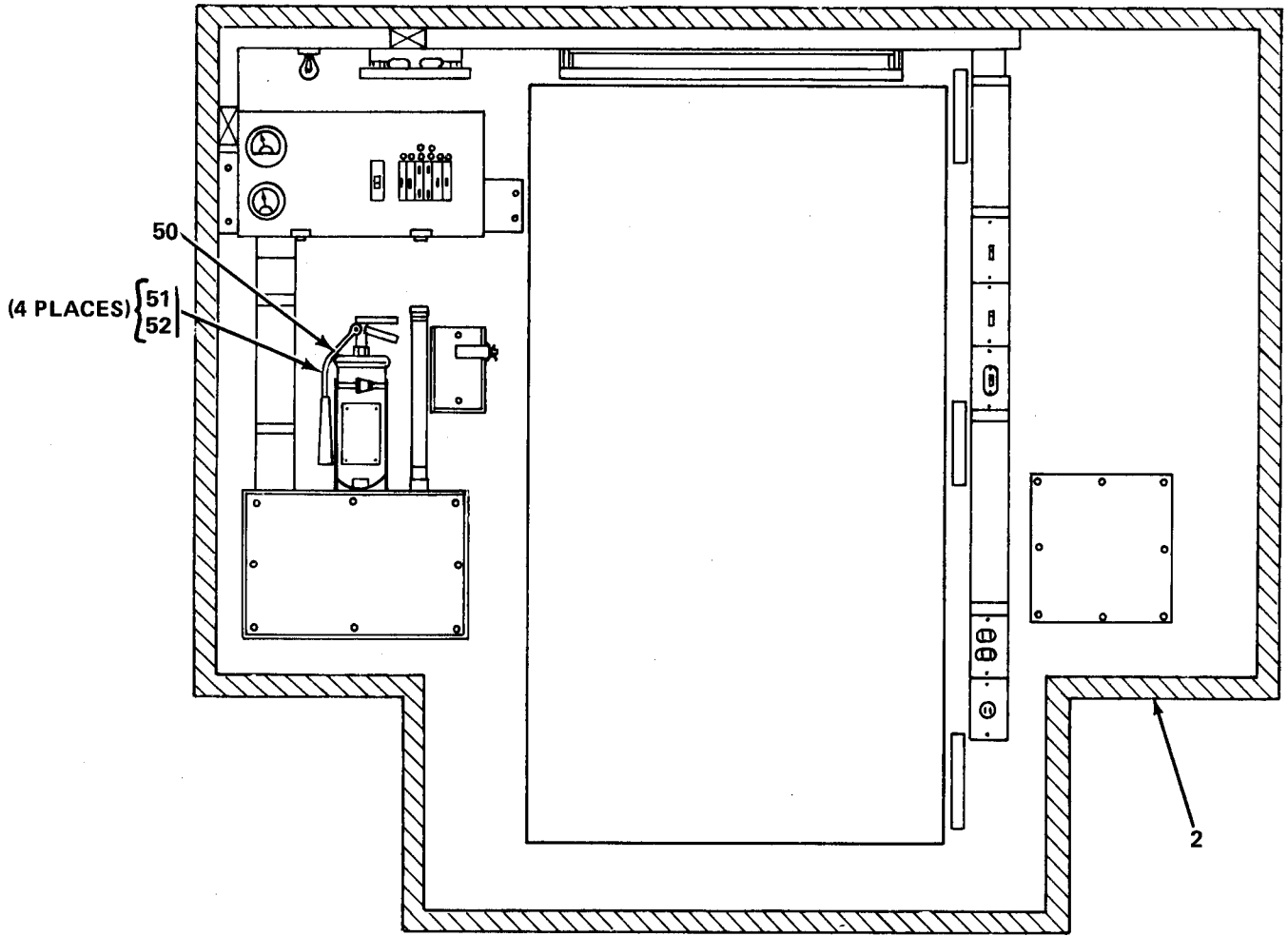
EXTERIOR VIEW, CURBSIDE OF SHELTER

Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 4 of 6)



FLOOR PLAN

Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 5 of 6)



INTERIOR VIEW, REAR OF SHELTER

Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 6 of 6)

SECTION II. REPAIR PARTS LIST

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------|------|-------|------------------|--------------|--|-----|------|
| ILLUSTRATION | | | | | | | |
| (A) | (B) | SMR | NATIONAL | PART | DESCRIPTION | U/M | QTY |
| FIG | ITEM | CODE | STOCK | NUMBER | FSCM | | INC |
| NO. | NO. | | NUMBER | | USABLE ON CODE | | IN |
| | | | | | | | UNIT |
| | | | | | GROUP 00: ELECTRICAL EQUIP- MENT SHELTER S-457 A/G | | |
| C-1 | 1 | PAOOO | 2540-00-741-0187 | SC-DL-147188 | BOARDING LADDER MX-3543/G | EA | 1 |
| C-1 | 2 | XCOOO | | 0188-2-4004 | 15942 BRACKET INSTALLATION (REFER TO FIGURE C-13) | EA | 1 |
| C-1 | 3 | XCOOO | | 0188-2-4016 | 15942 POWER SUPPLY COVER BRACKET | EA | 1 |
| C-1 | 4 | PAOZZ | 5305-00-889-3000 | MS35206-230 | 96906 MACHINE SCREW, PAN HEAD #8-32X 1/2 | EA | 3 |
| C-1 | 5 | PAOZZ | 5310-00-765-3197 | MS27183-41 | 96906 WASHER, FLAT, ROUND, STL #8 | EA | 3 |
| C-1 | 6 | PAOZZ | 5310-00-045-3299 | MS35338-42 | 96906 LOCKWASHER, SPRING STL #8 | EA | 3 |
| C-1 | 7 | XCOOO | | 0188-2-4017 | 15942 POWER SUPPLY END COVER | EA | 1 |
| C-1 | 8 | PAOZZ | 5305-00-993-1848 | MS35207-265 | 96906 MACHINE SCREW, PAN HEAD, CRES, #10-32X3/4 | EA | 11 |
| C-1 | 9 | PAOZZ | 5310-00-045-3296 | MS35338-43 | 96906 LOCKWASHER, SPLIT, STL #10 | EA | 11 |
| C-1 | 10 | PAOZZ | 5310-00-014-5850 | MS27183-42 | 96906 WASHER, FLAT, ROUND, STL#10 | EA | 11 |
| C-1 | 11 | XCFFF | | 0188-2-2084 | 15942 AIR COND ANGLE TRIM (TOP) | EA | 1 |
| C-1 | 12 | PFDD | 4120-00-821-8238 | | 97450 AIR COND, VERTICAL, COMPACT TYPE I, SIZE B, CLASS I | EA | 1 |
| C-1 | 13 | XCFFF | | 0188-2-2081 | 15942 AIR COND ANGLE TRIM (INSIDE) | EA | 1 |
| C-1 | 14 | PAOZZ | 5305-00-059-3661 | MS51958-65 | 96906 MACHINE SCREW, PAN HEAD, CRES, #10-32X3/4 | EA | 1 |
| C-1 | 15 | PAOZZ | 5310-00-933-8120 | MS35338-138 | 96906 LOCKWASHER, SPLIT, CRES, #10 | EA | 10 |
| C-1 | 16 | PAOZZ | 5310-00-883-9384 | MS15795-842 | 96906 WASHER, FLAT, ROUND, CRES, #10 | EA | 3 |
| C-1 | 17 | XCOOO | | 0188-2-2066 | 15942 PLATE ASSEMBLY, GROUND ROD | EA | 1 |
| C-1 | 18 | XCOOO | | 0188-2-2010 | 15942 REEL TIE DOWN ASSEMBLY (REFER TO FIGURE C-27) | EA | 1 |
| C-1 | 19 | PAOZZ | 5305-00-059-3663 | MS51958-67 | 96906 MACHINE SCREW, PAN HEAD, CRES, #10-32X1 | EA | 9 |
| C-1 | 20 | PAOFD | 6130-01-010-3603 | PXS-EE-28VF | 23934 POWER SUPPLY | EA | 1 |

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | TM32-5410-001-24&P (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-----|--------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M | QTY INC IN UNIT |
| C-1 | 21 | XBOZZ | | 9436 | 02273 | GROUND ROD | EA | 1 |
| C-1 | 22 | PAOZZ | 5305-00-455-0315 | MS35307-367 | 96906 | CAPSCREW, CRES, 3/8X2-1/4 | EA | 4 |
| C-1 | 23 | PAOZZ | 5310-00-773-7618 | MS15795-814 | 96906 | WASHER, FLAT, ROUND, CRES, 3/8 | EA | 4 |
| C-1 | 24 | PAOZZ | 5310-00-947-7042 | MS35338-141 | 96906 | LOCKWASHER, SPRING CRES, 3/8 | EA | 4 |
| C-1 | 25 | XCFFF | | 0188-2-3014 | 15942 | AIR COND TRIM STRIP (SIDE) | EA | 1 |
| C-1 | 26 | PAOZZ | 5305-00-206-2511 | MS35215-57 | 96906 | MACHINE SCREW, PAN HEAD, BRASS #10-32X3/4 | EA | 15 |
| C-1 | 27 | PAOZZ | 5310-00-125-6170 | MS15795-942 | 96906 | WASHER, FLAT, BRASS #10 | EA | 15 |
| C-1 | 28 | PAOZZ | 5310-00-261-8278 | MS35338-100 | 96906 | LOCKWASHER, SPRING BRASS #10 | EA | 15 |
| C-1 | 29 | XCOOO | | 0188-2-3122-2 | 15942 | ELECTRICAL LEAD | EA | 2 |
| C-1 | 30 | XCFFF | | 0188-2-4087 | 15942 | RACK ASSEMBLY (REFER TO FIGURE C-3) | EA | 1 |
| C-1 | 31 | PAOZZ | 5310-00-637-9541 | MS35338-46 | 96906 | LOCKWASHER, SPLIT, STL 3/8 | EA | 30 |
| C-1 | 32 | PAOZZ | 5305-00-269-3211 | MS90725-60 | 96906 | SCREW, HEX HEAD, STL 3/8-16X1 | EA | 18 |
| C-1 | 33 | PAOZZ | 5310-00-080-6004 | MS27183-14 | 96906 | WASHER, FLAT, ROUND STL 3/8 | EA | 30 |
| C-1 | 34 | XCFFF | | 0188-2-4069 | 15942 | RACK ASSEMBLY (REFER TO FIGURE C-3) | EA | 1 |
| C-1 | 35 | PAOZZ | 5305-00-269-3212 | MS90725-61 | 96906 | SCREW, HEX HEAD, STL 3/8-16X 1-1/4 | EA | 12 |
| C-1 | 36 | PAOZZ | 5310-00-056-3395 | MS35649-2382 | 96906 | NUT, PLAIN, HEX HEAD, STL 3/8-16 | EA | 12 |
| C-1 | 37 | XCFFF | | 0188-2-4059 | 15942 | RACK WELDMENT | EA | 3 |
| C-1 | 38 | XDOZZ | | 0188-2-4085 | 15942 | WASTEPAPER BASKET | EA | 1 |
| C-1 | 39 | XCFFF | | 0188-2-4088 | 15942 | RACK ASSEMBLY (REFER TO FIGURE C-3) | EA | 1 |
| C-1 | 40 | MOFFF | | 0188-2-3135 | 15942 | RAIN CAP, AIR CONDITIONER | EA | 1 |
| C-1 | 41 | PAOZZ | 5305-00-059-3660 | MS51958-64 | 96906 | MACHINE SCREW, PAN HEAD, CRES, #8-32X5/8 | EA | 17 |
| C-1 | 42 | PAOZZ | 5310-00-933-8119 | MS35338-137 | 96906 | LOCKWASHER, SPLIT, CRES, #8 | EA | 17 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-1 | 43 | PAOZZ | 5310-00-225-5328 | MS15795-841 | 96906 | WASHER, FLAT, ROUND, CRES, #8 | EA 17 |
| C-1 | 44 | MOFFF | | 0188-2-3136 | 15942 | RAIN SHIELD, AIR CONDITIONER | EA 1 |
| C-1 | 45 | XCFDD | | 0188-2-4007 | 15942 | COVER ASSEMBLY, AIR CONDITIONER | EA 1 |
| C-1 | 46 | XDOOO | | 0188-2-4083 | 15942 | ROTARY CHAIR ASSEMBLY (REFER TO FIGURE C-26) | EA 2 |
| C-1 | 47 | PAOOO | 813-00-656-1090 | RC435U | 80058 | CABLE REEL, MIL-R55566 | EA 1 |
| C-1 | 48 | PDOOO | 5995-00-926-7831 | CX7453AU | 80058 | CABLE ASSEMBLY, POWER, 100 FOOT (REFER TO FIGURE C-12A) | EA 1 |
| C-1 | 49 | PDOOO | 5995-00-935-2686 | CX7705AU | 80058 | CABLE ASSEMBLY, POWER, 15 FOOT (REFER TO FIGURE C-12B) | EA 1 |
| C-1 | 50 | PAFZZ | 4210-00-555-8837 | | 81349 | FIRE EXTINGUISHER, 2-3/4 LB. WITH BRACKET (MIL-E-52031C) | EA 1 |
| C-1 | 51 | PAOZZ | 5305-00-068-0502 | MS90725-6 | 96906 | CAPSCREW, HEX, HEAD, STL, 1/4-20X3/4 | EA 4 |
| C-1 | 52 | PAOZZ | 5310-00-809-4058 | MS27183-10 | 96906 | WASHER, FLAT, ROUND, STL, 1/4 | EA 4 |

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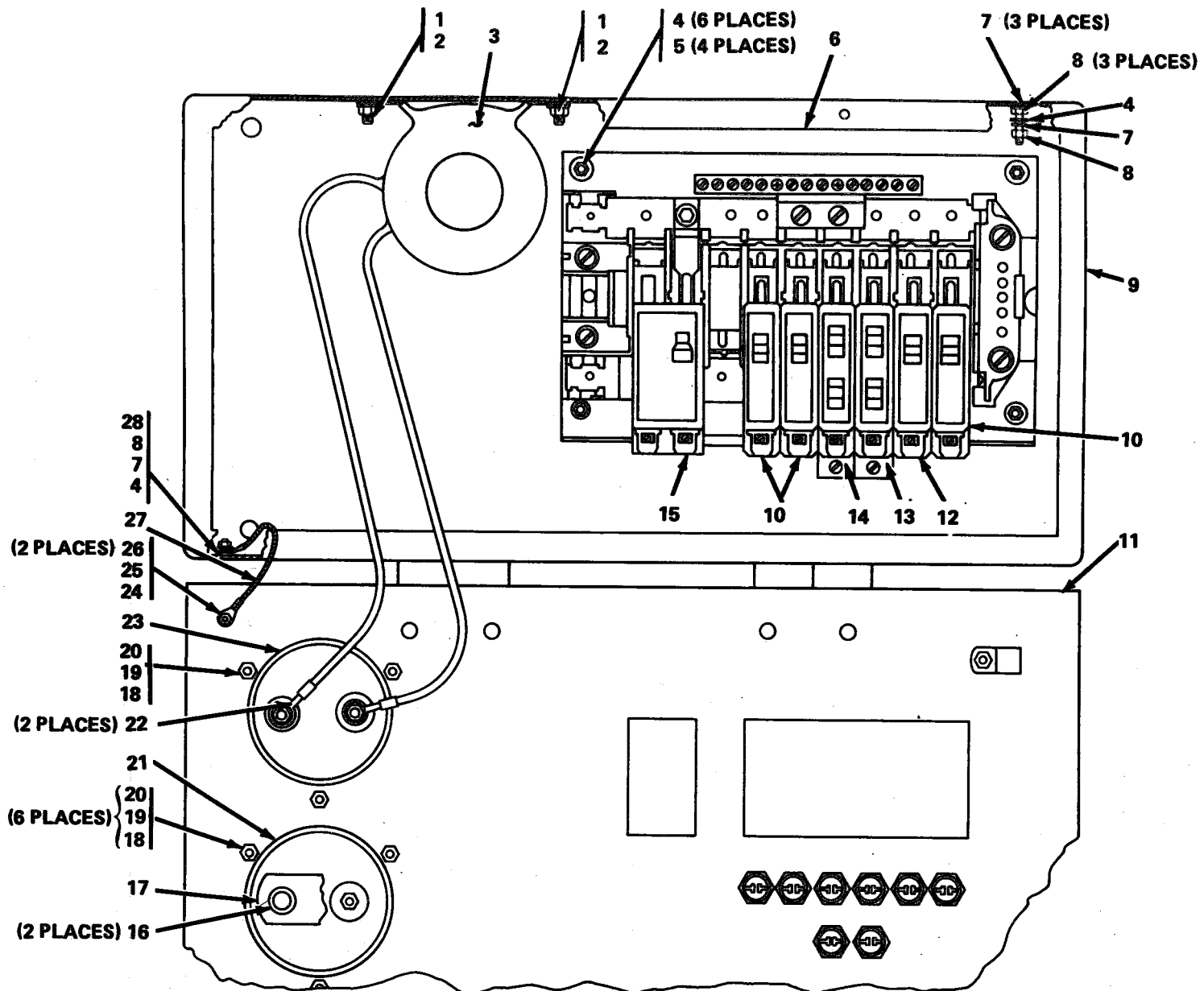


Figure C-2 Power Distribution Box (Sheet 1 of 4)

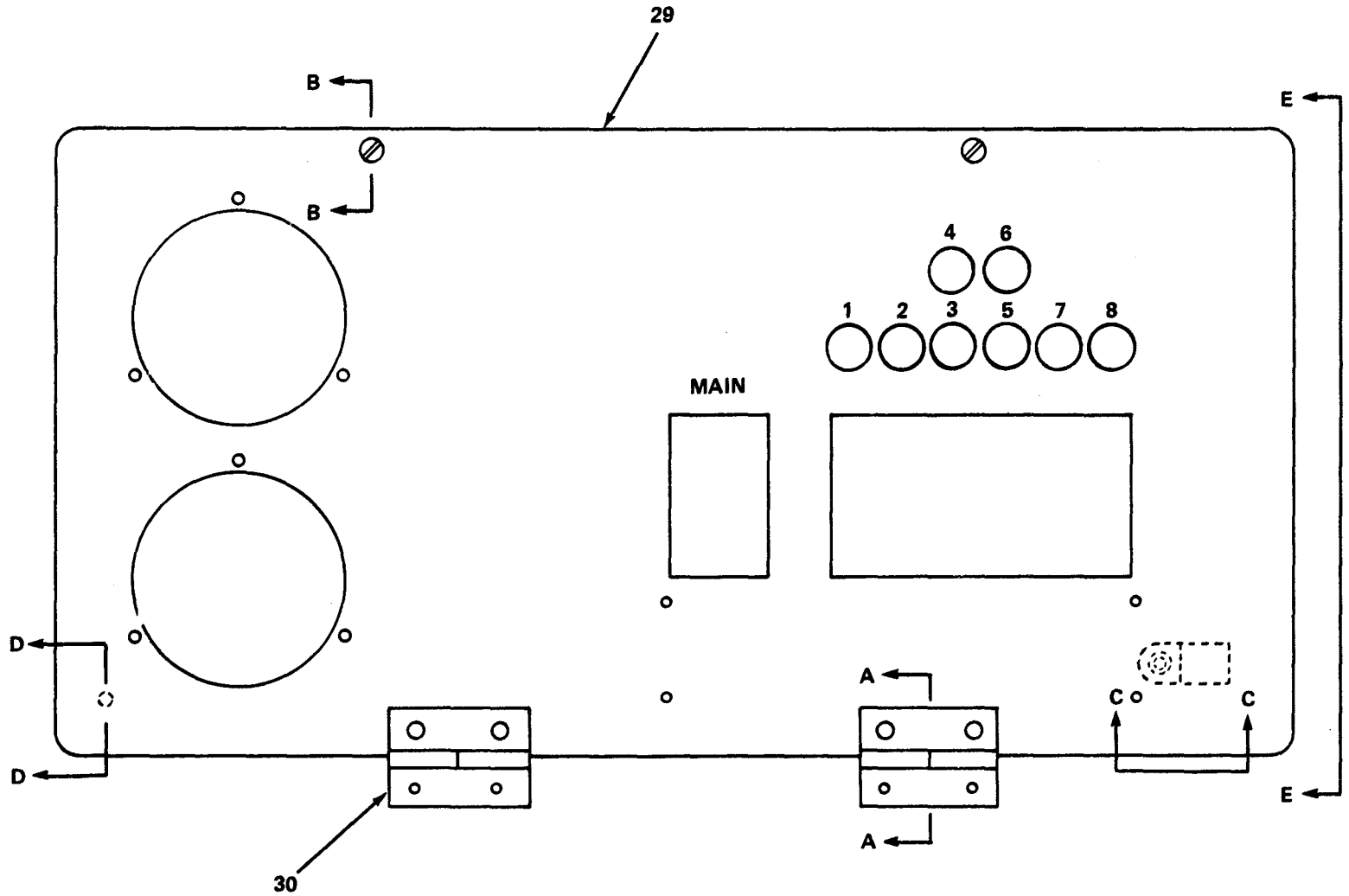
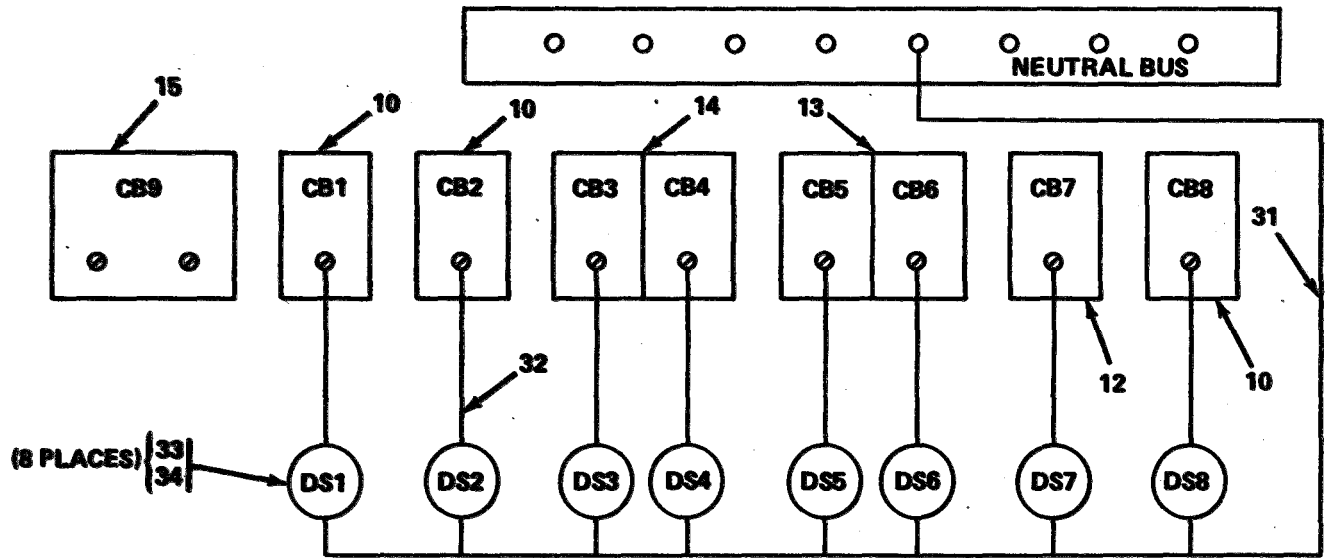


Figure C-2. Power Distribution Box (Sheet 2 of 4)



WIRING DIAGRAM OF DISTRIBUTION BOX

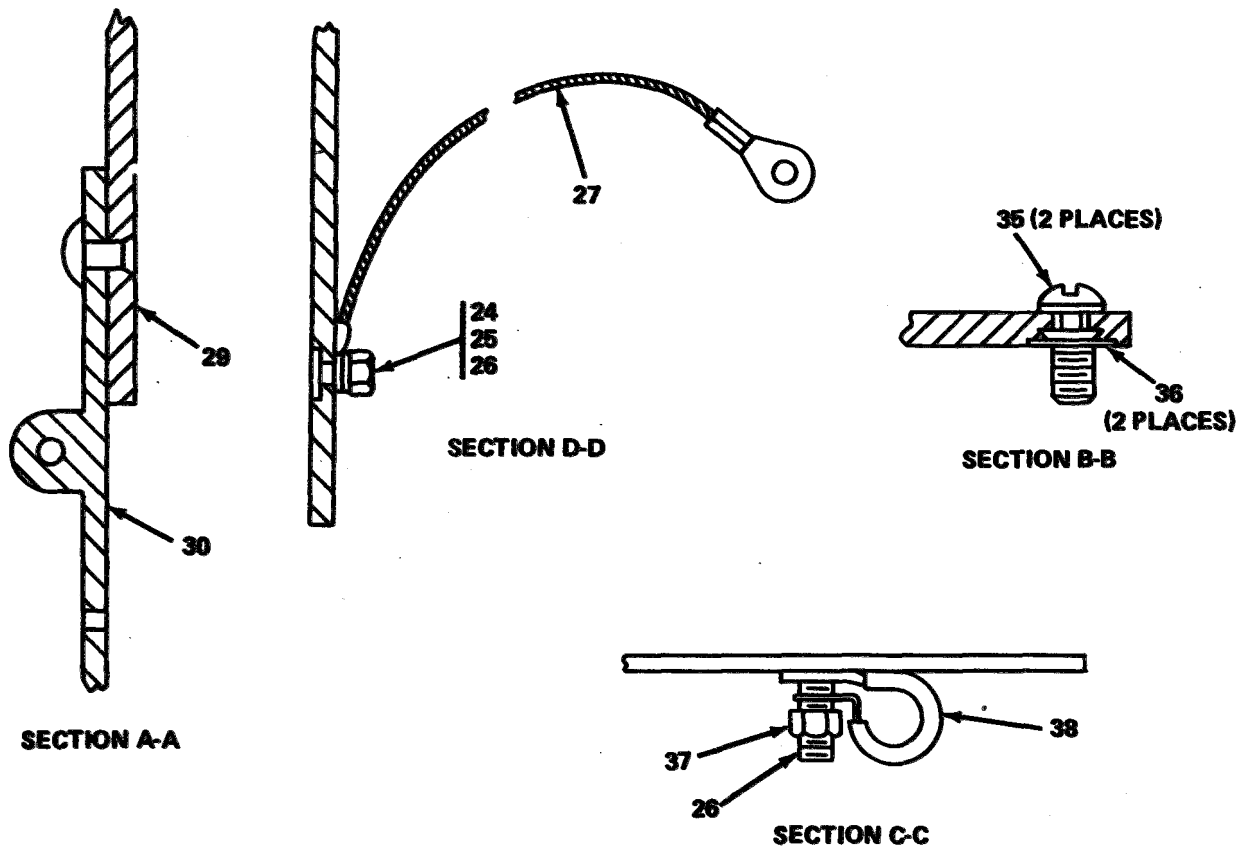


Figure C-2. Power Distribution Box (Sheet 3 of 4)

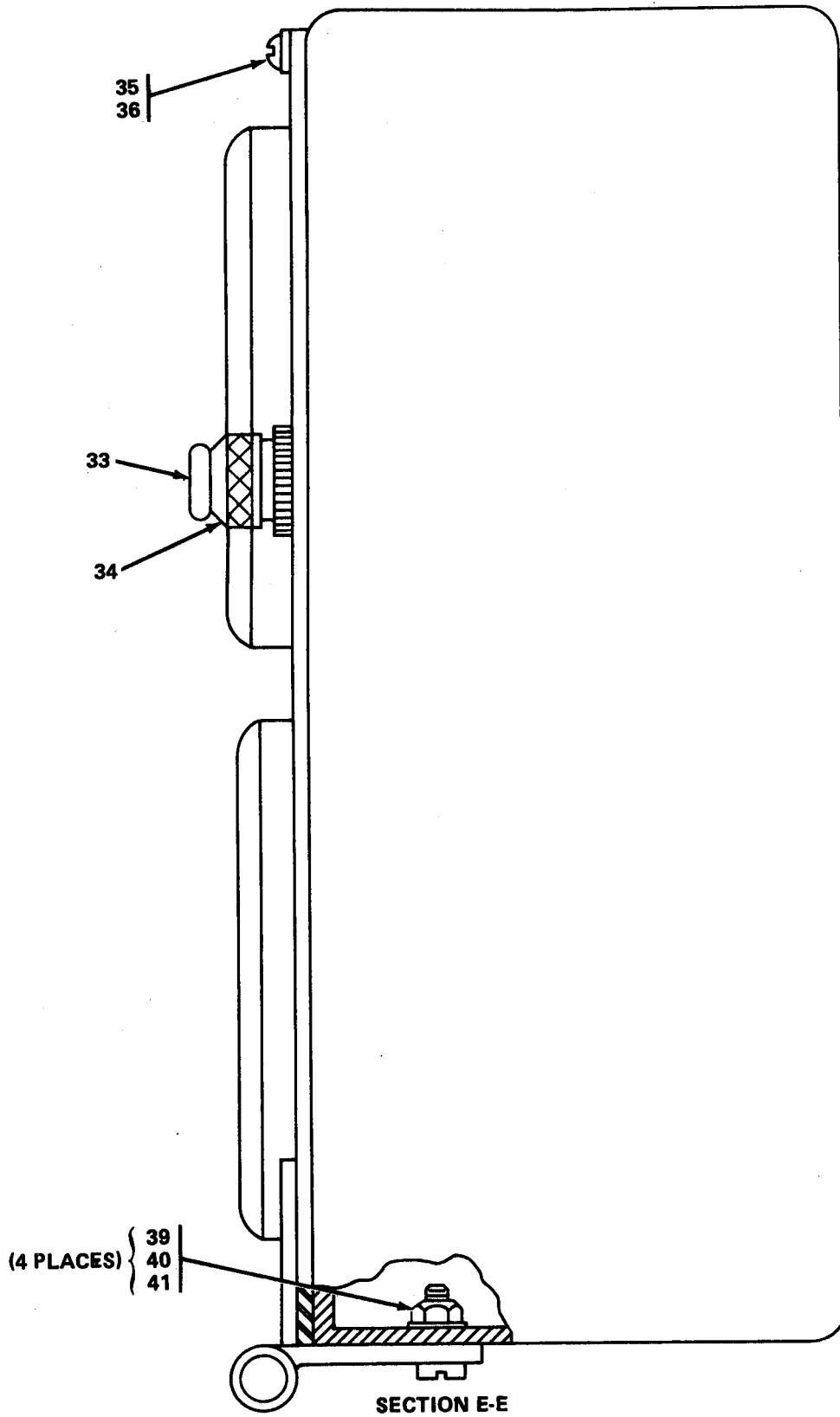


Figure C-2. Power Distribution Box (Sheet 4 of 4)

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | TM32-5410-001-24&P (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|-------------------|-------|---|-----|--------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP: 01 POWER DISTRIBUTION BOX | | |
| C-2 | 1 | PAOZZ | 5310-00-877-5797 | MS21044-N3 | 96906 | NUT, SELF-LOCKING, #10-32 UNC-3B | EA | 2 |
| C-2 | 2 | PAOZZ | 5310-00-014-5850 | MS27183-42 | 96906 | WASHER, FLAT, ROUND #10 | EA | 2 |
| C-2 | 3 | PAOZZ | 5950-00-892-8208 | 3CT11B | 93993 | CURRENT TRANSFORMER | EA | 1 |
| C-2 | 4 | PAOZZ | 5310-00-765-3197 | MS27183-41 | 96906 | WASHER, FLAT, ROUND #8 | EA | 6 |
| C-2 | 5 | PAOZZ | 5310-00-811-3494 | MS21044-NO. 8 | 96906 | NUT, SELF LOCKING, #8-32 UNC-3B | EA | 4 |
| C-2 | 6 | PAOFF | 5925-00-499-1954 | QON-9-6M-SPL | 14280 | LOAD CENTER BASE ASSEMBLY | EA | 1 |
| C-2 | 7 | PAOZZ | 5310-00-045-3299 | MS35338-42 | 96906 | LOCKWASHER, SPLIT #8 | EA | 3 |
| C-2 | 8 | PAOZZ | 5310-00-934-9757 | MS35649-282 | 96906 | MACHINE NUT, HEX, #8-32 UNC-2B | EA | 3 |
| C-2 | 9 | XCOOO | | 0188-2-4031 | 15942 | POWER DISTRIBUTION BOX, MODIFIED | EA | 1 |
| C-2 | 10 | PAOZZ | 5925-01-042-0109 | WC375/01-002 | 81348 | CIRCUIT BREAKER, 15 AMPERE | EA | 3 |
| C-2 | 11 | XCOZZ | | 0188-2-4033 | 15942 | COVER AND HINGE ASSEMBLY | EA | 1 |
| C-2 | 12 | XBOZZ | | WC375/01-003 | 81348 | CIRCUIT BREAKER, 20 AMPERE | EA | 1 |
| C-2 | 13 | XBOZZ | | Q0T2030 | 14280 | CIRCUIT BREAKER, TANDEM, 20 AND 30 AMPERE | EA | 1 |
| C-2 | 14 | XBOZZ | | Q0T2020 | 14280 | CIRCUIT BREAKER, TANDEM, 20 AMPERE | EA | 1 |
| C-2 | 15 | PAOZZ | 5925-01-PAC-2489 | WC375/02-009 | 81348 | CIRCUIT BREAKER, 60 AMPERE | EA | 1 |
| C-2 | 16 | XBOZZ | | 0188-2-2036 | 15942 | INSULATED CAP | EA | 2 |
| C-2 | 17 | XCOZZ | | 0188-2-2035 | 15942 | INSULATOR | EA | 1 |
| C-2 | 18 | PAOZZ | | | | NUT | EA | 6 |
| C-2 | 19 | PAOZZ | | | | WASHER | EA | 6 |
| C-2 | 20 | PAOZZ | | | | SCREW | EA | 6 |
| C-2 | 21 | PAOZZ | 6625-00-193-0636 | MR36W150 ACVVR | 81349 | VOLTMETER | EA | 1 |
| C-2 | 22 | PAOZZ | 5940-00-230-0515 | MS25036-154 | 96906 | TERMINAL LUG | EA | 2 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-2 | 23 | PAOZZ | 6625-00-752-8464 | MR36W100 ACAAR | 81349 | AMMETER | EA 1 |
| C-2 | 24 | PAOZZ | 5310-00-934-9757 | MS35649-282 | 96906 | NUT, PLAIN, HEX HEAD, 8-32UNC | EA 1 |
| C-2 | 25 | PAOZZ | 5310-00-055-9007 | MS35333-38 | 96906 | LOCKWASHER, INTERNAL TOOTH | EA 1 |
| C-2 | 26 | PAOZZ | 5307-00-964-9164 | PH832-8 | 46384 | STUD, SELF CLINCH, 8-32UNC-2A | EA 2 |
| C-2 | 27 | XCOOO | | 0188-2-3044 | 15942 | GROUND STRAP ASSEMBLY (REFER TO FIGURE C-121) | EA 1 |
| C-2 | 28 | PAOZZ | 5310-00-596-7693 | MS35335-31 | 96906 | LOCKWASHER, EXTERNAL TOOTH | EA 1 |
| C-2 | 29 | XCOOO | | 0188-2-4037 | 15942 | COVER | EA 1 |
| C-2 | 30 | XCOZZ | | 0188-2-2033 | 15942 | HINGE, LOOSE JOINT | EA 2 |
| C-2 | 31 | PAOZZ | 6145-00-009-0259 | MW-C-16(26)U9 | 81349 | WIRE, 16 AWG | IN V |
| C-2 | 32 | PAOZZ | 6145-01-066-5541 | MW-C-16(26)U0 | 81349 | WIRE, 16 AWG | IN V |
| C-2 | 33 | PAOZZ | 6240-00-223-9100 | M15098/10-001 | 81349 | LAMP LENS | EA 8 |
| C-2 | 34 | PAOZZ | 6210-01-032-3673 | 37-0408-0335- 245 | 72619 | INDICATOR LIGHT | EA 8 |
| C-2 | 35 | XCOZZ | | 0188-2-2034 | 15942 | SCREW, MODIFIED | EA 2 |
| C-2 | 36 | PAOZZ | 5310-01-081-8534 | M45938/4-8 | 81349 | NUT, PLAIN, CLINCH #8-32UNC | EA 2 |
| C-2 | 37 | PAOZZ | 5310-00-811-3494 | MS21044-NO. 8 | 96906 | NUT, SELF LOCKING, #8-32UNC | EA 1 |
| C-2 | 38 | PAOZZ | 5340-00-435-3104 | MS9351-05 | 96906 | CLAMP, LOOP-CUSHIONED | EA 1 |
| C-2 | 39 | PAOZZ | 5305-00-889-3000 | MS35206-230 | 96906 | MACHINE SCREW, PAN HEAD, #6-32-2AX 1/2 | EA 4 |
| C-2 | 40 | PAOZZ | 5310-00-811-3494 | MS21044-NO. 6 | 96906 | NUT, SELF-LOCKING, #6-32 UNC-3B | EA 4 |
| C-2 | 41 | PAOZZ | 5310-00-082-1404 | MS27183-6 | 96906 | WASHER, FLAT, ROUND #6 | EA 4 |

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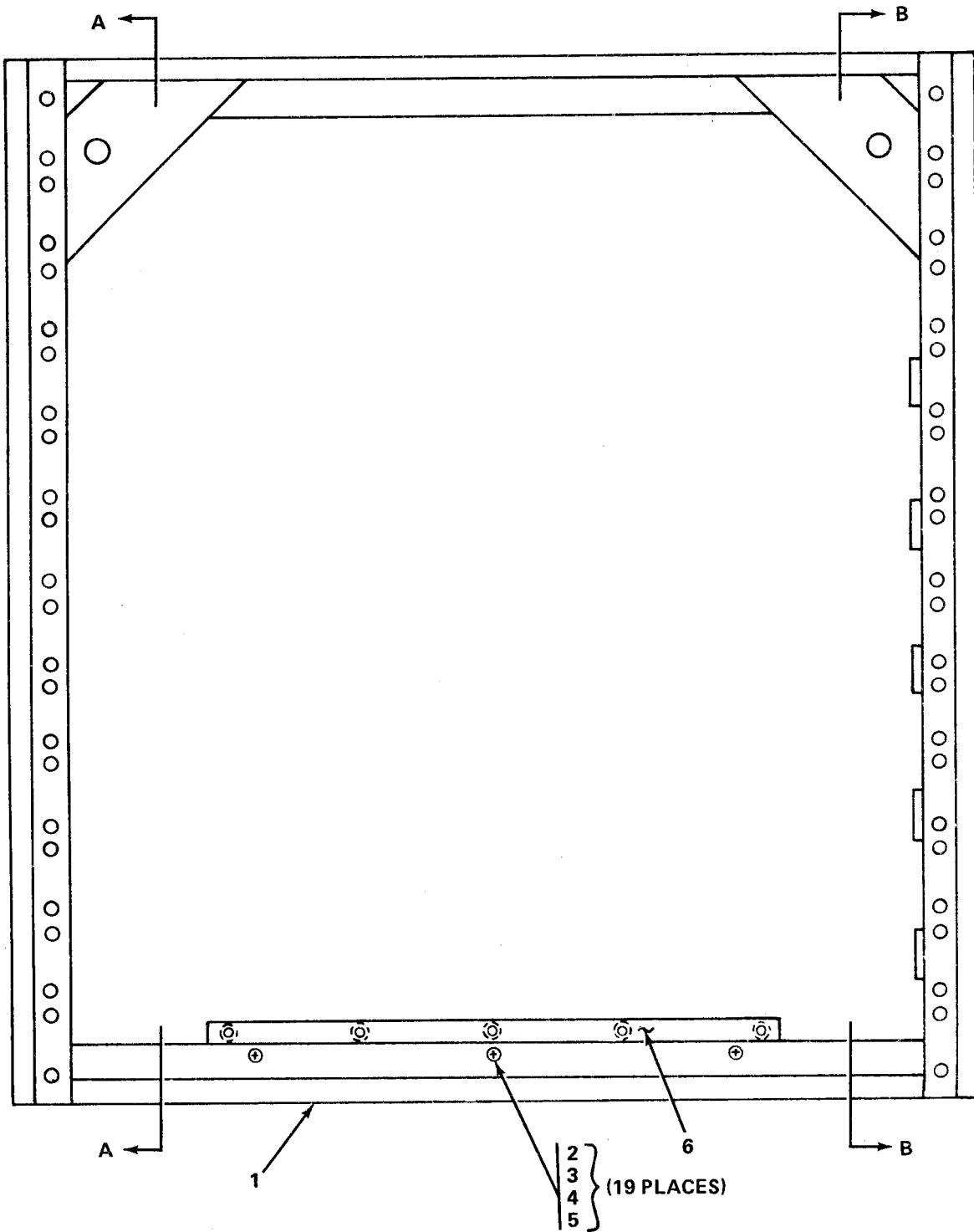


Figure C-3. Rack Assembly (Sheet 1 of 3)

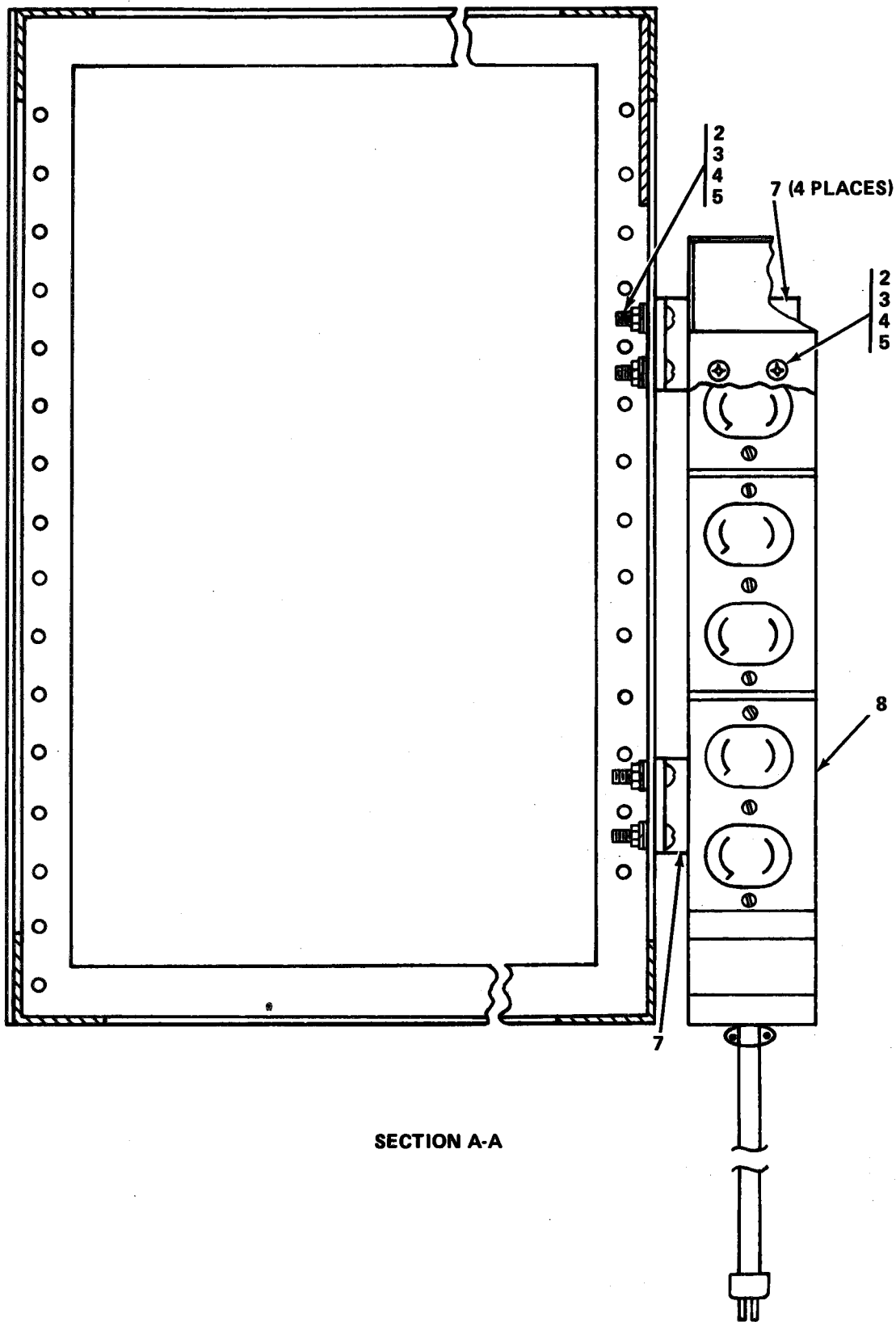


Figure C-3. Rack Assembly (Sheet 2 of 3)

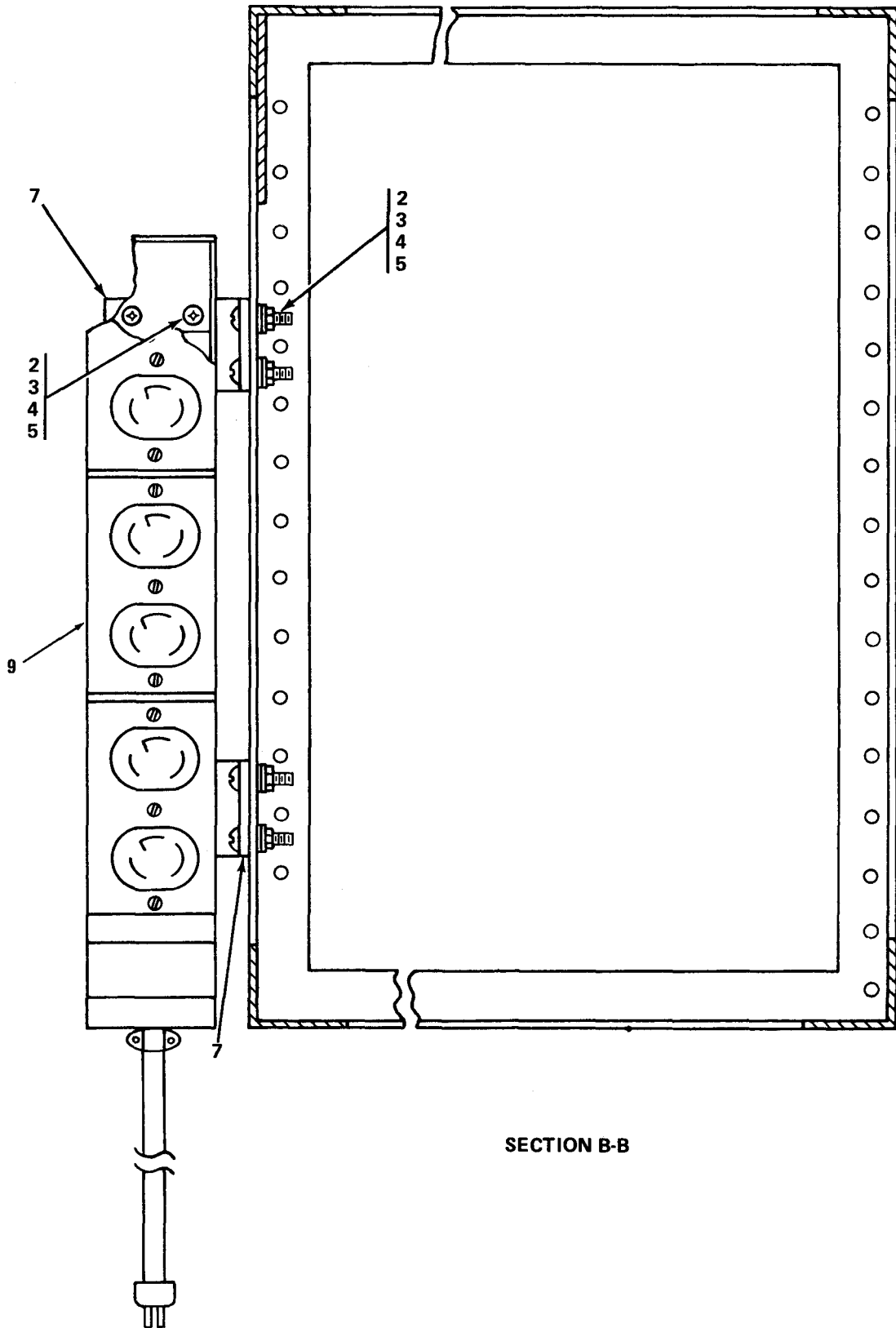


Figure C-3. Rack Assembly (Sheet 3 of 3)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-------------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| GROUP: 02 RACK ASSEMBLY | | | | | | | |
| C-3 | 1 | XCFFF | | 0188-2-4059 | 15942 | RACK WELDMENT | EA 1 |
| C-3 | 2 | PAFZZ | 5305-00-993-1848 | MS35207-265 | 96906 | MACHINE SCREW, PAN HEAD, CRES, #10-32UNCX 3/4 | EA 19 |
| C-3 | 3 | PAFZZ | 5310-00-014-5850 | MS27183-42 | 96906 | WASHER, FLAT, ROUND, STL #10 | EA 19 |
| C-3 | 4 | PAFZZ | 5310-00-045-3296 | MS35338-43 | 96906 | WASHER, SPLIT, STL, #10 | EA 19 |
| C-3 | 5 | PAFZZ | 5310-00-934-9751 | MS35650-302 | 96906 | NUT, PLAIN, HEX HEAD, #10-32 UNC-2B | EA 19 |
| C-3 | 6 | XCOOO | | 0188-2-3119 | 15942 | TERMINAL STRIP, GROUNDING | EA 1 |
| C-3 | 7 | XCFFF | | 0188-2-2078 | 15942 | MOUNTING BRACKET, RACEWAY TO RACK | EA 4 |
| C-3 | 8 | XCOOO | | 0188-2-4072 | 15942 | DC ELECTRICAL CONNECTOR (REFER TO FIGURE C-4) | EA 1 |
| C-3 | 9 | XCOOO | | 0188-2-4073 | 15942 | AC ELECTRICAL CONNECTOR (REFER TO FIGURE C-5) | EA 1 |

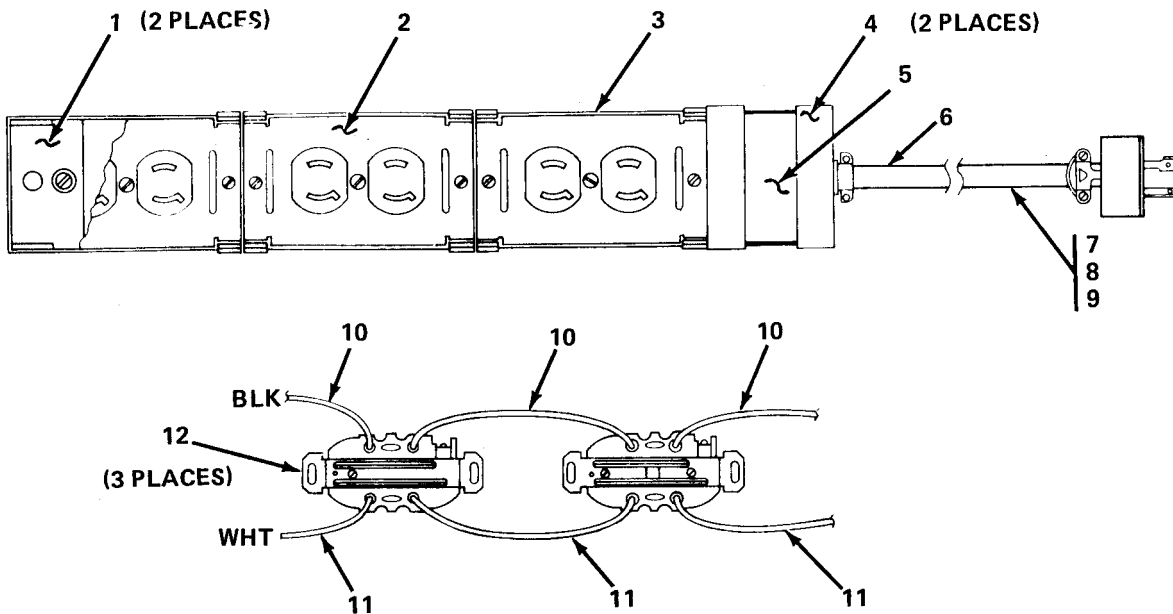


Figure C-4. DC Electrical Connector

| (1) ILLUSTRATION (a) FIG NO. | (b) ITEM NO. | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) PART NUMBER | (5) FSCM | (6) DESCRIPTION <i>Usable On Code</i> | (7) U/M | (8) QTY IN INIT |
|---------------------------------------|-----------------|-----------------|------------------------------|--------------------|-------------|---|------------|--------------------|
| | | | | | | | | |
| C-4 | 2 | XCOZZ | | 0188-2-3091-1 | 15942 | RECEPTACLE COVER | EA | 3 |
| C-4 | 3 | PAOZZ | 975-00-610-5875 | 3000B | 79725 | RACEWAY BASE | EA | 1 |
| C-4 | 4 | XCOZZ | | 0188-2-2060 | 15942 | COVER CLIP | EA | 2 |
| C-4 | 5 | XCOZZ | | 0188-2-3102 | 15942 | RACEWAY COVER | EA | 1 |
| C-4 | 6 | PAOZZ | 975-00-152-1144 | 3302 | 59730 | TWO-SCREW CONNECTOR | EA | 1 |
| C-4 | 7 | XCOOK | | 0188 -2-4075-1 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12L) | EA | 1 |
| C-4 | 8 | XCOOK | | 0188-2-4075-2 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12L) | EA | 1 |
| C-4 | 9 | XCOOK | | 0188-2 -4075-3 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12L) | EA | 1 |
| C-4 | 10 | PAOZZ | 145-00-643-1 328 | MW-C- 14(4 1)UC | 81349 | ELECTRICAL HOOKUP WIRE, BLACK, 14 AWG | IN | V |
| C-4 | 11 | PAOZZ | 145-00-806-9140 | MW-C- 14(41) US | 81349 | ELECTRICAL HOOKUP WIRE, WHITE, 14RWG | IN | V |
| C-4 | 12 | XCOZZ | | NPN | 15942 | RECEPTACLE, TWIST LOCK, STYLE B5 | EA | 3 |

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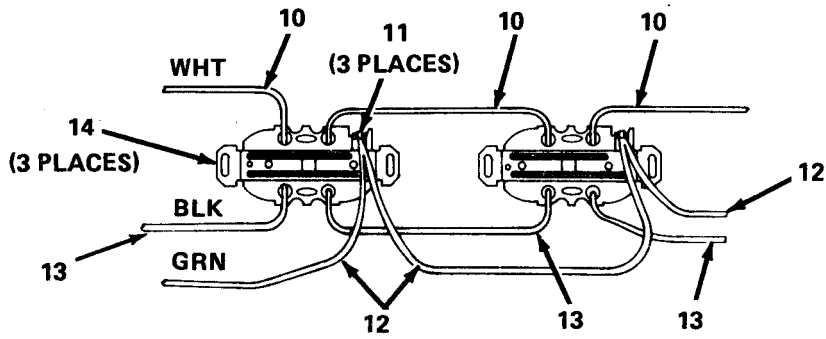
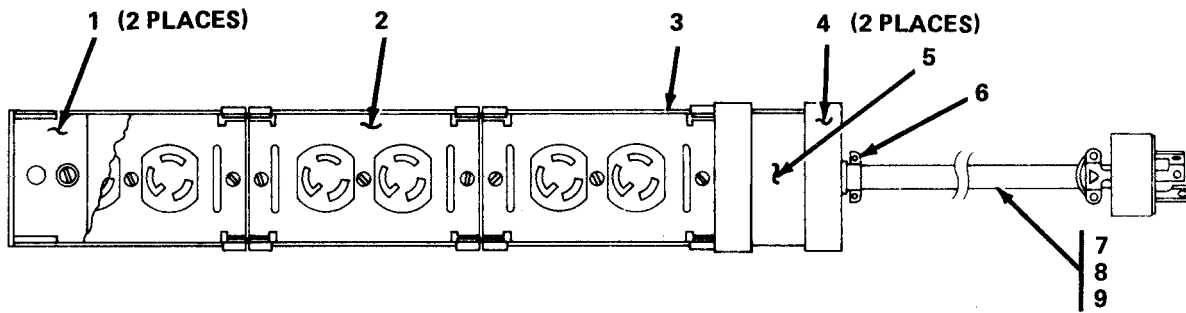
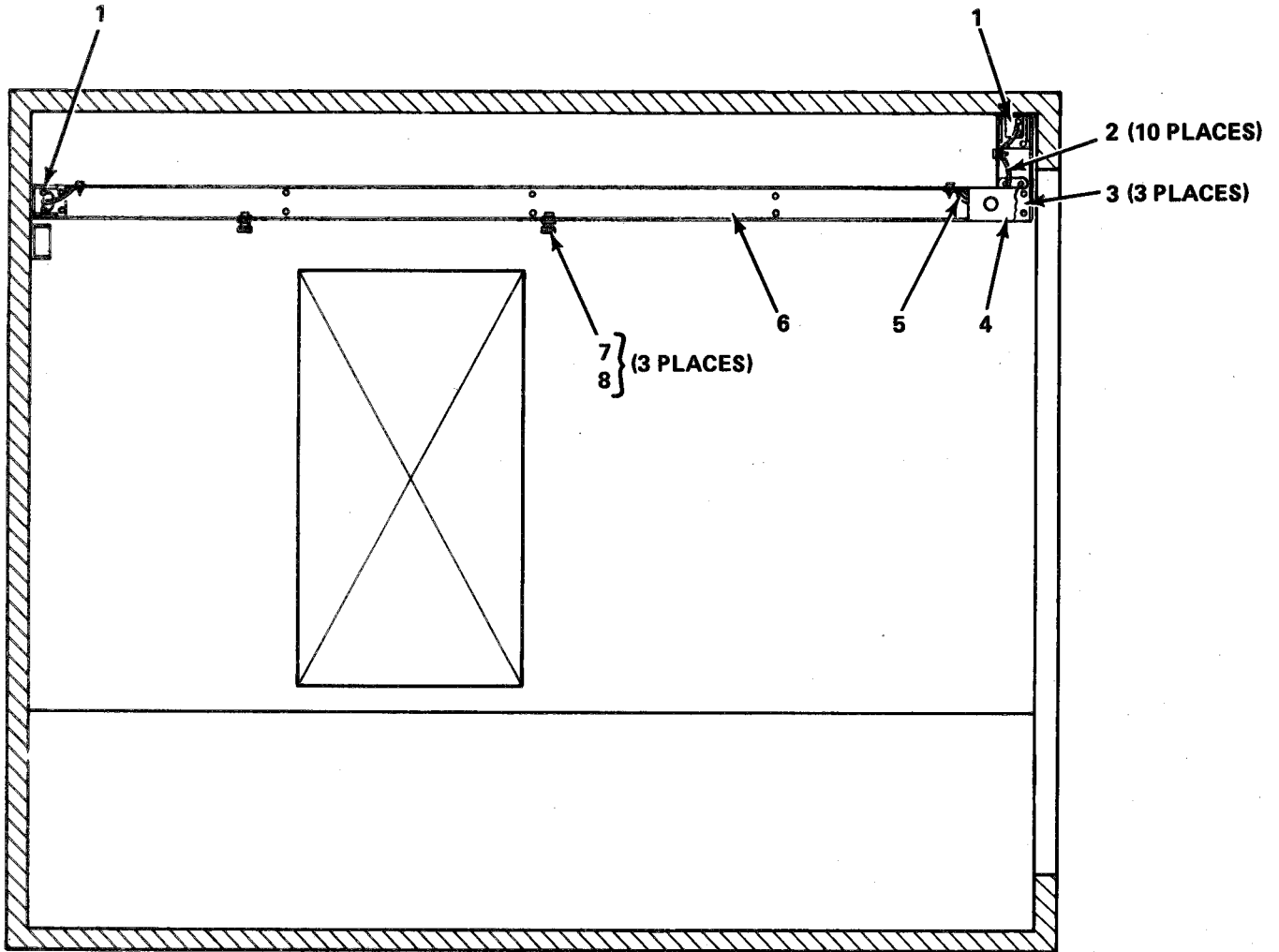


Figure C-5. AC Electrical Connector

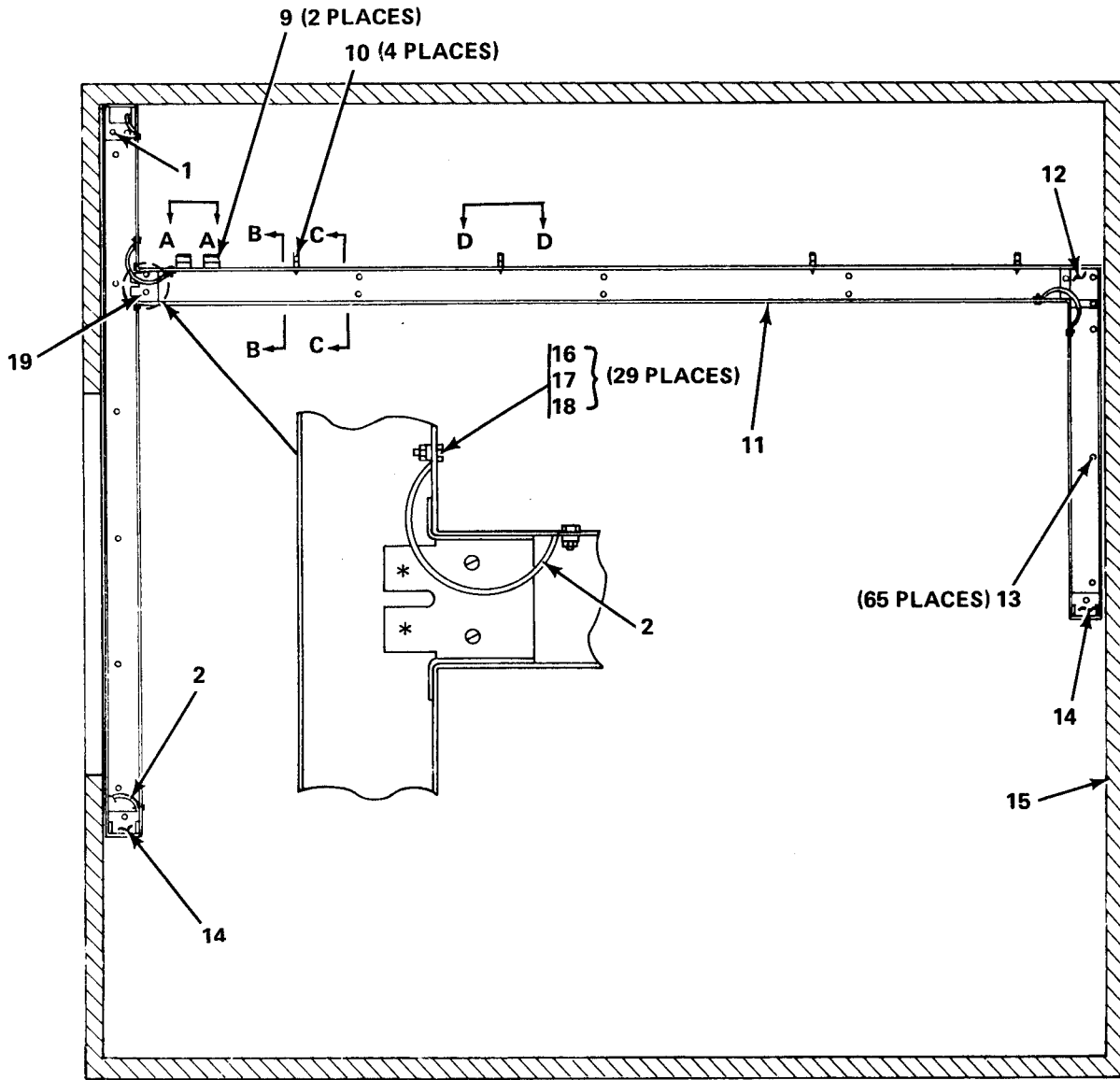
| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--|--------------------|-------------|-----------------------------|----------------|-------|---|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| USABLE ON CODE | | | | | | | |
| GROUP: 0202 AC ELECTRICAL CONNECTOR | | | | | | | |
| C-5 | 1 | XCOZZ | | 0188-2-3013 | 15942 | BLANK END FITTING | EA 2 |
| C-5 | 2 | XCOZZ | | 0188-2-3091-1 | 15942 | RECEPTACLE COVER | EA 3 |
| C-5 | 3 | PAOZZ | 5975-00-610-5875 | 3000B | 79725 | RACEWAY BASE | EA 1 |
| C-5 | 4 | XCOZZ | | 0188-2-2060 | 15942 | COVER CLIP | EA 2 |
| C-5 | 5 | PAOZZ | 5975-00-650-0575 | 3000C | 79725 | RACEWAY COVER | EA 1 |
| C-5 | 6 | PAOZZ | 5975-00-152-1144 | 3302 | 59730 | TWO-SCREW CONNECTOR | EA 1 |
| C-5 | 7 | XCOZZ | | 0188-2-4071-1 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12K) | EA 1 |
| C-5 | 8 | XCOOO | | 0188-2-4071-2 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12K) | EA 1 |
| C-5 | 9 | XCOOO | | 0188-2-4071-3 | 15942 | CABLE ASSEMBLY (REFER TO FIGURE C-12K) | EA 1 |
| C-5 | 10 | PAOZZ | 6145-00-806-9140 | MW-C-14(41)U9 | 81349 | ELECTRICAL HOOKUP WIRE, WHITE, 14 AWG | IN V |
| C-5 | 11 | XBOZZ | | 325150 | 00779 | TERMINAL LUG, SLOTTED TONGUE | EA 3 |
| C-5 | 12 | XBOZZ | | MW-C-14(41)U5 | 81349 | ELECTRICAL HOOKUP WIRE, GREEN, 14 AWG | IN V |
| C-5 | 13 | PAOZZ | 6149-00-643-1328 | MW-C-14(41)U0 | 81349 | ELECTRICAL HOOKUP WIRE, BLACK, 14 AWG | IN V |
| C-5 | 14 | PAOZZ | 5935-00-847-7631 | 4700 | 74545 | RECEPTACLE, DUPLEX, TWIST LOCK, 3-WIRE | EA 3 |

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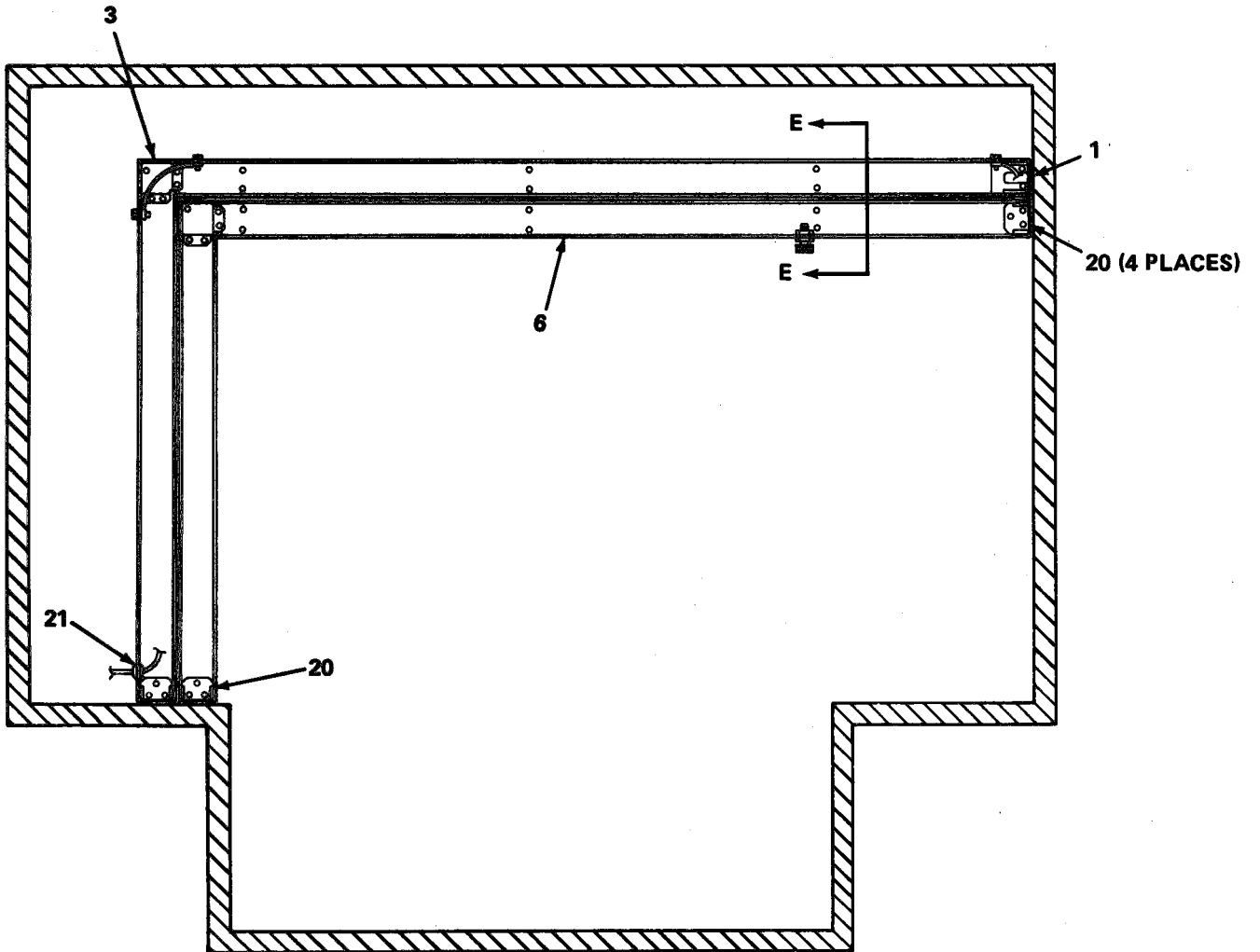
INTERIOR VIEW, CURBSIDE OF SHELTER

Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 1 of 6)



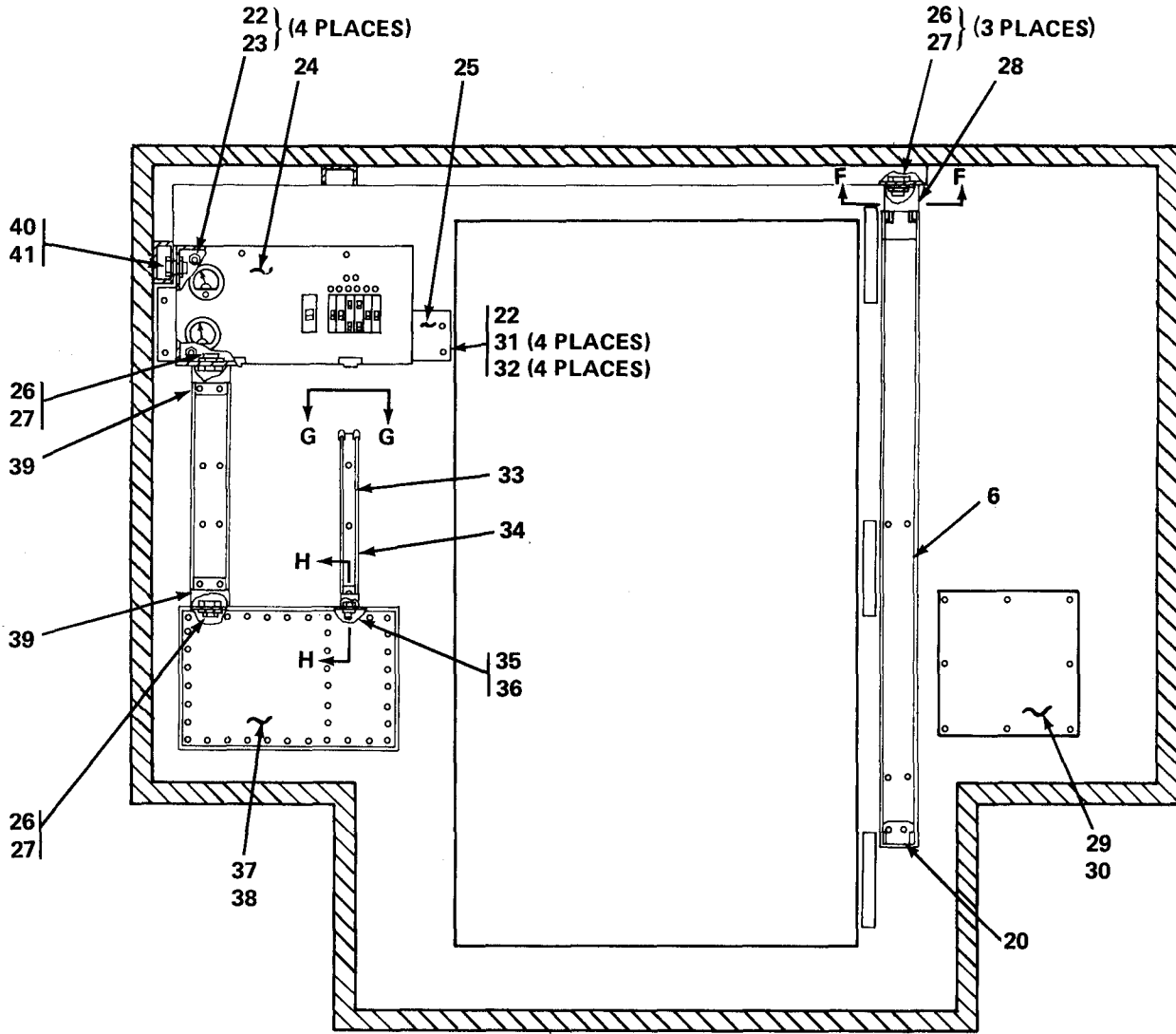
INTERIOR VIEW, CEILING OF SHELTER

Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 2 of 6)



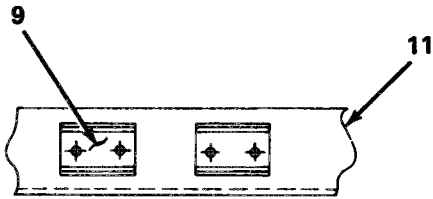
INTERIOR VIEW, FRONT OF SHELTER

Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 3 of 6)

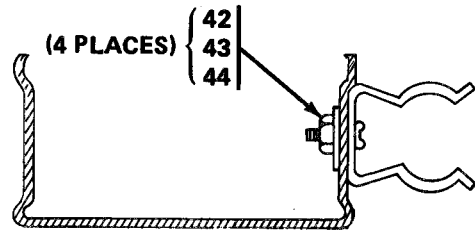


INTERIOR VIEW, REAR OF SHELTER

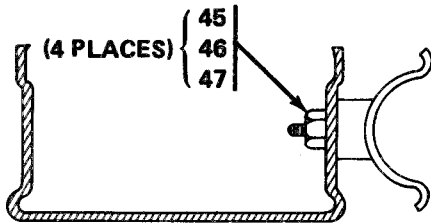
Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 4 of 6)



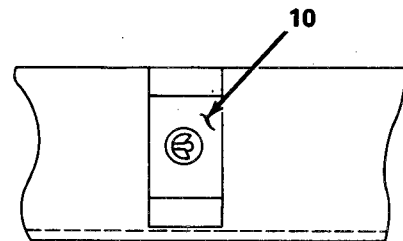
VIEW A-A
ROTATED 180 DEGREES CW



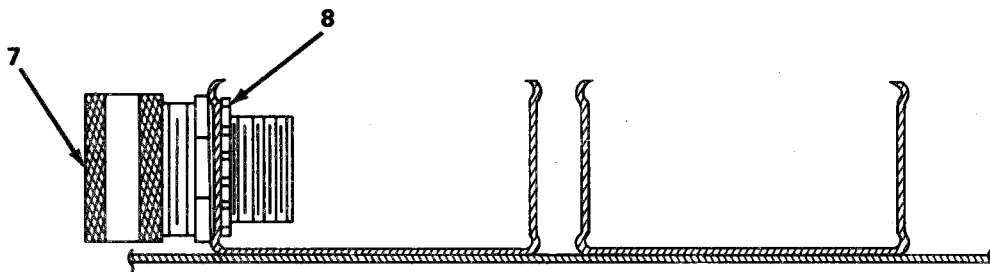
VIEW B-B
ROTATED 90 DEGREES CCW



VIEW C-C
ROTATED 90 DEGREES CCW

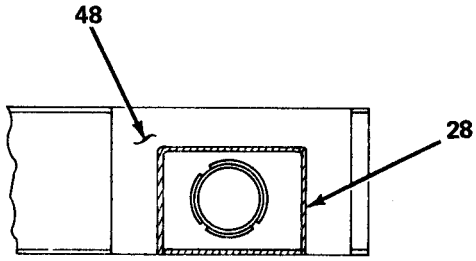


VIEW D-D
ROTATED 180 DEGREES CW

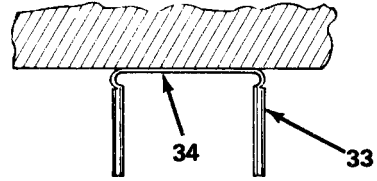


VIEW E-E
ROTATED 90 DEGREES CCW

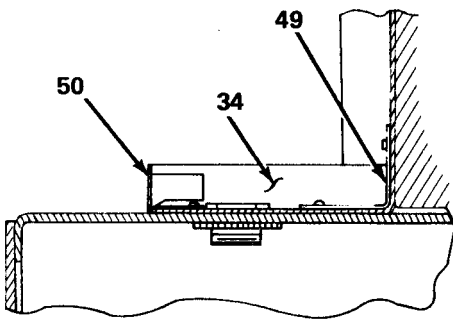
Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 5 of 6)



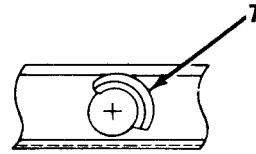
VIEW F-F



VIEW G-G



VIEW H-H



VIEW J-J

Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 6 of 6)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--|--------------------|-------------|-----------------------------|----------------|-------|------------------------------------|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| GROUP: 04 UTILITIES INSTALLATION RACEWAY | | | | | | | |
| C-6 | 1 | XCOZZ | | 0188-2-3026-2 | 15942 | INTERIOR CORNER COUPLING AND COVER | EA 2 |
| C-6 | 2 | XCOZZ | | 0188-2-2025-1 | 15942 | WIRE ASSEMBLY | EA 10 |
| C-6 | 3 | XCOZZ | | 0188-2-3008-3 | 15942 | 90 DEGREE FLAT ELBOW (GREEN) | EA 3 |
| C-6 | 4 | XCOZZ | | 0188-2-3132-1 | 15942 | RACEWAY COVER | EA 1 |
| C-6 | 5 | XCOZZ | | 0188-2-2025-2 | 15942 | WIRE ASSEMBLY | IN V |
| C-6 | 6 | XBOZZ | | 0188-2-3040-1 | 15942 | RACEWAY BASE (GREEN) | FT V |
| C-6 | 7 | PAOZZ | 5935-00-947-6176 | CG5050 | 03743 | CABLE CONNECTOR, WATER-TIGHT | EA 3 |
| C-6 | 8 | PAOZZ | 5975-00-642-7261 | 142 | 59730 | LOCKNUT, 3/4 | EA 3 |
| C-6 | 9 | PAOZZ | 5340-00-616-4982 | 100-200-12-4 | 99378 | STARTER CLIP | EA 2 |
| C-6 | 10 | PAOZZ | 5340-00-774-7182 | C3 | 06229 | CRADLE | EA 4 |
| C-6 | 11 | XCOZZ | | 0188-2-3040-2 | 15942 | RACEWAY BASE (WHITE) | FT V |
| C-6 | 12 | XCOZZ | | 0188-2-3008-4 | 15942 | 90 DEGREE FLAT ELBOW (WHITE) | EA 1 |
| C-6 | 13 | PAOZZ | 5320-00-426-4916 | 1601-0613 | 19738 | RIVET, DOMED HEAD, 3/16 IN | EA 65 |
| C-6 | 14 | XCOZZ | | 0188-2-3013-3 | 15942 | BLANK END FITTING (WHITE) | EA 2 |
| C-6 | 15 | AOFFD | | 0188-2-4001 | 15942 | SHELTER, MODIFIED | EA 1 |
| C-6 | 16 | PFOZZ | 5310-00-596-7691 | MS35335-32 | 96906 | LOCKWASHER, EXTERNAL TOOTH #10 | EA 29 |
| C-6 | 17 | PAOZZ | 5305-00-989-7434 | MS35207-263 | 96906 | MACHINE SCREW, PAN HEAD #10 UNF-2A | EA 29 |
| C-6 | 18 | PAOZZ | 5310-00-877-5797 | MS21044-N3 | 96906 | NUT, SELF-LOCKING #10-32 UNF-3B | EA 29 |
| C-6 | 19 | XBOZZ | | 3015 PART 2 | 79725 | TEE | EA 1 |
| C-6 | 20 | XCOZZ | | 0188-2-3013-1 | 15942 | BLANK END FITTING (GREEN) | EA 4 |
| C-6 | 21 | PAOZZ | 5325-00-619-6542 | MS35490-6 | 96906 | GROMMET, RUBBER, SPLIT | EA 1 |
| C-6 | 22 | PAOZZ | 5310-00-809-4058 | MS27183-10 | 96906 | WASHER, FLAT, ROUND 1/4 | EA 4 |
| C-6 | 23 | PAOZZ | 5310-00-088-1251 | MS51922-1 | 96906 | NUT, SELF-LOCKING, 1/4-20 UNC | EA 4 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-6 | 24 | XCOOO | | 0188-2-4034 | 15942 | POWER DISTRIBUTION BOX ASSEMBLY (REFER TO FIGURE C-2) | EA 1 |
| C-6 | 25 | XCOZZ | | 0188-2-4021 | 15942 | POWER DISTRIBUTION BOX MOUNTING PLATE | EA 1 |
| C-6 | 26 | PAOZZ | 5975-00-834-1528 | 1944 | 59730 | CHASE NIPPLE, INSULATED 1 IN | EA 3 |
| C-6 | 27 | PAOZZ | 5975-00-714-8031 | 143 | 59730 | LOCKNUT 1 IN | EA 3 |
| C-6 | 28 | XCOZZ | | 0188-2-3010 | 15942 | ENTRANCE END FITTING | EA 1 |
| C-6 | 29 | XCOOO | | 0188-2-4055 | 15942 | SIGNAL ENTRANCE BOX INSTALLATION (REFER TO FIGURE C-7) | EA 1 |
| C-6 | 30 | XCOOO | | 0188-2-4023 | 15942 | SIGNAL ENTRANCE BOX ASSEMBLY (REFER TO FIGURE C-8) | EA 1 |
| C-6 | 31 | PAOZZ | 5310-00-582-5965 | MS35338-44 | 96906 | LOCKWASHER, SPRING, HELICAL | EA 4 |
| C-6 | 32 | PAOZZ | 5305-00-071-2241 | MS90725-10 | 96906 | CAPSCREW, HEX HEAD 1/4-20X 1-1/4 | EA 4 |
| C-6 | 33 | XBOZZ | | X-4727 | 70485 | "U" CHANNEL, EXTRUDED | FT V |
| C-6 | 34 | XCOZZ | | 0188-2-3027-1 | 15942 | RACEWAY BASE (GREEN) | FT V |
| C-6 | 35 | PAOZZ | 5975-00-577-8518 | 1942 | 59730 | CHASE NIPPLE, INSULATED 1/2 IN. | EA 1 |
| C-6 | 36 | PAOZZ | 5975-00-152-1075 | 141 | 59730 | LOCKNUT 1/2 IN | EA 1 |
| C-6 | 37 | XCOOO | | 0188-2-4040 | 15942 | POWER ENTRANCE BOX ASSEMBLY (REFER TO FIGURE C-9) | EA 1 |
| C-6 | 38 | XCOOO | | 0188-2-4054 | 15942 | POWER ENTRANCE BOX INSTALLATION | EA 1 |
| C-6 | 39 | XCOZZ | | 0188-2-3015-2 | 15942 | ADJUSTABLE OFFSET CONNECTOR AND COVER | EA 2 |
| C-6 | 40 | PAOZZ | 5975-00-669-9690 | 1946 | 59730 | CHASE NIPPLE, INSULATED 1-1/4 IN. | EA 1 |
| C-6 | 41 | PAOZZ | 5975-00-152-1075 | 144 | 59730 | LOCKNUT 1-1/4 IN | EA 1 |
| C-6 | 42 | PAOZZ | 5310-00-081-8087 | MS21044 NO. 6 | 96906 | NUT, SELF-LOCKING | EA 4 |
| C-6 | 43 | PAOZZ | 5310-00-082-1404 | MS27183-6 | 96906 | WASHER, FLAT, ROUND #6 | EA 4 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-6 | 44 | PAOZZ | 5305-00-889-3000 | MS35206-230 | 96906 | SCREW, PAN HEAD, CRES, #6-32UNCX 1/2 | EA 4 |
| C-6 | 45 | PAOZZ | 5310-00-811-3494 | MS21044 NO. 8 | 96906 | NUT, SELF-LOCKING | EA 4 |
| C-6 | 46 | PAOZZ | 5310-00-765-3197 | MS27183-41 | 96906 | WASHER, FLAT, ROUND #8 | EA 4 |
| C-6 | 47 | PAOZZ | 5305-00-984-6192 | MS35206-244 | 96906 | SCREW, PAN HEAD, CRES, #8-32UNC | EA 4 |
| C-6 | 48 | XCOZZ | | 0188-2-3132-2 | 15942 | RACEWAY COVER | EA 1 |
| C-6 | 49 | XCOZZ | | 0188-2-3043-2 | 15942 | INTERNAL CORNER COUPLING AND COVER | EA 1 |
| C-6 | 50 | XCOZZ | | 0188-2-2074 | 15942 | BLANK END FITTING | EA 1 |

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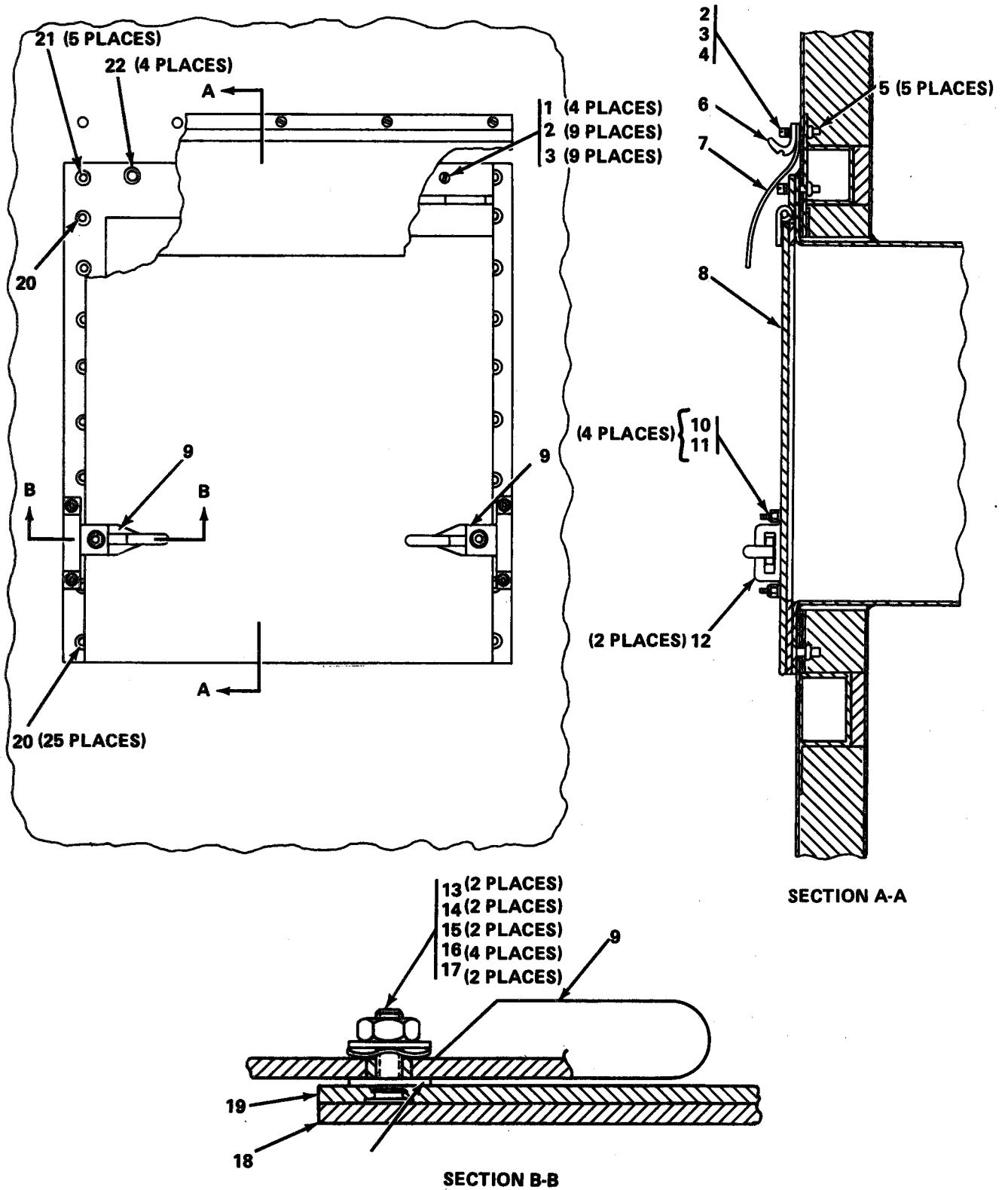


Figure C-7. Signal Entrance Box Installation (Sheet 1 of 2)

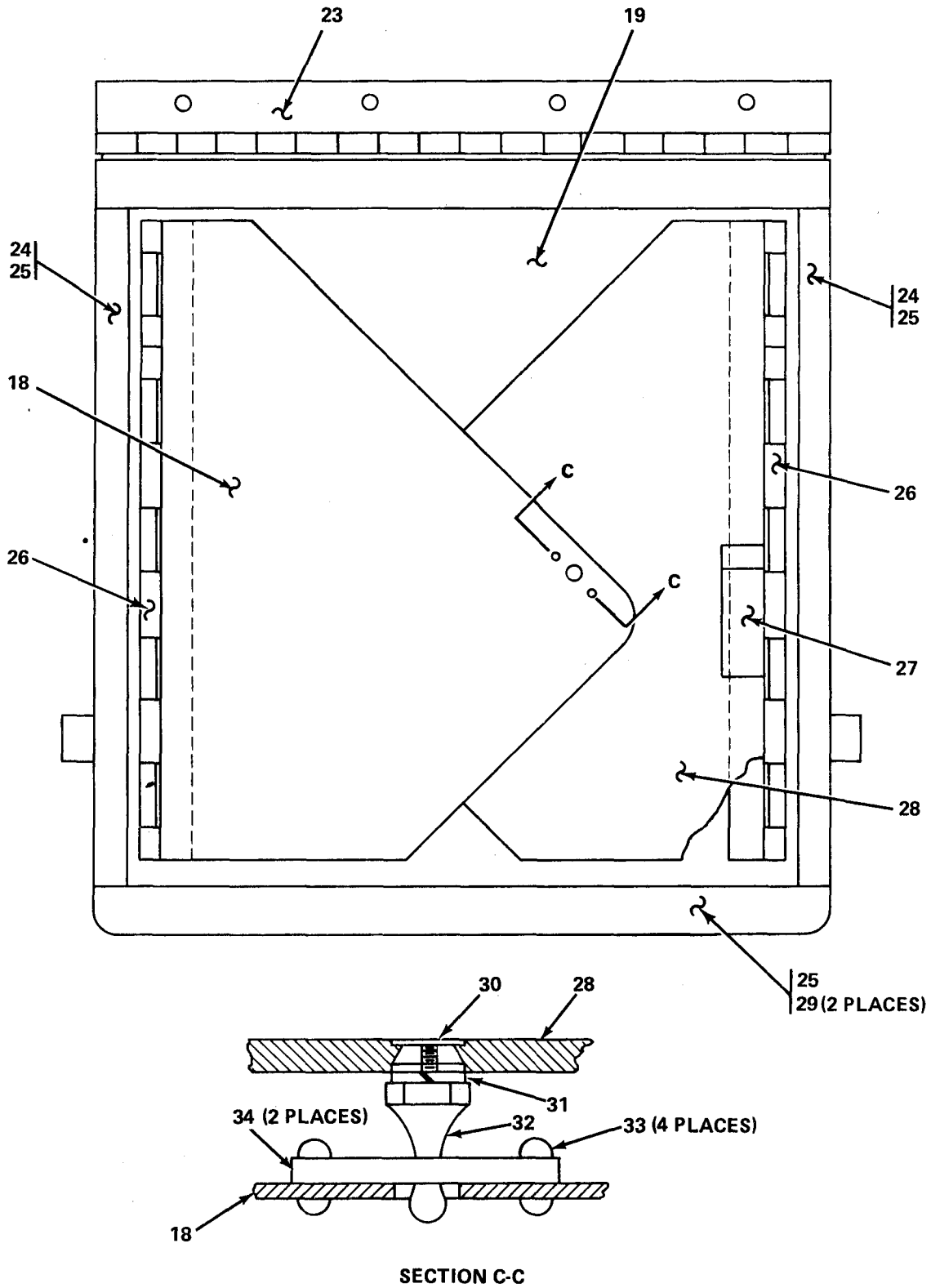


Figure C-7. Signal Entrance Box Installation (Sheet 2 of 2)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---|--------------------|-------------|-----------------------------|-------------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| GROUP: 0401 SIGNAL ENTRANCE BOX INSTALLATION | | | | | | | |
| C-7 | 1 | PAOZZ | 5305-00-054-6671 | MS51957-46 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNC X 5/8 | EA 4 |
| C-7 | 2 | PAOZZ | 5310-00-225-5328 | MS15795-841 | 96906 | WASHER, FLAT, ROUND, #8 | EA 9 |
| C-7 | 3 | PAOZZ | 5310-00-933-8119 | MS35338-137 | 96906 | LOCKWASHER, SPRING, #8 | EA 9 |
| C-7 | 4 | PAOZZ | 5305-00-054-6672 | MS51957-47 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNC X 3/4 | EA 5 |
| C-7 | 5 | XBOZZ | | SS8B120 | 03481 | RIVNUT, FLAT HEAD | EA 5 |
| C-7 | 6 | MOOZZ | | 0188-2-2026 | 15942 | RAIN CAP | EA 1 |
| C-7 | 7 | MOOZZ | | 0188-2-2029 | 15942 | RAIN SHIELD | EA 1 |
| C-7 | 8 | XCOZZ | | 0188-2-4050 | 15942 | COVER | EA 1 |
| C-7 | 9 | XCOZZ | | 0188-2-3074 | 15942 | LATCH | EA 2 |
| C-7 | 10 | PAOZZ | 5310-00-883-9384 | MS15795-842 | 96906 | WASHER, FLAT, ROUND, #10 | EA 4 |
| C-7 | 11 | PAOZZ | 5310-00-208-9255 | MS20144-C3 | 96906 | NUT, SELF-LOCKING, #10-32UNF | EA 4 |
| C-7 | 12 | XCOZZ | | 0188-2-2057 | 15942 | KEEPER | EA 2 |
| C-7 | 13 | PAOZZ | 5310-01-025-1797 | 3515-14-11 | 78189 | WASHER, WAVE-SHAPE, SPRING | EA 2 |
| C-7 | 14 | PAOZZ | 5310-00-926-1835 | MS21083-C3 | 96906 | NUT, SELF-LOCKING, CRES #10-32UNF | EA 2 |
| C-7 | 15 | PAOZZ | 5307-00-974-0610 | FHS032-10 | 46384 | CLINCH NUT, CRES | EA 2 |
| C-7 | 16 | PAOZZ | 5310-00-167-0812 | AN960-C10L | 96906 | WASHER, FLAT, #10 | EA 4 |
| C-7 | 17 | XCOZZ | | 0188-2-2054 | 15942 | BUSHING | EA 2 |
| C-7 | 18 | XCOZZ | | 0188-2-3071 | 15942 | SHIELD ASSEMBLY (LEFT) | EA 1 |
| C-7 | 19 | XCOZZ | | 0188-2-3073 | 15942 | COVER | EA 1 |
| C-7 | 20 | PAOZZ | 5320-01-030-9162 | M24243/ 7A606F | 96906 | RIVET, COUNTERSUNK | EA 25 |
| C-7 | 21 | PAOZZ | 5320-00-420-2164 | M24243/ 7A604F | 96906 | RIVET, COUNTERSUNK | EA 5 |
| C-7 | 22 | XBOZZ | | SS8B241 | 03481 | RIVNUT, COUNTERSUNK | EA 4 |
| C-7 | 23 | XCOZZ | | 0188-2-3075 | 15942 | MODIFIED HINGE | EA 1 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-7 | 24 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, GRADE F, 11-1/8X 1/2X 1/8 | EA 2 |
| C-7 | 25 | PAOZZ | 8040-00-728-3088 | MIL-A-46106 | 81348 | ADHESIVE, SEALANT SILICONE, TYPE I | OZ V |
| C-7 | 26 | PAOZZ | 5340-00-951-8219 | MS35822-2A | 96906 | HINGE | EA 2 |
| C-7 | 27 | XCOZZ | | 0188-2-2056 | 15942 | RIGHT SHIELD STOP | EA 1 |
| C-7 | 28 | XCOZZ | | 0188-2-3072 | 15942 | SHIELD ASSEMBLY (RIGHT) | EA 1 |
| C-7 | 29 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, GRADE F, 11-3/8 X 1/2 X 1/8 | EA 2 |
| C-7 | 30 | PAOZZ | 5310-00-338-2256 | M45938/4-5 | 81349 | CLINCH NUT, #6-32UNC | EA 1 |
| C-7 | 31 | PAOZZ | 5310-00-929-6395 | MS35338-136 | 96906 | LOCKWASHER, #6 | EA 1 |
| C-7 | 32 | PAOZZ | 5307-00-099-8871 | P116-447-5-24A | 78553 | STUD | EA 1 |
| C-7 | 33 | PAOZZ | 5320-00-754-0822 | MS20470AD4-5 | 96906 | RIVET, SOLID UNIVERSAL HEAD | EA 4 |
| C-7 | 34 | XCOZZ | | 0188-2-2053 | 15942 | SPRING CLIP | EA 2 |

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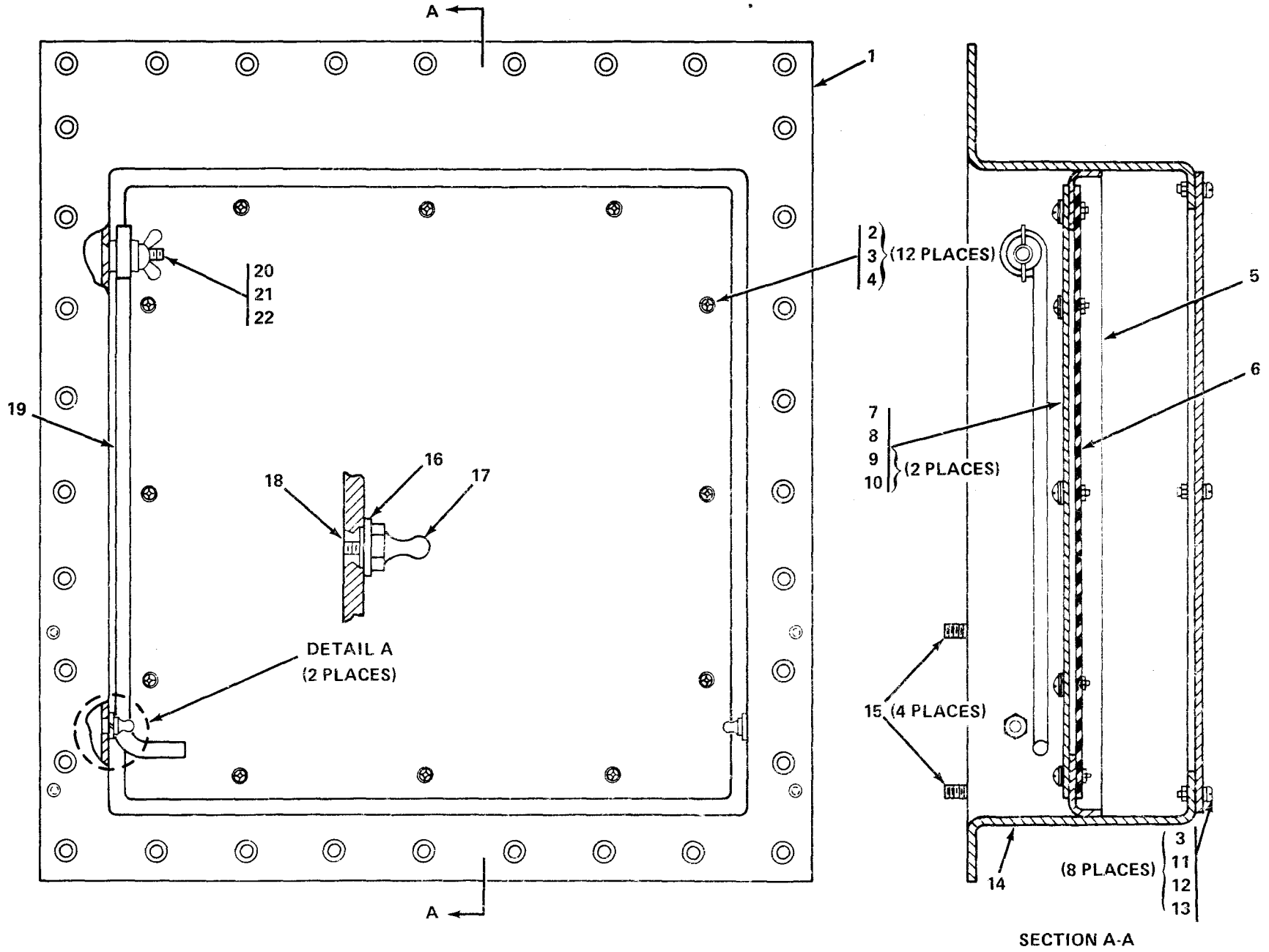


Figure C-8. Signal Entrance Box Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|--------------------|-------|---|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP: 0402 SIGNAL ENTRANCE BOX ASSEMBLY | |
| C-8 | 1 | XCOOO | | 0188-2-4022 | 15942 | WELDED BOX ASSEMBLY | EA 1 |
| C-8 | 2 | PAOZZ | 5310-00-225-5328 | MS15795-841 | 96906 | WASHER, ROUND, FLAT, #8 | EA 12 |
| C-8 | 3 | PAOZZ | 5310-00-933-8119 | MS35338-137 | 96906 | LOCKWASHER, #8 | EA 20 |
| C-8 | 4 | PAOZZ | 5305-00-054-6672 | MS51957-47 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNF X 3/4 | EA 12 |
| C-8 | 5 | XCOOO | | 0188-2-3032 | 15942 | FRAME ASSEMBLY | EA 1 |
| C-8 | 6 | XBOZZ | | RPM #1 | 08063 | POLYURETHANE PLASTIC SHEET | FT V |
| C-8 | 7 | XCOOO | | 0188-2-4082-1 | 15942 | SIGNAL ENTRANCE BOX PANEL | EA 1 |
| C-8 | 8 | PAOZZ | 8040-00-728-3088 | MIL-A-46106 | 81349 | SILICONE SEALANT, ADHESIVE TYPE I | OZ V |
| C-8 | 9 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, RUBBER, GRADE F, 8-1/4 X 3/4 X 1/8 | EA 2 |
| C-8 | 10 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, RUBBER, GRADE F, 9-3/4 X 3/4 X 1/8 | EA 2 |
| C-8 | 11 | PAOZZ | | M45938/1-13 | 81349 | NUT, PLAIN, CLINCH, 0.164- 32UNC | EA 8 |
| C-8 | 12 | PAOZZ | 5310-00-765-3197 | MS27183-41 | 96906 | WASHER, FLAT, #8 | EA 8 |
| C-8 | 13 | PAOZZ | 5305-00-984-6194 | MS35206-246 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNC X 5/8 | EA 8 |
| C-8 | 14 | XCOZZ | | 0188-2-3029-1 | 15942 | COVER PLATE | EA 1 |
| C-8 | 15 | PAOZZ | 5307-00-075-2730 | FHS032-8 | 46384 | STUD, SELF-CLINCH. #10-32 X 1/2 | EA 4 |
| C-8 | 16 | PAOZZ | 5310-00-929-6395 | MS35338-136 | 96906 | LOCKWASHER, #6 | EA 2 |
| C-8 | 17 | PAOZZ | 5307-00-099-8871 | P116-447- 5-24A | 78553 | STUD | EA 2 |
| C-8 | 18 | PAOZZ | 5310-01-044-6568 | M45938/4-6 | 81349 | CLINCH NUT, 0.138-32UNC | EA 2 |
| C-8 | 19 | XCOOO | | 0188-2-2027 | 15942 | COVER SUPPORT | EA 1 |
| C-8 | 20 | PAOZZ | 5310-00-582-5677 | MS15795-810 | 96906 | WASHER, FLAT, 1/4 | EA 2 |
| C-8 | 21 | XCOZZ | | FHS0420-14 | 46384 | STUD, SELF-CLINCH, 1/4-20 X 7/8 | EA 1 |
| C-8 | 22 | PAOZZ | 5310-00-982-6827 | MS35425-40 | 96906 | WING NUT, 1/4 - 20UNC-2B | EA 1 |

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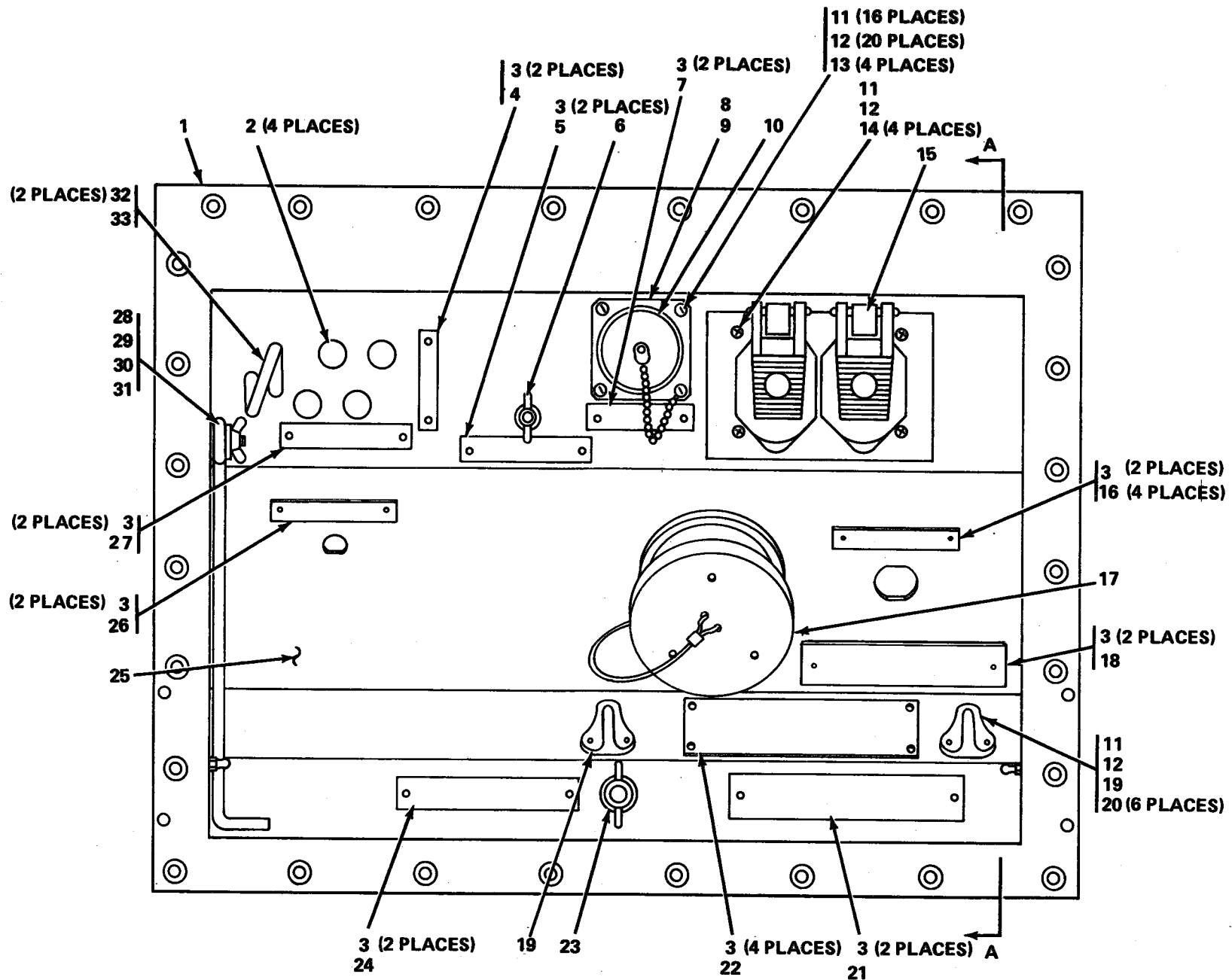
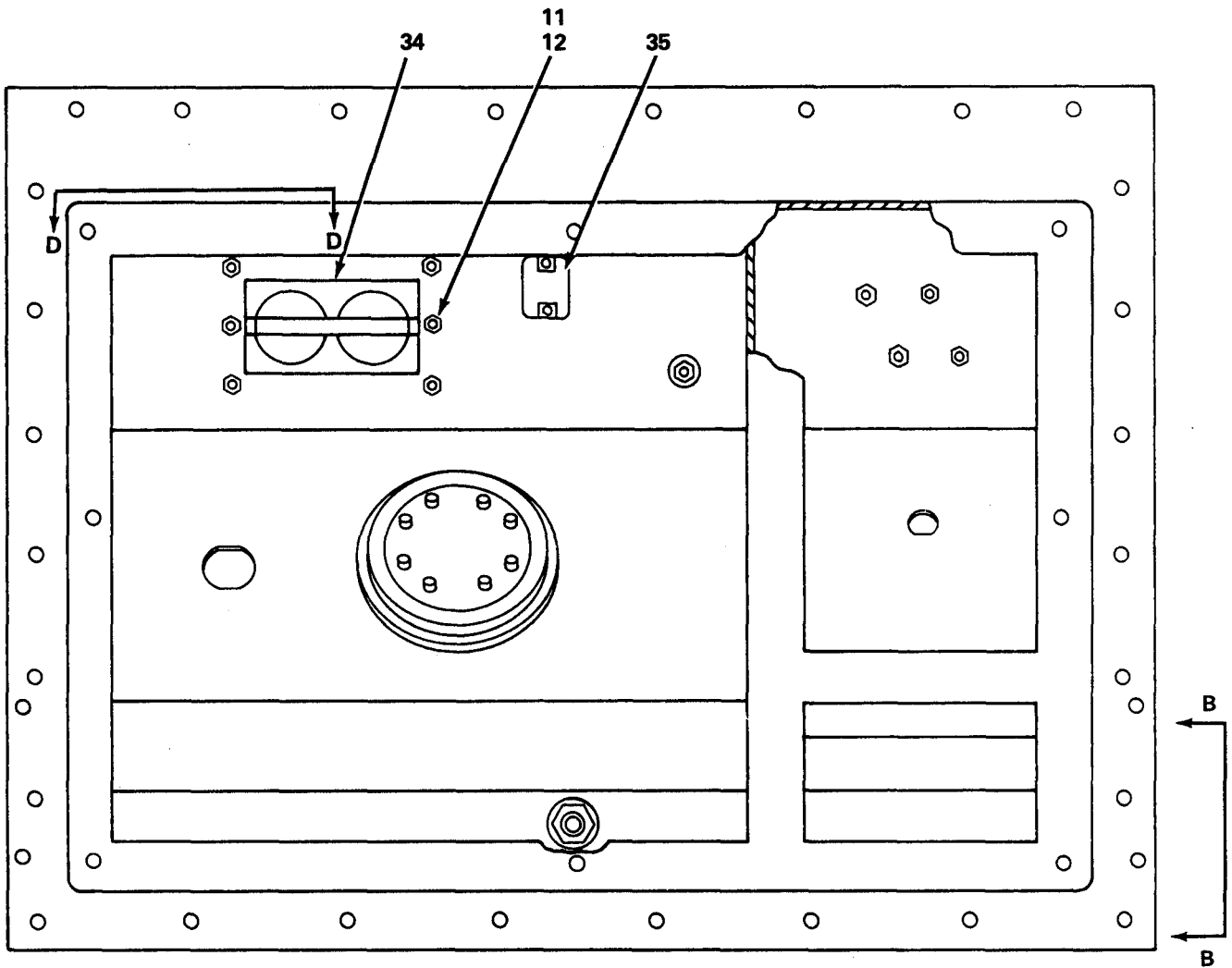


Figure C-9. Power Entrance Box Assembly (Sheet 1 of 4)



INSIDE COVER REMOVED

Figure C-9. Power Entrance Box Assembly (Sheet 2 of 4)

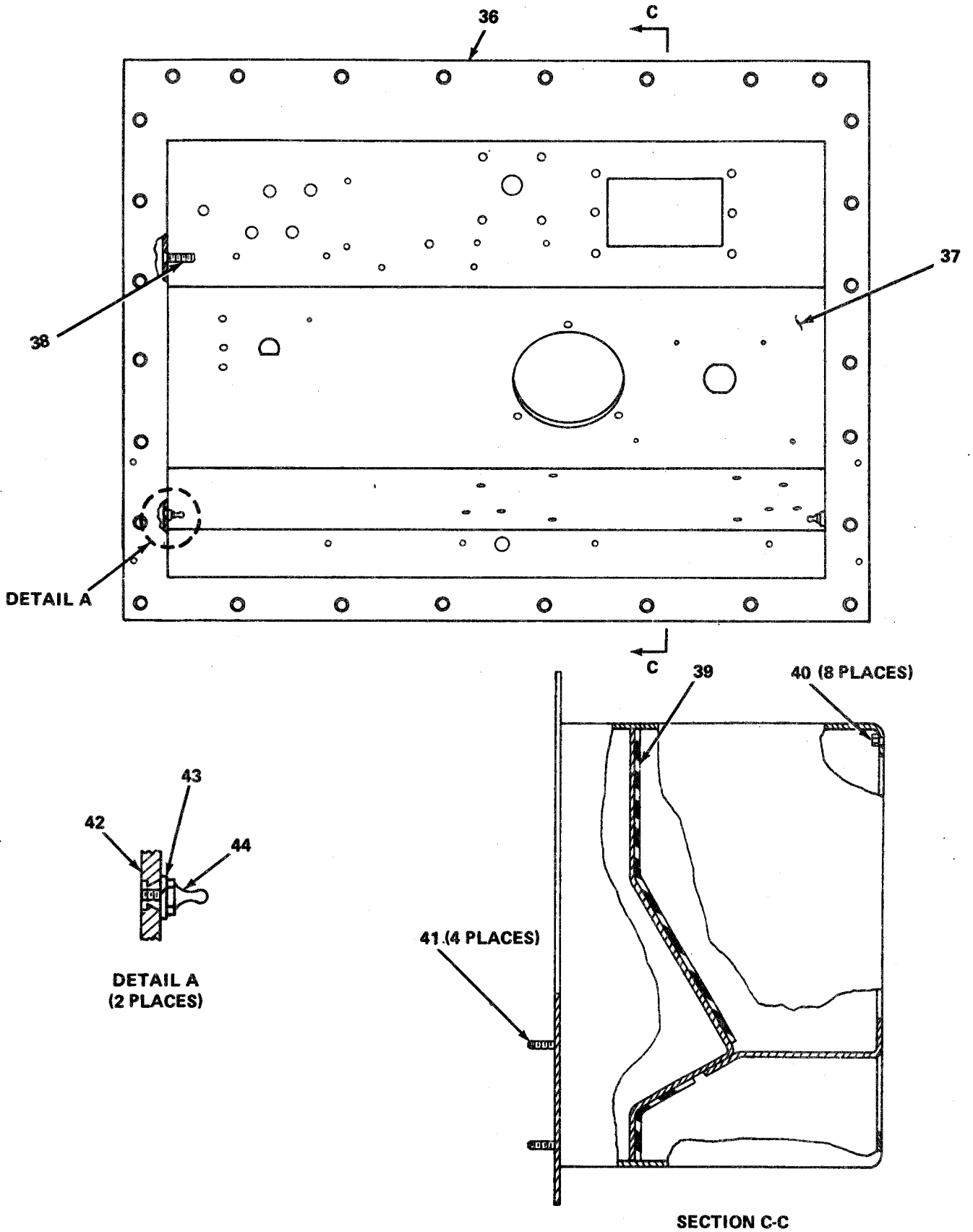


Figure C-9. Power Entrance Box Assembly (Sheet 3 of 4)

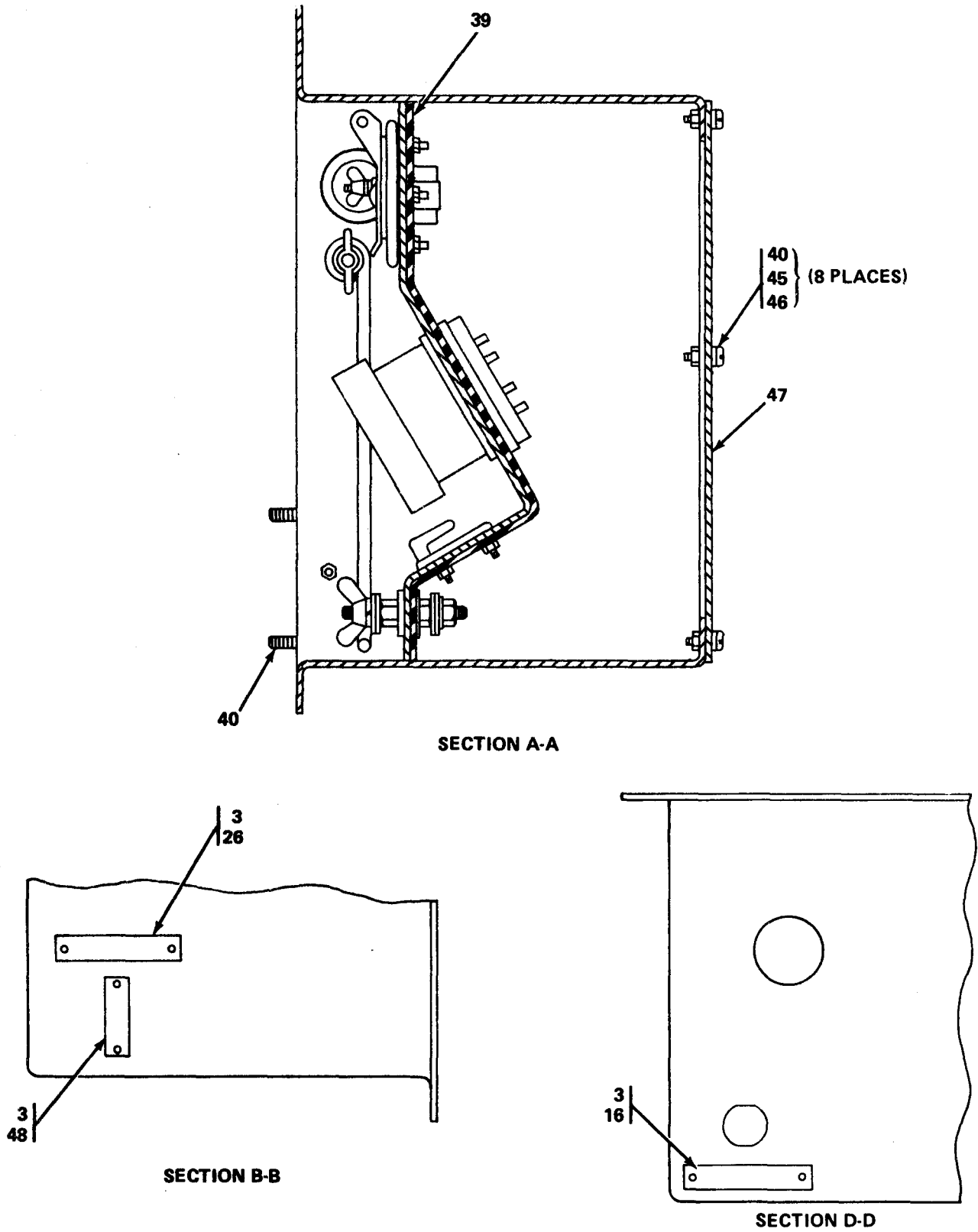


Figure C-9. Power Entrance Box Assembly (Sheet 4 of 4)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|------------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP: 0403 POWER ENTRANCE BOX ASSEMBLY | |
| C-9 | 1 | XCOOO | | 0188-2-4043 | 15942 | WELDED BOX ASSEMBLY | EA 1 |
| C-9 | 2 | XBOZZ | | PB08NA01 | 81349 | BINDING POST | EA 4 |
| C-9 | 3 | PAOZZ | 5320-01-032-1043 | 1601-0414 | 19738 | RIVET, DOME HEAD, 1/8 IN | EA 30 |
| C-9 | 4 | XCOZZ | | 0188-2-2050 | 15942 | NAMEPLATE (ROW A-B) | EA 1 |
| C-9 | 5 | XCOZZ | | 0188-2-2048 | 15942 | NAMEPLATE (GROUND TERMINAL) | EA 1 |
| C-9 | 6 | XCOZZ | | 0188-2-3052 | 15942 | STUD ASSEMBLY, #10-32UNF-2A (REFER TO FIGURE C-10) | EA 1 |
| C-9 | 7 | XCOZZ | | 0188-2-2046 | 15942 | NAMEPLATE (CONV BREAKER) | EA 1 |
| C-9 | 8 | XBOZZ | | 10-40450-28 | 74545 | CONNECTOR GASKET | EA 1 |
| C-9 | 9 | XBOZZ | | 10-37093-323 | 74545 | CONNECTOR SHELL | EA 1 |
| C-9 | 10 | XBOOO | | 10-37147-28 | 74545 | PROTECTOR COVER | EA 1 |
| C-9 | 11 | PAOZZ | 5310-00-880-5976 | MS15795-806 | 96906 | WASHER, FLAT, ROUND, #6 | EA 16 |
| C-9 | 12 | PAOZZ | 5310-00-982-6813 | MS21044-C06 | 96906 | NUT, SELF-LOCKING, #6-32UNC- 3B | EA 20 |
| C-9 | 13 | PAOZZ | 5305-00-054-6655 | MS51957-31 | 96906 | SCREW, #6-32UNC-2A X 5/8 | EA 4 |
| C-9 | 14 | PAOZZ | 5305-00-054-6656 | MS51957-32 | 96906 | SCREW, #6-32UNC-2A X 3/4 | EA 4 |
| C-9 | 15 | XBOOO | | CATALOG #5206 | 74545 | WATERPROOF PLATE COVER | EA 1 |
| C-9 | 16 | XCOZZ | | | 15942 | NAMEPLATE (RT-524/VRC REMOTE CONTROL) | EA 2 |
| C-9 | 17 | XBOZZ | | U-238()/G | 80058 | ELECTRICAL RECEPTACLE, CONNECTOR | EA 1 |
| C-9 | 18 | XCOZZ | | 0188-2047 | 15942 | NAMEPLATE (POWER 115 VAC) | EA 1 |
| C-9 | 19 | XBOZZ | | FIG. #254 | 79577 | FENDER HOOK, SIZE 1 | EA 2 |
| C-9 | 20 | PAOZZ | 5305-00-765-4342 | MS51959-31 | 96906 | MACHINE SCREW, #6-32UNC- 2B X 5/8 | EA 6 |
| C-9 | 21 | XCOZZ | | 0188-2-2045 | 15942 | NAMEPLATE (CONNECT GROUND BEFORE CONNECTING POWER) | EA 1 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-9 | 22 | XCOZZ | | 0188-2-2049 | 15942 | NAMEPLATE (WARNING 115 VOLTS AC) | EA 1 |
| C-9 | 23 | XCOOO | | 0188-2-3051 | 15942 | STUD ASSEMBLY, 3/8-16UNC- 2A (REFER TO FIGURE C-11) | EA 1 |
| C-9 | 24 | XCOZZ | | 0188-2-2043 | 15942 | NAMEPLATE (GROUND TERMINAL) | EA 1 |
| C-9 | 25 | XBOOO | | 0188-2-4044 | 15942 | PANEL | EA 1 |
| C-9 | 26 | XCOZZ | | 0188-2-2051 | 15942 | NAMEPLATE (RT-524/VCR WHIP) | EA 2 |
| C-9 | 27 | XCOZZ | | 0188-2-2044 | 15942 | NAMEPLATE (PHONE INTERCOM) | EA 1 |
| C-9 | 28 | PAOZZ | 5307-00-006-8449 | FHS0420-14 | 46384 | STUD, SELF-CLINCH, 1/4-20UNC- 7/8 | EA 1 |
| C-9 | 29 | PAOZZ | 5310-00-982-6827 | MS35425-40 | 96906 | WINGNUT, 1/4-20UNC-2B | EA 1 |
| C-9 | 30 | PAOZZ | 5310-00-582-5677 | MS15795-810 | 96906 | WASHER, FLAT, ROUND, 1/4 | EA 2 |
| C-9 | 31 | XCOOO | | 0188-2-2017 | 15942 | COVER SUPPORT | EA 1 |
| C-9 | 32 | PFOZZ | 5310-00-989-0908 | MS35691-3 | 96906 | MACHINE NUT, HEX, 1/4- 20UNC-2B | EA 2 |
| C-9 | 33 | XCOZZ | | 0188-2-2047 | 15942 | BRIDLE RING | EA 1 |
| C-9 | 34 | XBOZZ | | WC596/40-2 | 81348 | ELECTRICAL RECEPTACLE, CONNECTOR DUPLEX, GENERAL PURPOSE | EA 1 |
| C-9 | 35 | PAOZZ | 5925-00-681-4952 | MS25244-10 | 96906 | CIRCUIT BREAKER | EA 1 |
| C-9 | 36 | XCOOO | | 0188-2-4042 | 15942 | FRAME WELDED ASSEMBLY | EA 1 |
| C-9 | 37 | XCOOO | | 0188-2-4044 | 15942 | PANEL | EA 1 |
| C-9 | 38 | XBOZZ | | FHS0420 | 46384 | STUD, SELF CLINCH, 1/4- 20UNC X 7/8 | EA 1 |
| C-9 | 39 | XBOZZ | | RPM #1 | 08063 | POLYURETHANE PLASTIC SHEET | FT V |
| C-9 | 40 | PAOZZ | 5310-00-775-5064 | LK832-2 | 46384 | NUT, SELF-LOCKING, SELF- CLINCH, #8-32 | EA 8 |
| C-9 | 41 | PAOZZ | 5307-00-075-2730 | FHS032-8 | 46384 | STUD, SELF CLINCH, #10- 32UNF X 1/2 | EA 4 |
| C-9 | 42 | PAOZZ | 5310-01-044-6568 | M45938/4-6 | 81349 | NUT, PLAIN, CLINCH, #6- 32UNC | EA 2 |
| C-9 | 43 | PAOZZ | 5310-00-929-6395 | MS35338-136 | 96906 | LOCKWASHER, SPLIT, #6 | EA 2 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|-----------------------------------|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-9 | 44 | PAOZZ | 5307-00-099-8871 | P116-447-5-24A | 78553 | STUD | EA 2 |
| C-9 | 45 | PAOZZ | 5305-00-984-6194 | MS35206-246 | 96906 | SCREW, #8-32UNC-2A X 5/8 | EA 8 |
| C-9 | 46 | PAOZZ | 5310-00-765-3197 | MS27183-41 | 96906 | WASHER, FLAT, ROUND, #8 | EA 8 |
| C-9 | 47 | XBOOO | | 0188-2-4039 | 15942 | COVER | EA 1 |
| C-9 | 48 | XCOZZ | | 0188-2-2052 | 15942 | PLATE (ARROW) | EA 1 |

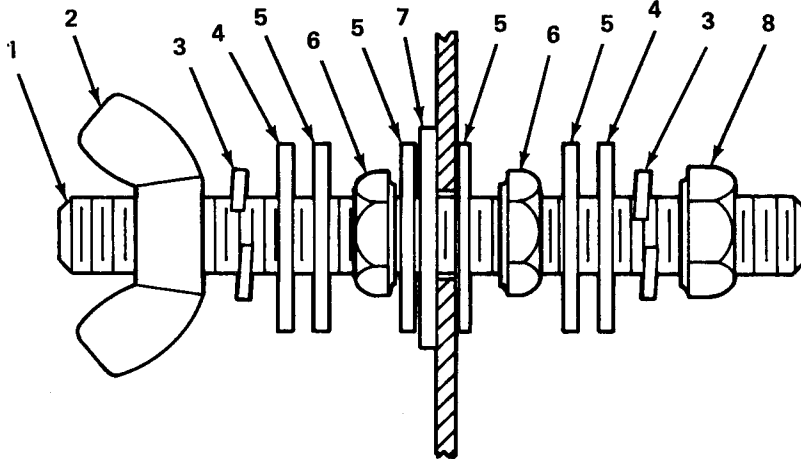


Figure C-10. Stud Assembly 10-32UNF-2A

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|-------------|-------------|-----------------------------|----------------|-------|--|-----|--------------------------|
| (a) FIG NO. | (b) ITEM | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M | ITY INC IN INIT |
| | | | | | | GROUP: 0404 STUD ASSEMBLY, 10-32UNC- 2A | | |
| C-10 | 1 | XCOZZ | | 0188-2-2039-1 | 15942 | STUD, 10-32UNF-2A X 2-1/2IN | EA | 1 |
| C-10 | 2 | PAOZZ | | MS35426-2 | 96906 | WINGNUT, 10-32UNF-2B | EA | 1 |
| C-10 | 3 | PAOZZ | 5310-00-261-8278 | MS35338-100 | 96906 | LOCKWASHER, SPLIT 10 | EA | 2 |
| C-10 | 4 | PAOZZ | 5310-00-125-6170 | MS15795-942 | 96906 | WASHER, FLAT, ROUND | EA | 2 |
| C-10 | 5 | PAOZZ | 5310-00-188-0473 | 156-94 1-45 | 75377 | WASHER, INTERNAL AND EXTERNAL TEETH, 10 | EA | 4 |
| C-10 | 6 | PAOZZ | | MS25082-B3 | 96906 | JAM NUT, HEX, 10-32UNF | EA | 2 |
| C-10 | 7 | XBOZZ | | RS-56 150-SS3 | 73484 | SEAL WASHER | EA | 1 |
| C-10 | 8 | PAOZZ | 5310-00-934-9766 | MS35650-305 | 96906 | MACHINE NUT,HEX,10-32UNF- 2B | EA | 1 |

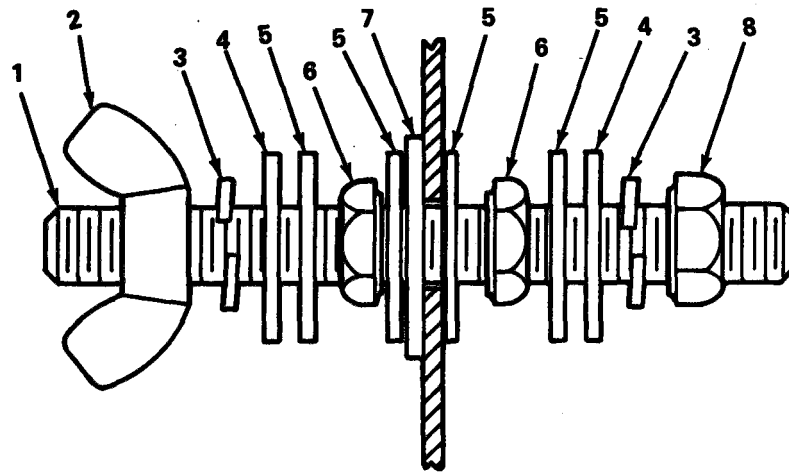
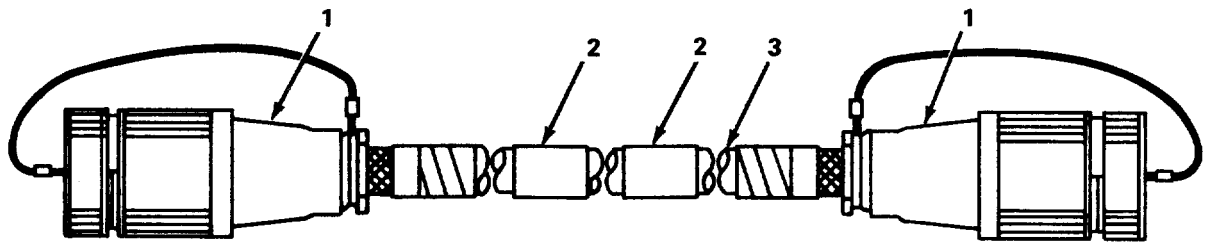


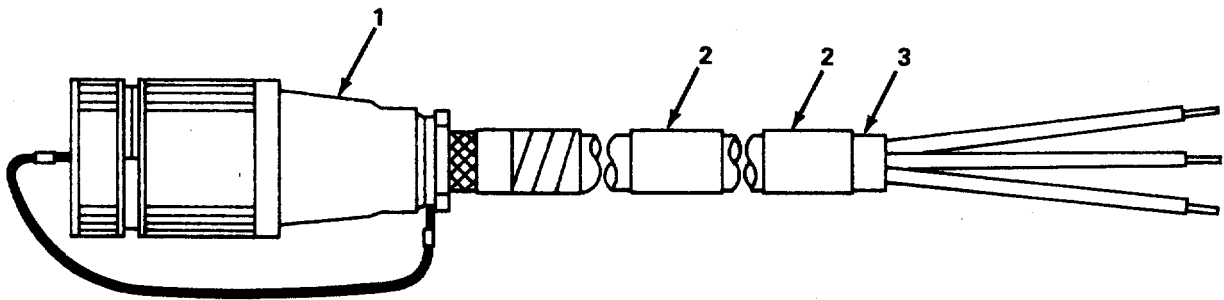
Figure C-11. Stud Assembly 3/8-16UNC-2A

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION <i>Usable On Code</i> | U/M | QTY INC IN UNIT |
| C-11 | 1 | XCOZZ | | 0188-2-2040-1 | 15942 | GROUP: 0405 STUD ASSEMBLY, 3/8-1 6UNC-2A | EA | 1 |
| C-11 | 2 | PAOZZ | 5310-00-543-4717 | MS35425-28 | 96906 | WINGNUT, 3/8- 16UNC-2B | EA | 1 |
| C-11 | 3 | PAOZZ | 5310-00-184-8971 | MS35338-103 | 96906 | LOCKWASHER, SPLIT, 3/8 | EA | 2 |
| C-11 | 4 | PAOZZ | 531 0-00-045-5215 | MS 15795-915 | 96906 | WASHER, FLAT, ROUND, 3/8 INCH | EA | 2 |
| C-11 | 5 | XBOZZ | | 4020-26-00 | 78189 | WASHER, INTERNAL AND EXTERNAL TEETH, 3/8 IN | EA | 4 |
| C-11 | 6 | PAOZZ | 53 10-00-918-6921 | MS3569 1-20 | 96906 | JAM NUT, MACHINE, 3/8-16 UNC-2B | EA | 2 |
| C-11 | 7 | PAOZZ | 5330-00-443-9889 | RS-80325-SS3 | 73484 | SEAL WASHER | EA | 1 |
| C-11 | 8 | PAOZZ | 5310-00-903-3994 | MS5 1969-3 | 96906 | MACHINE NUT, HEX, 3/8-16UNC- 2B | EA | 1 |

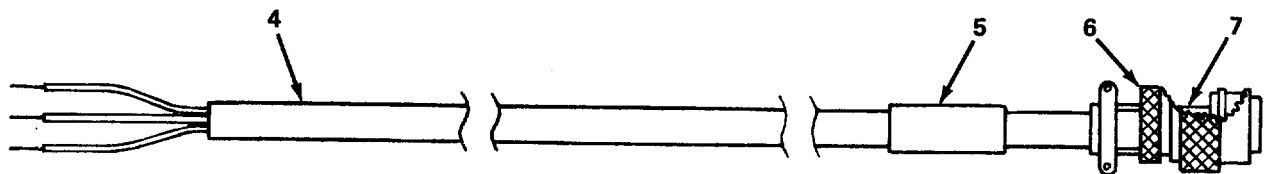
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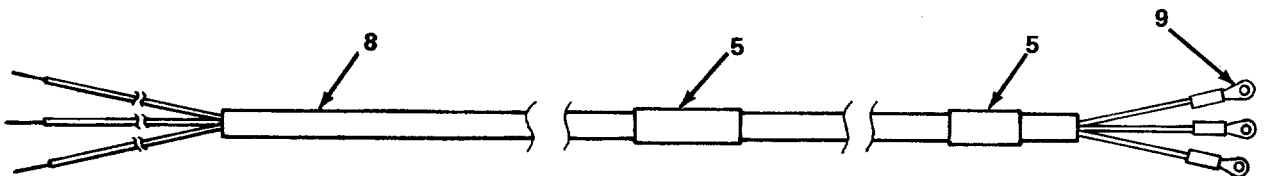
A
POWER CABLE ASSEMBLY CX-7453A/U (100 FEET)



B
POWER CABLE ASSEMBLY CX-7705A/U (15 FEET)

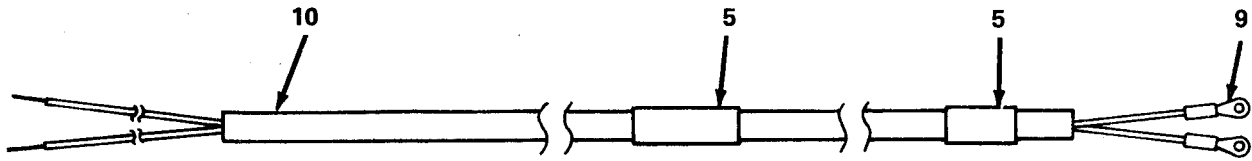


C
POWER CABLE ASSEMBLY - AIR CONDITIONER

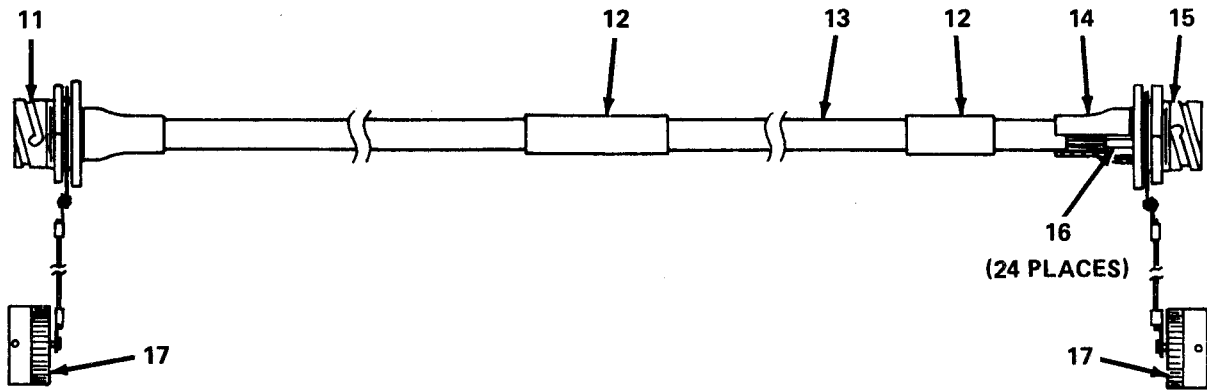


D
POWER SUPPLY CABLE ASSEMBLY

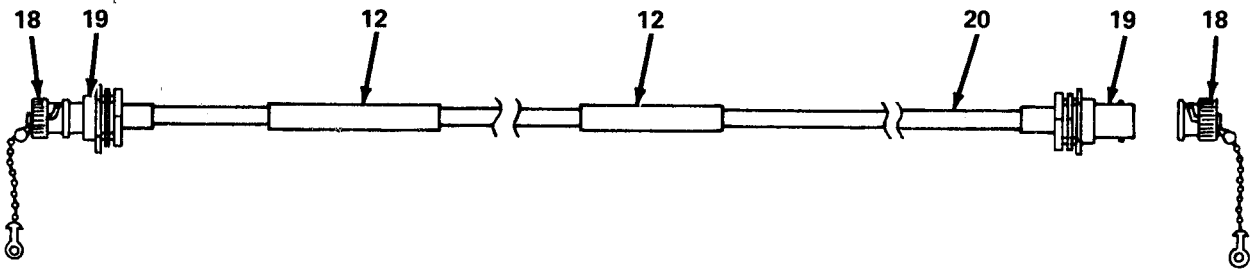
Figure C-12. Cable and Wiring Assemblies (Sheet 1 of 4)



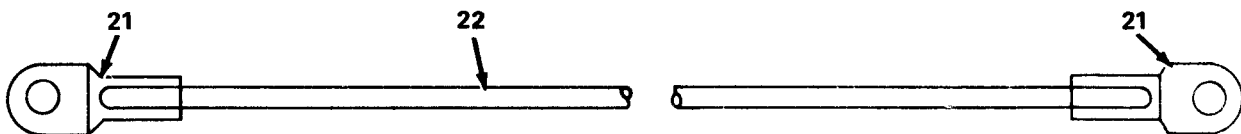
E
POWER SUPPLY CABLE ASSEMBLY



F
**CABLE ASSEMBLY, ANTENNA CONNECTION AT
POWER ENTRANCE BOX**

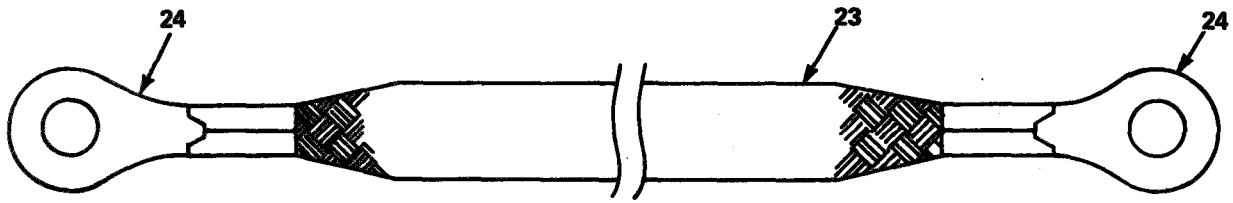


G
RF COAXIAL CABLE ASSEMBLY

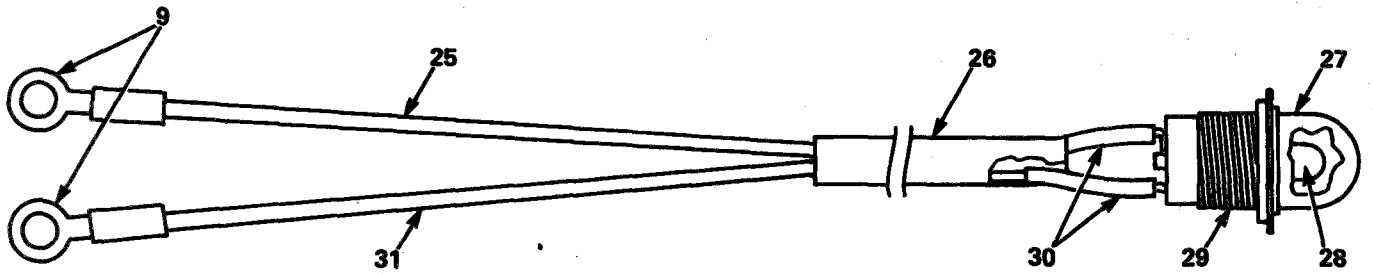


H
WIRE ASSEMBLY

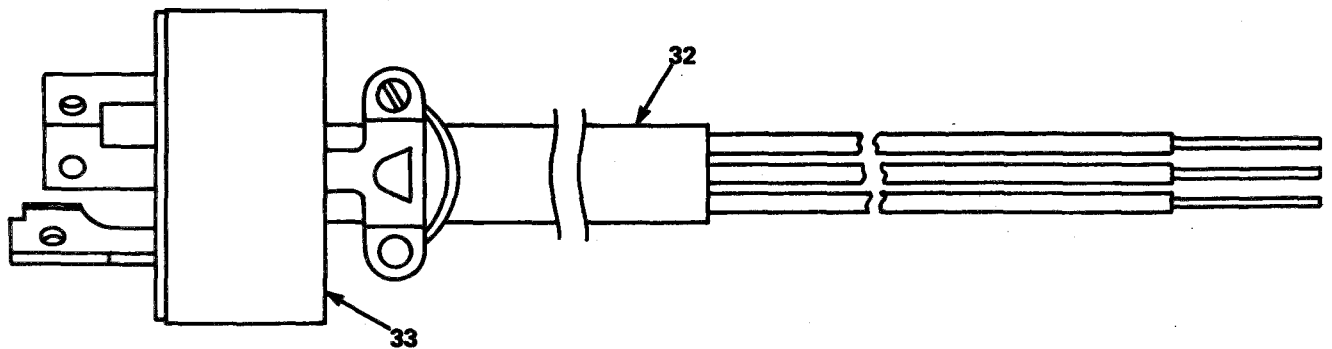
Figure C-12. Cable and Wiring Assemblies (Sheet 2 of 4)



I
GROUND STRAP ASSEMBLY



J
INDICATOR LIGHT WIRE ASSEMBLY



K
AC POWER CABLE, TWIST LOCK

Figure C-12. Cable and Wiring Assemblies (Sheet 3 of 4)

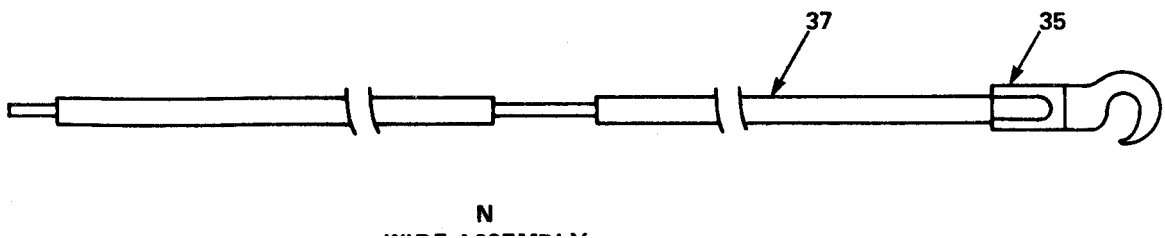
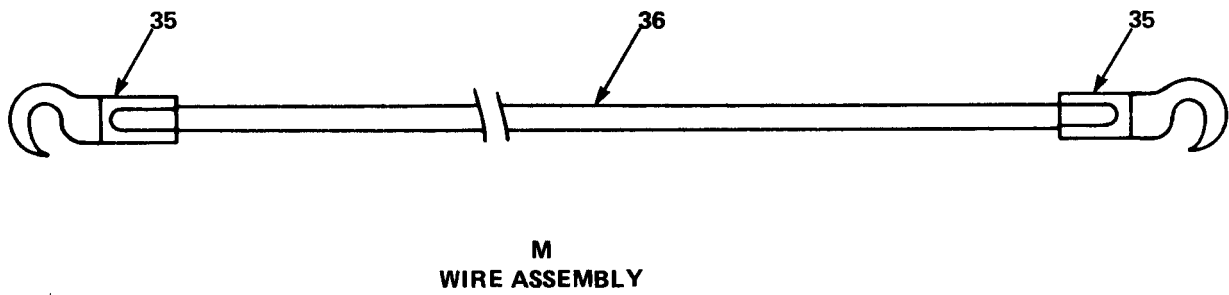
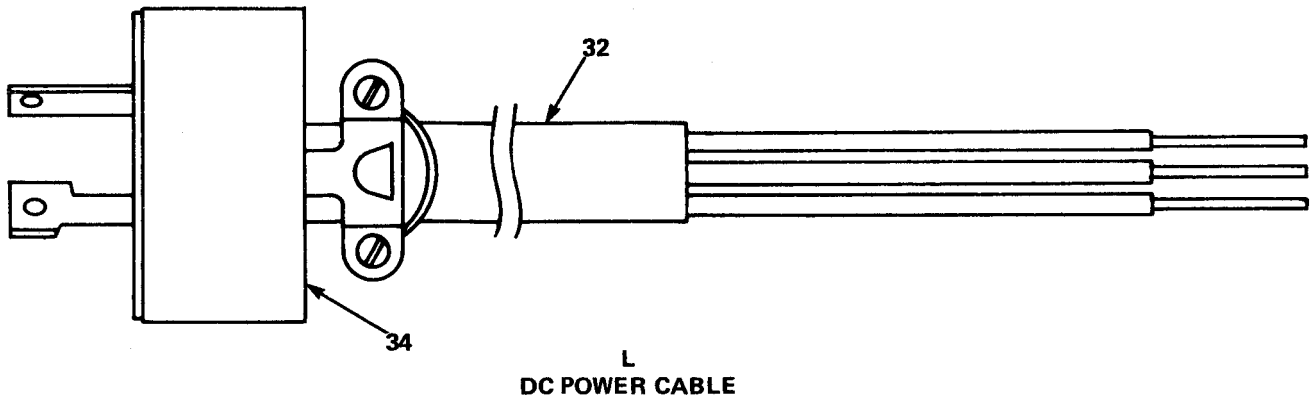


Figure C-12. Cable and Wiring Assemblies (Sheet 4 of 4)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|--------------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 06 CABLE AND WIRE ASSEMBLIES | |
| C-12 | 1 | XBOZZ | | U-237/G | 80058 | CONNECTOR | EA 3 |
| C-12 | 2 | PAOZZ | 5975-00-669-9473 | SMB165914 | 80063 | IDENTIFICATION BAND | EA 4 |
| C-12 | 3 | XBOZZ | | WT-26/U | 80058 | CABLE | EA 2 |
| C-12 | 4 | XBOZZ | | C0-03LGE | 81349 | CABLE, 3-LEAD, 12 AWG, 0.50 IN DIA. | FT V |
| C-12 | 5 | XCOZZ | | 0188-2-3058-9 | 15942 | IDENTIFICATION BAND | EA 5 |
| C-12 | 6 | PAOZZ | 5935-00-402-7240 | MS3106F20- 4SC | 96906 | PLUG CONNECTOR | EA 1 |
| C-12 | 7 | XBOZZ | | | 81349 | ELECTRICAL INSULATION, 0.085 IN. ID TYPE F, FORM U, GRADE C, CLASS I CLEAR | FT V |
| C-12 | 8 | XBOZZ | | C0-03L0F | 81349 | CABLE, 3-LEAD, 14 AWG, 0.50 IN DIA. | FT V |
| C-12 | 9 | PAOZZ | 5940-01-013-8287 | MS25036-153 | 96906 | TERMINAL LUG | EA 7 |
| C-12 | 10 | XCOZZ | | C0-02L0F | 81349 | CABLE, 2-LEAD, 14 AWG, 0.50 IN DIA. | FT V |
| C-12 | 11 | PAOZZ | 5935-00-892-8895 | U-288/U | 81349 | CONNECTOR | EA 1 |
| C-12 | 12 | XCOZZ | | 0188-2-3058 | 15942 | IDENTIFICATION BAND | EA 4 |
| C-12 | 13 | XCOZZ | | C0-12L0F | 81349 | CABLE, 12-LEAD, 22 AWG, 0.035 IN DIA. | EA 1 |
| C-12 | 14 | PAOZZ | 5970-00-812-2967 | M23053/5- 108-0 | 81349 | INSULATION, 0.50 IN ID | EA 2 |
| C-12 | 15 | PAOZZ | 5935-00-877-2134 | U-291/U | 81349 | CONNECTOR | EA 1 |
| C-12 | 16 | PAOZZ | 5970-00-916-2679 | M23053/5- 202-C | 81349 | INSULATION, 0.063 IN ID | EA 24 |
| C-12 | 17 | PAOOO | 5935-00-823-0752 | SM-C-414381C | 80063 | CAP WITH CABLE AND RING MOUNTING | EA 2 |
| C-12 | 18 | PAOZZ | 5935-00-885-2264 | M39012/25- 0006 | 81349 | CAP WITH CHAIN | EA 2 |
| C-12 | 19 | PAOZZ | | M39012/19- 0009 | 81349 | RF COAXIAL CONNECTOR | EA 2 |
| C-12 | 20 | PAOZZ | 6145-00-542-6092 | RG58AU | 80058 | COAXIAL CABLE | EA 1 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|-------------------------|-------|-------------------------------------|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-12 | 21 | PAOZZ | 5940-00-143-4794 | MS25036-112 | 96906 | TERMINAL LUG, RING TONGUE | EA 2 |
| C-12 | 22 | XBOZZ | | M76B | 81349 | WIRE, 12 AWG, MW-C-12-(65)-U5 | EA 1 |
| C-12 | 23 | PAOZZ | 6145-00-577-8452 | 1231 | 92194 | STRAP, FLAT BRAID | FT V |
| C-12 | 24 | PAOZZ | 5940-00-156-1509 | B86 | 59730 | TERMINAL, RING TYPE, NON-INSULATED | EA 2 |
| C-12 | 25 | XBOZZ | | | 81349 | WIRE, BLACK, 16 AWG, TYPE B-16 | FT V |
| C-12 | 26 | PAOZZ | 5970-00-815-1295 | M23053/5-106-0 | 81349 | INSULATION SLEEVING, ELECTRICAL | FT V |
| C-12 | 27 | PAOZZ | 6210-00-079-8943 | LC12GN2 | 81349 | LENS, GREEN | EA 1 |
| C-12 | 28 | PAOZZ | 6240-00-763-7744 | MS25237-387 | 96906 | LAMP, INCANDESCENT | EA 1 |
| C-12 | 29 | PAOZZ | 6210-00-578-6587 | 101-5030-09-201 | 72619 | BASE ASSEMBLY, INDICATOR LIGHT | EA 1 |
| C-12 | 30 | PAOZZ | 5970-00-812-2969 | M23053/5-104-0 | 81349 | INSULATION SLEEVING, ELECTRICAL | FT V |
| C-12 | 31 | XBOZZ | | | 81349 | WIRE, WHITE, 16 AW, TYPE B-16 | FT V |
| C-12 | 32 | XBOZZ | | C0-03L0F (3/14) 0500 | 15942 | CABLE, 3-LEAD, 14 AWG, 0.50 IN DEA. | EA 2 |
| C-12 | 33 | XBOZZ | | | 15942 | TWIST LOCK PLUG | EA 1 |
| C-12 | 34 | PAOZZ | 5935-00-296-8560 | 7545 | 74545 | TWIST LOCK PLUG | EA 1 |
| C-12 | 35 | XBOZZ | | 34312 | 40517 | TERMINAL LUG, SLOTTED, TONGUE HOOK | EA 3 |
| C-12 | 36 | PAOZZ | 6145-00-295-0815 | MWC-16-(19) U2 | 81349 | WIRE, RED, 16 AWG | EA 1 |
| C-12 | 37 | PAOZZ | 6145-00-164-7006 | MWC-16-(19) U9 | 81349 | WIRE, WHITE, 16 AWG | EA 1 |

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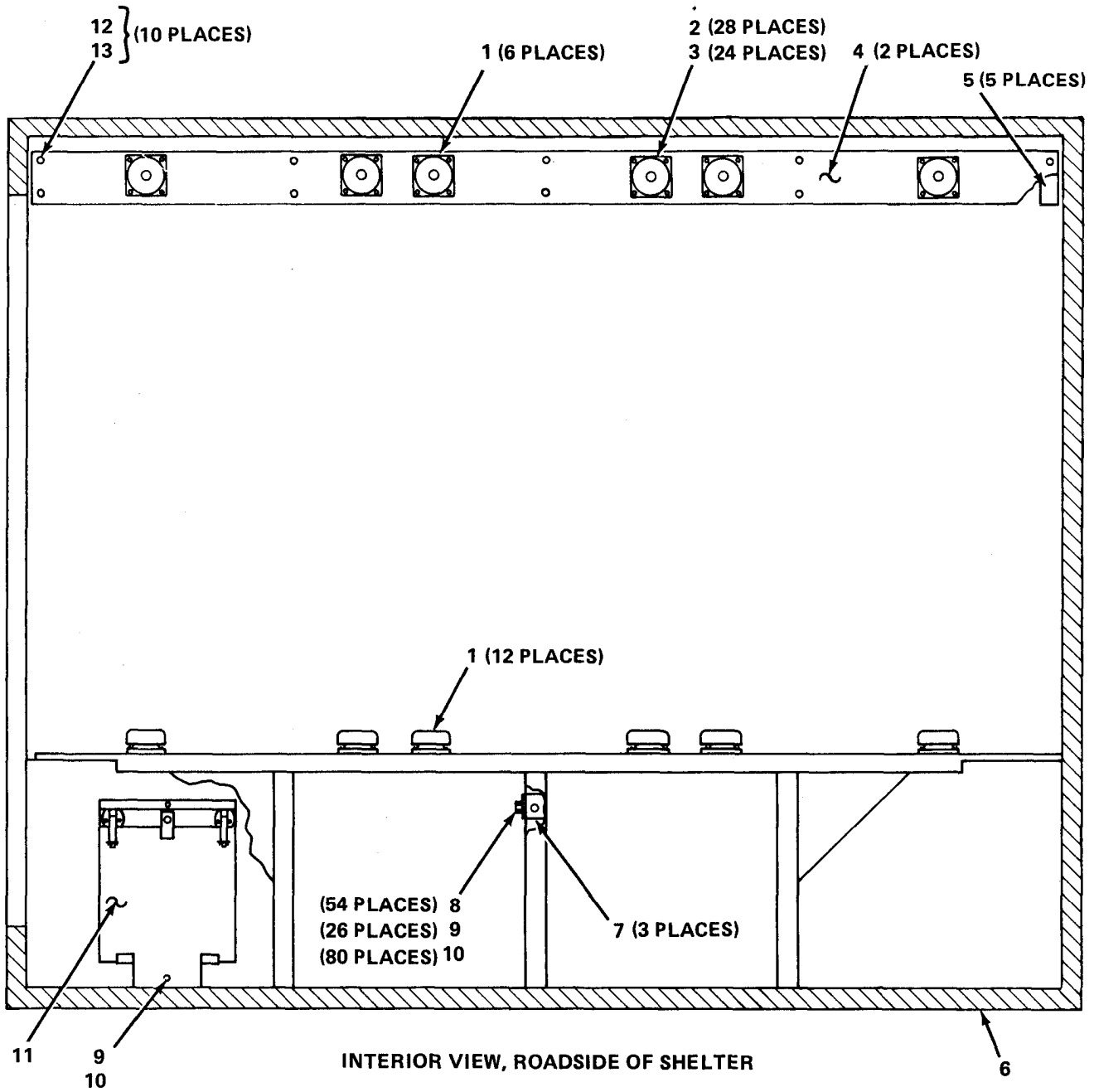
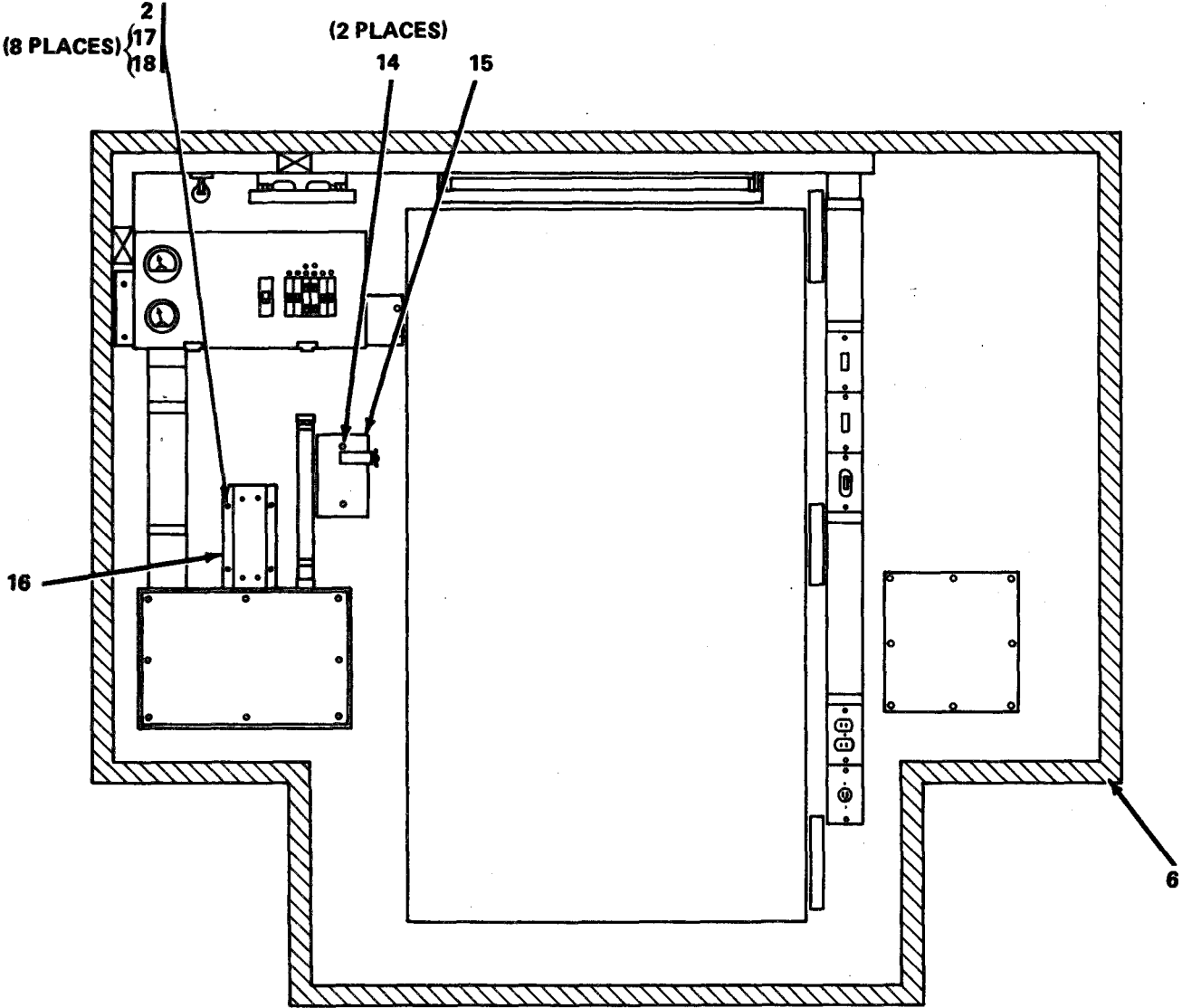
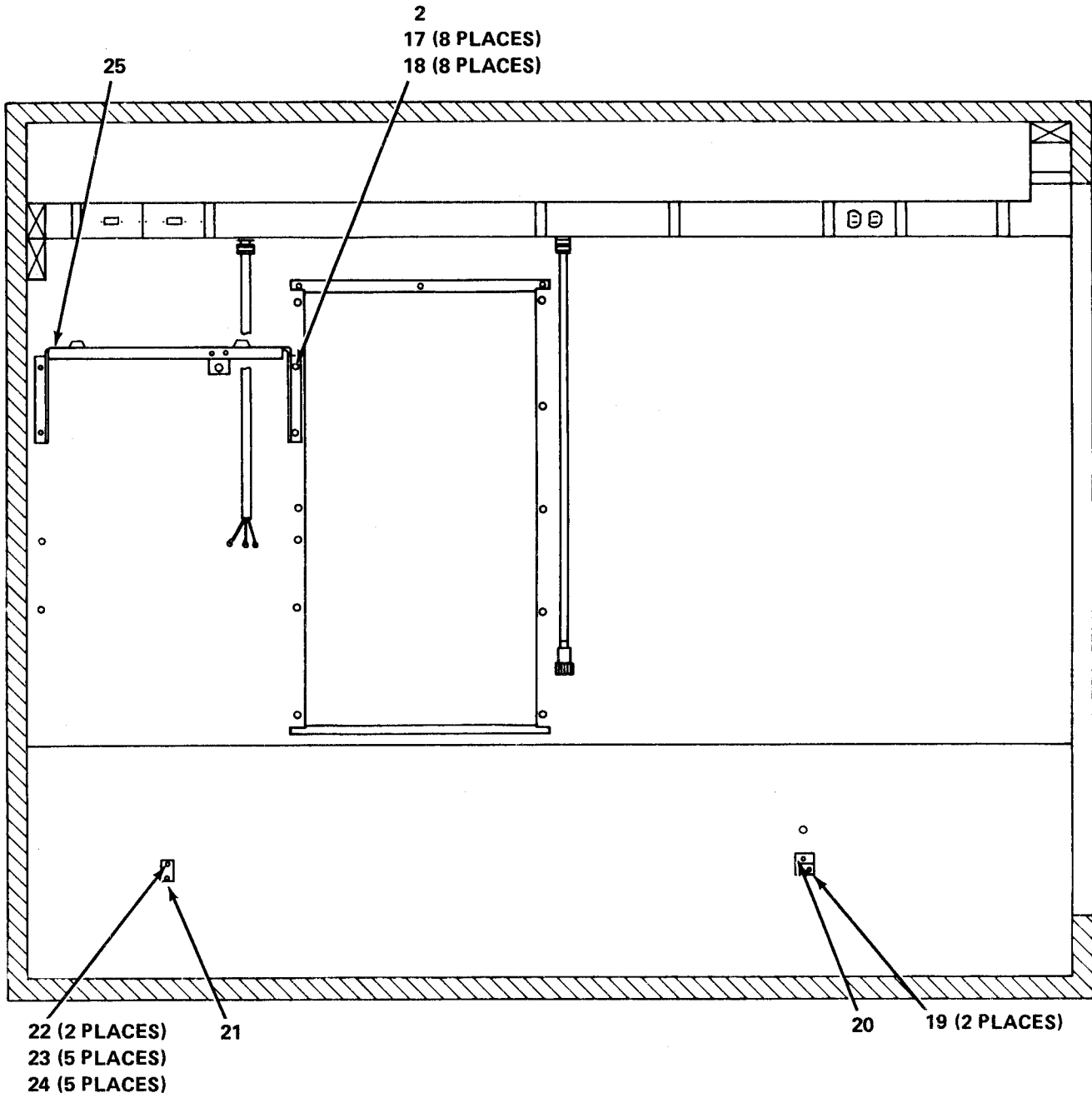


Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 1 of 5)



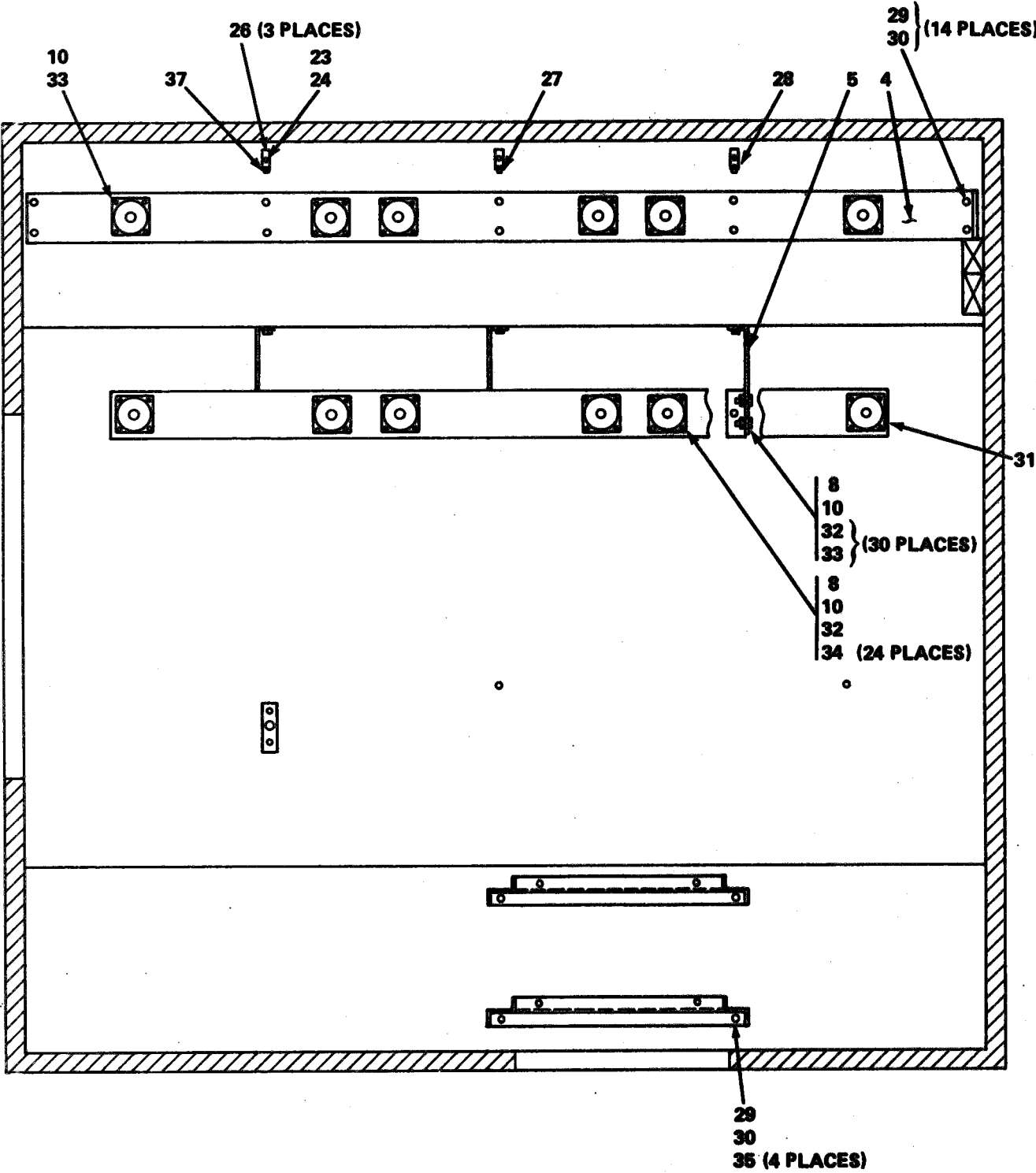
INTERIOR VIEW, REAR OF SHELTER

Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 2 of 5)



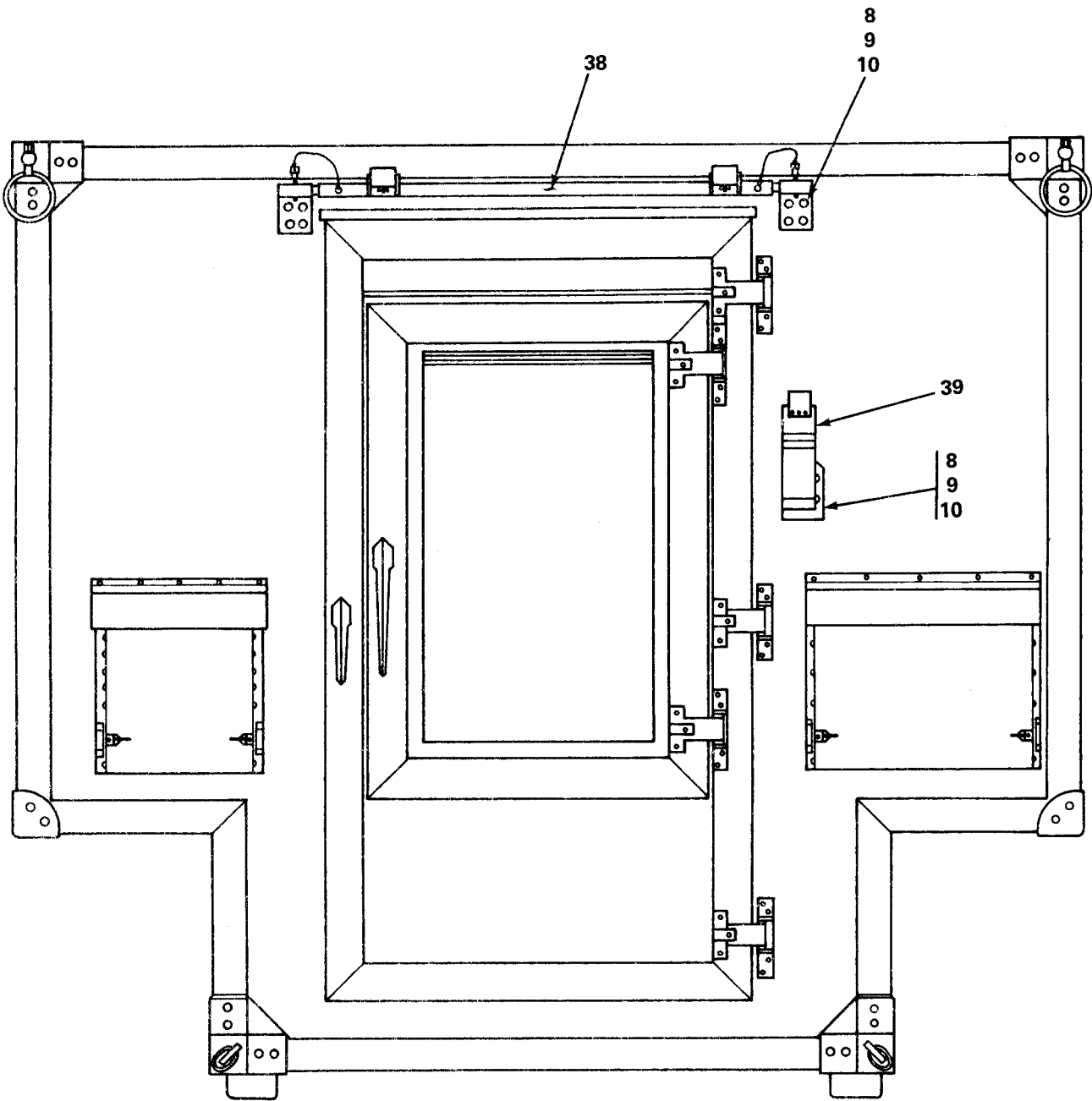
INTERIOR VIEW, CURBSIDE OF SHELTER

Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 3 of 5)



FLOOR PLAN

Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 4 of 5)



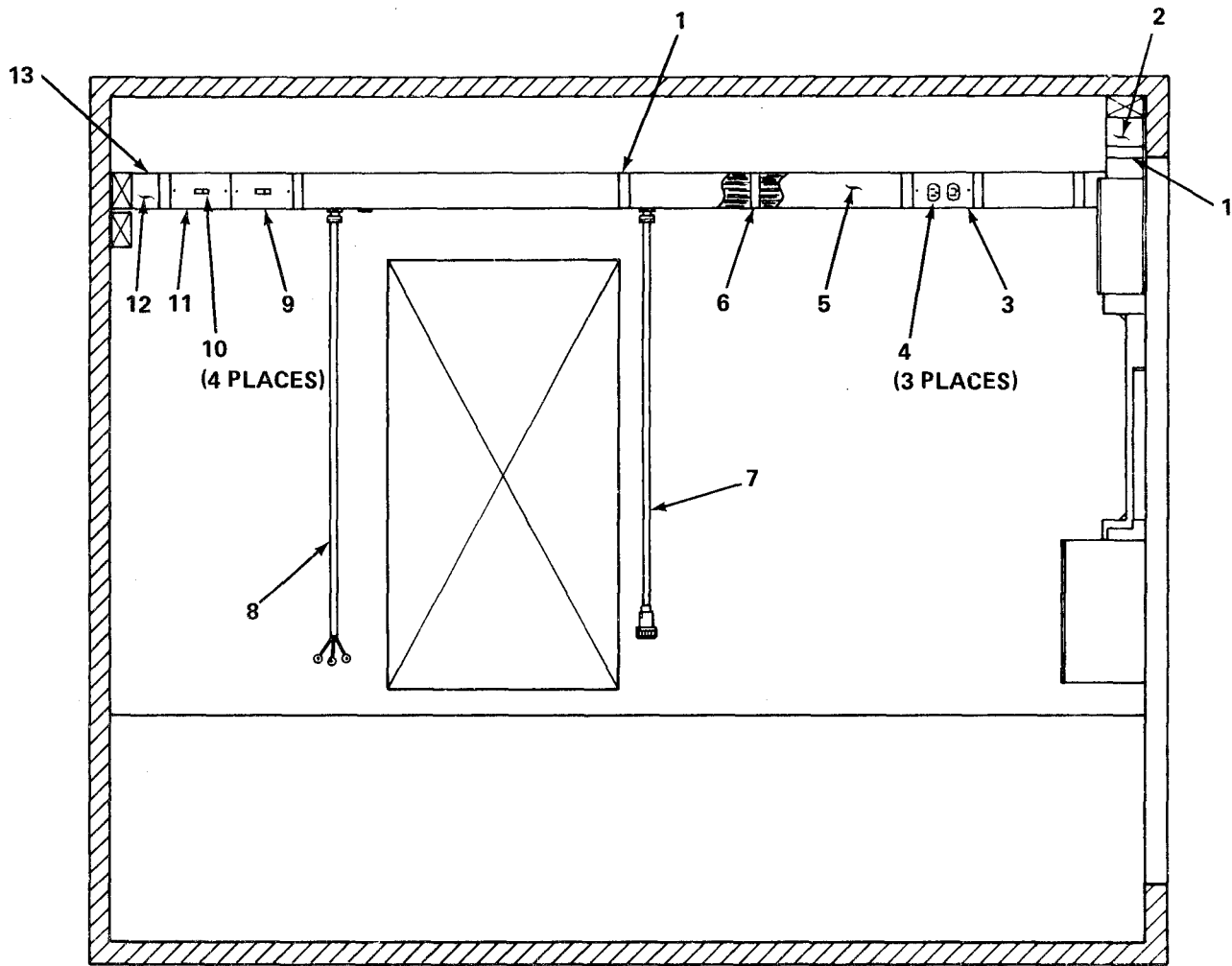
EXTERIOR VIEW, REAR OF SHELTER

Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 5 of 5)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP: 07 BRACKET INSTAL- LATION | |
| C-13 | 1 | PAFZZ | 5340-00-597-6190 | C-2090-T6 | 81860 | CUPMOUNT ISOLATOR | EA 18 |
| C-13 | 2 | PAFZZ | 5310-00-582-5965 | MS35338-44 | 96906 | LOCKWASHER, SPLIT, STL 1/4 | EA 28 |
| C-13 | 3 | PAFZZ | 5305-00-068-0502 | MS90725-6 | 96906 | CAPSCREW, HEX HEAD, STL 1/4-20X3/4 | EA 24 |
| C-13 | 4 | XCOOO | | 0188-2-4068 | 15942 | BASE, ELECTRICAL EQUIPMENT RACK (INNER) | EA 2 |
| C-13 | 5 | XCOOO | | 0188-2-2075 | 15942 | SPACER, RACK | EA 5 |
| C-13 | 6 | XCFFF | | 0188-2-4003 | 15942 | ELECTRICAL UTILITIES INSTAL- LATION (REFER TO FIGURE C-14) | EA 1 |
| C-13 | 7 | XCFZZ | | 0188-2-2077 | 15942 | BRACKET ANGLE, RACK | EA 3 |
| C-13 | 8 | PAFZZ | 5310-00-582-5677 | MS15795-810 | 96906 | WASHER, FLAT, CRES, 1/4 | EA 54 |
| C-13 | 9 | PAFZZ | 5305-00-021-3668 | MS35307-310 | 96906 | CAPSCREW, HEX HEAD, CRES, 1/4-20X1 1/4 | EA 26 |
| C-13 | 10 | PAFZZ | 5310-00-933-8121 | MS35338-139 | 96906 | LOCKWASHER, SPLIT, CRES, 1/4 | EA 80 |
| C-13 | 11 | XCOOO | | 0188-2-4064 | 15942 | WASTEBASKET HOLDER ASSEMBLY (REF TO FIGURE C-15) | EA 1 |
| C-13 | 12 | PAFZZ | 5310-00-637-9541 | MS35338-46 | 96906 | LOCKWASHER, SPLIT, STL 3/8 | EA 10 |
| C-13 | 13 | PAFZZ | 5305-00-269-3224 | MS90725-74 | 96906 | CAPSCREW, HEX, HEAD, STL 3/8-16X4 | EA 10 |
| C-13 | 14 | PAFZZ | 5305-00-719-5003 | MS51959-84 | 96906 | MACHINE SCREW, CSK HEAD, CRES, 1/4-20X1 1/4 | EA 2 |
| C-13 | 15 | XCOOO | | 0188-2-4006 | 15942 | TELEPHONE BRACKET ASSEMBLY (REFER TO FIGURE C-16) | EA 1 |
| C-13 | 16 | XCOOO | | 0188-2-4089 | 15942 | FIRE EXTINGUISHER MOUNTING BRACKET ASSEMBLY (REFER TO FIGURE C-17) | EA 1 |
| C-13 | 17 | PAFZZ | 5310-00-809-4058 | MS27183-10 | 96906 | WASHER, FLAT, ROUND, STL 1/4 | EA 8 |
| C-13 | 18 | PAFZZ | 5305-00-071-2241 | MS90725-10 | 96906 | CAPSCREW, HEX HEAD, STL 1/4-20X1 1/4 | EA 8 |
| C-13 | 19 | PAFZZ | 5305-00-071-1324 | MS51960-67 | 96906 | MACHINE SCREW, CSK HEAD, CRES, 10-32X3/4 | EA 2 |

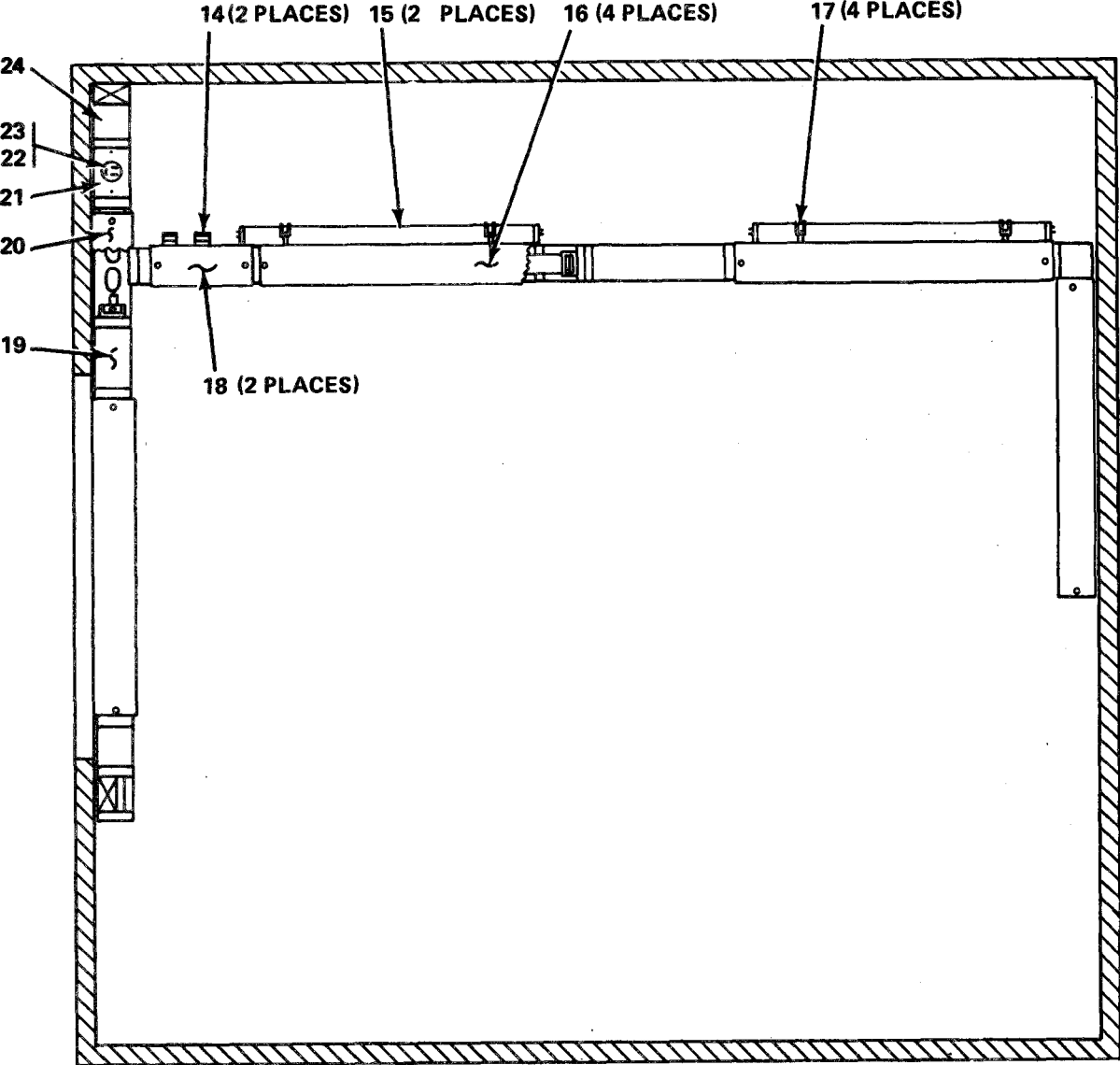
| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-13 | 20 | XCOOO | | 0188-2-3116 | 15942 | GROUND ROD BRACKET ASSEMBLY (REFER TO FIGURE (C-18) | EA 1 |
| C-13 | 21 | XCOZZ | | 0188-2-2076 | 15942 | GROUND ROD BRACKET ANGLE | EA 1 |
| C-13 | 22 | PAFZZ | 5310-00-773-7618 | MS15795-814 | 96906 | WASHER, FLAT, CRES, #10 | EA 2 |
| C-13 | 23 | PAFZZ | 5305-00-993-1848 | MS35207-265 | 96906 | MACHINE SCREW, PAN HEAD, STL #10-32X3/4 | EA 5 |
| C-13 | 24 | PAFZZ | 5310-00-869-9576 | MS35338-157 | 96906 | LOCKWASHER, SPLIT, CRES, #10 | EA 5 |
| C-13 | 25 | XCFFF | | 0188-2-4067 | 15942 | POWER SUPPLY SHELF ASSEMBLY (REFER TO FIGURE (C-19) | EA 1 |
| C-13 | 26 | PAOZZ | 5340-00-774-7182 | C3 | 06229 | CRADLE | EA 3 |
| C-13 | 27 | PAOZZ | 5975-00-473-5595 | N5 | 06229 | CLIP | EA 1 |
| C-13 | 28 | PAOZZ | 5340-00-592-7996 | N7 | 06229 | CLIP | EA 1 |
| C-13 | 29 | PAFZZ | 5305-00-717-5467 | MS35307-362 | 96906 | CAPSCREW, HEX HEAD, CRES, 3/16-16X1 1/4 | EA 14 |
| C-13 | 30 | PAFZZ | 5310-00-947-7042 | MS35338-141 | 96906 | LOCKWASHER, SPLIT, CRES, 3/8 | EA 14 |
| C-13 | 31 | XCFFF | | 0188-2-4065 | 15942 | BASE, ELECTRICAL EQUIPMENT RACK, (OUTER) | EA 1 |
| C-13 | 32 | PAFZZ | 5310-00-250-9477 | MS35649-2254 | 96906 | NUT, PLAIN, HEX, CRES, 1/4-20 | EA 30 |
| C-13 | 33 | PAFZZ | 5305-00-702-4523 | MS35307-306 | 96906 | CAPSCREW, HEX HEAD, CRES, 1/4-20X3/4 | EA 30 |
| C-13 | 34 | PAFZZ | 5305-00-207-8253 | MS35307-308 | 96906 | CAPSCREW, HEX HEAD, CRES, 1/4-20X1 | EA 24 |
| C-13 | 35 | PAFZZ | 5310-00-774-7618 | MS15795-814 | 96906 | WASHER, FLAT, CRES, 3/8 | EA 4 |
| C-13 | 36 | XCFZZ | | 0188-2-3115 | 15942 | ZEE BRACKET, AIR CONDI- TIONER | EA 2 |
| C-13 | 37 | PAOZZ | 5975-00-705-5841 | N3 | 06229 | CLIP | EA 1 |
| C-13 | 38 | XCOOO | | 0188-2-4049 | 15942 | LADDER BRACKET ASSEMBLY (TOP) | EA 1 |
| C-13 | 39 | XCOOO | | 0188-2-4026 | 15942 | LADDER SUPPORT ASSEMBLY | EA 1 |

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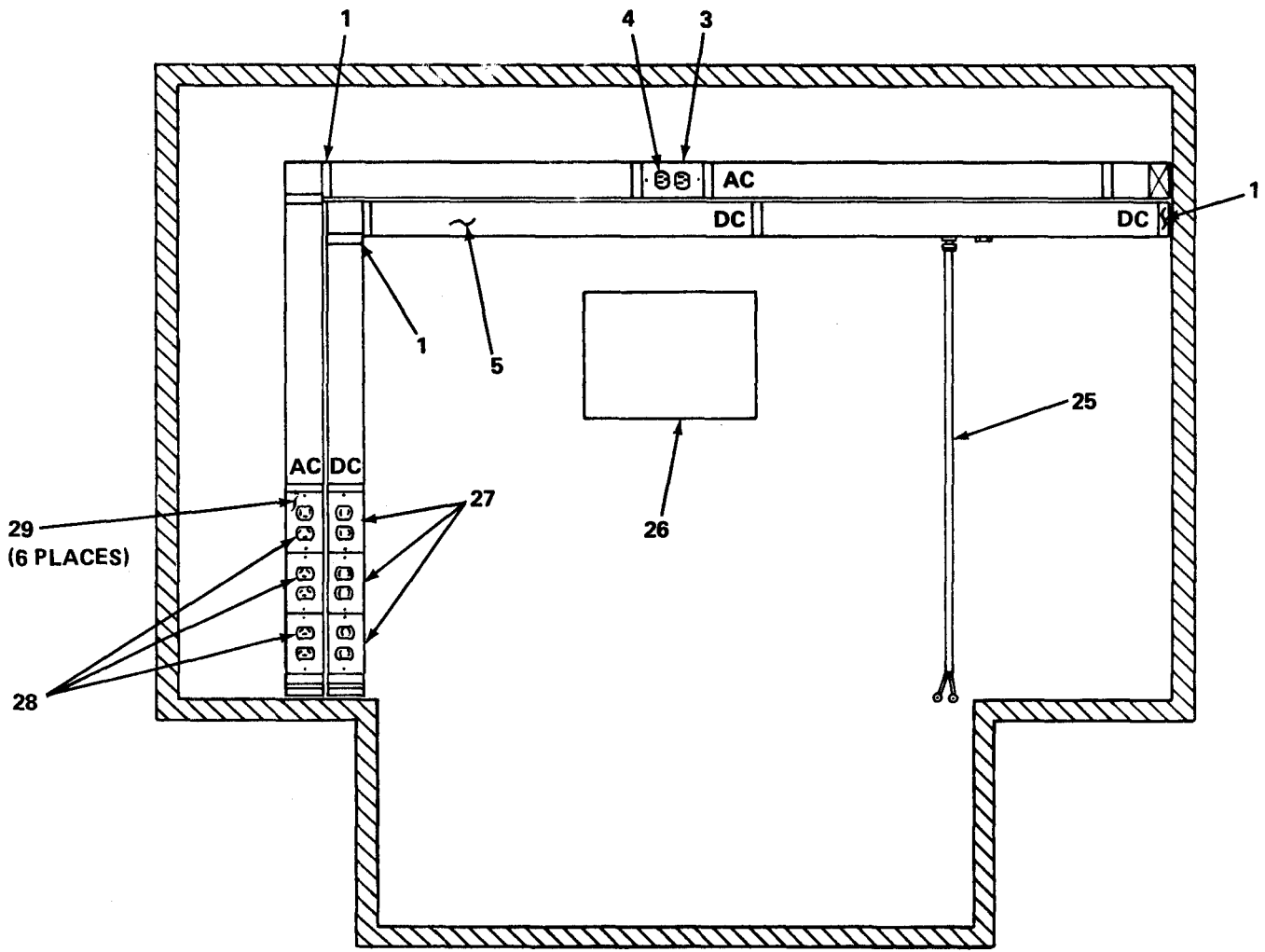
INTERIOR VIEW, CURBSIDE OF SHELTER

Figure C-14. Electrical Utilities Installation (Sheet 1 of 5)



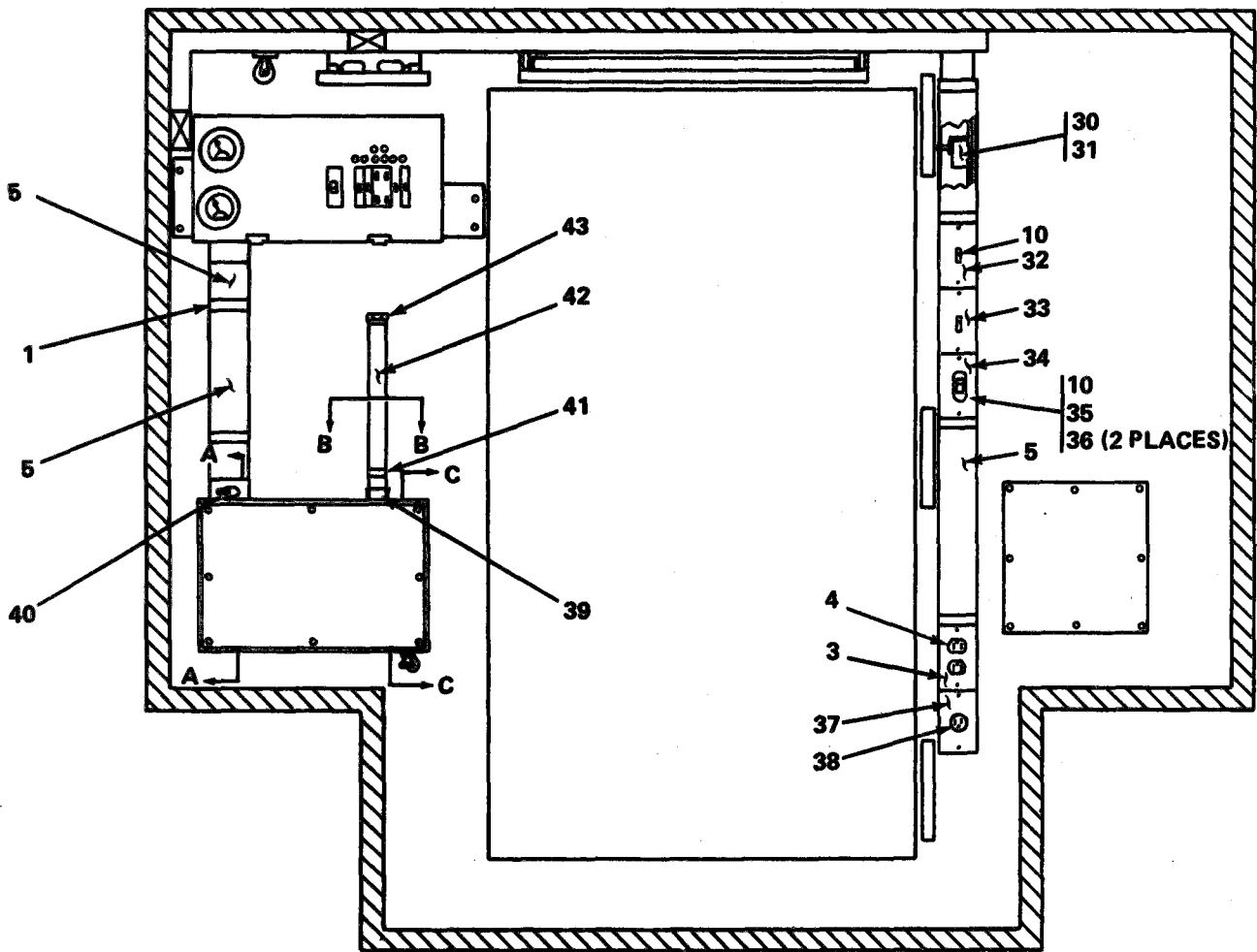
INTERIOR VIEW, CEILING OF SHELTER

Figure C-14. Electrical Utilities Installation (Sheet 2 of 5)



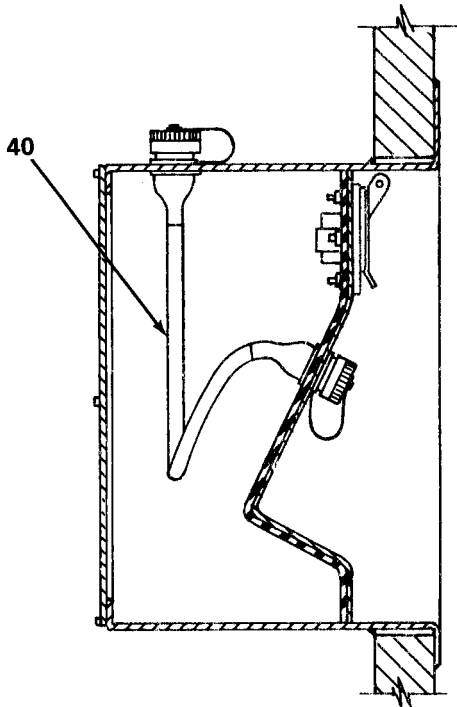
INTERIOR VIEW, FRONT OF SHELTER

Figure C-14. Electrical Utilities Installation (Sheet 3 Of 5)

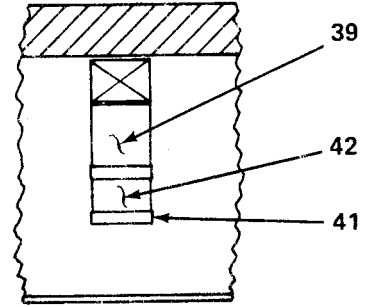


INTERIOR VIEW, REAR OF SHELTER

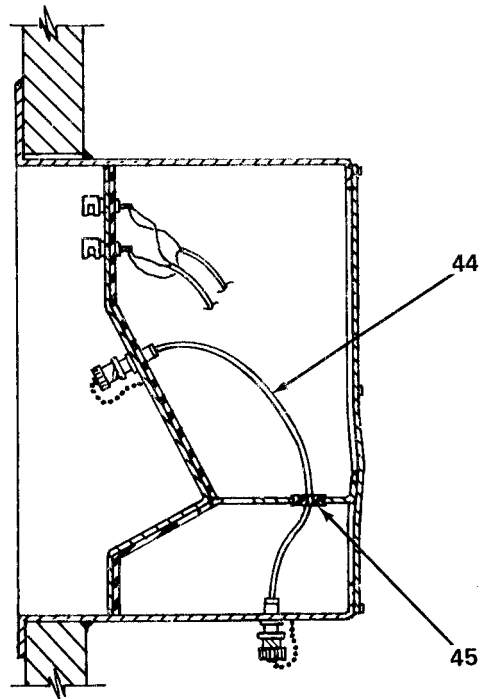
Figure C-14. Electrical Utilities Installation (Sheet 4 of 5)



VIEW A-A



VIEW B-B



VIEW C-C

Figure C-14. Electrical Utilities Installation (Sheet 5 of 5)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP: 0701 ELECTRICAL UTILITIES INSTAL- LATION | |
| C-14 | 1 | XCFZZ | | 0188-2-2062-1 | 15942 | COVER CLIP | EA V |
| C-14 | 2 | XCFZZ | | 0188-2-3026-1 | 15942 | INTERNAL CORNER COVER | EA 1 |
| C-14 | 3 | XCFZZ | | 0188-2-3091-1 | 15942 | COVER, RECEPTACLE, DUPLEX | EA 1 |
| C-14 | 4 | XBFZZ | | | 81349 | RECEPTACLE, DUPLEX, STYLE D3 | EA 3 |
| C-14 | 5 | XCFZZ | | 0188-2-3102-1 | 15942 | RACEWAY COVER (GREEN) | FT V |
| C-14 | 6 | PAOZZ | 5975-00-979-6528 | 3000WC | 79725 | WIRE CLIP | EA V |
| C-14 | 7 | XCFFF | | 0188-2-4079 | 15942 | POWER CABLE ASSEMBLY, AIR CONDITIONER (REFER TO FIGURE C-12C) | EA 1 |
| C-14 | 8 | XCOOO | | 0188-2-4080-2 | 15942 | POWER SUPPLY CABLE ASSEMBLY (REFER TO FIGURE C-12D) | EA 1 |
| C-14 | 9 | XCFZZ | | 0188-2-4060-2 | 15942 | SWITCH COVER | EA 1 |
| C-14 | 10 | XCOZZ | | | 81349 | TOGGLE SWITCH, CL1, DESIGN A, TYPE 1 | EA 4 |
| C-14 | 11 | XCOZZ | | 0188-2-4060-1 | 15942 | SWITCH COVER | EA 1 |
| C-14 | 12 | XCFZZ | | 0188-2-3026-3 | 15942 | INTERNAL CORNER COVER | EA 1 |
| C-14 | 13 | XCOOO | | 0188-2-4002 | 15942 | UTILITIES RACEWAY INSTAL- LATION (REFER TO FIGURE C-6) | EA 1 |
| C-14 | 14 | XCOZZ | | 0188-2-2061 | 15942 | STARTER, FLUORESCENT | EA 2 |
| C-14 | 15 | XCOZZ | | 0188-2-3087 | 15942 | LAMP, FLUORESCENT | EA 2 |
| C-14 | 16 | XCFFF | | 0188-2-4063 | 15942 | FLUORESCENT LAMP INSTALLA- TION | EA 4 |
| C-14 | 17 | XCOZZ | | 0188-2-3088 | 15942 | CLIP | EA 4 |
| C-14 | 18 | XCFFF | | 0188-2-4070 | 15942 | BLACKOUT LIGHT ASSEMBLY (REFER TO FIGURE C-20) | EA 2 |
| C-14 | 19 | XCFZZ | | 0188-2-3102-2 | 15942 | RACEWAY COVER (WHITE) | FT V |
| C-14 | 20 | XCFFF | | 0188-2-4061 | 15942 | INDANDESCENT LAMP ASSEMBLY (REFER TO FIGURE C-21) | EA 1 |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-14 | 21 | XCOOO | | 0188-2-2065 | 15942 | POWER INDICATOR COVER | EA 1 |
| C-14 | 22 | PAOZZ | 6240-00-635-9753 | M15098/3-002 | 81349 | LAMP, GLOW | EA 1 |
| C-14 | 23 | XBOZZ | | | 81349 | LAMPHOLDER, TYPE VII-4 | EA 1 |
| C-14 | 24 | XCFZZ | | 0188-2-2062-2 | 15942 | COVER CLIP | EA V |
| C-14 | 25 | XCOOO | | 0188-2-4081-2 | 15942 | POWER SUPPLY CABLE ASSEMBLY (REFER TO FIGURE C-12E) | EA 1 |
| C-14 | 26 | XCOZZ | | 0188-2-4076 | 15942 | POWER SCHEMATIC INFORMA- TION PLATE | EA 1 |
| C-14 | 27 | XBOZZ | | | 81348 | RECEPTACLE, DUPLEX, TWIST- LOCK, STYLE B5 | EA 3 |
| C-14 | 28 | PAOZZ | 5935-00-847-7631 | 4700 | 74545 | RECEPTACLE, DUPLEX, TWIST- LOCK | EA 3 |
| C-14 | 29 | XCOZZ | | 0188-2-3091-2 | 15942 | DUPLEX RECEPTACLE COVER | EA 6 |
| C-14 | 30 | PAOZZ | 5930-00-683-2703 | BZ2RQ18A2 | 91929 | MICROSWITCH, DOOR INTER- LOCK | EA 1 |
| C-14 | 31 | XCOZZ | | 0188-2-2001 | 15942 | MICROSWITCH BRACKET | EA 1 |
| C-14 | 32 | XCOZZ | | 0188-2-4060-3 | 15942 | SWITCH COVER | EA 1 |
| C-14 | 33 | XCOZZ | | 0188-2-4060-4 | 15942 | SWITCH COVER | EA 1 |
| C-14 | 34 | XCOZZ | | 0188-2-4060-5 | 15942 | SWITCH COVER | EA 1 |
| C-14 | 35 | XCOZZ | | 0188-2-2063 | 15942 | SWITCH GUARD | EA 1 |
| C-14 | 36 | PAOZZ | 5305-00-984-4984 | MS35206-227 | 96906 | MACHINE SCREW, PAN HEAD, #6-32X3/8 | EA 2 |
| C-14 | 37 | XCOZZ | | 0188-2-2064 | 15942 | HEATER PLUG COVER | EA 1 |
| C-14 | 38 | XBOZZ | | | 81349 | RECEPTACLE, SINGLE, STYLE D2 | EA 1 |
| C-14 | 39 | XCFZZ | | 0188-2-3043-1 | 15942 | INTERNAL CORNER COVER | EA 1 |
| C-14 | 40 | XCOOO | | 0188-2-4047 | 15942 | CABLE ASSEMBLY, ANTENNA CONTROL (REFER TO FIGURE C-12 F) | EA 1 |
| C-14 | 41 | XCOZZ | | 0188-2-2060-1 | 15942 | COVER CLIP | EA V |
| C-14 | 42 | XCFZZ | | 0188-2-3021-1 | 15942 | RACEWAY COVER | FT V |

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| C-14 | 43 | XBFZZ | | X-4727 | 70485 | "U" CHANEL, EXTRUDED | EA 1 |
| C-14 | 44 | XCOOO | | 0188-2-4058 | 15942 | RF CABLE ASSEMBLY (REFER TO FIGURE C-12G) | EA 1 |
| C-14 | 45 | PAFZZ | 5325-01-024-4930 | MS21266-2N | 96906 | GORMMET, PLASTIC, EDGING | FT V |

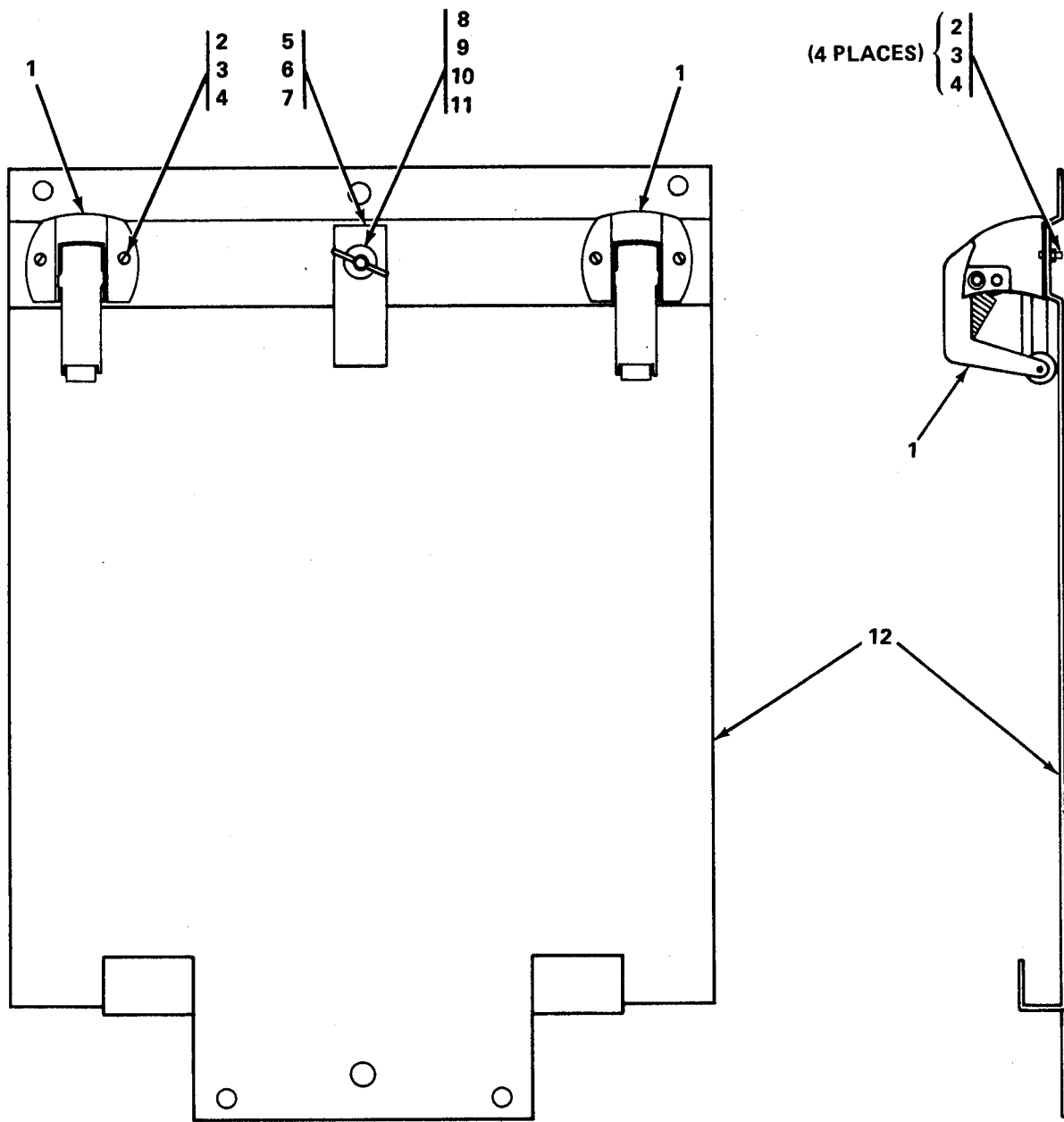


Figure C-15. Wastebasket Holder Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|-----------------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 0702 WASTEBASKET HOLDER ASSEMBLY | |
| C-15 | 1 | PAOZZ | | 210K | 14557 | CATCH | EA 2 |
| C-15 | 2 | PAOZZ | 5310-00-925-9646 | MS21083-C06 | 96906 | NUT, HEX, #6-32UNC | EA 4 |
| C-15 | 3 | PAOZZ | 5310-00-082-1404 | MS27183-6 | 96906 | WASHER, FLAT, #6 | EA 4 |
| C-15 | 4 | PAOZZ | 5305-00-984-4983 | MS35206-226 | 96906 | SCREW, PAN HEAD, #6-32UNCX 1/4 | EA 4 |
| C-15 | 5 | XCOOO | | 0188-2-3114-1 | 15942 | CLAMP | EA 1 |
| C-15 | 6 | PAOZZ | | MIL-R-6130 | 81348 | CUSHION, BLACK, 2X3/4X1/8, TYPE II, GRADE A | EA 1 |
| C-15 | 7 | PAOZZ | 8040-00-664-0439 | 299-947-107 TY2CL5 | 97499 | ADHESIVE | OZ V |
| C-15 | 8 | PAOZZ | 5310-00-045-3296 | MS35338-43 | 96906 | LOCKWASHER, SPLIT, #10 | EA 1 |
| C-15 | 9 | PAOZZ | 5310-00-720-8549 | MS35426-13 | 96906 | WINGNUT, #10-32UNF-2B | EA 1 |
| C-15 | 10 | PAOZZ | 5310-00-014-5850 | MS27183-42 | 96906 | WASHER, FLAT, #10 | EA 1 |
| C-15 | 11 | PAOZZ | 5307-00-435-2094 | FHS032-12 | 46384 | CLINCH STUD, #10-32UNFX 3/4 | EA 1 |
| C-15 | 12 | XCOOO | | 0188-2-4066-1 | 15942 | PLATE | EA 1 |

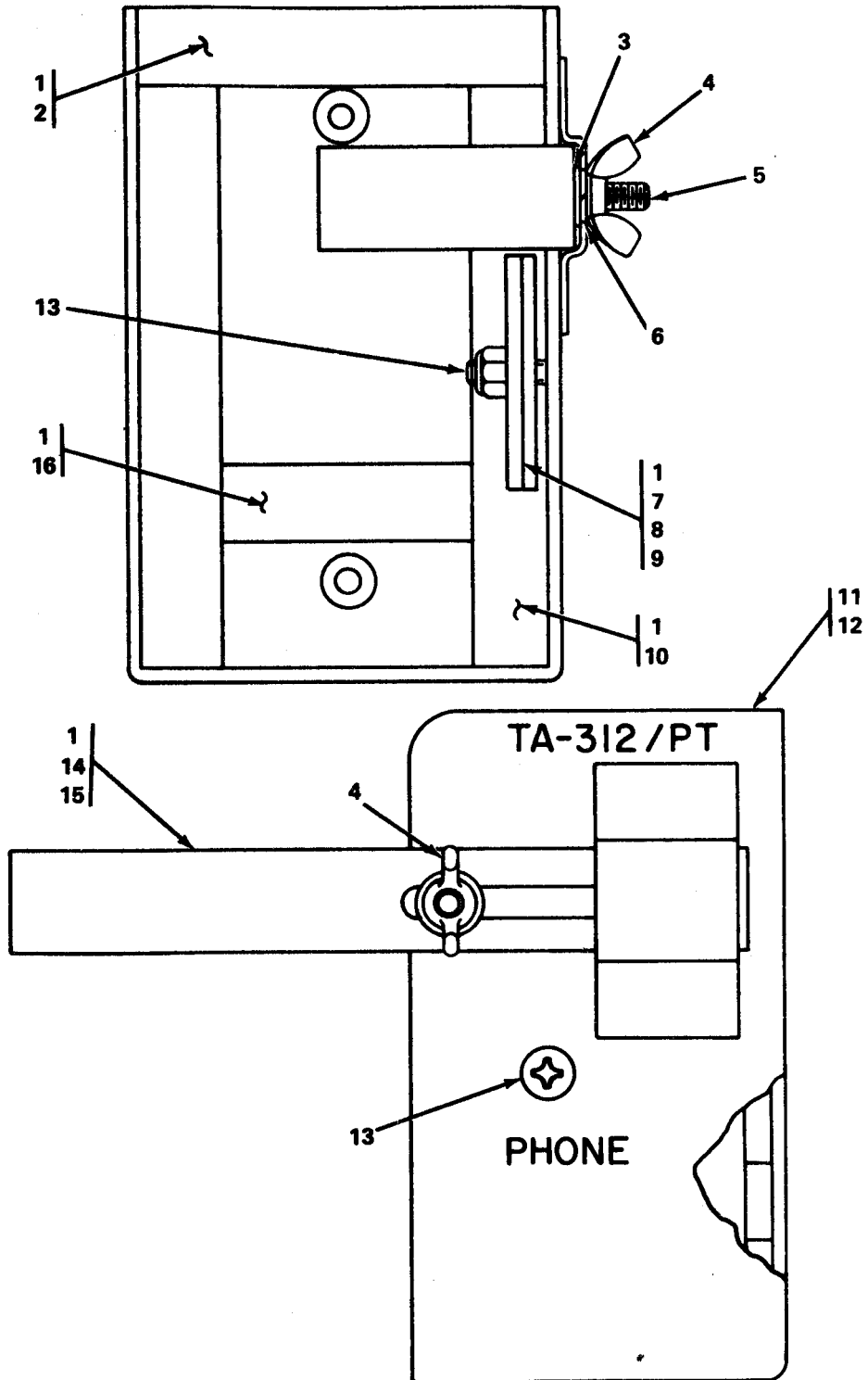


Figure C-16. Telephone Bracket Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|-----------------------|-------|--|-------------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP: 0703 TELEPHONE BRACKET ASSEMBLY | |
| C-16 | 1 | PAOZZ | 8040-00-664-0439 | 299-947-107 TY2CL5 | 97499 | ADHESIVE | OZ V |
| C-16 | 2 | XCOZZ | | 0188-2-4006-3 | 15942 | CUSHION, 3-7/8X3/4X1/4, BLACK, TYPE II, GRADE A, MIL-R-6130 | EA 1 |
| C-15 | 3 | PAOZZ | 5310-00-582-5677 | MS15795-810 | 96906 | WASHER, FLAT | EA 1 |
| C-16 | 4 | PAOZZ | 5310-00-080-8495 | MS35425-39 | 96906 | WING NUT | EA 1 |
| C-16 | 5 | PAOZZ | 5307-00-006-8449 | FHS0420-14 | 46384 | STUD, SELF-CLINCHING, 1/4X20UNC-2A | EA 1 |
| C-16 | 6 | PAOZZ | 5310-00-933-8121 | MS35338-139 | 96906 | LOCKWASHER | EA 1 |
| C-16 | 7 | XCOZZ | | 0188-2-2004 | 15942 | CUSHION, 1-3/8X2-1/4X1/8, SYNTHETIC RUBBER, TYPE II. GRADE A, MIL-R-6130 | EA 1 |
| C-16 | 8 | XBOZZ | | M45938/8-7C | 81349 | NUT, CLINCH, SELF-LOCKING | EA 1 |
| C-16 | 9 | XCOZZ | | 0188-2-2003-1 | 15942 | PLATE | EA 1 |
| C-16 | 10 | XCOZZ | | 0188-2-4006-1 | 15942 | CUSHION, 5-5/8X3/4X1/4, BLACK, TYPE II, GRADE A, MIL-R-6130 | EA 1 |
| C-16 | 11 | XCOZZ | | 0188-2-2005 | 15942 | GUIDE | EA 1 |
| C-16 | 12 | XCOOO | | 0188-2-3001-1 | 15942 | FRAME | EA 1 |
| C-16 | 13 | PAOZZ | 5305-00-719-5017 | MS51959-82 | 96906 | SCREW, FLAT, COUNTERSUNK. 1/4-20UNCX 7/8 | EA 1 |
| C-16 | 14 | XCOZZ | | 0188-2-2006-2 | 15942 | CUSHION, 2-3/16X1X1/4, BLACK, TYPE II, GRADE A, MIL-R-6130 | EA 1 |
| C-16 | 15 | XCOZZ | | 0188-2-2006-1 | 15942 | CLAMP | EA 1 |
| C-16 | 16 | XCOZZ | | 0188-2-4006-2 | 15942 | CUSHION, 2-3/8X3/4X1/4, BLACK, TYPE II, GRADE A, MIL-R-6130 | EA 1 |

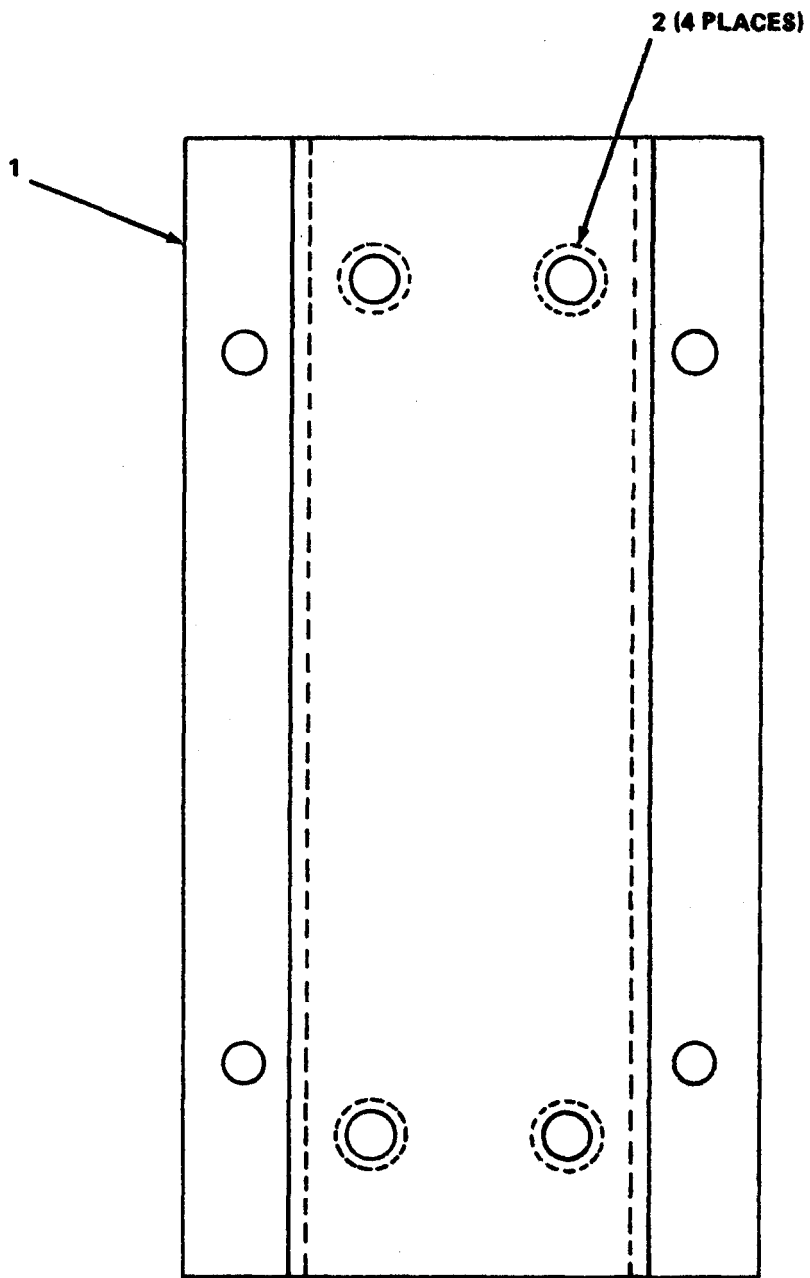


Figure C-17. Fire Extinguisher Mounting Bracket Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | TM32-5410-001-24&P (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|---------------------------|---|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP :0704 FIRE EXTINGUISHER MOUNTING BRACKET ASSEMBLY | |
| C-17 | 1 | XCOOO | | 0188-2-4089-1 | 15942 | BRACKET | EA 1 |
| C-17 | 2 | PAOZZ | | M45938/8-6 | 81349 | NUT, CLINCH, SLEF-LOCKING, 1/4-20UNC | EA 4 |

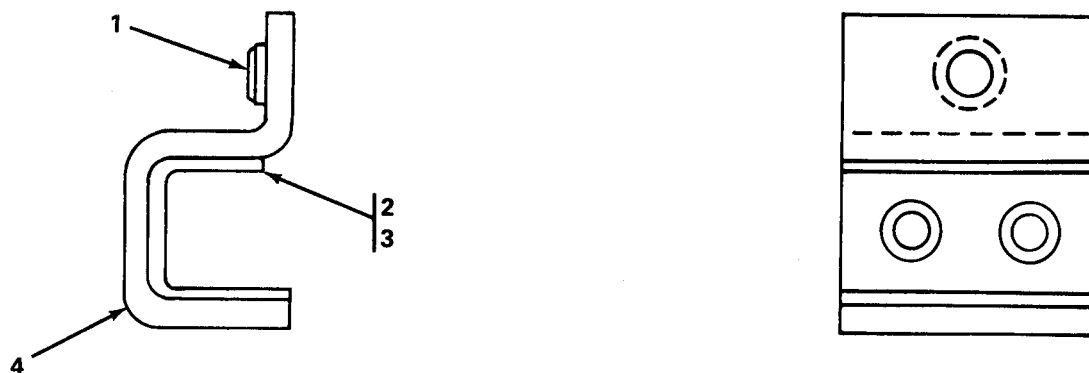


Figure C-18. Ground Rod Bracket Assembly

| (1) ILLUSTRATION | | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) PART NUMBER | (5) FSCM | (6) DESCRIPTION | (7) U/M | (8) QTY INC IN INIT |
|---------------------|--------------------|--------------------|------------------------------------|-----------------------|-------------|--|------------|---------------------------------|
| (a) FIG NO. | (b) ITEM NO. | | | | | <i>Usable On Code</i> | | |
| C-18 | 1 | PAOZZ | 5310-00-567-4992 | M45938/1-17C | 81349 | GROUP: 0705 GROUND ROD BRACKET ASSEMBLY NUT, SELF CLINCHING | EA | 1 |
| C-18 | 2 | XCOZZ | | 0188-2-3116-2 | 15942 | SILICONE RUBBER, SPONGE, CLOSED CELL, 1-3/8x 1-7/8x 1/16, BLACK, GRADE M, MIL-R-46089 | EA | 1 |
| C-18 | 3 | PAOZZ | 8040-00-728-3088 | MIL-A-46 106 | 81349 | SILICONE ADHESIVE SEALANT TYPE I | OZ | V |
| C-18 | 4 | XCOOQ | | 0188-2-3116-1 | 15942 | BRACKET | EA | 1 |

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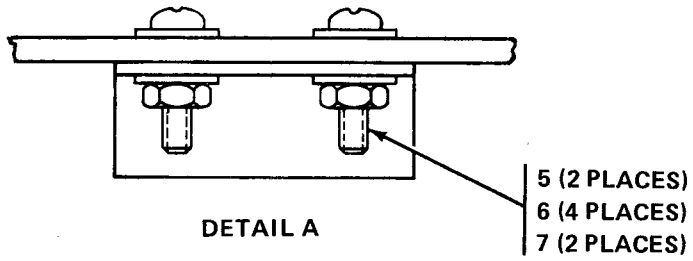
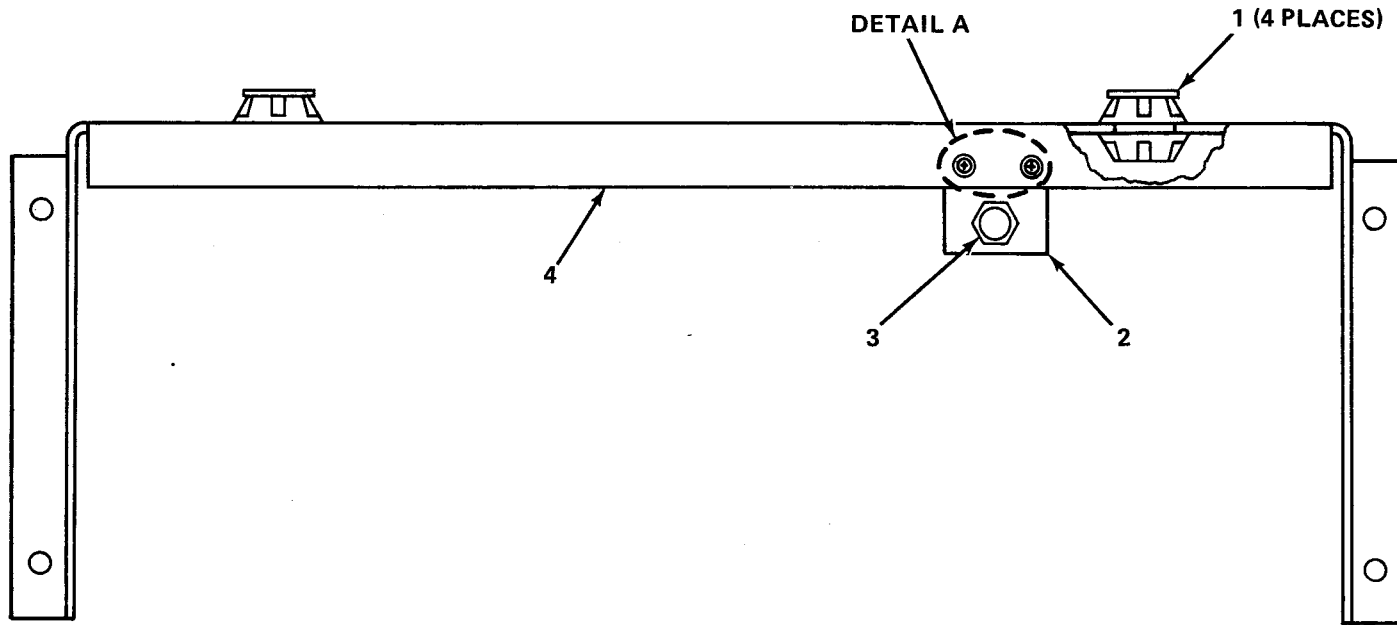


Figure C-19. PXS-EE-28VF Power Supply Shelf Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|-------------------|-------|---|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 0706 PXS-EE-28VF POWER SUPPLY SHELF ASSEMBLY | |
| C-19 | 1 | XBOZZ | | H5210 | 81860 | ISOLATOR | EA 4 |
| C-19 | 2 | XCOOO | | 0188-2-2014 | 15942 | BRACKET | EA 1 |
| C-19 | 3 | XCOOO | | 0188-2-4078 | 15942 | INDICATOR LIGHT WIRE ASSEMBLY (REFER TO FIGURE C-12J) | EA 1 |
| C-19 | 4 | XCOOO | | 0188-2-4015 | 15942 | SHELF | EA 1 |
| C-19 | 5 | PAOZZ | 5305-00-889-3001 | MS35206-231 | 96906 | MACHINE SCREW, PAN HEAD, #6-32X5/8 | EA 2 |
| C-19 | 6 | PAOZZ | 5310-00-082-1404 | MS27183-6 | 96906 | WASHER, FLAT, #6 | EA 4 |
| C-19 | 7 | PAOZZ | 5310-00-081-8087 | MS21044- NO. 6 | 96906 | NUT, SLEF-LOCKING, #6-32UNC-2B | EA 2 |

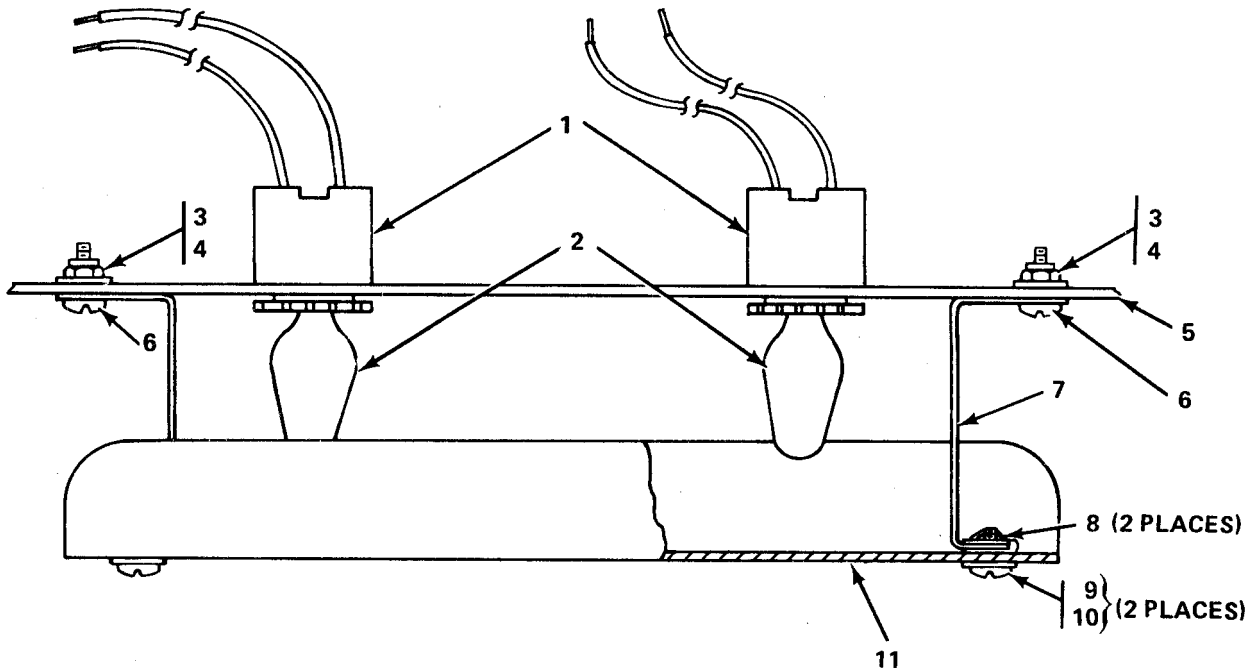


Figure C-20. Blackout Light Assembly

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|--------|--|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION <i>Usable On Code</i> | U/M | QTY INC IN UNIT |
| C-20 | 1 | PAOZZ | 6250-00-762-5134 | 10018 | 75582 | GROUP: 0707 BLACKOUT LIGHT ASSEMBLY | EA | 2 |
| C-20 | 2 | PAOZZ | 6240-00-944-2338 | 7C7B | 24446 | LAMP, 7 WATT | EA | 2 |
| C-20 | 3 | PAOZZ | 5310-00-274-8884 | MS20365-632 | 96906 | NUT, SELF-LOCKING #6-32 UNC-3B | EA | 2 |
| C-20 | 4 | PAOZZ | 5310-00-082-1404 | MS27183-6 | 96906 | WASHER, FLAT, ROUND #6 | EA | 2 |
| C-20 | 5 | XCOZZ | | 0188-2-3120 | 15942 | RACEWAY COVER | EA | 1 |
| C-20 | 6 | PAOZZ | 5305-00-984-4988 | MS35 206-228 | 96906 | MACHINE SCREW, PAN HEAD #6-32UNC | EA | 2 |
| C-20 | 7 | XCOZZ | | 0188-2-3097 | 15942 | STANDOFF | EA | 2 |
| C-20 | 8 | PAOZZ | 5410-00-144-8453 | MS90724-7 | 96906 | NUT, SHEET SPRING, "U" TYPE, #8-32 | EA | 2 |
| C-20 | 9 | PAOZZ | 5305-00-984-6193 | MS35206-245 | 96906 | MACHINE SCREW, PAN HEAD #8-32UNC | EA | 2 |
| C-20 | 10 | PAOZZ | 5310-00-809-8544 | MS27 183-7 | 96906 | WASHER, FLAT, ROUND #8 | EA | 2 |
| C-20 | 11 | XCOZZ | | 0188-2-3098-2 | 1 5942 | SHIELD | EA | 1 |

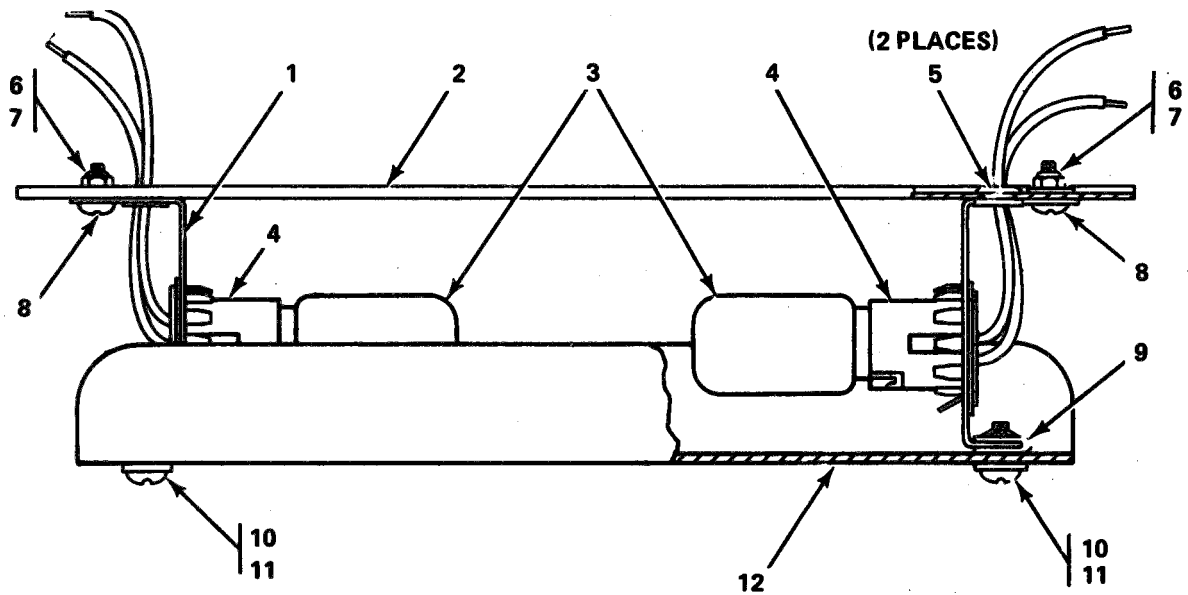


Figure C-21. Incandescent Lamp Assembly

| (1) ILLUSTRATION | | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) PART NUMBER | (5) FSCM | (6) DESCRIPTION <i>Usable On Code</i> | (7) U/M | (8) QTY INC IN UNIT |
|--|--------------------|--------------------|------------------------------------|-----------------------|-------------|---|------------|---------------------------------|
| (a) FIG NO. | (b) ITEM NO. | | | | | | | |
| GROUP: 0708 INCANDESCENT LAMP ASSEMBLY | | | | | | | | |
| C-2 | 1 | XCOZZ | | 0188-2-3097 | 15942 | STANDOFF | EA | 2 |
| C-2 | 2 | XCOOC | | 0188-2-3096 | 15942 | RACEWAY COVER | EA | 1 |
| C-2 | 3 | XBOZZ | | 25T8DC | 24446 | LAMP, 25 WATT | EA | 2 |
| C-2 | 4 | PAOZZ | 6250-00-995-9074 | 12-240 | 95263 | LAMP SOCKET, PLUG BOTTOM | EA | 2 |
| C-2 | 5 | PAOZZ | 5325-00-174-5317 | MS35489-4 | 96906 | RUBBER GROMMET | EA | 2 |
| C-21 | 6 | PAOZZ | 5310-00-274-8884 | MS20365-632 | 96906 | NUT, SELF-LOCKING #6-32 UNC-3B | EA | 2 |
| C-2 | 7 | PAOZZ | 531 0-00-082-1404 | MS27 183-6 | 96906 | WASHER, FLAT, ROUND #6 | EA | 2 |
| C-2 | 8 | PAOZZ | 5305-00-984-4988 | MS35206-228 | 96906 | MACHINE SCREW, PAN HEAD #6-32 UNC-2A | EA | 2 |
| C-2 | 9 | PAOZZ | 5310-00-144-8453 | MS90724-7 | 96906 | NUT, SHEET SPRING, "U" TYPE, #8-UNC | EA | 2 |
| C-2 | 10 | PAOZZ | 5305-00-984-6 193 | MS35206-245 | 96906 | MACHINE SCREW, PAN HEAD #8-32UNC-2A | EA | 2 |
| C-2 | 11 | PAOZ | 5310-00-809-8544 | MS27 183-7 | 96906 | WASHER, FLAT, ROUND #8 | EA | 2 |
| C-2 | 12 | XCOZZ | | 0188-2-3098-2 | 15942 | SHIELD | EA | 1 |

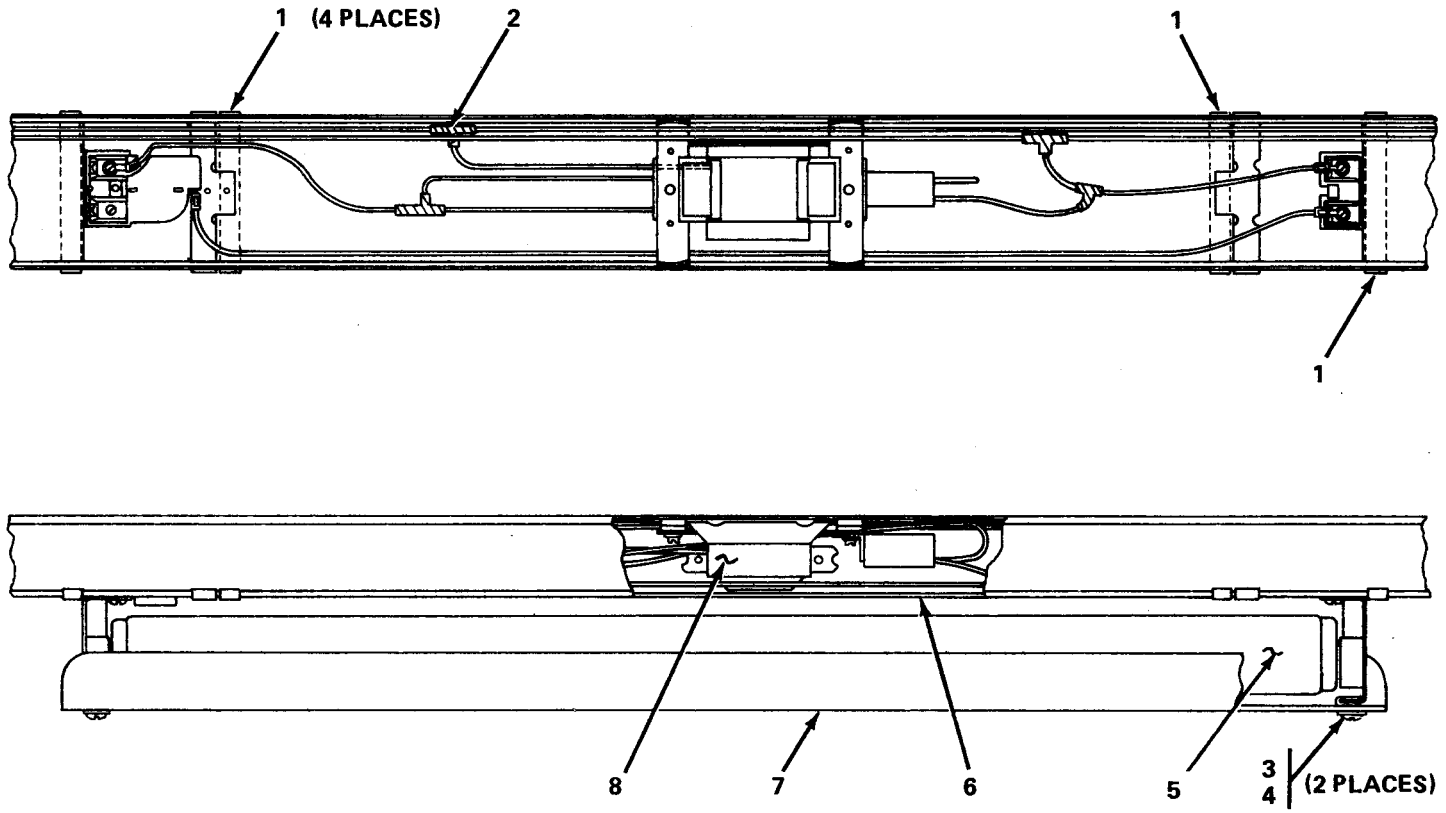


Figure C-22. Fluorescent Lamp Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 08 FLUORESCENT LAMP ASSEMBLY | |
| C-22 | 1 | XCOZZ | | 0188-2-2062 | 15942 | COVER CLIP | EA 4 |
| C-22 | 2 | PAOZZ | 5970-00-419-4290 | MIL-I-24391A | 81349 | TAPE, ELECTRICAL, PLASTIC, BLACK, 1/2-INCH WIDE | ROLL V |
| C-22 | 3 | PAOZZ | 5310-00-984-6193 | MS35206-245 | 96906 | MACHINE SCREW, PAN HEAD | EA 2 |
| C-22 | 4 | PAOZZ | 5310-00-809-8544 | MS27183-7 | 96906 | WASHER, FLAT, #8 | EA 2 |
| C-22 | 5 | XCOZZ | | 0188-2-3087 | 15942 | FLUORESCENT LAMP | EA 1 |
| C-22 | 6 | XBOOO | | 0188-2-2072 | 15942 | RACEWAY COVER | EA 1 |
| C-22 | 7 | XBOZZ | | 0188-2-3098-1 | 15942 | SHIELD; FLUORESCENT LAMP | EA 1 |
| C-22 | 8 | XCOOO | | 0188-2-4062 | 15942 | FLUORESCENT LAMP SUB- ASSEMBLY (REFER TO FIGURE C-23.) | EA 1 |

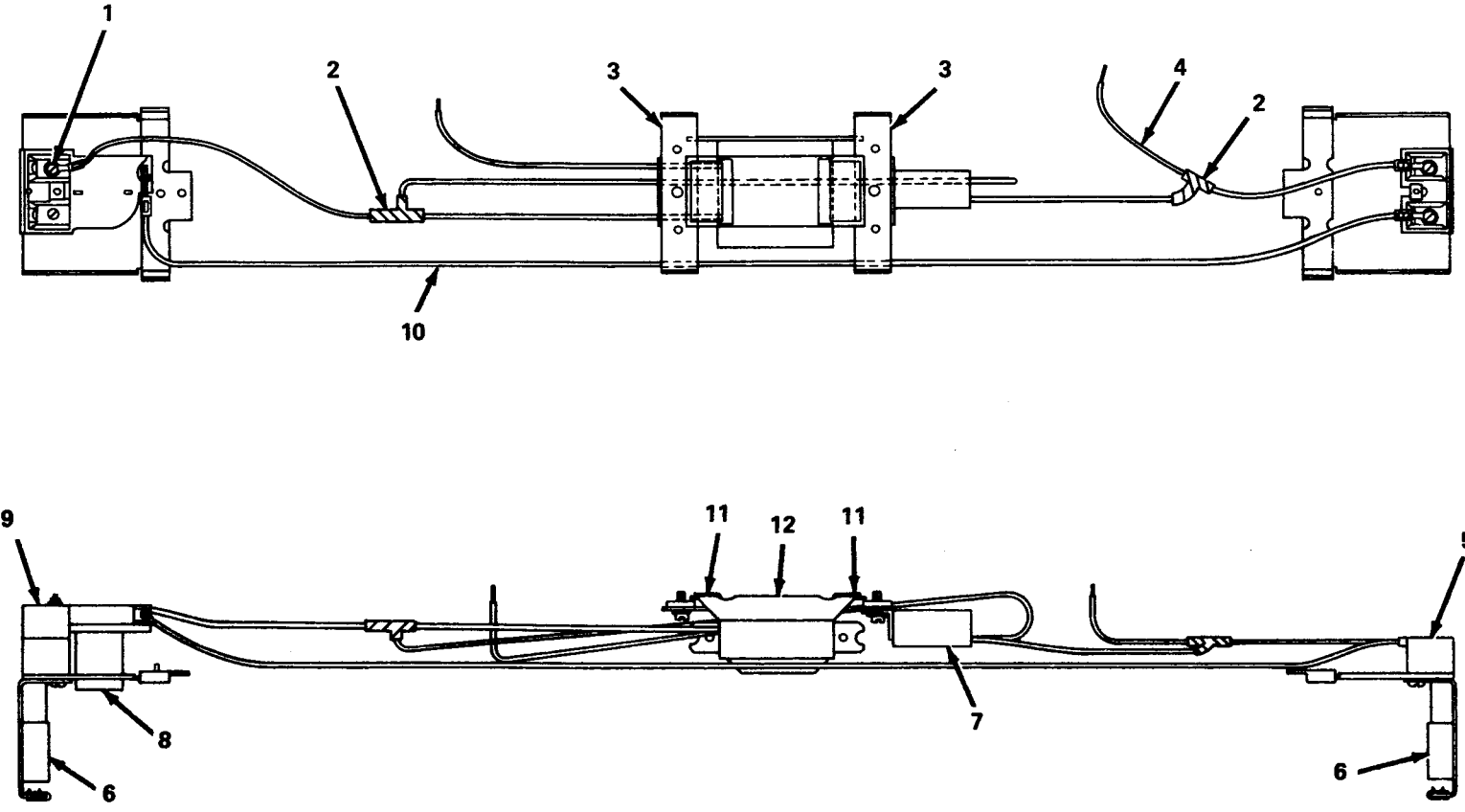


Figure C-23. Fluorescent Lamp Subassembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 0801 FLUORESCENT LAMP SUBASSEMBLY | |
| C-23 | 1 | XBOZZ | | 0188-2-3111 | 15942 | TERMINAL LUG | EA 1 |
| C-23 | 2 | PAOZZ | 5970-00-419-4290 | MIL-I-24391A | 81349 | TAPE, ELECTRICAL, PLASTIC, BLACK, 1/2-INCH WIDE | ROLL V |
| C-23 | 3 | XBOZZ | | SPECIAL 3007 | 79725 | BALLAST CLAMP | EA 2 |
| C-23 | 4 | XCOOO | | 0188-2-2069 | 15942 | WIRE ASSEMBLY (REFER TO FIGURE C-12N) | EA 1 |
| C-23 | 5 | XCOOO | | 0188-2-3103 | 15942 | LAMPHOLDER ASSEMBLY (REFER TO FIGURE C-24) | EA 1 |
| C-23 | 6 | PAOZZ | 6210-00-757-9694 | P40 | 19634 | FLUORESCENT LAMP LOCK | EA 2 |
| C-23 | 7 | XBOZZ | | C-85355-B | 32159 | FILTER | EA 1 |
| C-23 | 8 | XCOZZ | | 0188-2-2061 | 15942 | STARTER | EA 1 |
| C-23 | 9 | XCOOO | | 0188-2-3104 | 15942 | LAMPHOLDER WITH STARTER BASE ASSEMBLY (REFER TO FIGURE C-24) | EA 1 |
| C-23 | 10 | XCOOO | | 0188-2-2070 | 15942 | WIRE ASSEMBLY (REFER TO FIGURE C-12M) | EA 1 |
| C-23 | 11 | XCOZZ | | 0188-2-2068 | 15942 | BALLAST SUPPORT | EA 2 |
| C-23 | 12 | XCOZZ | | 0188-2-3110 | 15942 | LAMP BALLAST | EA 1 |

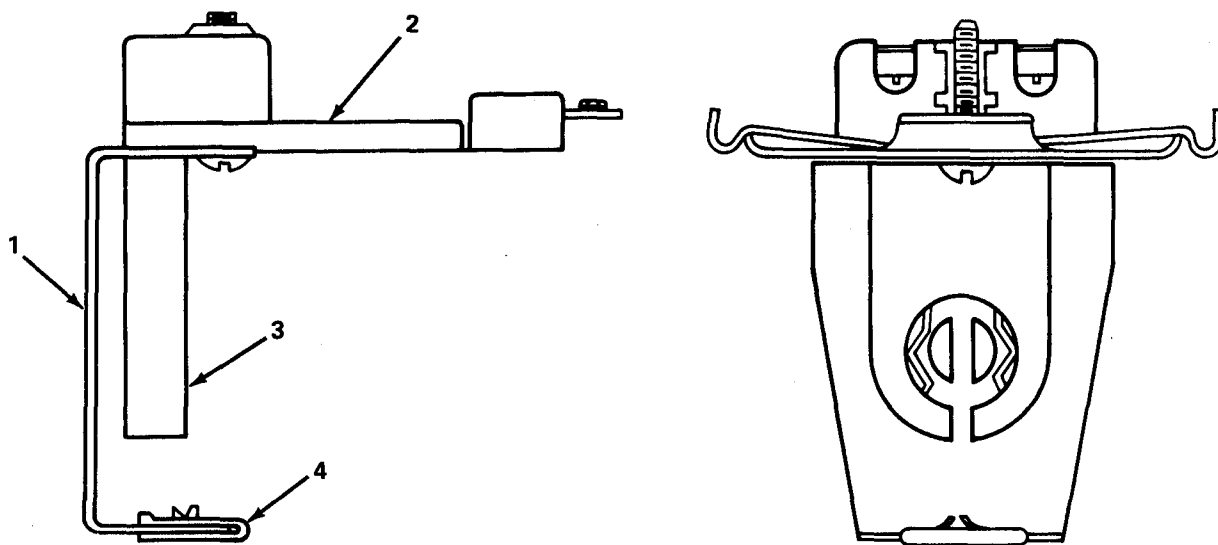


Figure C-24. Lamp Holder Assembly

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|--|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M | QTY INC IN UNIT |
| | | | | | | <i>Usable On Code</i> | | |
| C-24 | 1 | XCOZZ | | 0188-2-3097 | 15942 | GROUP: 0802 LAMPHOLDER ASSEMBLY STANDOFF LAMP SHIELD | EA | 1 |
| C-24 | 2 | XCOZZ | | 0188-2-2071 | 15942 | LAMPHOLDER CLAMP | EA | 1 |
| C-24 | 3 | XBOZZ | | 78X491 | 24446 | LAMPHOLDER | EA | 1 |
| C-24 | 4 | PAOZZ | 13 10-00-144-84 | MS90724-7 | 96906 | NUT, SHEET SPRING, "U" TYPE. #8-32 | EA | 1 |

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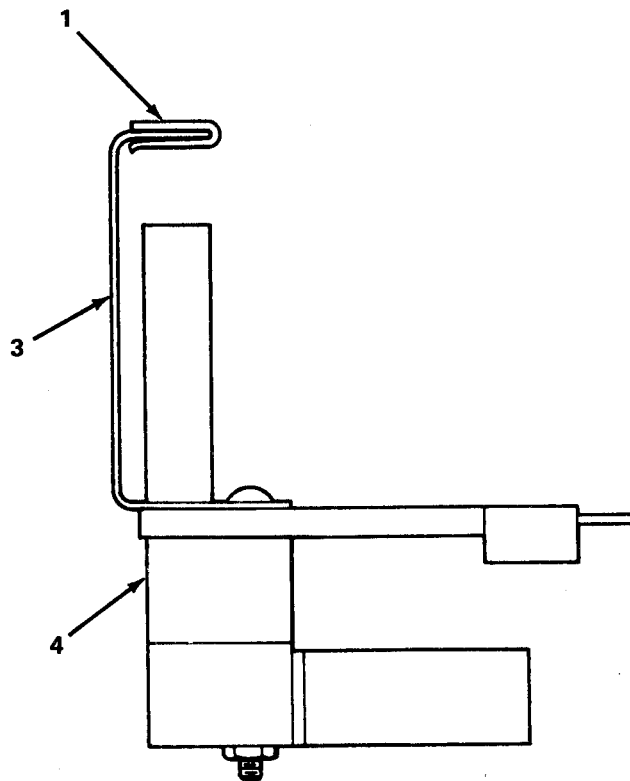
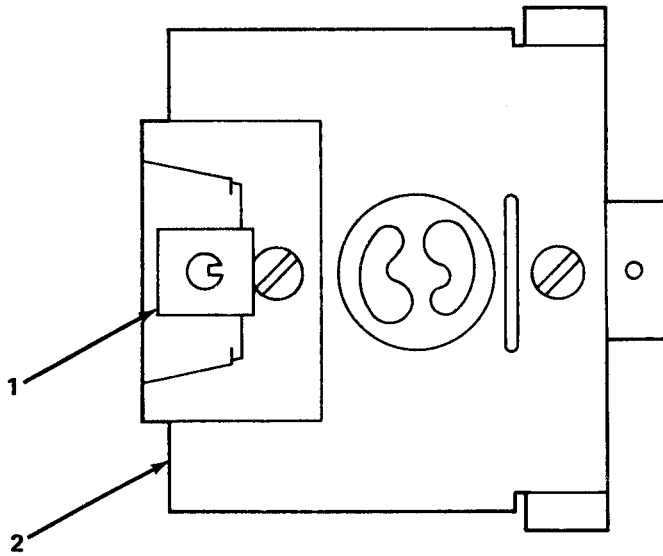


Figure C-25. Lamp Holder With Starter Base Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 0803 LAMPHOLDER WITH STARTER BASE ASSEMBLY | |
| C-25 | 1 | PAOZZ | 5410-00-144-8453 | MS90724-7 | 96906 | NUT, SHEET SPRING, "U" TYPE, #8-32 | EA 1 |
| C-25 | 2 | XCOZZ | | 0188-2-2073 | 15942 | CLAMP, LAMPHOLDER AND STARTER BASE | EA 1 |
| C-25 | 3 | XCOZZ | | 0188-2-3097 | 15942 | STANDOFF LAMP SHIELD | EA 1 |
| C-25 | 4 | XBOZZ | | 78X736 | 24446 | LAMPHOLDER WITH STARTER BASE | EA 1 |

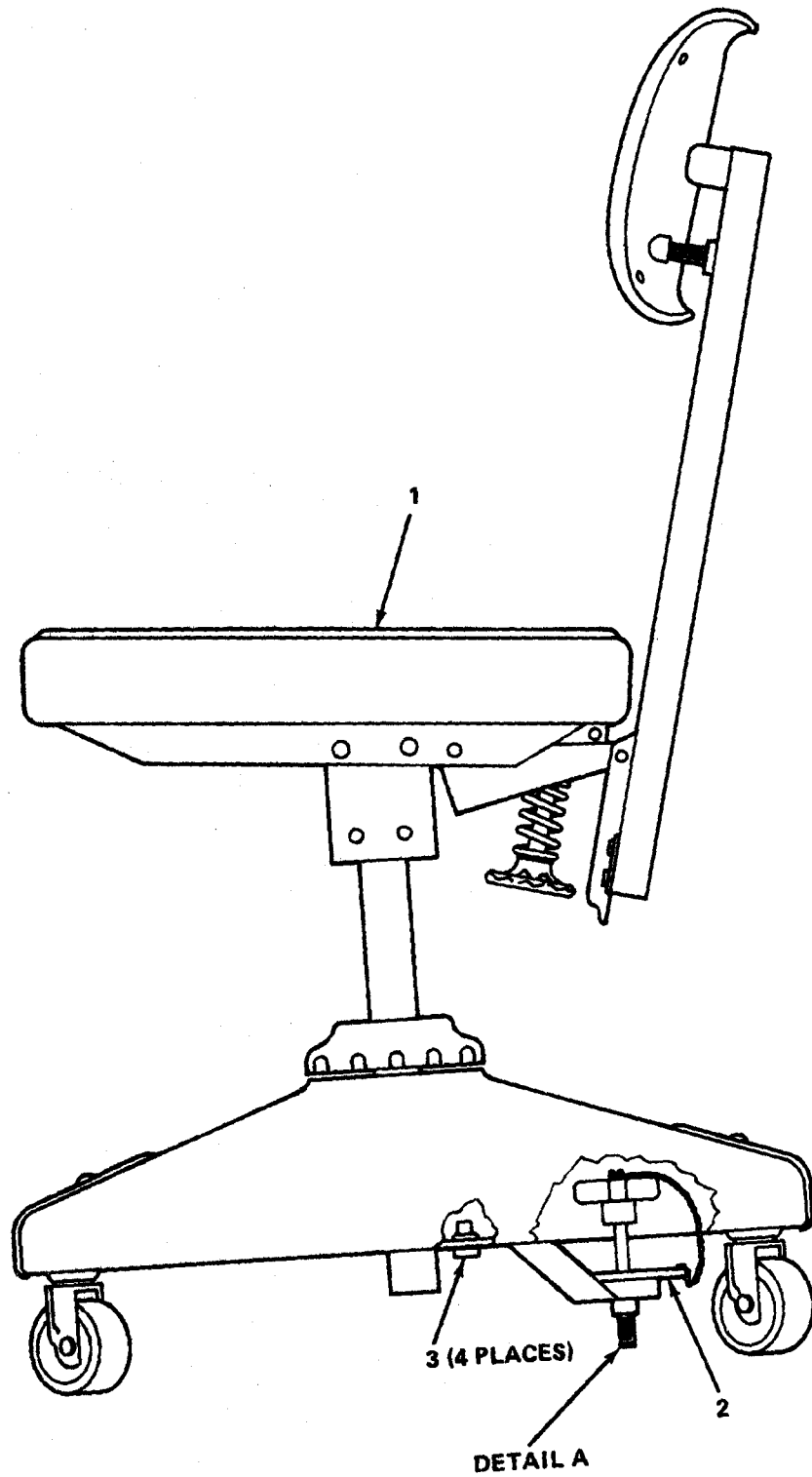
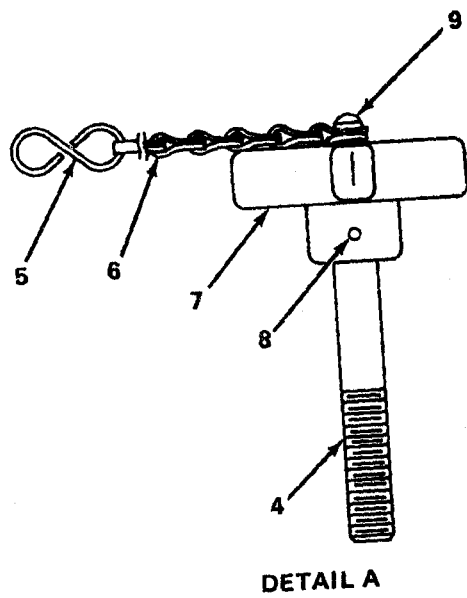


Figure C-26. Rotary Chair Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 09 ROTARY CHAIR ASSEMBLY | |
| C-26 | 1 | XCOOO | | 0188-2-4084 | 15942 | CHAIR, ROTARY, TYPE II, CLASS 2, STYLE B | EA 1 |
| C-26 | 2 | XBOOO | | 0188-2-4077 | 15962 | BRACKET ASSEMBLY | EA 1 |
| C-26 | 3 | XBOZZ | | S31-200C&I | 03481 | BLIND RIVET NUT, FLAT HEAD, OPEN END | EA 4 |
| C-26 | 4 | XCOZZ | | 0188-2-2012-1 | 15942 | SHAFT | EA 1 |
| C-26 | 5 | PAOZZ | 4030-00-270-5436 | MS87006-3 | 96906 | "S" HOOK | EA 1 |
| C-26 | 6 | XCOZZ | | 0188-2-2013-1 | 15942 | SASH CHAIN, 8 IN | EA 1 |
| C-26 | 7 | XCOZZ | | 0188-2-3005-1 | 15942 | KNOB, ADJUSTING | EA 1 |
| C-26 | 8 | PAOZZ | | MS16562-28 | 15942 | PIN, SPRING, TUBULAR, 2/32X3/4 | EA 1 |
| C-26 | 9 | PAOZZ | 5305-00-059-6671 | MS51957-46 | 96906 | SCREW, PAN HEAD, 8-32X5/8 | EA 1 |

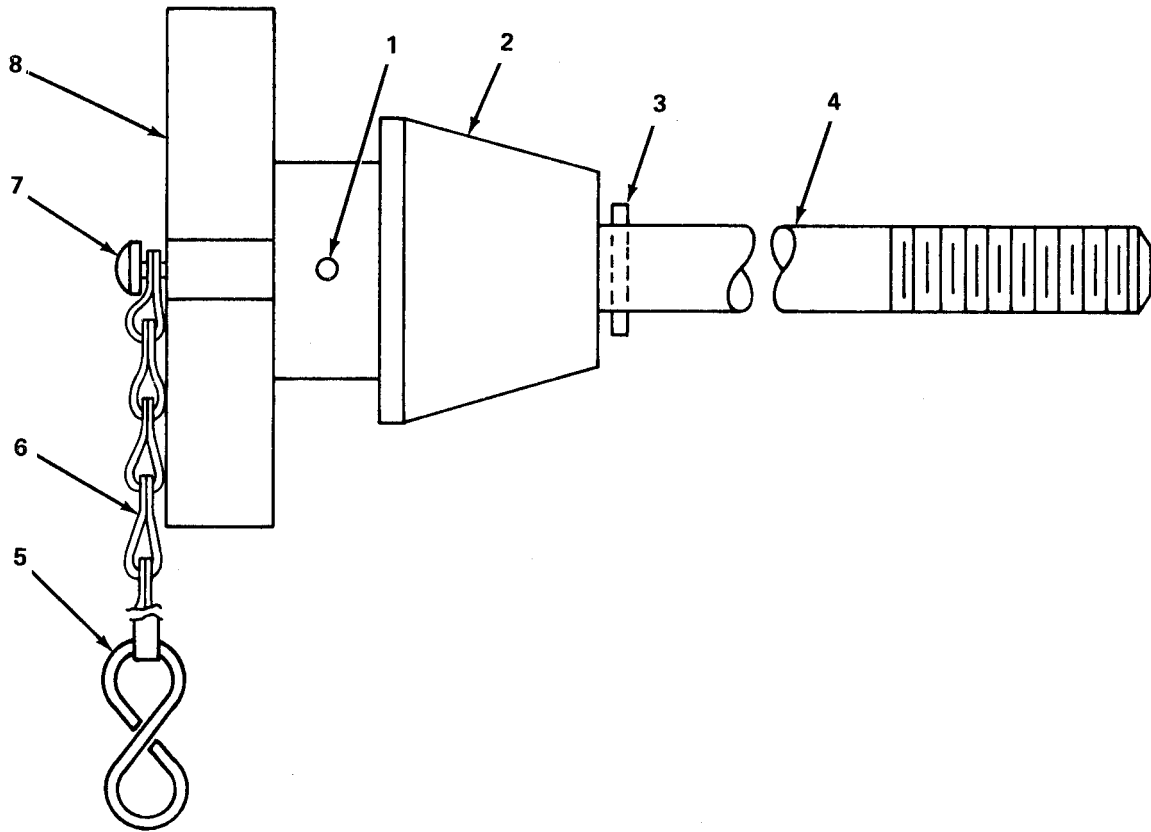


Figure C-27. Cable Reel Tiedown Assembly

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|----------------|-------|---|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M | QTY INC IN UNIT |
| | | | | | | <i>Usable On Code</i> | | |
| C-27 | 1 | PAOZZ | 5315-00-058-9756 | MS16562-227 | 96906 | GROUP: 10 CABLE REEL TIE-DOWN ASSEMBLY | EA | 1 |
| C-27 | 2 | XCOOO | | 0188-2-2011 | 15942 | COLLAR, REEL TIEDOWN | EA | 1 |
| C-27 | 3 | PAOZZ | 5315-00-616-426 | MS16562-28 | 96906 | PIN, SPRING, TUBULAR, 3/32 INCH ODx 3/4 IN | EA | 1 |
| C-27 | 4 | XCOZZ | | 0188 -2-2012-2 | 15942 | SHAFT, 1/2-1 3UNC-2A THREAD | EA | 1 |
| C-27 | 5 | PAOZZ | 4030-00-270-5436 | MS87006-3 | 96906 | "S" HOOK | EA | 1 |
| C-27 | 6 | XBOZZ | | | 81349 | SASH CHAIN, TYPE II, CLASS 3 | EA | A/R |
| C-27 | 7 | PAOZZ | 5305-00-054-6671 | MS5 1947-46 | 96906 | SCREW, PAN HEAD, 8-32x 5/8 | EA | 1 |
| C-27 | 8 | XCOZZ | | 0188 -2-3005-2 | 15942 | KNOB, REEL TIEDOWN | EA | 1 |

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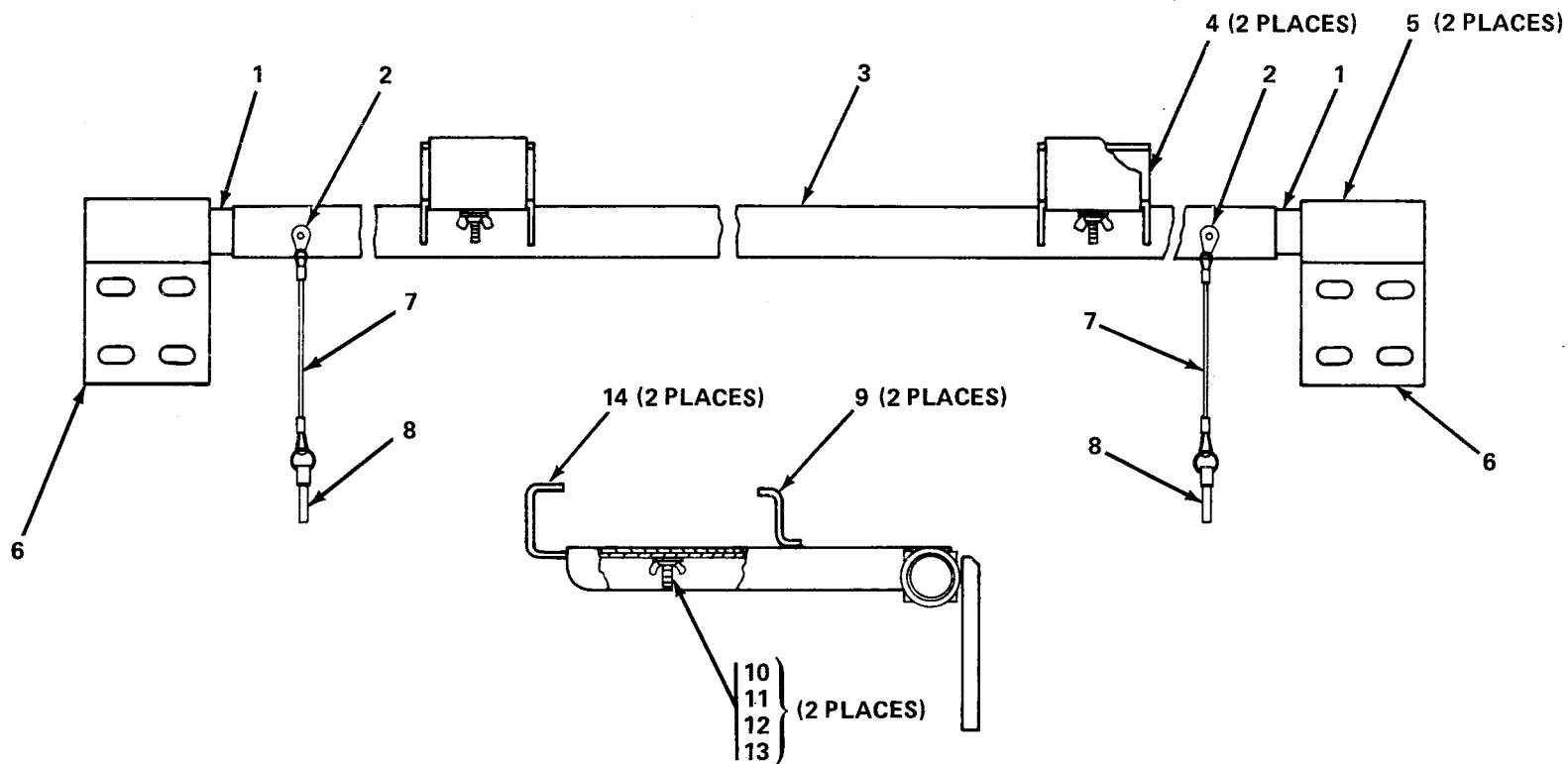


Figure C-28. Ladder Bracket Assembly

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----------------------------------|--------------------|-------------|-----------------------------|----------------|-------|---------------------------------|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| USABLE ON CODE | | | | | | | |
| GROUP: 11 LADDER BRACKET ASSEMBLY | | | | | | | |
| C-28 | 1 | XCOZZ | | 0188-2-3059 | 15942 | LADDER BRACKET SHAFT | EA 2 |
| C-28 | 2 | XBOZZ | | 1601-1414 | 19738 | RIVET, DOME HEAD | EA 2 |
| C-28 | 3 | XCOZZ | | 0188-2-4048 | 15942 | WELDED BRACKET ASSEMBLY | EA 1 |
| C-28 | 4 | XCOZZ | | 0188-2-2016-1 | 15942 | STOP | EA 2 |
| C-28 | 5 | XCOZZ | | 0188-2-3060-2 | 15942 | TUBING | EA 2 |
| C-28 | 6 | XCOZZ | | 0188-2-3060-1 | 15942 | BRACKET BAR | EA 2 |
| C-28 | 7 | PAOZZ | 4010-00-457-2957 | LT1504C6-6 | 84256 | LANYARD ASSEMBLY | EA 2 |
| C-28 | 8 | PAOZZ | 5340-00-904-1665 | MCS17984C413 | 96906 | PIN, QUICK RELEASE | EA 2 |
| C-28 | 9 | XCOZZ | | 0188-2-2016-1 | 15942 | STOP | EA 2 |
| C-28 | 10 | PAOZZ | 5307-00-006-8449 | FHS0420-14 | 46384 | STUD, CLINCH, CRES 1/4-10UNC-2A | EA 2 |
| C-28 | 11 | PAOZZ | 5310-00-982-6827 | MS35425-40 | 96906 | WING, NUT, 1/4-20UNC-2B | EA 2 |
| C-28 | 12 | PAOZZ | 5310-00-933-8121 | MS35338-139 | 96906 | LOCKWASHER, SPRING, 1/4 INCH | EA 2 |
| C-28 | 13 | PAOZZ | 5310-00-582-5677 | MS15795-810 | 96906 | WASHER, FLAT, 1/4 INCH | EA 2 |
| C-28 | 14 | XCOZZ | | 0188-2-3019-2 | 15942 | CLAMP | EA 2 |

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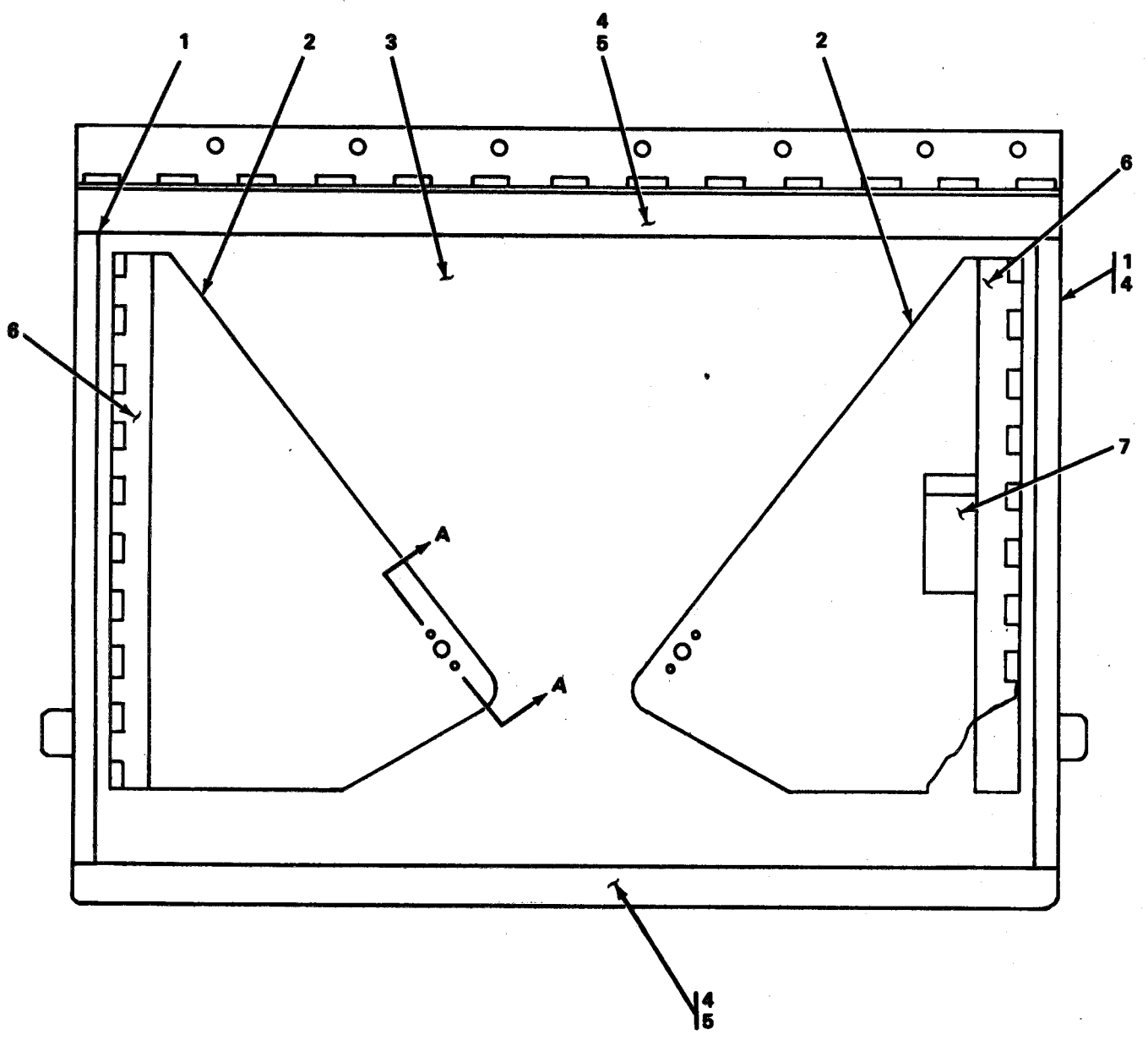


Figure C-29. Power Entrance Box Cover Assembly (Sheet 1 of 4)

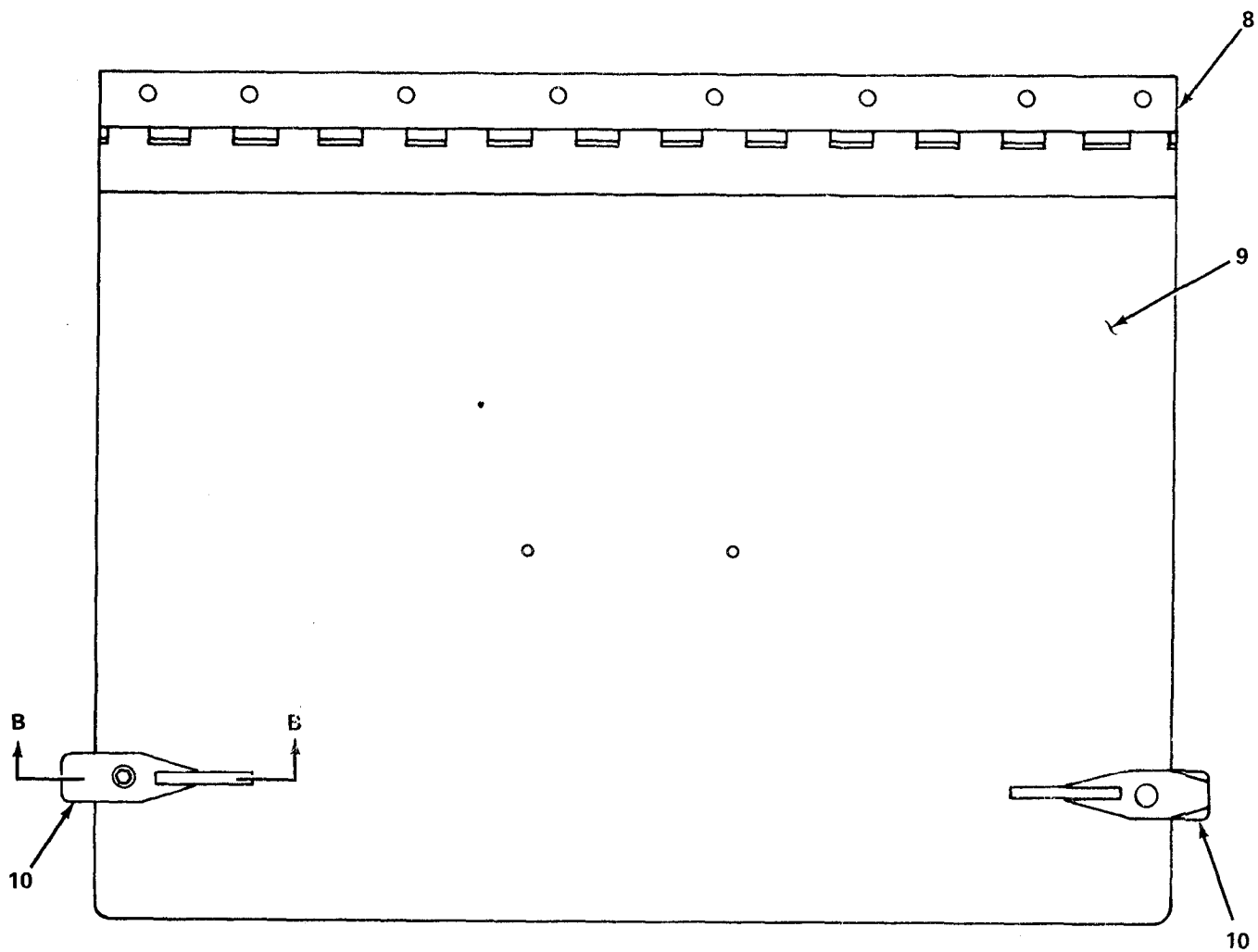


Figure C-29. Power Entrance Box Cover Assembly (Sheet 2 of 4)

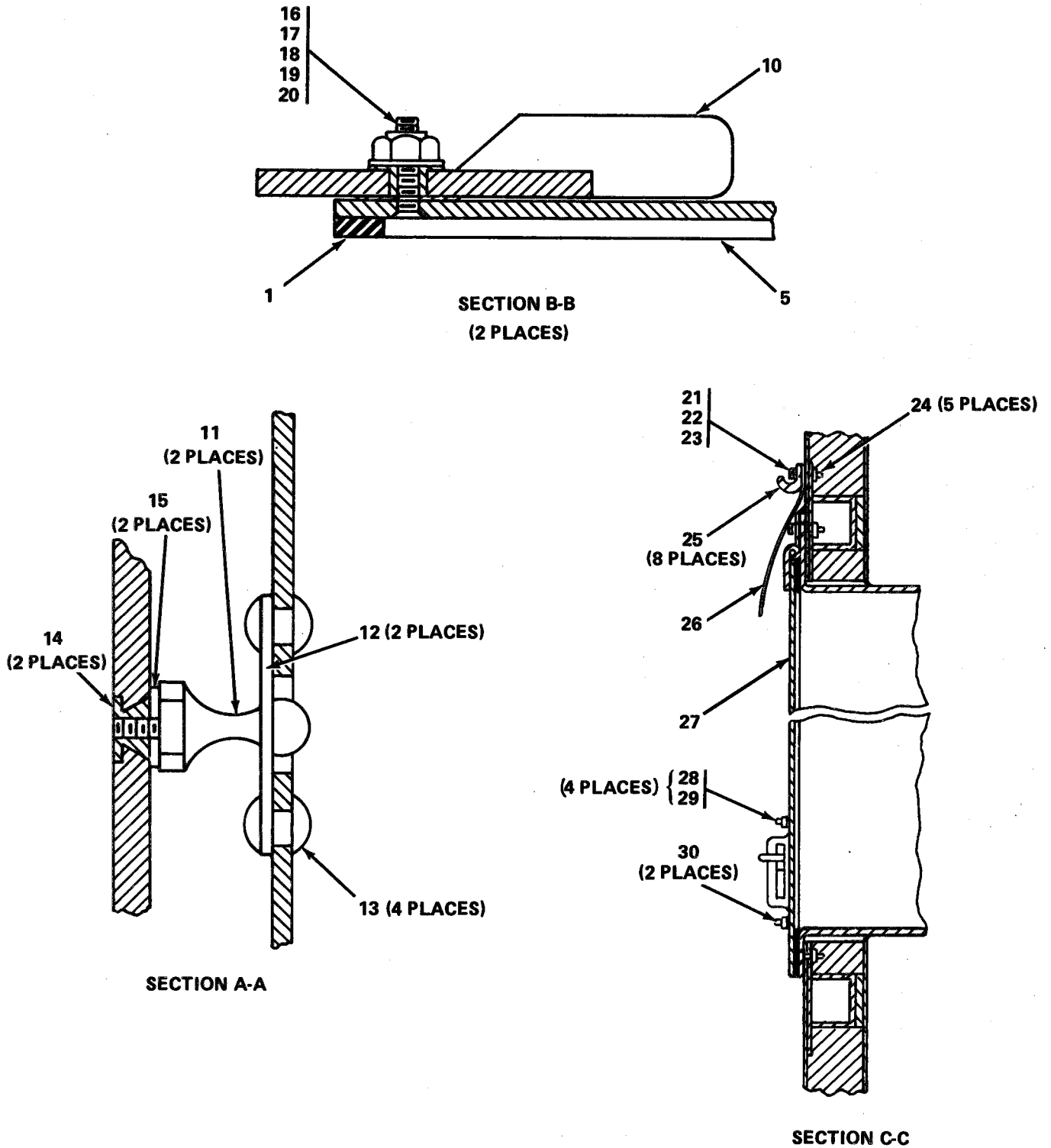


Figure C-29. Power Entrance Box Cover Assembly (Sheet 3 of 4)

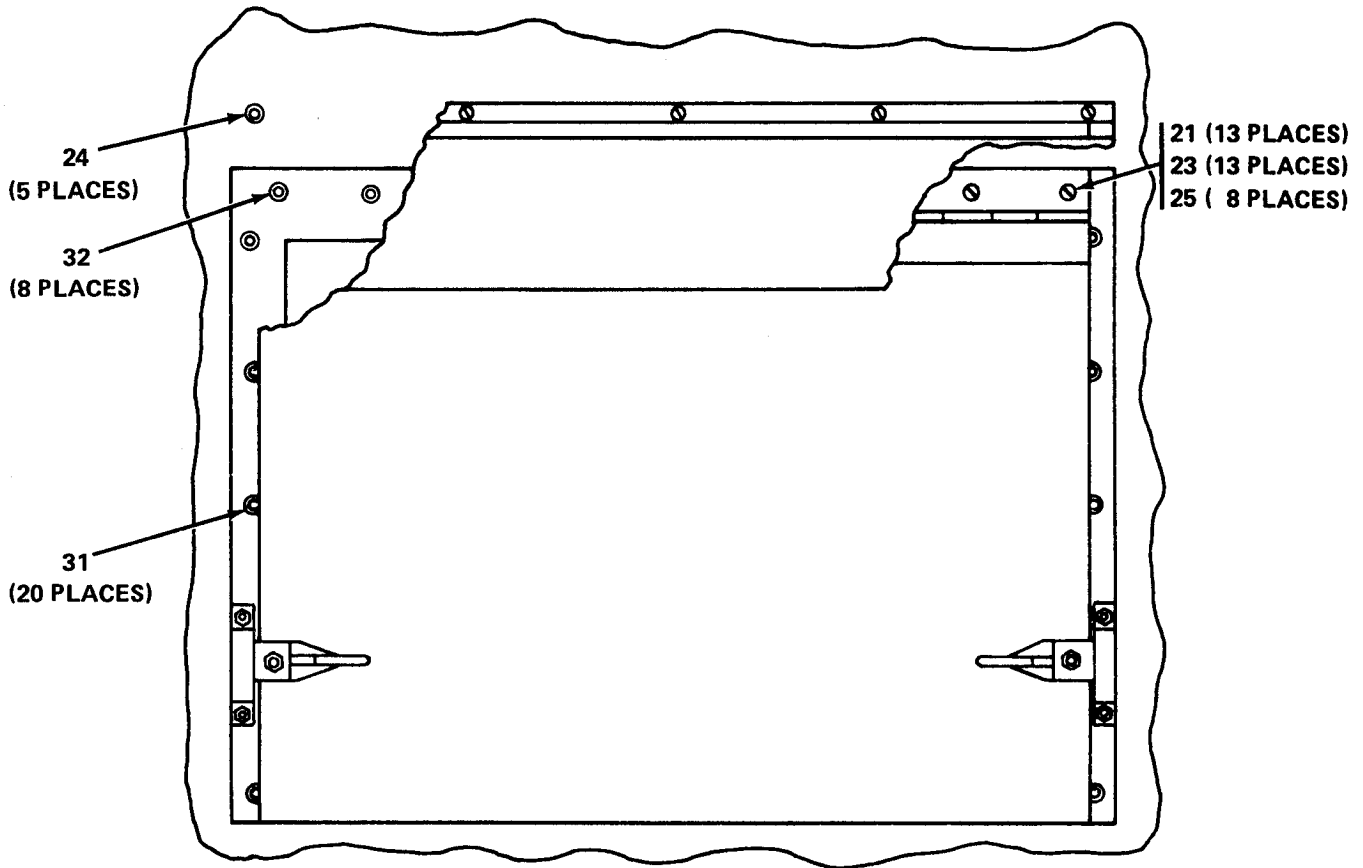


Figure C-29. Power Entrance Box Cover Assembly (Sheet 4 of 4)

| (1) ILLUSTRATION | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|--------------------|-------------|-----------------------------|--------------------|-------|--|---------------------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| | | | | | | USABLE ON CODE | |
| | | | | | | GROUP: 12 POWER ENTRANCE BOX COVER ASSEMBLY | |
| C-29 | 1 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, GRADE M, 11-1/8 X1/2X1/8 | EA 2 |
| C-29 | 2 | XCOZZ | | 0188-2-3078 | 15942 | SHIELD | EA 2 |
| C-29 | 3 | XCOZZ | | 0188-2-4053 | 15942 | COVER SUBASSEMBLY | EA 1 |
| C-29 | 4 | PAOZZ | 8040-00-728-3088 | MIL-A-46106 | 81349 | SILICONE ADHESIVE SEALANT TYPE I | A/R |
| C-29 | 5 | PAOZZ | | MIL-R-46089 | 81349 | GASKET, GRADE M, 17-1/8X 3/4X1/8 | EA 2 |
| C-29 | 6 | PAOZZ | 5340-00-990-8567 | MS35822-2B | 96906 | HINGE | EA 2 |
| C-29 | 7 | XBOZZ | | 0188-2-2056 | 15942 | STOP | EA 1 |
| C-29 | 8 | PAOZZ | | MS35825-3A | 96906 | HINGE | EA 1 |
| C-29 | 9 | XCOZZ | | 0188-2-4053-1 | 15942 | COVER | EA 1 |
| C-29 | 10 | XBOZZ | | 0188-2-3074 | 15942 | LATCH | EA 2 |
| C-29 | 11 | PAOZZ | 5307-00-099-8871 | P116-447-5-24 A | 78553 | STUD | EA 2 |
| C-29 | 12 | XCOZZ | | 0188-2-2053 | 15942 | SPRING CLIP | EA 2 |
| C-29 | 13 | PAFZZ | 5320-00-754-0822 | MS20470AD4- 5 | 96906 | RIVET, SOLID, UNIVERSAL, 1/8X9/32 | EA 4 |
| C-29 | 14 | PAOZZ | 5310-01-044-6568 | M45938/4-6 | 96906 | CLINCH NUT, #6-32UNC | EA 2 |
| C-29 | 15 | PAOZZ | 5310-00-929-6395 | MS35338-136 | 96906 | LOCKWASHER, SPLIT, #6 | EA 2 |
| C-29 | 16 | XCOZZ | | 0188-2-2054 | 15942 | BUSHING | EA 2 |
| C-29 | 17 | PAOZZ | 5310-01-025-1797 | 3515-14-11 | 78189 | SPRING WASHER, WAVE SHAPE | EA 2 |
| C-29 | 18 | PAOZZ | 5310-00-926-1835 | MS21083-C3 | 96906 | NUT, SELF-LOCKING, CRES, #10-32UNF | EA 2 |
| C-29 | 19 | PAOZZ | 5307-00-974-0610 | FHS032-10 | 46384 | CLINCH STUD, CRES | EA 2 |
| C-29 | 20 | PAOZZ | 5310-00-167-0812 | AN960-C10L | 96906 | WASHER, FLAT, #10 | EA 4 |
| C-29 | 21 | PAOZZ | 5310-00-933-8119 | MS35338-137 | 96906 | LOCKWASHER, SPRING, #8 | EA 13 |
| C-29 | 22 | PAOZZ | 5305-00-054-6672 | MS51957-47 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNCX3/4 | EA 5 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-------------------------|----------|-------|-----------------------|--------------------|-------|--|---------------------|
| ILLUSTRATION | | | | | | | |
| (A) | (B) | SMR | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | DESCRIPTION | U/M QTY INC IN UNIT |
| FIG NO. | ITEM NO. | CODE | | | | USABLE ON CODE | |
| C-29 | 23 | PAOZZ | 5310-00-225-5328 | MS15795-8141 | 96906 | WASHER, FLAT, ROUND, #8 | EA 13 |
| C-29 | 24 | PAOZZ | 5310-01-028-2487 | SS8B160 | 03481 | RIVNUT, FLAT HEAD, #8-32UNC | EA 5 |
| C-29 | 25 | PAOZZ | 5305-00-054-6671 | MS51957-46 | 96906 | MACHINE SCREW, PAN HEAD, #8-32UNCX 5/8 | EA 8 |
| C-29 | 26 | MOOZZ | | 0188-2-3082 | 15942 | RAIN SHIELD | EA 1 |
| C-29 | 27 | XCOZZ | | 0188-2-4052 | 15942 | COVER ASSEMBLY | EA 1 |
| C-29 | 28 | PAOZZ | 5310-00-883-9384 | MS15795-842 | 96906 | WASHER, FLATA, ROUND, #10 | EA 4 |
| C-29 | 29 | PAOZZ | 5310-00-208-9255 | MS21044-C3 | 96906 | NUT, SELF-LOCKING, #10-32UNF | EA 4 |
| C-29 | 30 | XCOZZ | | 0188-2-2057 | 15942 | KEEPER | EA 2 |
| C-29 | 31 | PAFZZ | 5320-00-420-2163 | M24243/78604F | 81349 | RIVET, COUNTERSUNK | EA 20 |
| C-29 | 32 | XC | | SS8B281 | 03481 | RIVNUT, COUNTERSUNK | EA 8 |
| GROUP: 13 BULK MATERIAL | | | | | | | |
| BULK | | | | 0-A-51E | 81348 | ACETONE | A/R |
| BULK | | PAOZZ | 8040-00-728-3088 | MIL-A-46106 | 81348 | SILICONE ADHESIVE SEALANT TYPE I | A/R |
| BULK | | PAOZZ | 8040-00-728-3088 | MIL-A-46016 | 81349 | SILICONE ADHESIVE SEALANT TYPE I | A/R |
| BULK | | XDOZZ | | 1300L | 94959 | ADHESIVE | A/R |
| BULK | | PAOZZ | | MMM-A-121 | 81348 | ADHESIVE | A/R |
| BULK | | PAOZZ | 8040-00-664-0439 | 299-947-107 TY2CL5 | 97499 | ADHESIVE | A/R |
| BULK | | XDOZZ | | QQ-S-571 | 81348 | SOLDER, SN 60, TYPE R | LB A/R |
| BULK | | PAOZZ | 5970-00-419-4290 | MIL-I-24391A | 81349 | TAPE, ELECTRICAL, PLASTIC BLACK, 1/2-INCH WIDE | ROLL A/R |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------|------|----------|--------|--------|----------------|-----|------|
| ILLUSTRATION | | NATIONAL | PART | | DESCRIPTION | U/M | QTY |
| (A) | (B) | SMR | STOCK | NUMBER | FSCM | | INC |
| FIG | ITEM | CODE | NUMBER | | | | IN |
| NO. | NO. | | | | USABLE ON CODE | | UNIT |

(NOT APPLICABLE TO THIS TECHNICAL MANUAL OR EQUIPMENT)

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

| NATIONAL STOCK NUMBER | FIGURE NUMBER | ITEM NUMBER | NATIONAL STOCK NUMBER | FIGURE NUMBER | ITEM NUMBER |
|-----------------------|---------------|-------------|-----------------------|---------------|-------------|
| 6145-00-009-0259 | C-2 | 31 | 5410-00-144-8453 | C-25 | 1 |
| 5310-00-014-5850 | C-1 | 10 | 5310-00-145-3299 | C-1 | 6 |
| 5310-00-014-5850 | C-2 | 2 | 5310-00-167-0812 | C-7 | 16 |
| 5310-00-014-5850 | C-3 | 3 | 5310-00-167-0812 | C-29 | 20 |
| 5310-00-014-5850 | C-15 | 10 | 6625-00-193-0636 | C-2 | 21 |
| 5305-00-021-3668 | C-13 | 9 | 5305-00-206-2511 | C-1 | 26 |
| 5310-00-045-3286 | C-3 | 4 | 5305-00-207-8253 | C-13 | 34 |
| 5310-00-045-3296 | C-1 | 9 | 5310-00-208-9255 | C-7 | 11 |
| 5310-00-045-3296 | C-15 | 8 | 5310-00-208-9255 | C-29 | 29 |
| 5310-00-045-3299 | C-2 | 7 | 6240-00-223-9100 | C-2 | 33 |
| 5305-00-054-6655 | C-9 | 13 | 5310-00-225-5328 | C-1 | 43 |
| 5305-00-054-6656 | C-9 | 14 | 5310-00-225-5328 | C-7 | 2 |
| 5305-00-054-6671 | C-7 | 1 | 5310-00-225-5328 | C-8 | 2 |
| 5305-00-054-6671 | C-26 | 9 | 5310-00-225-5328 | C-29 | 23 |
| 5305-00-054-6671 | C-27 | 7 | 5940-00-230-0515 | C-2 | 22 |
| 5305-00-054-6671 | C-29 | 25 | 5310-00-250-9477 | C-13 | 32 |
| 5305-00-054-6671 | C-29 | 31 | 5310-00-261-8278 | C-1 | 28 |
| 5305-00-054-6672 | C-7 | 4 | 5310-00-261-8278 | C-10 | 3 |
| 5305-00-054-6672 | C-8 | 4 | 5305-00-269-3211 | C-1 | 32 |
| 5305-00-054-6672 | C-29 | 22 | 5305-00-269-3212 | C-1 | 35 |
| 5310-00-055-9007 | C-2 | 25 | 5305-00-269-3224 | C-13 | 13 |
| 5310-00-056-3395 | C-1 | 36 | 5320-00-420-2164 | C-7 | 21 |
| 5305-00-058-3660 | C-1 | 41 | 5340-00-435-3104 | C-2 | 38 |
| 5305-00-059-3661 | C-1 | 14 | 5330-00-443-9889 | C-11 | 7 |
| 5305-00-059-3663 | C-1 | 19 | 5305-00-455-0315 | C-1 | 22 |
| 5305-00-068-0502 | C-1 | 50 | 5925-00-499-1954 | C-2 | 6 |
| 5305-00-068-0502 | C-13 | 3 | 4210-00-555-8837 | C-1 | 52 |
| 5305-00-071-1324 | C-13 | 19 | 5310-00-582-5677 | C-8 | 20 |
| 5305-00-071-2241 | C-6 | 32 | 5310-00-582-5677 | C-9 | 29 |
| 5305-00-071-2241 | C-13 | 18 | 5310-00-582-5677 | C-13 | 8 |
| 5310-00-080-6004 | C-1 | 33 | 5310-00-582-5677 | C-16 | 3 |
| 5310-00-081-8087 | C-6 | 42 | 5310-00-582-5677 | C-28 | 13 |
| 5310-00-081-8087 | C-19 | 7 | 5310-00-582-5965 | C-6 | 31 |
| 5310-00-082-1404 | C-2 | 41 | 5310-00-582-5965 | C-13 | 2 |
| 5310-00-082-1404 | C-6 | 43 | 5310-00-596-7691 | C-6 | 16 |
| 5310-00-082-1404 | C-15 | 3 | 5310-00-596-7693 | C-2 | 28 |
| 5310-00-082-1404 | C-19 | 6 | 5340-00-597-6190 | C-13 | 1 |
| 5310-00-082-1404 | C-20 | 5 | 6240-00-635-9753 | C-14 | 22 |
| 5310-00-082-1404 | C-21 | 7 | 5310-00-637-9541 | C-1 | 31 |
| 5310-00-088-1251 | C-6 | 23 | 5310-00-637-9541 | C-13 | 12 |
| 5310-00-125-6170 | C-1 | 27 | 6149-00-643-1328 | C-5 | 13 |
| 5310-00-125-6170 | C-10 | 4 | 6149-00-643-1368 | C-4 | 10 |
| 5410-00-144-8453 | C-20 | 8 | 5975-00-669-9473 | C-12 | 2 |
| 5310-00-144-8453 | C-21 | 9 | 5925-00-681-4952 | C-9 | 34 |
| 5310-00-144-8453 | C-24 | 4 | 5305-00-702-4523 | C-13 | 33 |

| NATIONAL STOCK NUMBER | FIGURE NUMBER | ITEM NUMBER | NATIONAL STOCK NUMBER | FIGURE NUMBER | ITEM NUMBER |
|-----------------------|---------------|-------------|-----------------------|---------------|-------------|
| 5305-00-717-5467 | C-13 | 29 | 5310-00-926-1835 | C-7 | 14 |
| 5305-00-719-5003 | C-13 | 14 | 5310-00-926-1835 | C-29 | 18 |
| 5310-00-720-8549 | C-15 | 9 | 5310-00-929-6395 | C-7 | 31 |
| 2540-00-741-0187 | C-1 | 1 | 5310-00-929-6395 | C-8 | 16 |
| 6625-00-752-8464 | C-2 | 23 | 5310-00-929-6395 | C-9 | 42 |
| 5320-00-754-0822 | C-7 | 33 | 5310-00-929-6395 | C-29 | 15 |
| 5320-00-754-0822 | C-29 | 13 | 5310-00-933-8119 | C-1 | 42 |
| 5310-00-765-3197 | C-1 | 5 | 5310-00-933-8119 | C-7 | 3 |
| 5310-00-765-3197 | C-2 | 4 | 5310-00-933-8119 | C-8 | 3 |
| 5310-00-765-3197 | C-8 | 12 | 5310-00-933-8119 | C-29 | 21 |
| 5310-00-765-3197 | C-9 | 45 | 5310-00-933-8120 | C-1 | 15 |
| 5305-00-765-4342 | C-9 | 20 | 5310-00-933-8121 | C-13 | 10 |
| 5310-00-773-7618 | C-1 | 23 | 5310-00-933-8121 | C-16 | 6 |
| 5310-00-773-7618 | C-13 | 22 | 5310-00-933-8121 | C-28 | 12 |
| 5310-00-774-7618 | C-13 | 35 | 5310-00-934-9757 | C-2 | 8 |
| 6145-00-806-9140 | C-4 | 11 | 5310-00-934-9757 | C-2 | 24 |
| 6145-00-806-9140 | C-5 | 10 | 5310-00-947-7042 | C-1 | 24 |
| 5310-00-809-4058 | C-1 | 51 | 5310-00-947-7042 | C-13 | 30 |
| 5310-00-809-4058 | C-6 | 22 | 5310-00-982-6813 | C-9 | 12 |
| 5310-00-809-4058 | C-13 | 17 | 5310-00-982-6827 | C-8 | 22 |
| 5310-00-809-8544 | C-20 | 10 | 5310-00-982-6827 | C-9 | 28 |
| 5310-00-809-8544 | C-21 | 11 | 5310-00-982-6827 | C-28 | 11 |
| 5310-00-809-8544 | C-22 | 4 | 5305-00-984-4984 | C-14 | 36 |
| 5310-00-811-3494 | C-2 | 5 | 5305-00-984-6192 | C-6 | 47 |
| 5310-00-811-3494 | C-2 | 37 | 5305-00-984-6193 | C-20 | 9 |
| 5310-00-811-3494 | C-6 | 45 | 5305-00-984-6193 | C-21 | 10 |
| 5970-00-812-2967 | C-12 | 14 | 5310-00-984-6193 | C-22 | 3 |
| 5310-00-869-9576 | C-13 | 24 | 5305-00-984-6194 | C-8 | 13 |
| 5935-00-877-2134 | C-12 | 15 | 5305-00-984-6194 | C-9 | 44 |
| 5310-00-877-5797 | C-2 | 1 | 5310-00-989-0908 | C-9 | 31 |
| 5310-00-877-5797 | C-6 | 18 | 5305-00-989-7434 | C-6 | 17 |
| 5310-00-880-5976 | C-9 | 11 | 5305-00-993-1848 | C-1 | 8 |
| 5310-00-883-9384 | C-1 | 16 | 5305-00-993-1848 | C-3 | 2 |
| 5310-00-883-9384 | C-7 | 10 | 5305-00-993-1848 | C-13 | 23 |
| 5310-00-883-9384 | C-29 | 28 | 6130-01-010-3603 | C-1 | 20 |
| 5935-00-885-2264 | C-12 | 18 | 5940-01-013-8287 | C-12 | 9 |
| 5305-00-889-3000 | C-1 | 4 | 5325-01-024-4930 | C-14 | 45 |
| 5305-00-889-3000 | C-2 | 40 | 5320-01-030-9162 | C-7 | 20 |
| 5305-00-889-3000 | C-6 | 44 | 6130-01-033-8775 | C-1 | 20 |
| 5305-00-889-3001 | C-19 | 5 | 5925-01-042-0109 | C-2 | 10 |
| 5950-00-892-8208 | C-2 | 3 | 5310-01-044-6568 | C-8 | 18 |
| 5935-00-892-8895 | C-12 | 11 | 5310-01-044-6568 | C-9 | 41 |
| 5970-00-916-2679 | C-12 | 16 | 5310-01-044-6568 | C-29 | 14 |
| 5310-00-925-9646 | C-15 | 2 | 6145-01-066-5541 | C-2 | 32 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|--------------------|-------|----------|----------|-------------------|-------|----------|----------|
| AN960-C10L | 96906 | C-7 | 16 | MMM-A-121 | 81348 | C-16 | 1 |
| AN960-C10L | 96906 | C-29 | 20 | 299-947-107TY2CL5 | 97499 | C-15 | 7 |
| BZ2RQ18A2 | 91929 | C-14 | 30 | MR36W100ACAAR | 81349 | C-2 | 23 |
| B86 | 59730 | C-12 | 24 | MR36W150ACVVR | 81349 | C-2 | 21 |
| C-2090-T6 | 81860 | C-13 | 1 | MS15795-806 | 96906 | C-9 | 11 |
| C-85355-B | 32159 | C-23 | 7 | MS15795-810 | 96906 | C-8 | 20 |
| CATALOG #5206 | 74545 | C-9 | 15 | MS15795-810 | 96906 | C-9 | 29 |
| CG5050 | 3743 | C-6 | 7 | MS15795-810 | 96906 | C-13 | 8 |
| CX7453 A/U | | C-1 | 48 | MS15795-810 | 96906 | C-16 | 3 |
| CX7705 A/U | | C-1 | 49 | MS15795-810 | 96906 | C-28 | 13 |
| C0-02L0F | 81349 | C-12 | 10 | MS15795-814 | 96906 | C-1 | 23 |
| C0-03LGE | 81349 | C-12 | 4 | MS15795-814 | 96906 | C-13 | 22 |
| C0-03L0F | 81349 | C-12 | 8 | MS15795-814 | 96906 | C-13 | 35 |
| C0-03L0F(3/14)0500 | 15942 | C-12 | 32 | MS15795-841 | 96906 | C-1 | 43 |
| C0-12L0F | 81349 | C-12 | 13 | MS15795-841 | 96906 | C-7 | 2 |
| C3 | 6229 | C-6 | 10 | MS15795-841 | 96906 | C-8 | 2 |
| C3 | 6229 | C-13 | 26 | MS15795-841 | 96906 | C-29 | 23 |
| FHS032-10 | 46384 | C-7 | 15 | MS15795-842 | 96906 | C-1 | 16 |
| FHS032-10 | 46384 | C-29 | 19 | MS15795-842 | 96906 | C-7 | 10 |
| FHS032-12 | 46384 | C-15 | 11 | MS15795-842 | 96906 | C-29 | 28 |
| FHS032-8 | 46384 | C-8 | 15 | MS15795-915 | 96906 | C-11 | 4 |
| FHS032-8 | 46384 | C-9 | 40 | MS15795-942 | 96906 | C-1 | 27 |
| FHS0420 | 46384 | C-9 | 37 | MS15795-942 | 96906 | C-10 | 4 |
| FHS0420-14 | 46384 | C-9 | 27 | MS16562-227 | 96906 | C-27 | 1 |
| FHS0420-14 | 46384 | C-16 | 5 | MS16562-28 | 96906 | C-26 | 8 |
| FHS0420-14 | 46384 | C-28 | 10 | MS16562-28 | 96906 | C-27 | 3 |
| FHS0420-14 | 46384 | C-8 | 21 | MS20144-C3 | 96906 | C-7 | 11 |
| FH832-8 | 46384 | C-2 | 26 | MS20365-632 | 96906 | C-20 | 4 |
| FIG. #254 | 79577 | C-9 | 19 | MS20365-632 | 96906 | C-21 | 6 |
| H5210 | 81860 | C-19 | 1 | MS20470AD4-5 | 96906 | C-7 | 33 |
| LC12GN2 | 81349 | C-12 | 27 | MS20470AD4-5 | 96906 | C-29 | 13 |
| LK832-2 | 46384 | C-9 | 39 | MS21044-C06 | 96906 | C-9 | 12 |
| LT1504C6-6 | 84256 | C-28 | 7 | MS21044-C3 | 96906 | C-29 | 29 |
| MSC17948C413 | 96906 | C-28 | 8 | MS21044-NO. 6 | 96906 | C-2 | 40 |
| MIL-A-46106 | 81349 | C-7 | 25 | MS21044-NO. 6 | 96906 | C-6 | 42 |
| MIL-A-46106 | 81349 | C-8 | 8 | MS21044-NO. 6 | 96906 | C-19 | 7 |
| MIL-A-46106 | 81349 | C-18 | 3 | MS21044-NO. 8 | 96906 | C-2 | 5 |
| MIL-A-46106 | 81349 | C-29 | 4 | MS21044-NO. 8 | 96906 | C-2 | 37 |
| MIL-R-46089 | 81349 | C-7 | 24 | MS21044-NO. 8 | 96906 | C-6 | 45 |
| MIL-R-46089 | 81349 | C-7 | 29 | MS21044-N3 | 96906 | C-2 | 1 |
| MIL-R-46089 | 81349 | C-8 | 9 | MS21044-N3 | 96906 | C-6 | 18 |
| MIL-R-46089 | 81349 | C-8 | 10 | MS21083-C06 | 96906 | C-15 | 2 |
| MIL-R-46089 | 81349 | C-29 | 1 | MS21083-C3 | 96906 | C-7 | 14 |
| MIL-R-46089 | 81349 | C-29 | 5 | MS21083-C3 | 96906 | C-29 | 18 |
| MIL-R-6130 | 81348 | C-15 | 6 | MS21266-2N | 96906 | C-14 | 45 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|----------------|-------|-------------|-------------|----------------|-------|-------------|-------------|
| MS25036-112 | 96906 | C-12 | 21 | MS35207-265 | 96906 | C-3 | 2 |
| MS25036-153 | 96906 | C-12 | 9 | MS35207-265 | 96906 | C-13 | 23 |
| MS25036-154 | 96906 | C-2 | 22 | MS35215-57 | 96906 | C-1 | 26 |
| MS25082-B3 | 96906 | C-10 | 6 | MS35246-2 | 96906 | C-10 | 2 |
| MS25237-387 | 96906 | C-12 | 28 | MS35307-306 | 96906 | C-13 | 33 |
| MS25244-10 | 96906 | C-9 | 34 | MS35307-308 | 96906 | C-13 | 34 |
| MS27183-10 | 96906 | C-1 | 51 | MS35307-362 | 96906 | C-13 | 26 |
| MS27183-10 | 96906 | C-6 | 22 | MS35307-367 | 96906 | C-1 | 22 |
| MS27183-10 | 96906 | C-13 | 17 | MS353070310 | 96906 | C-13 | 9 |
| MS27183-14 | 96906 | C-1 | 33 | MS35333-38 | 96906 | C-2 | 25 |
| MS27183-41 | 96906 | C-1 | 5 | MS35335-31 | 96906 | C-2 | 28 |
| MS27183-41 | 96906 | C-2 | 4 | MS35335-32 | 96906 | C-6 | 16 |
| MS27183-41 | 96906 | C-6 | 46 | MS35338-100 | 96906 | C-1 | 28 |
| MS27183-41 | 96906 | C-8 | 12 | MS35338-100 | 96906 | C-10 | 3 |
| MS27183-41 | 96906 | C-9 | 45 | MS35338-103 | 96906 | C-11 | 3 |
| MS27183-42 | 96906 | C-1 | 10 | MS35338-136 | 96906 | C-7 | 31 |
| MS27183-42 | 96906 | C-2 | 2 | MS35338-136 | 96906 | C-8 | 16 |
| MS27183-42 | 96906 | C-3 | 3 | MS35338-136 | 96906 | C-9 | 42 |
| MS27183-42 | 96906 | C-15 | 10 | MS35338-136 | 96906 | C-29 | 15 |
| MS27183-6 | 96906 | C-2 | 41 | MS35338-137 | 96906 | C-1 | 42 |
| MS27183-6 | 96906 | C-6 | 43 | MS35338-137 | 96906 | C-7 | 3 |
| MS27183-6 | 96906 | C-15 | 3 | MS35338-137 | 96906 | C-8 | 3 |
| MS27183-6 | 96906 | C-19 | 6 | MS35338-137 | 96906 | C-29 | 21 |
| MS27183-6 | 96906 | C-20 | 5 | MS35338-138 | 96906 | C-1 | 15 |
| MS27183-6 | 96906 | C-21 | 7 | MS35338-139 | 96906 | C-13 | 10 |
| MS27183-7 | 96906 | C-20 | 10 | MS35338-139 | 96906 | C-16 | 6 |
| MS27183-7 | 96906 | C-21 | 11 | MS35338-139 | 96906 | C-28 | 12 |
| MS27183-7 | 96906 | C-22 | 4 | MS35338-141 | 96906 | C-1 | 24 |
| MS3106F20-4S | 96906 | C-12 | 6 | MS35338-141 | 96906 | C-13 | 30 |
| MS35206-226 | 96906 | C-15 | 4 | MS35338-157 | 96906 | C-13 | 24 |
| MS35206-227 | 96906 | C-14 | 36 | MS35338-42 | 96906 | C-1 | 6 |
| MS35206-228 | 96906 | C-20 | 7 | MS35338-42 | 96906 | C-2 | 7 |
| MS35206-228 | 96906 | C-21 | 8 | MS35338-43 | 96906 | C-1 | 9 |
| MS35206-230 | 96906 | C-1 | 4 | MS35338-43 | 96906 | C-3 | 4 |
| MS35206-230 | 96906 | C-2 | 39 | MS35338-43 | 96906 | C-15 | 8 |
| MS35206-230 | 96906 | C-6 | 44 | MS35338-44 | 96906 | C-6 | 31 |
| MS35206-231 | 96906 | C-19 | 5 | MS35338-44 | 96906 | C-13 | 2 |
| MS35206-244 | 96906 | C-6 | 47 | MS35338-46 | 96906 | C-1 | 31 |
| MS35206-245 | 96906 | C-20 | 9 | MS35338-46 | 96906 | C-13 | 12 |
| MS35206-245 | 96906 | C-21 | 10 | MS35425-28 | 96906 | C-11 | 2 |
| MS35206-245 | 96906 | C-22 | 3 | MS35425-39 | 96906 | C-16 | 4 |
| MS35206-246 | 96906 | C-8 | 13 | MS35425-40 | 96906 | C-8 | 22 |
| MS35206-246 | 96906 | C-9 | 44 | MS35425-40 | 96906 | C-9 | 28 |
| MS35207-263 | 96906 | C-6 | 17 | MS35425-40 | 96906 | C-28 | 11 |
| MS35207-265 | 96906 | C-1 | 8 | MS35426-13 | 96906 | C-15 | 9 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|----------------|-------|-------------|-------------|----------------|-------|-------------|-------------|
| MS35426-2 | 96906 | C-10 | 2 | MS90725-74 | 96906 | C-13 | 13 |
| MS35489-4 | 96906 | C-21 | 5 | MS9351-05 | 96906 | C-2 | 38 |
| MS35490-6 | 96906 | C-6 | 21 | MW-C-14(41)U0 | 81349 | C-4 | 10 |
| MS35649-2254 | 96906 | C-13 | 32 | MW-C-14(41)U0 | 81349 | C-5 | 13 |
| MS35649-2382 | 96906 | C-1 | 36 | MW-C-14(41)U5 | 81349 | C-5 | 12 |
| MS35649-282 | 96906 | C-2 | 8 | MW-C-14(41)U9 | 81349 | C-4 | 11 |
| MS35649-282 | 96906 | C-2 | 24 | MW-C-14(41)U9 | 81349 | C-5 | 10 |
| MS35650-302 | 96906 | C-3 | 5 | MW-C-16(26)U0 | 81349 | C-2 | 32 |
| MS35650-305 | 96906 | C-10 | 8 | MW-C-16(26)U9 | 81349 | C-2 | 31 |
| MS35691-20 | 96906 | C-11 | 6 | MWC-16-(19)U2 | 81349 | C-12 | 36 |
| MS35691-3 | 96906 | C-9 | 31 | MWC-16-(19)U9 | 81349 | C-12 | 37 |
| MS35822-2A | 96906 | C-7 | 26 | M15098/10-001 | 81349 | C-2 | 33 |
| MS35822-2B | 96906 | C-29 | 6 | M15098/3-002 | 81349 | C-14 | 22 |
| MS35825-3A | 96906 | C-29 | 8 | M23053/5-104-0 | 81349 | C-12 | 30 |
| MS51922-1 | 96906 | C-6 | 23 | M23053/5-106-0 | 81349 | C-12 | 26 |
| MS51947-46 | 96906 | C-27 | 7 | M23053/5-108-0 | 81349 | C-12 | 14 |
| MS51957-31 | 96906 | C-9 | 13 | M23053/5-202-C | 81349 | C-12 | 16 |
| MS51957-32 | 96906 | C-9 | 14 | M24243/7A604F | 81349 | C-29 | 32 |
| MS51957-46 | 96906 | C-7 | 1 | M24243/7A604F | 96906 | C-7 | 21 |
| MS51957-46 | 96906 | C-26 | 9 | M24243/7A606F | 96906 | C-7 | 20 |
| MS51957-46 | 96906 | C-29 | 25 | M39012/19-0009 | 81349 | C-12 | 19 |
| MS51957-46 | 96906 | C-29 | 31 | M39012/25-0006 | 81349 | C-12 | 18 |
| MS51957-47 | 96906 | C-7 | 4 | M45938/1-13 | 81349 | C-8 | 11 |
| MS51957-47 | 96906 | C-8 | 4 | M45938/1-17C | 81349 | C-18 | 1 |
| MS51957-47 | 96906 | C-29 | 22 | M45938/4-5 | 81349 | C-7 | 30 |
| MS51958-64 | 96906 | C-1 | 41 | M45938/4-6 | 81349 | C-8 | 18 |
| MS51958-65 | 96906 | C-1 | 14 | M45938/4-6 | 81349 | C-9 | 41 |
| MS51958-67 | 96906 | C-1 | 19 | M45938/4-6 | 81349 | C-29 | 14 |
| MS51959-31 | 96906 | C-9 | 20 | M45938/4-8 | 81349 | C-2 | 36 |
| MS51959-82 | 96906 | C-13 | 16 | M45938/8-6 | 81349 | C-17 | 2 |
| MS51959-84 | 96906 | C-13 | 14 | M45938/8-7C | 81349 | C-16 | 8 |
| MS51960-67 | 96906 | C-13 | 19 | M76B | 81349 | C-12 | 22 |
| MS51969-3 | 96906 | C-11 | 8 | N3 | 6229 | C-13 | 37 |
| MS87006-3 | 96906 | C-26 | 5 | N5 | 6229 | C-13 | 27 |
| MS87006-3 | 96906 | C-27 | 5 | N7 | 6229 | C-13 | 28 |
| MS90724-7 | 96906 | C-20 | 8 | P40 | 19634 | C-23 | 6 |
| MS90724-7 | 96906 | C-21 | 9 | PB08NA01 | 81349 | C-9 | 2 |
| MS90724-7 | 96906 | C-24 | 4 | PXS-EE-28VF | 23934 | C-1 | 20 |
| MS90724-7 | 96906 | C-25 | 1 | P116-447-5-24A | 78553 | C-29 | 11 |
| MS90725-10 | 96906 | C-6 | 32 | P116-447-5-24A | 78553 | C-7 | 32 |
| MS90725-10 | 96906 | C-13 | 18 | P116-447-5-24A | 78553 | C-8 | 17 |
| MS90725-6 | 96906 | C-1 | 50 | P116-447-5-24A | 78553 | C-9 | 43 |
| MS90725-6 | 96906 | C-13 | 3 | Q0N-9-6M-SPL | 14280 | C-2 | 6 |
| MS90725-60 | 96906 | C-1 | 32 | Q0T-2020 | 14280 | C-2 | 14 |
| MS90725-61 | 96906 | C-1 | 35 | Q0T2030 | 14280 | C-2 | 13 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|---------------|-------|----------|----------|---------------|-------|----------|----------|
| RC435U | 80058 | C-1 | 47 | 0188-2-2026 | 15942 | C-7 | 6 |
| RG58A | 81349 | C-12 | 20 | 0188-2-2027 | 15942 | C-8 | 19 |
| RPM #1 | 8063 | C-8 | 6 | 0188-2-2029 | 15942 | C-7 | 7 |
| RPM #1 | 8063 | C-9 | 38 | 0188-2-2033 | 15942 | C-2 | 30 |
| RS-56150-SS3 | 73484 | C-10 | 7 | 0188-2-2034 | 15942 | C-2 | 35 |
| RS-80325-SS3 | 73484 | C-11 | 7 | 0188-2-2035 | 15942 | C-2 | 17 |
| SC-DL-147188 | | C-1 | 1 | 0188-2-2036 | 15942 | C-2 | 16 |
| SMB165914 | 80063 | C-12 | 2 | 0188-2-2039-1 | 15942 | C-10 | 1 |
| SM-C-414381G | 80063 | C-12 | 17 | 0188-2-2040-1 | 15942 | C-11 | 1 |
| SPECIAL 3000B | 79725 | C-4 | 3 | 0188-2-2043 | 15942 | C-9 | 24 |
| SPECIAL 3000B | 79725 | C-5 | 3 | 0188-2-2044 | 15942 | C-9 | 26 |
| SPECIAL 3007 | 79725 | C-23 | 3 | 0188-2-2045 | 15942 | C-9 | 21 |
| SS8B120 | 3481 | C-7 | 5 | 0188-2-2046 | 15942 | C-9 | 7 |
| SS8B160 | 3481 | C-29 | 24 | 0188-2-2047 | 15942 | C-9 | 16 |
| SS8B241 | 3481 | C-7 | 22 | 0188-2-2047 | 15942 | C-9 | 32 |
| SS8B281 | 3481 | C-29 | 33 | 0188-2-2048 | 15942 | C-9 | 5 |
| S31-200C&I | 3481 | C-26 | 3 | 0188-2-2049 | 15942 | C-9 | 22 |
| U-237/G | 80058 | C-12 | 1 | 0188-2-2050 | 15942 | C-9 | 4 |
| U-238()/G | 81349 | C-9 | 18 | 0188-2-2051 | 15942 | C-9 | 17 |
| U-288/U | 81349 | C-12 | 11 | 0188-2-2052 | 15942 | C-9 | 47 |
| U-291/U | 81349 | C-12 | 15 | 0188-2-2053 | 15942 | C-7 | 34 |
| WC375/01-002 | 81348 | C-2 | 10 | 0188-2-2053 | 15942 | C-29 | 12 |
| WC375/01-003 | 81348 | C-2 | 12 | 0188-2-2054 | 15942 | C-7 | 17 |
| WC375/02-009 | 81348 | C-2 | 15 | 0188-2-2054 | 15942 | C-29 | 16 |
| WC596/40-2 | 81348 | C-9 | 33 | 0188-2-2056 | 15942 | C-7 | 27 |
| WT-26/U | 80058 | C-12 | 3 | 0188-2-2056 | 15942 | C-29 | 7 |
| X-4727 | 70485 | C-6 | 33 | 0188-2-2057 | 15942 | C-7 | 12 |
| X-4727 | 70485 | C-14 | 43 | 0188-2-2057 | 15942 | C-29 | 30 |
| 0188-2-2001 | 15942 | C-14 | 31 | 0188-2-2060 | 15942 | C-4 | 4 |
| 0188-2-2003-1 | 15942 | C-16 | 9 | 0188-2-2060 | 15942 | C-5 | 4 |
| 0188-2-2004 | 15942 | C-16 | 7 | 0188-2-2060-1 | 15942 | C-14 | 41 |
| 0188-2-2005 | 15942 | C-16 | 11 | 0188-2-2061 | 15942 | C-14 | 14 |
| 0188-2-2006-1 | 15942 | C-16 | 14 | 0188-2-2061 | 15942 | C-23 | 8 |
| 0188-2-2006-2 | 15942 | C-16 | 13 | 0188-2-2062 | 15942 | C-22 | 1 |
| 0188-2-2010 | 15942 | C-1 | 18 | 0188-2-2062-1 | 15942 | C-14 | 1 |
| 0188-2-2011 | 15942 | C-27 | 2 | 0188-2-2062-2 | 15942 | C-14 | 24 |
| 0188-2-2012-1 | 15942 | C-26 | 4 | 0188-2-2063 | 15942 | C-14 | 35 |
| 0188-2-2012-2 | 15942 | C-27 | 4 | 0188-2-2064 | 15942 | C-14 | 37 |
| 0188-2-2013-1 | 15942 | C-26 | 6 | 0188-2-2065 | 15942 | C-14 | 21 |
| 0188-2-2014 | 15942 | C-19 | 2 | 0188-2-2066 | 15952 | C-1 | 17 |
| 0188-2-2016-1 | 15942 | C-28 | 4 | 0188-2-2068 | 15942 | C-23 | 11 |
| 0188-2-2016-1 | 15942 | C-28 | 9 | 0188-2-2069 | 15942 | C-23 | 4 |
| 0188-2-2017 | 15942 | C-9 | 30 | 0188-2-2070 | 15942 | C-23 | 10 |
| 0188-2-2025-1 | 15942 | C-6 | 2 | 0188-2-2071 | 15942 | C-24 | 2 |
| 0188-2-2025-2 | 15942 | C-6 | 5 | 0188-2-2072 | 15942 | C-22 | 6 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|----------------|--------|-------------|-------------|----------------|-------|-------------|-------------|
| 0188-2-2073 | 15942 | C-25 | 2 | 0188-2-3078 | 15942 | C-29 | 2 |
| 0188-2-2074 | 15942 | C-6 | 50 | 0188-2-3082 | 15942 | C-29 | 26 |
| 0188-2-2075 | C15942 | C-13 | 5 | 0188-2-3087 | 15942 | C-14 | 15 |
| 0188-2-2076 | 15942 | C-13 | 21 | 0188-2-3087 | 15942 | C-22 | 5 |
| 0188-2-2077 | 15942 | C-13 | 7 | 0188-2-3088 | 15942 | C-14 | 17 |
| 0188-2-2078 | 15942 | C-3 | 7 | 0188-2-3091-1 | 15942 | C-4 | 2 |
| 0188-2-2081 | 15942 | C-1 | 13 | 0188-2-3091-1 | 15942 | C-5 | 2 |
| 0188-2-2084 | 15942 | C-1 | 11 | 0188-2-3091-1 | 15942 | C-14 | 3 |
| 0188-2-3001-1 | 15942 | C-16 | 12 | 0188-2-3091-2 | 15942 | C-14 | 29 |
| 0188-2-3005-1 | 15942 | C-26 | 7 | 0188-2-3096 | 15942 | C-21 | 2 |
| 0188-2-3005-2 | 15942 | C-27 | 8 | 0188-2-3097 | 15942 | C-20 | 1 |
| 0188-2-3008-3 | 15942 | C-6 | 3 | 0188-2-3097 | 15942 | C-21 | 1 |
| 0188-2-3008-4 | 15942 | C-6 | 12 | 0188-2-3097 | 15942 | C-24 | 1 |
| 0188-2-3010 | 15942 | C-6 | 28 | 0188-2-3097 | 15942 | C-25 | 3 |
| 0188-2-3013 | 15942 | C-4 | 1 | 0188-2-3098-1 | 15942 | C-22 | 7 |
| 0188-2-3013 | 15942 | C-5 | 1 | 0188-2-3098-2 | 15942 | C-20 | 11 |
| 0188-2-3013-1 | 15942 | C-6 | 20 | 0188-2-3098-2 | 15942 | C-21 | 12 |
| 0188-2-3013-3 | 15942 | C-6 | 14 | 0188-2-3102 | 15942 | C-4 | 5 |
| 0188-2-3014 | 15942 | C-1 | 25 | 0188-2-3102-1 | 15942 | C-14 | 5 |
| 0188-2-3015-2 | 15942 | C-6 | 39 | 0188-2-3102-2 | 15942 | C-14 | 19 |
| 0188-2-3019-2 | 15942 | C-28 | 14 | 0188-2-3103 | 15942 | C-23 | 5 |
| 0188-2-3021-1 | 15942 | C-14 | 42 | 0188-2-3104 | 15942 | C-23 | 9 |
| 0188-2-3026-1 | 15942 | C-14 | 2 | 0188-2-3110 | 15942 | C-23 | 12 |
| 0188-2-3026-2 | 15942 | C-6 | 1 | 0188-2-3111 | 15942 | C-23 | 1 |
| 0188-2-3026-3 | 15942 | C-14 | 12 | 0188-2-3114-1 | 15942 | C-15 | 5 |
| 0188-2-3027-1 | 15942 | C-6 | 34 | 0188-2-3115 | 15942 | C-13 | 36 |
| 0188-2-3029-1 | 15942 | C-8 | 14 | 0188-2-3116 | 15942 | C-13 | 20 |
| 0188-2-3032 | 15942 | C-8 | 5 | 0188-2-3116-1 | 15942 | C-18 | 4 |
| 0188-2-3040-1 | 15942 | C-6 | 6 | 0188-2-3116-2 | 15942 | C-18 | 2 |
| 0188-2-3040-2 | 15942 | C-6 | 11 | 0188-2-3119 | 15942 | C-3 | 6 |
| 0188-2-3043-2 | 15942 | C-6 | 49 | 0188-2-3120 | 15942 | C-20 | 6 |
| 0188-2-3044 | 15942 | C-2 | 27 | 0188-2-3122-2 | 15942 | C-1 | 29 |
| 0188-2-3051 | 15942 | C-9 | 23 | 0188-2-3132-1 | 15942 | C-6 | 4 |
| 0188-2-3052 | 15942 | C-9 | 6 | 0188-2-3123-2 | 15942 | C-6 | 47 |
| 0188-2-3053-1 | 15942 | C-14 | 39 | 0188-2-3135 | 15942 | C-1 | 40 |
| 0188-2-3058 | 15942 | C-12 | 12 | 0188-2-3136 | 15942 | C-1 | 44 |
| 0188-2-3058-9 | 15942 | C-12 | 5 | 0188-2-4001 | 15942 | C-6 | 15 |
| 0188-2-3059 | 15942 | C-28 | 1 | 0188-2-4002 | 15942 | C-14 | 13 |
| 0188-2-3060-1 | 15942 | C-28 | 6 | 0188-2-4003 | 15942 | C-13 | 6 |
| 0188-2-3060-2 | 15942 | C-28 | 5 | 0188-2-4004 | 15942 | C-1 | 2 |
| 0188-2-3071 | 15942 | C-7 | 18 | 0188-2-4006 | 15942 | C-13 | 15 |
| 0188-2-3072 | 15942 | C-7 | 28 | 0188-2-4006-1 | 15942 | C-16 | 10 |
| 0188-2-3073 | 15942 | C-7 | 19 | 0188-2-4006-2 | 15942 | C-16 | 15 |
| 0188-2-3074 | 15942 | C-7 | 9 | 0188-2-4006-3 | 15942 | C-16 | 2 |
| 0188-2-3074 | 15942 | C-29 | 10 | 0188-2-4007 | 15942 | C-1 | 45 |
| 0188-2-3075 | 15942 | C-7 | 23 | 0188-2-4015 | 15942 | C-19 | 4 |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|---------------|-------|----------|----------|-----------------|-------|----------|----------|
| 0188-2-4016 | 15942 | C-1 | 3 | 0188-2-4073 | 15942 | C-3 | 9 |
| 0188-2-4017 | 15942 | C-1 | 7 | 0188-2-4075-1 | 15942 | C-4 | 7 |
| 0188-2-4021 | 15942 | C-6 | 25 | 0188-2-4075-2 | 15942 | C-4 | 8 |
| 0188-2-4022 | 15942 | C-8 | 1 | 0188-2-4075-3 | 15942 | C-4 | 9 |
| 0188-2-4023 | 15942 | C-6 | 30 | 0188-2-4076 | 15942 | C-14 | 26 |
| 0188-2-4026 | 15942 | C-13 | 39 | 0188-2-4077 | 15942 | C-26 | 2 |
| 0188-2-4031 | 15942 | C-2 | 9 | 0188-2-4078 | 15942 | C-19 | 3 |
| 0188-2-4033 | 15942 | C-2 | 11 | 0188-2-4079 | 15942 | C-14 | 7 |
| 0188-2-4034 | 15942 | C-6 | 24 | 0188-2-4080-2 | 15942 | C-14 | 8 |
| 0188-2-4037 | 15942 | C-2 | 29 | 0188-2-4081-2 | 15942 | C-14 | 25 |
| 0188-2-4039 | 15942 | C-9 | 46 | 0188-2-4082-1 | 15942 | C-8 | 7 |
| 0188-2-4040 | 15942 | C-6 | 37 | 0188-2-4083 | 15942 | C-1 | 46 |
| 0188-2-4042 | 15942 | C-9 | 35 | 0188-2-4084 | 15942 | C-26 | 1 |
| 0188-2-4043 | 15942 | C-9 | 1 | 0188-2-4085 | 15942 | C-1 | 38 |
| 0188-2-4044 | 15942 | C-9 | 25 | 0188-2-4087 | 15942 | C-1 | 30 |
| 0188-2-4044 | 15942 | C-9 | 36 | 0188-2-4088 | 15942 | C-1 | 39 |
| 0188-2-4047 | 15942 | C-14 | 40 | 0188-2-4089 | 15942 | C-13 | 16 |
| 0188-2-4048 | 15942 | C-28 | 3 | 0188-2-4089-1 | 15942 | C-17 | 1 |
| 0188-2-4049 | 15942 | C-13 | 38 | 0188-204071-3 | 15942 | C-5 | 9 |
| 0188-2-4050 | 15942 | C-7 | 8 | 10-37093-323 | 74545 | C-9 | 9 |
| 0188-2-4052 | 15942 | C-29 | 27 | 10-37147-28 | 74545 | C-9 | 10 |
| 0188-2-4053 | 15942 | C-29 | 3 | 10-40450-28 | 74545 | C-9 | 8 |
| 0188-2-4053-1 | 15942 | C-29 | 9 | 100-200-12-4 | 99378 | C-6 | 9 |
| 0188-2-4054 | 15942 | C-6 | 38 | 10018 | 75582 | C-20 | 3 |
| 0188-2-4055 | 15942 | C-6 | 29 | 101-5030-09-201 | 72619 | C-12 | 29 |
| 0188-2-4058 | 15942 | C-14 | 44 | 12-240 | 95263 | C-21 | 4 |
| 0188-2-4059 | 15942 | C-1 | 37 | 1231 | 92194 | C-12 | 23 |
| 0188-2-4059 | 15942 | C-3 | 1 | 141 | 59730 | C-6 | 36 |
| 0188-2-4060-1 | 15942 | C-14 | 11 | 142 | 59730 | C-6 | 8 |
| 0188-2-4060-2 | 15942 | C-14 | 9 | 143 | 59730 | C-6 | 27 |
| 0188-2-4060-3 | 15942 | C-14 | 32 | 144 | 59730 | C-6 | 41 |
| 0188-2-4060-4 | 15942 | C-14 | 33 | 1601-0414 | 19738 | C-9 | 3 |
| 0188-2-4060-5 | 15942 | C-14 | 34 | 1601-0613 | 19738 | C-6 | 13 |
| 0188-2-4061 | 15942 | C-14 | 20 | 1601-1414 | 19738 | C-28 | 2 |
| 0188-2-4062 | 15942 | C-22 | 8 | 1942 | 59730 | C-6 | 35 |
| 0188-2-4063 | 15942 | C-14 | 16 | 1944 | 59730 | C-6 | 26 |
| 0188-2-4064 | 15942 | C-13 | 11 | 1946 | 59730 | C-6 | 40 |
| 0188-2-4065 | 15942 | C-13 | 31 | 210K | 14557 | C-15 | 1 |
| 0188-2-4066-1 | 15942 | C-15 | 12 | 25T8DC | 24446 | C-21 | 3 |
| 0188-2-4067 | 15942 | C-13 | 25 | 3CT11B | 93993 | C-2 | 3 |
| 0188-2-4068 | 15942 | C-13 | 4 | 3000C | 79725 | C-5 | 5 |
| 0188-2-4069 | 15942 | C-1 | 34 | 3000WC | 79725 | C-14 | 6 |
| 0188-2-4070 | 15942 | C-14 | 18 | 3015 PART 2 | 79725 | C-6 | 19 |
| 0188-2-4071-1 | 15942 | C-5 | 7 | 325150 | 779 | C-5 | 11 |
| 0188-2-4071-2 | 15942 | C-5 | 8 | 3302 | 59730 | C-4 | 6 |
| | | | | 3302 | 5 | | |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|------------------|-------|-------------|-------------|----------------|-------|-------------|-------------|
| 3302 | 59730 | C-5 | 6 | 4700 | 74545 | C-14 | 28 |
| 34312 | 40517 | C-12 | 35 | 56-941-45 | 75377 | C-10 | 5 |
| 3515-14-11 | 78189 | C-7 | 13 | 7C7/B | 24446 | C-20 | 2 |
| 3515-14-11 | 78189 | C-29 | 17 | 7545 | 74545 | C-12 | 34 |
| 37-0408-0335-245 | 72619 | C-2 | 34 | 78X491 | 24446 | C-24 | 3 |
| 4020-26-00 | 78189 | C-11 | 5 | 78X736 | 24446 | C-25 | 4 |
| 4700 | 74545 | C-5 | 14 | 9436 | 2273 | C-1 | 21 |

APPENDIX D

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1 SCOPE. This appendix list expendable supplies and materials you will need to operate and maintain the Electrical Equipment Shelter S-457A/G. These items are authorized to you by CTA 50-970, Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items).

D-2 EXPLANATION OF COLUMNS.

a. Column 1, Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App. D").

b. Column 2, Level. This column identifies the lowest level of maintenance that requires the listed item.

0 Organizational maintenance

c. Column 3, National Stock Number (NSN). This is the NSN assigned to the item; use it to request or requisition the item.

d. Column 4, Description. Indicates the Federal Item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

e. Column 5, Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the U/M differs from the unit of issue, requisition the lowest unit that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|-----------------------|--------------|------------------------------------|----------------------------------|------------|
| 1 | 0 | 6850-00-935-1082 | TRICHLOROETHANE CLEANING SOLVENT | OZ |
| 2 | 0 | 8020-00-246-8806 | SOFT BRUSH | EA |
| 3 | 0 | 7920-00-365-4694 | 1 BRISTLE BRUSH | EA |
| 4 | 0 | 8305-00-267-3015 | LINT-FREE CLOTH | EA |

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Official:

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Major General, United States Army
The Adjutant General

E. C. MEYER
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TM 32-5895-215-ESC

PUBLICATION DATE

OCT 71

PUBLICATION TITLE

AN/MLQ-24

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PARA-GRAPH

FIGURE NO.

TABLE NO.

6

2H

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

THE RATING FOR THIS STEP DOES NOT ACCOUNT FOR THE OPERATIONAL CONDITION OF THE COUNTER ON THE IP-81A.

RECOMMEND THIS STEP RATE THE SYSTEM RED WHEN THE COUNTER IS INOPERATIVE SINCE THE EQUIPMENT CANNOT ACCOMPLISH ITS PRIMARY MISSION.

6

2I

CHANGE INSTRUCTIONS TO READ "REPEAT STEP H FOR REMAINING TUNERS OF SYSTEM!"

SAMPLE

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SIGN HERE:

Bill N. Ernest

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THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

TM 32-5410-001-24&P

PUBLICATION DATE

October 1980

PUBLICATION TITLE ORG, DS & GS Maintenance Manual for Electrical Equipment Shelter S-457A/G

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

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DA FORM 2028-2
1 JUL 79

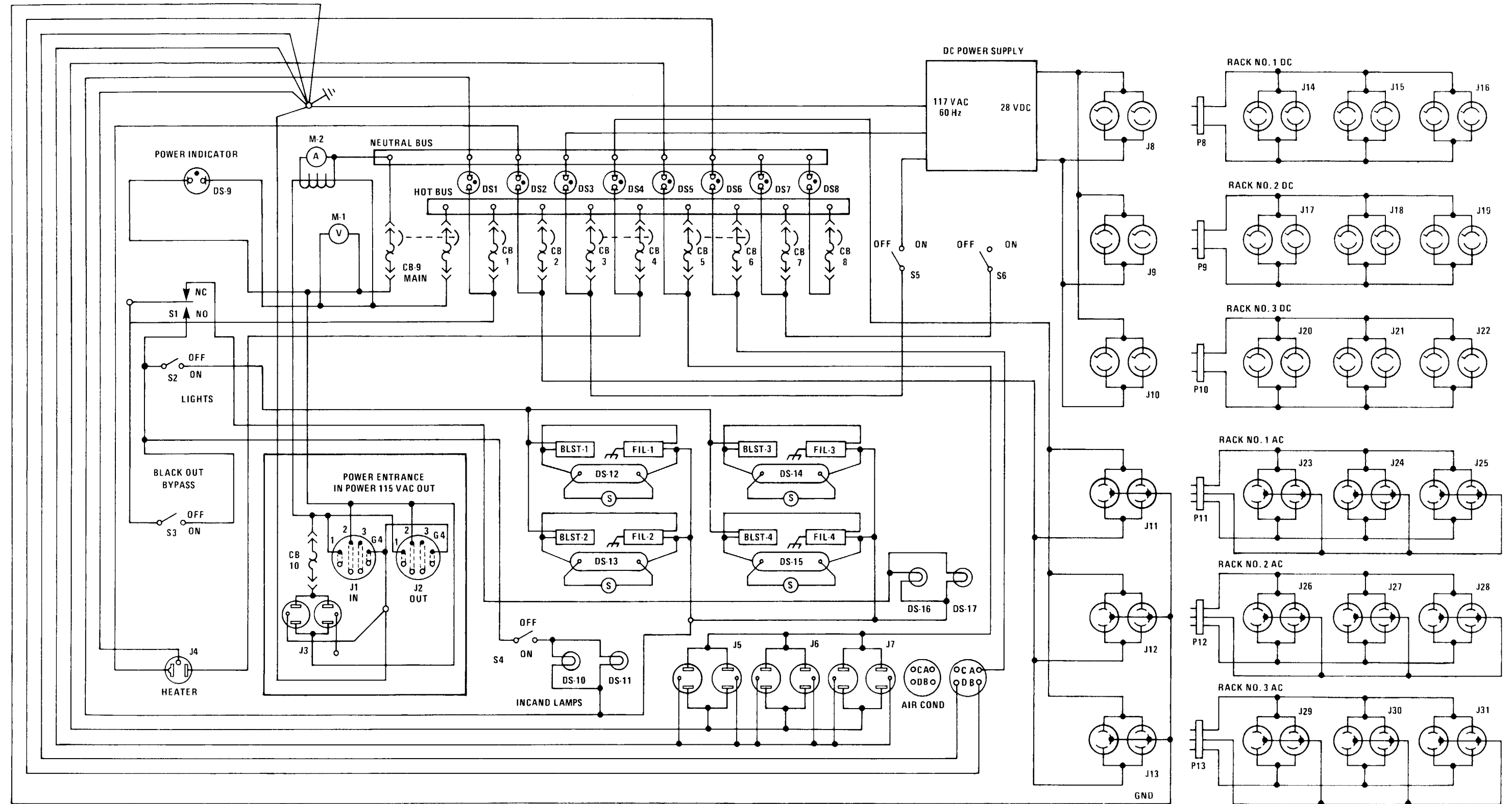
PREVIOUS EDITIONS ARE OBSOLETE.

P.S.-IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL OUTLETS ARE DESIGNATED CONVENIENCE.
- THE CIRCUIT BREAKER RATINGS AND USES ARE AS LISTED BELOW:

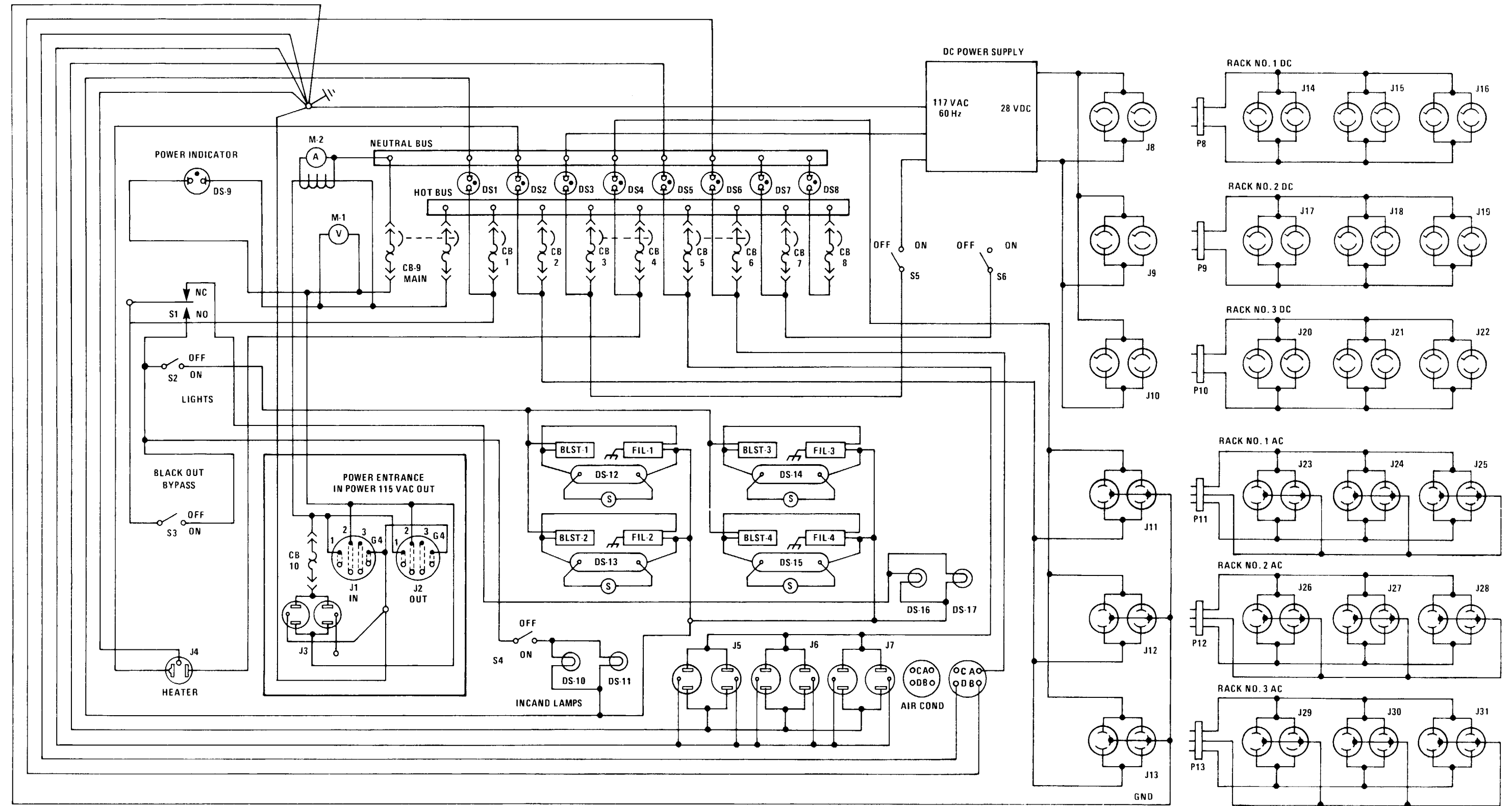
| | | |
|-------|----------|--------|
| CB1 | LIGHTS | 15 AMP |
| CB2 | AC EQUIP | 15 AMP |
| CB3 | DC PS-1 | 20 AMP |
| CB4 | HEATER | 20 AMP |
| CB5 | CONV | 20 AMP |
| CB6 | AIR COND | 30 AMP |
| CB7 | SPARE DC | |
| | PS-2 | 20 AMP |
| CB8 | SPARE | 15 AMP |
| CB9 | MAIN | 60 AMP |
| CB-10 | CONV | 10 AMP |



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FO-1. Electrical Power Schematic

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