

TECHNICAL MANUAL

**UNIT, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

FOR

**AMPLIFIER, AUDIO FREQUENCY
AM-1780B/VRC
(NSN 5895-01-284-3057) (EIC: N/A)**

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
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(Current as of 1 February 1997)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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*This manual supersedes the AM-1780B Parts Listing contained in TM 11-5820-898-20P, 1 October 1989.

**UNIT, DIRECT SUPPORT AND
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REPAIR PARTS AND SPECIAL TOOLS LIST**

SECTION I. INTRODUCTION

1. SCOPE

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for the performance of unit, direct support and general support maintenance of the AM-1780B/VRC. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

2. GENERAL

In addition to Section I, Introduction, 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 by this RPSTL for use in the performance of maintenance. This list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header.

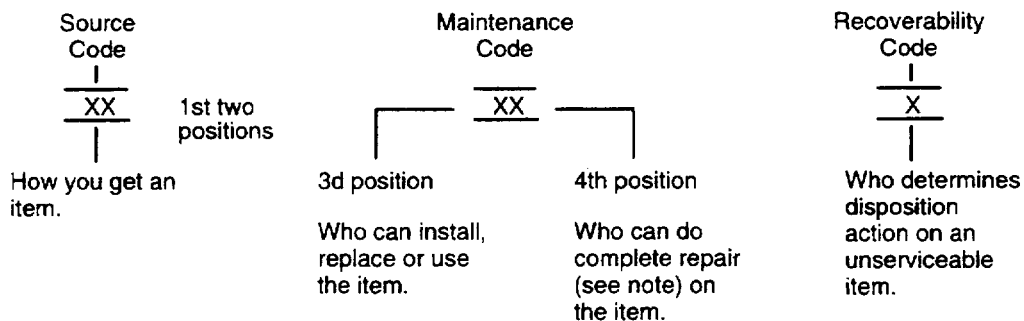
b. Section III. Special Tools List. Not applicable.

c. Section IV. Cross-Reference Indexes. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, 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. The figure number and item number index lists figure and item numbers in numeric sequence and cross-references National stock number, Commercial and Government Entity Code, and part numbers.

3. EXPLANATION OF COLUMNS (Section II and III)

a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria and disposition instruction, as shown in the following breakout.



NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) *Source code.* The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code

Explanation

PA
PB
PC
PD
PE
PF
PG

Stocked items: use the applicable NSN to request/requisition items with these source codes. They are authorized to the level indicated by the code entered in the third position of the SMR code.

NOTE

Items coded PC are subject to deterioration.

KD
KF
KB

Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.

MO - Made at org/AVUM category
MF - Made at DS/AVIM category
MH - Made at GS category
ML - Made at Specialized Repair Activity (SRA)
MD - Made at Depot

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.

AO - Assembled by org/AVUM category
AF - Assembled by DS/AVIM category
AH - Assembled by GS category
AL - Assembled by SRA
AD - Assembled by Depot

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance.

Code	Application/Explanation
XA -	Do not requisition an "XA" coded item. Order its next higher assembly. (Also, refer to NOTE below.)
XB -	If an "XB" item is not available from salvage, order it using the CAGEC and part number given.
XC -	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD -	Item is not stocked. Order an "XD" coded item through normal supply channels using the CAGEC and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

(2) *Maintenance code.* Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

Code	Application/Explanation
C -	Crew or operator maintenance done within organizational or aviation maintenance.
O -	Unit or aviation unit category can remove, replace, and use the item.
F -	Direct support or aviation intermediate category can remove, replace, and use the item.
H -	General support category can remove, replace, and use the item.
L -	Specialized repair activity can remove, replace, and use the item.
D -	Depot category can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Code	Application/Explanation
O -	Unit or aviation unit is the lowest category that can do complete repair of the item.
F -	Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
H -	General support is the lowest category that can do complete repair of the item.
L -	Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
D -	Depot is the lowest category that can do complete repair of the item.
Z -	Nonreparable. No repair is authorized.
B -	No repair is authorized. (No parts or special tools are assigned for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.

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

Recoverability

Code	Application/Explanation
Z -	Nonreparable item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMR code.
O -	Reparable item. When uneconomically repairable, condemn and dispose of the item at organizational or aviation unit category.

Recoverability

Code	Application/Explanation
F	- Repairable item. When uneconomically repairable, condemn and dispose of the item at direct support or a aviation intermediate category.
H	- Repairable item. When uneconomically repairable, condemn and dispose of the item at general support category.
D	- Repairable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
L	- Repairable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	- Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material. Refer to appropriate manuals/directives for specific instructions.

c. *CAGEC (Column (3))*. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. *Part Number (Column (4))*. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. *Description and Usable on Code (UOC) (Column (5))*. This column includes the following information.

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification of the item is indicated by the parenthetical entry (*insert applicable physical security classification abbreviation*, e.g., Phy Sec C1 (C) - Confidential, Phy Sec C1 (S) - Secret, Phy Sec C1 (- Top Secret).
- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in this column in the line entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line of the description (before UOC).
- (7) Usable on code, when applicable (para 5).
- (8) In the Special Tools section, the basis of issue (BOI) appears as the last line in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.
- (9) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.

f. *Qty (Column (6))*. 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 the quantity is variable and the quantity may vary from application to application.

4. EXPLANATION OF COLUMNS (Section IV)

a. *National Stock Number (NSN) Index*.

(1) *Stock number column*. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (13 digits) sequence.

(2) *Fig. column*. This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.

(3) *Item column.* The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.

b. *Part Number Index.* Part numbers in this index are listed by part number in ascending alphanumeric sequence.

(1) *CAGEC column.* This column lists the Commercial and Government Entity Code (CAGEC).

(2) *Part number column.* This column indicates the part number assigned to the item.

(3) *Stock number column.* This column lists the National stock number for the associated part number and manufacturer identified in the part number and CAGEC columns to the left.

(4) *Fig. column.* This column lists the number of the figure where the item is identified/located in sections II and III.

(5) *Item column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. *Figure and Item Number Index.*

(1) *Fig. column.* This column lists the number of the figure where the item is identified/located in sections II and III.

(2) *Item column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column

(3) *Stock number column.* This column lists the National stock number for the item.

(4) *CAGEC column.* The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) *Part number column.* Indicates the primary number used by the manufacturer (individual, 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.

5. SPECIAL INFORMATION

a. *Associated Publications.* The publications listed below pertain to the AM-1780B/VRC and its components:

TM 11-5830-340-23P	Intercommunications Set, AN/VIC-1 (V)
TM 11-5830-340-12	Intercommunications Set, AN/VIC-1 (V)
TM 11-5895-1548-34	Audio Frequency, Amplifier AM-1780B/VRC
TM 11-5820-898-20P	Audio Frequency, Amplifier AM-1780A/VRC and AM-1780B/VRC

b. *National Stock Numbers.* National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-MM, Fort Monmouth, NJ 07703-5007 for the part required to support your equipment.

6. HOW TO LOCATE REPAIR PARTS

a. *When National stock number or part number is not known.*

(1) *First.* Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) *Second.* Find the figure covering the assembly group or subassembly group to which the item belongs.

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

(4) *Fourth.* Refer to the Repair Parts Lists for the figure to find the part number for the item number noted on the figure.

(5) *Fifth.* Refer to the Part Number Index to find the NSN, if assigned.

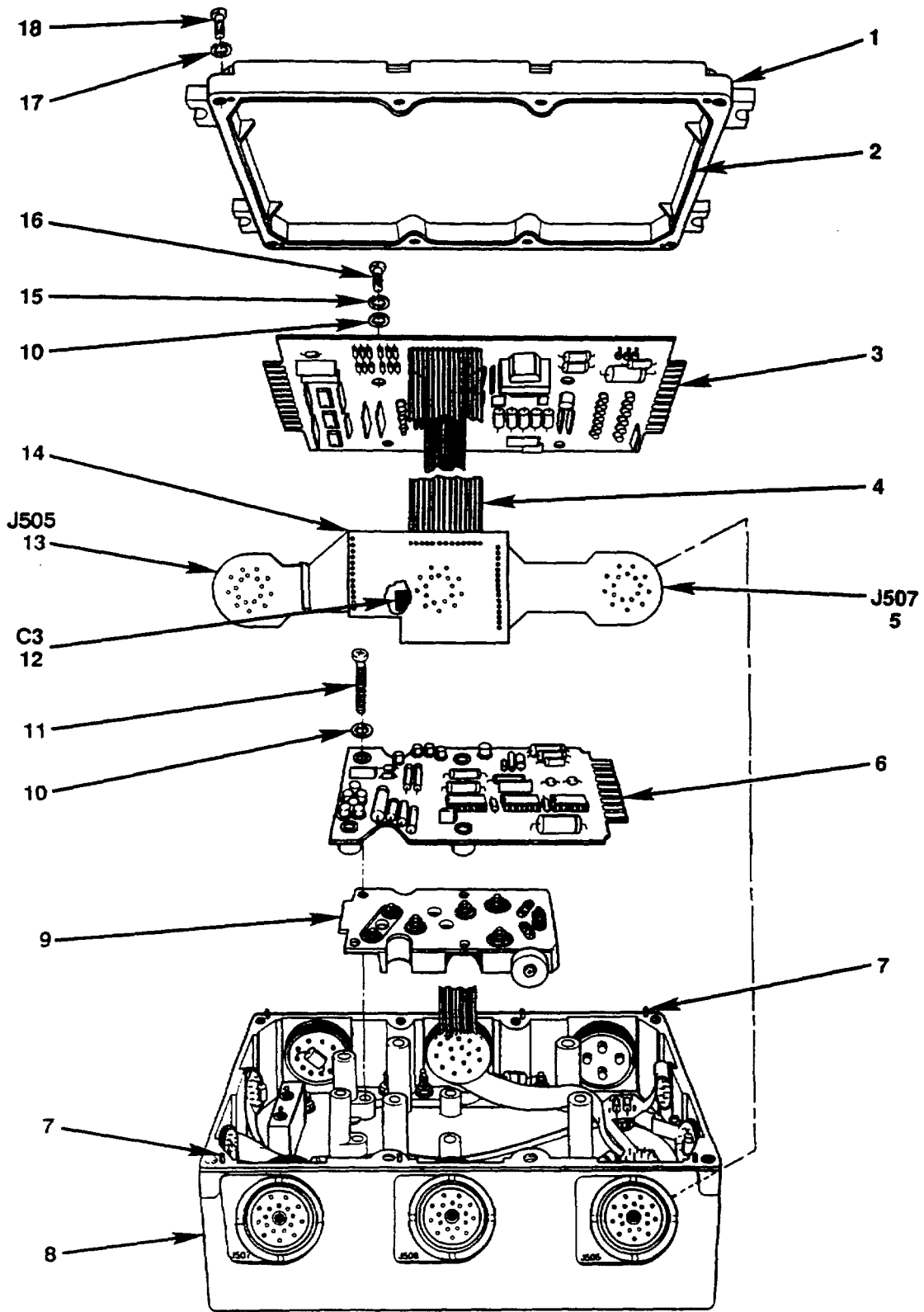
b. When National stock number or part number is known.

(1) *First.* Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item identification number (NIIN) sequence (para 4a(1)). The part numbers in the part number index are listed in ascending alphanumeric sequence (para 4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) *Second.* After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. ABBREVIATIONS

Not applicable.



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Figure 1. Amplifier, Audio Frequency, AM-1780B/VRC (Sheet 1 of 3)

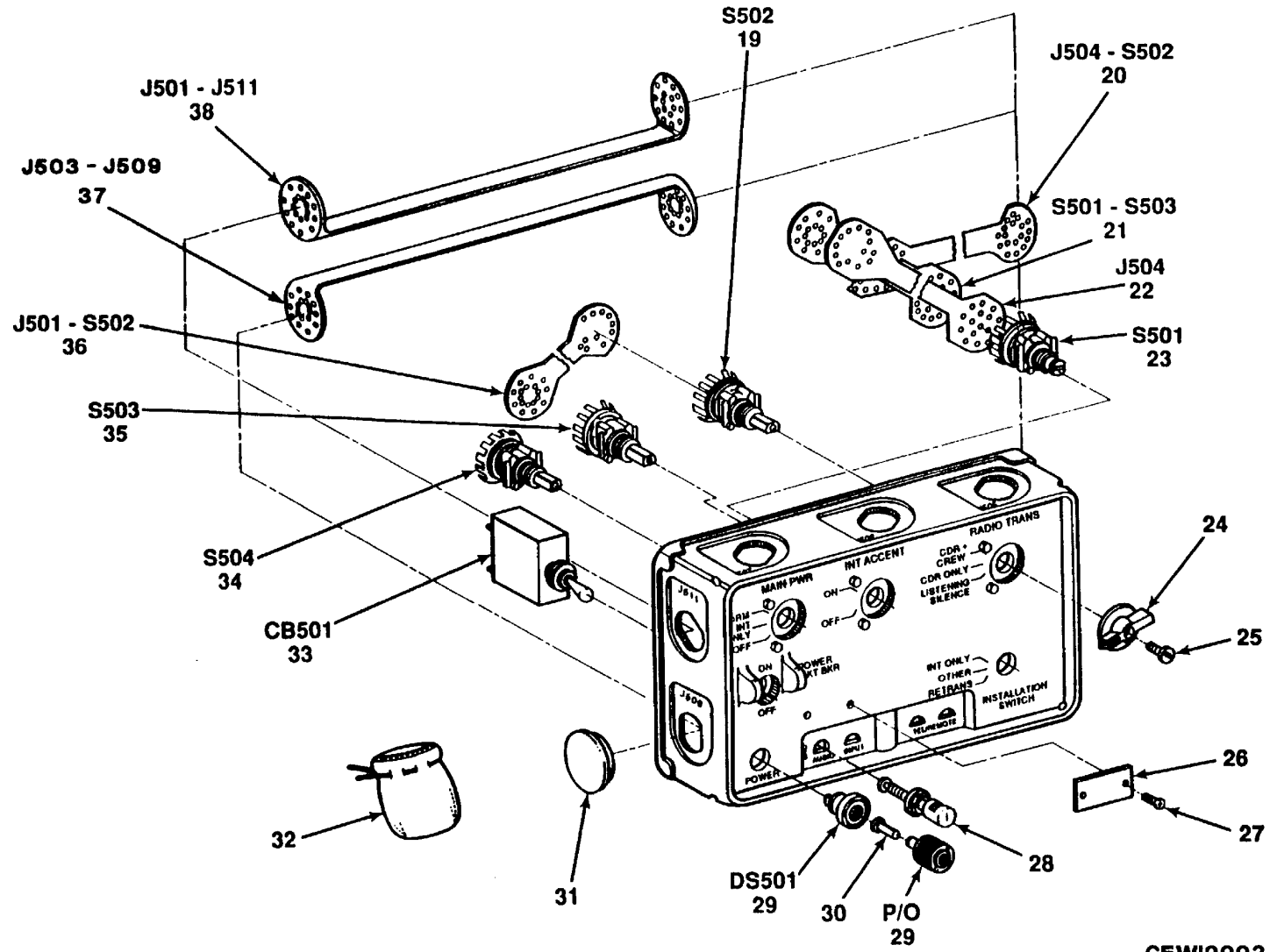
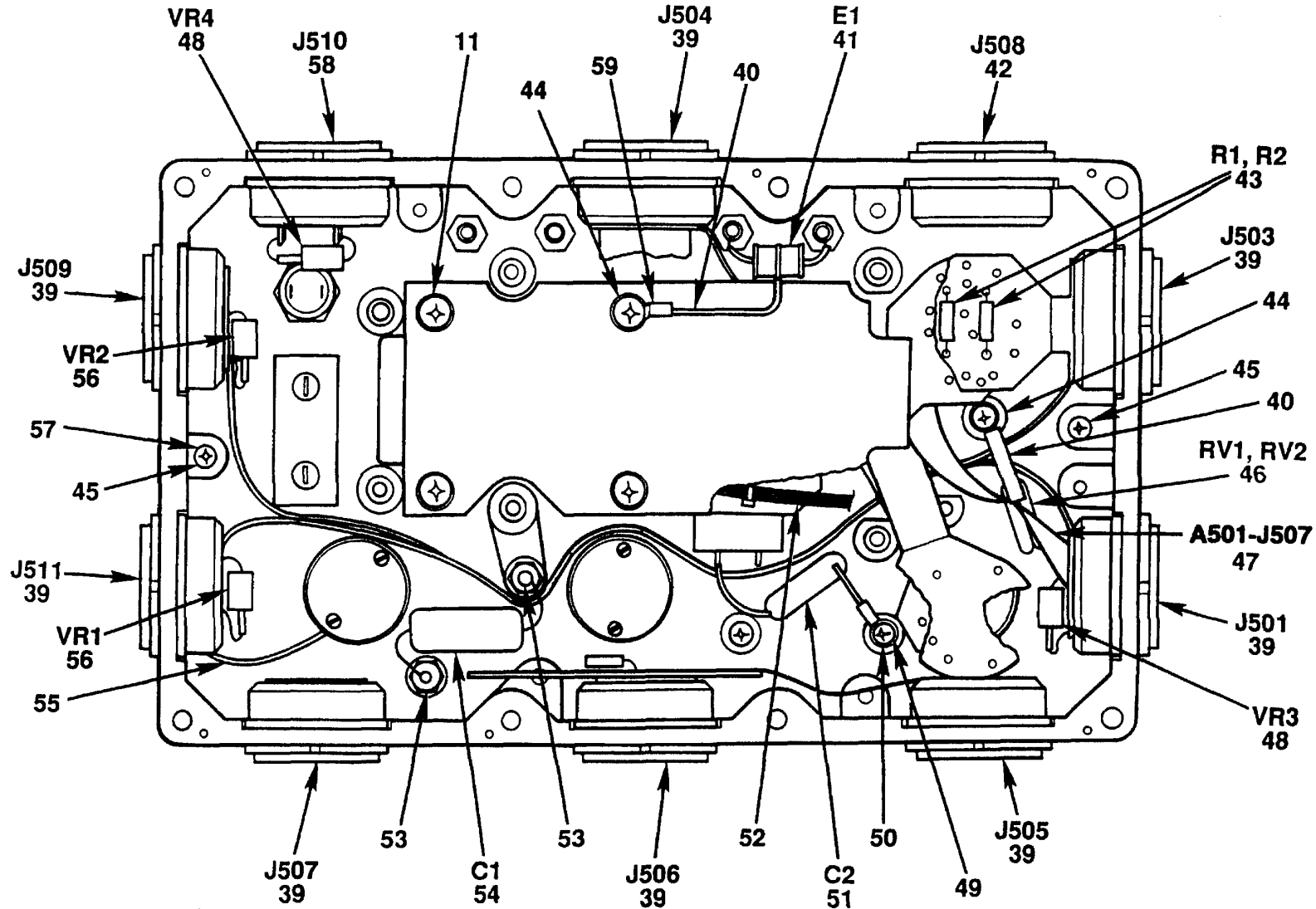


Figure 1. Amplifier, Audio Frequency, AM-1780B/VRC (Sheet 2 of 3)

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Figure 1. Amplifier, Audio Frequency, AM-1780B/VRC (Sheet 3 of 3)

SECTION II

TM 11-5895-1548-24P

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES(UOC)	(7) QTY
GROUP 07 AMPLIFIER, AUDIO FREQUENCY AM-1780B/VRC						
FIG. 1						
1	XBFFF		80063	A3106960	COVER ASSEMBLY	1
2	PAFZZ	5330001823024	80063	SM-C-414114-13	O-RING	1
3	PAHHH	5998014164335	80063	A3106953	CIRCUIT CARD ASSEMB	1
4	PAHZZ		60468	10079	CABLE ASSY, PRINTED	1
5	PAHZZ		60468	10059	CABLE ASSY, PRINTED	1
6	PAHZZ		80063	A3106990	CIRCUIT CARD ASSEMB	1
7	PAFZZ	5315010863783	80063	SM-C-413906-6	PIN, GUIDE	6
8	XBFFF		80063	A3106958	HOUSING ASSEMBLY	1
9	PAHHH		80063	A3099556	HEAT SINK ASSEMBLY	1
10	PAHZZ	5310008805978	96906	MS15795-807	WASHER, FLAT	8
11	PAHZZ	5305004025788	96906	MS51957-127	SCREW, MACHINE	4
12	PAHZZ	5910001135286	81349	M39014/02-1356	CAPACITOR, FIXED, CER	1
13	PAHZZ		60468	10057	CABLE ASSY, PRINTED	1
14	PAHZZ		80063	A3106962	CONNECTOR, PWB	1
15	PAHZZ	5310009338119	96906	MS35338-137	WASHER, LOCK	8
16	PAHZZ	5305000546671	96906	MS51957-46	SCREW, MACHINE	4
17	PAFZZ	5310000453296	96906	MS35338-43	WASHER, LOCK	8
18	PAFZZ	5305008235837	80045	818110	SCREW, EXTERNALLY RE	8
19	PAHZZ		80063	A3106981	SWITCH, ROTARY	1
20	PAHZZ		60468	10067	CABLE ASSY, PRINTED	1
21	PAHZZ		60468	10071	CABLE ASSY, PRINTED	1
22	PAHZZ		60468	10065	CABLE ASSY, PRINTED	1
23	PAHZZ		80063	A3106979	SWITCH, ROTARY	1
24	PAOZZ	5355006561358	96906	MS91525-2AP3SOZ	KNOB	3
25	PAOZZ	5305010063881	03038	LP35206-227	SCREW, SELF-LOCKING	1
26	MHHZZ		80063	A3106952	PLATE, IDENTIFICATIO	1
27	PAFZZ	5305009908386	96906	MS35206-201	SCREW, MACHINE	2
28	PAFZZ	5940009375237	81349	PB08NA01	POST, BINDING, ELECTR	4
29	PAFZZ	6210009308616	83330	175-8430-0112-20	LIGHT, INDICATOR	1
30	PAOZZ	6240001557836	96906	MS25237-327	LAMP, INCANDESCENT	1
31	PAOZZ	5340009333752	80063	SM-B-104328	CAP, PROTECTIVE, DUST	10
32	PAOZZ		80063	SM-C-415322	HARDWARE KIT, ELECTR	1
33	PAFZZ	5925012561833	81349	M39019/01-263	CIRCUIT BREAKER	1
34	PAHZZ		80063	A3106978	SWITCH, ROTARY	1
35	PAHZZ		80063	A3106980	SWITCH, ROTARY	1
36	PAHZZ		60468	10069	CABLE ASSY, PRINTED	1
37	PAHZZ		60468	10073	CABLE ASSY, PRINTED	1
38	PAHZZ		60468	10077	CABLE ASSY, PRINTED	1
39	PAHZZ	5935001330394	81349	M55181/8-01	CONNECTOR, RECEPTACL	8
40	XBFFF		81349	AWG 20	SLEEVING	V
41	PAFZZ		80063	A3106982	PROTECTOR, SURGE	1
42	PAHZZ	5935011997155	81349	M55181/2-01	CONNECTOR, RECEPTACL	1
43	PAHZZ	5905001086922	81349	RCR20G151JS	RESISTOR, FIXED, COMP	2
44	PAFZZ	5940006834339	96906	MS0035431-7	TERMINAL, LUG	3
45	PAFZZ	5305000545646	96906	MS51957-12	SCREW, MACHINE	2
46	PAFZZ	5905013187788	38753	291-990122-597	RESISTOR, VOLTAGE SE	2

SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES(UOC)	(7) QTY
47	PAHZZ		60468	10075	CABLE ASSY, PRINTED	1
48	PAHZZ		81349	JAN1N6049A	SEMICONDUCT	2
49	PAFZZ	5310009296395	96906	MS35338-136	WASHER, LOCK	3
50	PAFZZ	5305000546650	96906	MS51957-26	SCREW, MACHINE	3
51	PAFZZ		80063	SM-B-283433-2	CAPACITOR, FIXED	1
52	PAHZZ		80063	A3099564	WIRING HARNESS	1
53	PAFZZ		80063	A3106977	TERMINAL STUD	2
54	PAFZZ		80063	SM-B-283433-1	CAPACITOR, FIXED	1
55	PAHZZ		80063	A3099563	WIRING HARNESS	1
56	PAHZZ	5961010925620	81349	JAN1N5657A	SEMICONDUCTOR DEVIC	2
57	PAFZZ	5310009338118	96906	MS35338-135	WASHER, LOCK	2
58	PAHZZ	5935008535942	81349	M55181/6-01	CONNECTOR, RECEPTACL.....	1
59	XBFZZ		81349	M25053/5-203-C	SLEEVING.....V	

END OF FIGURE

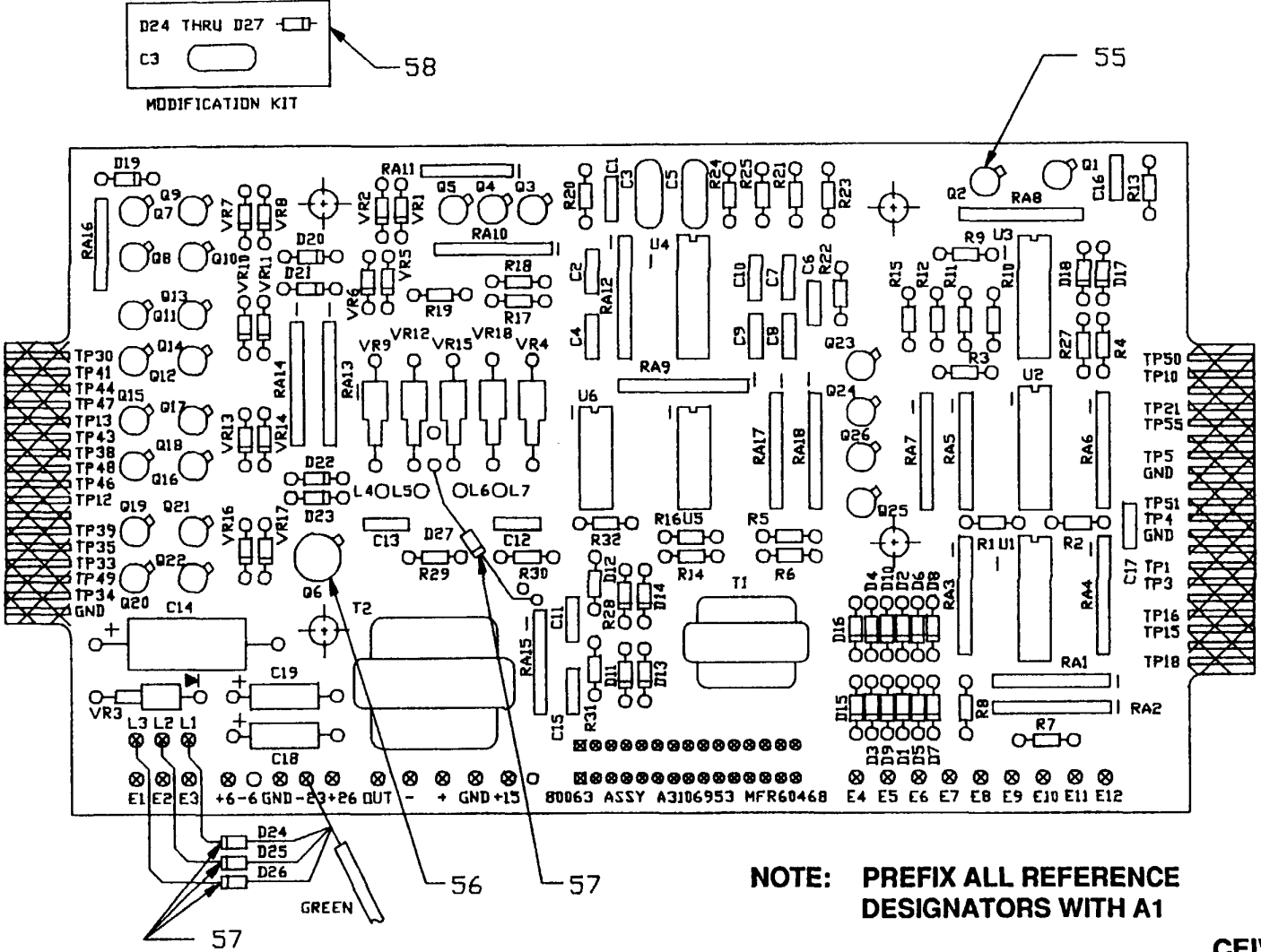


Figure 2. Circuit Card Assembly, Audio Amplifier (Sheet 1 of 2)

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
C1	1	D4	9	L1	10	Q16	12	RA12	20	R16	34	U4	49
C2	2	D5	9	L2	10	Q17	12	RA13	15	R17	35	U5	50
C3	3	D6	9	L3	10	Q18	12	RA14	15	R18	35	U6	51
C4	4	D7	9	L4	10	Q19	12	RA15	21	R19	35	VR1	52
C5	5	D8	9	L5	10	Q20	12	RA16	21	R20	36	VR2	52
C6	4	D9	9	L6	10	Q21	12	RA17	16	R21	37	VR3	53
C7	4	D10	9	L7	10	Q22	12	RA18	20	R22	38	VR4	54
C8	4	D11	9	Q1	11	Q23	11	R1	22	R23	39	VR5	52
C9	4	D12	9	Q2	12	Q24	11	R2	23	R24	40	VR6	52
C10	4	D13	9	Q3	11	Q25	11	R3	23	R25	41	VR7	52
C11	6	D14	9	Q4	11	Q26	11	R4	24	R26	35	VR8	52
C12	6	D15	9	Q5	11	RA1	14	R5	25	R27	42	VR9	54
C13	4	D16	9	Q6	13	RA2	15	R6	25	R28	25	VR10	52
C14	7	D17	9	Q7	12	RA3	16	R7	26	R29	32	VR11	52
C15	6	D18	9	Q8	12	RA4	16	R8	27	R30	43	VR12	54
C16	6	D19	9	Q9	12	RA5	16	R9	26	R31	44	VR13	52
C17	6	D20	9	Q10	12	RA6	17	R10	28	R32	45	VR14	52
C18	8	D21	9	Q11	12	RA7	18	R11	29	T1	46	VR15	54
C19	8	D22	9	Q12	12	RA8	16	R12	30	T2	47	VR16	52
D1	9	D23	9	Q13	12	RA9	16	R13	31	U1	48	VR17	52
D2	9	D24	9	Q14	12	RA10	16	R14	32	U2	48	VR18	54
D3	9	D25	9	Q15	12	RA11	19	R15	33	U3	49		
		D26	9										
		D27	9										

NOTE: PREFIX ALL REFERENCE DESIGNATORS WITH A1

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Figure 2. Circuit Card Assembly, Audio Amplifier (Sheet 2 of 2)

SECTION II

TM 11-5895-1548-24P

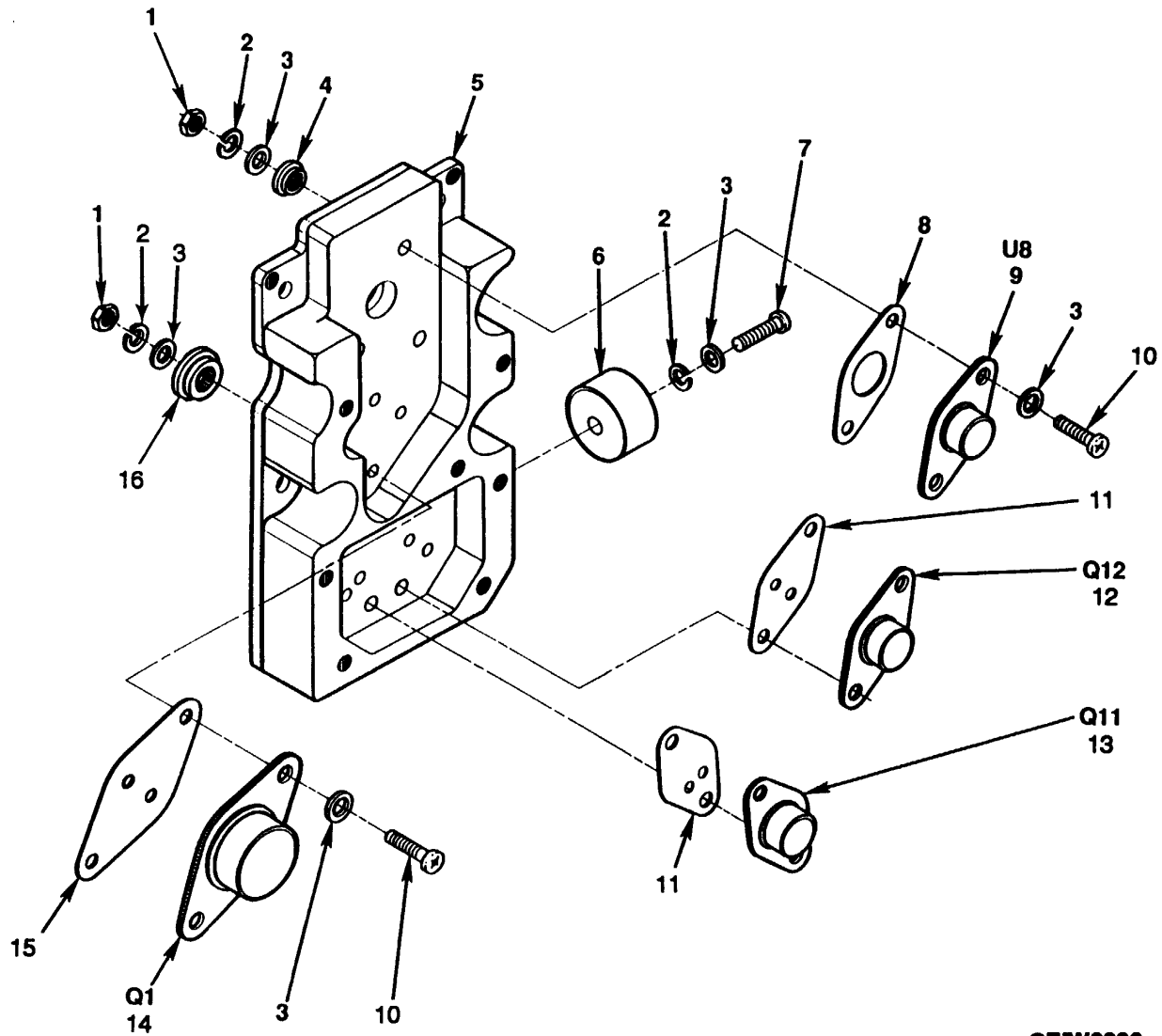
(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES(UOC)	(7) QTY
GROUP 0701 CIRCUIT CARD ASSEMBLY, AUDIO AMPLIFIER						
FIG. 2						
1	PAHZZ	5910012246159	81349	CCR06CG332GS	CAPACITOR, FIXED, CER	1
2	PAHZZ	5910012154743	81349	CCR06CG682GS	CAPACITOR, FIXED, CER	1
3	PAHZZ	5910009854334	14655	CD15FC681G03	CAPACITOR, FIXED, MIC	1
4	PAHZZ	5910012132366	81349	CCR06CG103GS	CAPACITOR, FIXED, CER	7
5	PAHZZ		81349	CMR05F131GODR	CAPACITOR, F	1
6	PAHZZ	5910000108721	81349	M39014/02-1419	CAPACITOR, FIXED, CER	5
7	PAHZZ	5910011194305	81349	M39006/22-0517	CAPACITOR, FIXED, ELE	1
8	PAHZZ	5910011194298	81349	M39006/22-0522	CAPACITOR, FIXED, ELE	2
9	PAHZZ	5961005844527	81349	JANTX1N4148-1	SEMICONDUCTOR DEVIC	27
10	PAHZZ	4910014220156	34899	274300111	BEAD, SPECIAL	7
11	PAHZZ	5961009253777	81349	JAN2N2907A	TRANSISTOR	8
12	PAHZZ		59640	H00032-9	TRANSISTOR	16
13	PAHZZ		59640	H00031-2	TRANSISTOR	1
14	PAHZZ		81349	M8340105K1500FG	RESISTOR, NETWORK, FI	1
15	PAHZZ		81349	M8340105K1003CG	RESISTOR, NETWORK, FI	3
16	PAHZZ	5905010924198	81349	M8340105K1002FG	RESISTOR NETWORK, FI	7
17	PAHZZ	5905014162886	80063	A3106973	RESISTOR NETWORK	1
18	PAHZZ	5905013626979	81349	M8340108K1004FG	RESISTOR NETWORK, FI	1
19	PAHZZ	5905012253390	81349	M8340104K1001FG	RESISTOR NETWORK, FI	1
20	PAHZZ		81349	M8340105K3922FG	RESISTOR NETWORK	2
21	PAHZZ	5905010923376	81349	M8340104K1002FG	RESISTOR NETWORK, FI	2
22	PAHZZ	5905004805196	81349	RNC55H1501FS	RESISTOR, FIXED, FILM	1
23	XBHZZ		81349	RNC55H3921FS	RESISTOR, FIXED, FILM	2
24	PAHZZ	5905004053022	81349	RNC55H2212FS	RESISTOR, FIXED, FILM	1
25	PAHZZ	5905001383376	81349	RNC55H1001FS	RESISTOR, FIXED, FILM	3
26	PAHZZ	5905004017432	81349	RNC55H1003FS	RESISTOR, FIXED, FILM	2
27	XBHZZ		81349	RNC55H3321FS	RESISTOR, FIXED, FILM	1
28	XBHZZ		81349	RNC55H9090FS	RESISTOR, FIXED, FILM	1
29	PAHZZ	5905008282416	81349	RNC55H1000FS	RESISTOR, FIXED, FILM	1
30	XBHZZ		81349	RNC55H9091FS	RESISTOR, FIXED, FILM	1
31	PAHZZ	5905010252029	81349	RNC55H22R1FS	RESISTOR, FIXED, FILM	1
32	PAHZZ		81349	RNC55F1002FS	RESISTOR, FIXED, FILM	2
33	PAHZZ	5905001374817	81349	RNC55H2492FS	RESISTOR, FIXED, FILM	1
34	PAHZZ	5905004216187	81349	RNC55H6811FS	RESISTOR, FIXED, FILM	1
35	PAHZZ	5905004124048	81349	RNC55H2002FS	RESISTOR, FIXED, FILM	4
36	PAHZZ	5905004034448	81349	RNC55H3922FS	RESISTOR, FIXED, FILM	1
37	XBHZZ		81349	RNC55H1692FS	RESISTOR, FIXED, FILM	1
38	PAHZZ	5905002432102	81349	RNC55H8451FS	RESISTOR, FIXED, FILM	1
39	PAHZZ	5905003553848	81349	RNC55H1873FS	RESISTOR, FIXED, FILM	1
40	PAHZZ	5905003060647	81349	RNC55H6041FS	RESISTOR, FIXED, FILM	1
41	PAHZZ	5905002701904	81349	RNC55H4993FS	RESISTOR, FIXED, FILM	1
42	XBHZZ		81349	RNC55H2742FS	RESISTOR, FIXED, FILM	1
43	PAHZZ	5905004315158	81349	RNC55H4322FS	RESISTOR, FIXED, FILM	1
44	XBHZZ		81349	RNC55H2211FS	RESISTOR, FIXED, FILM	1
45	PAHZZ		81349	RNC55D33R2FJ	RESISTOR, FIXED, FILM	1
46	PAHZZ		80063	A3106974	TRANSFORMER, LINE	1
47	PAHZZ		80063	A3106975	TRANSFORMER, AUDIO, P	1

SECTION II

TM 11-5895-1548-24P

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES(UOC)	(7) QTY
48	PAHZZ		81349	LM146J/833	MICROCIRCUIT LINEAR.....	2
49	PAHZZ		81349	M38510/11001BCB	MICROCIRCUIT, LINEAR.....	2
50	PAHZZ		81349	M38510/17701	MICROCIRCUIT, DIGITA.....	1
51	PAHZZ	5962012862238	81349	M38510/11201BCA	MICROCIRCUIT, LINEAR.....	1
52	PAHZZ	5961011421106	81349	JANIN965B-1	SEMICONDUCTOR DEVIC	12
53	PAHZZ	5961010469582	81349	JANIN5649A	SEMICONDUCTOR DEVIC	1
54	PAHZZ	5961011961895	81349	JAN1N6049A	SEMICONDUCTOR DEVIC	5
55	PAHZZ	5999010153901	81349	M38527/01-030D	MOUNTING PAP, ELECTR	25
56	PAHZZ	5999011884374	58536	A55485/02-020D	MOUNTING PAD, ELECTR	1
57	PADDD	5895013994917	80063	A3099551	MODIFICATION KIT, CO	1

END OF FIGURE



CEIW0006

Figure 3. Heat Sink Assembly

SECTION II

TM 11-5895-1548-24P

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES(UOC)	(7) QTY
GROUP 0702 HEAT SINK ASSEMBLY						
FIG. 3						
1	PAHZZ	5310009349761	96906	MS35649-264	NUT, PLAIN, HEXAGON	8
2	PAHZZ	5310001848977	96906	MS35338-98	WASHER, LOCK	9
3	PAHZZ	5310007225998	96906	MS15795-805	WASHER, FLAT	17
4	PAHZZ		80063	A3099560	INSULATOR, BUSHING	4
5	XBHZZ		80063	A3099557	HEAT SINK, ELECTRICA	1
6	PAHZZ		80063	A3099567-02	INDUCTOR, TOROIDAL	1
7	PAHZZ	5305000546655	96906	MS51957-31	SCREW, MACHINE	1
8	PAHZZ		80063	A3099565	MOUNTING PAD, ELECTR	1
9	PAHZZ		80063	A3099566	AMPLIFIER POWER	1
10	PAHZZ	5305000546656	96906	MS51957-32	SCREW, MACHINE	8
11	PAHZZ		80063	A3099559	INSULATOR, PLATE	2
12	PAHZZ	5961011690161	72314	1264-1357	TRANSISTOR	1
13	PAHZZ	5961010940469	81349	JAN2N3766	TRANSISTOR	1
14	PAHZZ	5961002695648	81349	JAN2N4399	TRANSISTOR	1
15	PAHZZ		80063	A3099558	MOUNTING PAD, ELECTR	1
16	PAHZZ		80065	A3099562	INSULATOR BUSHING	4

END OF FIGURE

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX					
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5910-00-010-8721	2	6	5961-01-046-9582	2	53
5310-00-045-3296	1	17	5970-01-055-5946	3	11
5305-00-054-5666	1	45	5315-01-086-3783	1	7
5305-00-054-6650	1	50	5905-01-092-3376	2	21
5305-00-054-6655	3	7	5905-01-092-4198	2	16
5305-00-054-6656	3	10	5961-01-092-5620	1	56
5305-00-054-6671	1	16	5961-01-094-0469	3	13
5905-00-108-6922	1	43	5910-01-119-4298	2	8
5910-00-113-5286	1	12	5910-01-119-4305	2	7
5935-00-133-0394	1	39	5961-01-142-1106	2	52
5905-00-137-4817	2	33	5961-01-169-0161	3	12
5905-00-138-3376	2	25	5999-01-188-4374	2	56
6240-30-155-7836	1	30	5961-01-196-1895	1	48
5330-00-182-3024	1	2		2	54
5310-00-184-8977	3	2	5935-01-199-7155	1	42
5905-00-243-2102	2	38	5910-01-213-2366	2	4
5961-00-269-5648	3	14	5910-01-215-4743	2	2
5905-00-270-1904	2	41	5910-01-224-6159	2	1
5905-00-506-0647	2	40	5905-01-225-3390	2	19
5905-00-355-1848	2	39	5925-01-256-1833	1	33
5905-00-401-7432	2	26	5962-01-286-2238	2	51
5305-00-402-5788	1	11	5905-01-318-7788	1	46
5935-00-403-4448	2	36	5905-01-362-6979	2	18
5905-00-405-3022	2	24	5895-01-399-4917	2	57
5905-00-412-4048	2	35	5905-01-416-2886	2	17
5905-00-421-6187	2	34	5998-01-416-4335	1	3
5905-00-431-5158	2	43	4910-01-422-0156	2	10
5905-00-480-5196	2	22			
5961-00-584-4527	2	9			
5355-00-656-1358	1	24			
5940-00-683-4339	1	44			
5310-00-722-5998	3	3			
5305-00-823-5837	1	18			
5905-00-828-2416	2	29			
5935-00-853-5942	1	58			
5310-00-880-5978	1	10			
5961-00-925-3777	2	11			
5310-00-929-6395	1	49			
6210-00-930-8616	1	29			
5340-00-933-3752	1	31			
5310-00-933-8118	1	57			
5310-00-933-8119	1	15			
5310-00-934-9761	3	1			
5940-00-937-5237	1	28			
5910-00-985-4334	2	3			
5305-00-990-8386	1	27			
5305-01-006-3881	1	25			
5999-01-015-3901	2	55			
5905-01-025-2029	2	31			
5910-01-043-6897	2	5			

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX		FIG.	ITEM
			STOCK NUMBER		
81349	AWG 20			1	40
80063	A3099551		5895-01-399-4917	2	57
80063	A3099556			1	9
80063	A3099557			3	5
80063	A3099558			3	15
80063	A3099559		5970-01-055-5946	3	11
80063	A3099560			3	4
80063	A3099562			3	16
80063	A3099563			1	55
80063	A3099564			1	52
80063	A3099565			3	8
80063	A3099566			3	9
80063	A3099567-02			3	6
80063	A3106952			1	26
80063	A3106953		5998-01-416-4335	1	3
80063	A3106958			1	8
80063	A3106960			1	1
80063	A3106962			1	14
80063	A3106973		5905-01-416-2886	2	17
80063	A3106974			2	46
80063	A3106975			2	47
80063	A3106977			1	53
80063	A3106978			1	34
80063	A3106979			1	23
80063	A3106980			1	35
80063	A3106981			1	19
80063	A3106982			1	41
80063	A3106990			1	6
58536	A55485/02-020D		5999-01-188-4374	2	56
81349	CCR06CG103GS		5910-01-213-2366	2	4
81349	CCR06CG332GS		5910-01-224-6159	2	1
21349	CCR06CG682GS		5910-01-215-4743	2	2
14655	CD15FC681G03		5910-00-985-4334	2	3
81349	CMR0SF131G0DR		5910-01-043-6897	2	5
59640	H00031-2			2	13
59640	H00032-9			2	12
81349	JANTX1N4148-1		5961-00-584-4527	2	9
81349	JANIN5649A		5961-01-046-9582	2	53
81349	JAN1N5657A		5961-01-092-5620	1	56
81349	JAN1N6049A		5961-01-196-1895	1	48
				2	54
81349	JANIN965B-1		5961-01-142-1106	2	52
81349	JAN2N2907A		5961-00-925-3777	2	11
81349	JAN2N3766		5961-01-094-0469	3	13
81349	JAN2144399		5961-00-269-5648	3	14
81349	LM146J/833			2	48
03038	LP35206-227		5305-01-006-3881	1	25
96906	MS0035431-7		5940-00-683-4339	1	44
96906	MS15795-805		5310-00-722-5998	3	3
96906	MS15795-807		5310-00-880-5978	1	10
96906	MS25237-327		6240-00-155-7836	1	30

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX		FIG.	ITEM
			STOCK NUMBER		
96906	MS35206-201		5305-00-990-8386	1	27
96906	MS35338-135		5310-00-933-8118	1	57
96906	MS35338-136		5310-00-929-6395	1	49
96906	MS35338-137		5310-00-933-8119	1	15
96906	M535338-43		5310-00-045-3296	1	17
96906	MS35338-98		5310-00-184-8977	3	2
96906	MS35649-264		5310-00-934-9761	3	1
96906	MS51957-12		5305-00-054-5646	1	45
96906	MS51957-127		5305-00-402-5788	1	11
96906	MS51957-26		5305-00-054-6650	1	50
969G6	MS51957-31		5305-00-054-6655	3	7
96906	MS51957-32		5305-00-054-6656	3	10
96906	MS51957-46		5305-00-054-6671	1	16
96906	MS91525-2AP3SOZ		5355-00-656-1358	1	24
81349	M25053/5-203-C			1	59
81349	M38510/11001BCB			2	49
81349	M38510/11201BCA		5962-01-286-2238	2	51
81349	M38510/17701			2	50
81349	M38527/01-030D		5999-01-015-3901	2	55
81349	M39006/22-0517		5910-01-119-4305	2	7
81349	M39006/22-0522		5910-01-119-4298	2	8
81349	M39014/02-1356		5910-00-113-5286	1	12
81349	M39014/02-1419		5910-00-010-8721	2	6
81349	M39019/01-263		5925-01-256-1833	1	53
81349	M55181/2-01		5935-01-199-7155	1	42
81349	M55181/6-01		5935-00-853-5942	1	58
81349	M55181/8-01		5935-00-133-0394	1	39
81349	M8340104K1001FG		5905-01-225-3390	2	19
81349	M8340104K1002FG		5905-01-092-3376	2	21
81349	M8340105K1002FG		5905-01-092-4198	2	16
81349	M8340105K1003CG			2	15
81349	M8340105K1500FG			2	14
81349	M8340105K3922FG			2	20
81349	M8340108K1004FG		5905-01-362-6979	2	18
81349	PB08NA01		5940-00-937-5237	1	28
81349	RCR20G151JS		5905-00-108-6922	1	43
81349	RNC55D33R2FJ			2	45
81349	RNC55F1002FS			2	32
81349	RNC55H100IFS		5905-00-828-2416	2	29
81349	RNC55H1001FS		5905-00-138-3376	2	25
81349	RNC55H1003FS		5905-00-401-7432	2	26
81349	RNC55H1501FS		5905-00-480-5196	2	22
81349	RNC55H1692FS			2	37
81349	RNC55H1873FS		5905-00-355-3848	2	39
81349	RNC55H2002FS		5905-00-412-4048	2	35
81349	RNC55H22R1FS		5905-01-025-2029	2	31
81349	RNC55H2211FS			2	44
81349	RNC55H2212FS		5905-00-405-3022	2	24
81349	RNC55H2492FS		5905-00-137-4817	2	33
81349	RNC55H2742FS			2	42
81349	RNC55H3321FS			2	27

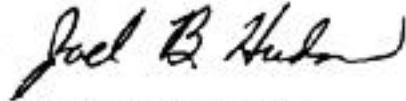
CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX		FIG.	ITEM
			STOCK NUMBER		
81349	RNC55H3921FS			2	23
81349	RNC55H3922FS		5905-00-403-4448	2	36
81349	RNC55H4322FS		5905-00-431-5158	2	43
81349	RNC55H4993FS		5905-00-270-1904	2	41
81349	RNC55H6041FS		5905-00-306-0647	2	40
81349	RNC55H6811FS		5905-00-421-6187	2	34
81349	RNC55H8451FS		5905-00-243-2102	2	38
81349	RNC55H9090FS			2	28
81349	RNC55H9091FS			2	30
80063	SM-B-104328		5340-00-933-3752	1	31
80063	SM-B-283433-1			1	54
80063	SM-B-283633-2			1	51
80063	SM-C-413906-6		5315-01-086-3783	1	7
80063	SM-C-414114-13		5330-00-182-3024	1	2
80063	SM-C-415322			1	32
60468	10057			1	13
60468	10059			1	5
60468	10065			1	22
60468	10067			1	20
60468	10069			1	36
60468	10071			1	21
60468	10073			1	37
60468	10075			1	47
60468	10077			1	38
60468	10079			1	4
72314	1264-1357		5961-01-169-0161	3	12
83330	175-8430-0112-20		6210-00-930-8616	1	29
	3				
34899	274300111		4910-01-422-0156	2	10
38753	291-990122-597		5905-01-318-7788	1	46
80045	818110		5305-00-823-5837	1	18

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:



Administrative Assistant to the
Secretary of the Army

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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PIN: 075946-000