

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

This publication is not available through AG Publications Center.
Requisition through Commander, US Army Electronics Materiel
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.

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

CURRENT AS OF 22 JUNE 1979

<p>This publication is not available through AG Publications Center. Requisition through Commander, US Army Electronics Materiel Readiness Activity, Vint Hill Farms Station, Warrenton, VA 22186.</p>
--

HEADQUARTERS, DEPARTMENT OF THE ARMY

10 OCTOBER 1980

LIST OF EFFECTIVE PAGES

Date of issue for original pages is:

Original 0 10 October 1980

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 169 CONSISTING OF THE FOLLOWING :

Page No.	*Change No.	Page No.	*Change No.
Title . . . . .	.0	C-40	0
A	0	C41 - C44.	0
i - v . . . . .	.0	C-45	0
1-0 - 1-5 . . . . .	.0	C-46 - C47. . . . .	.0
1-6 Blank. . . . .	.0	C-48 . . . . .	.0
2-1 - 2-15 . . . . .	.0	C49 - C-57	0
2-16 Blank . . . . .	.0	C-58.	0
3-1 - 3-2 . . . . .	.0	C-59 - C-64. . . . .	.0
4-1 - 4-4 . . . . .	.0	C-65 . . . . .	.0
A-1 - A-2 . . . . .	.0	C-66 - C-72.	0
B-1 - B-4 . . . . .	.0	C-73	0
C-1 - C-3. . . . .	.0	C-74 - C-88	0
C-4.	0	C-89.	0
C-5 - C-13. . . . .	.0	C-90 - C-98	0
C-14 . . . . .	.0	C-99	0
C - 1 5 - C - 2 0	0	C-100 - C-104	0
C-21.	0	C-105. . . . .	.0
C-22 - C-26 . . . . .	.0	C-106 - C-107.	0
C-27.	0	C-108.	0
C-28 - C-29.	0	C-109- C-124.	0
C-30	0	D-1 . . . . .	.0
C-31 - C-39. . . . .	.0	D-2 Blank . . . . .	.0
		FO-1 . . . . .	.0

*Zero in this column indicates an original page.

RECORD OF CHANGES

Change No.	Date	Title or Brief Description	Entered By

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.

		Paragraph	Page
CHAPTER	1. INTRODUCTION		
Section	I. General	1-1	1-1
	II. Description and Data	1-7	1-1
CHAPTER	2. ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section	I. Tools and Equipment	2-1	2-1
	II. Repainting and Refinishing Instructions	2-4	2-1
	III. Lubrication Instructions	2-5	2-2
	IV. Preventive Maintenance Checks and Services (PMCS)	2-6	2-2
	V. Troubleshooting	2-8	2-2
	VI. Maintenance of Electrical Equipment Shelter S-457A/G	2-10	2-9
CHAPTER	3. FUNCTIONING OF EQUIPMENT	3-1	3-1
CHAPTER	4. DIRECT SUPPORT MAINTENANCE INSTRUCTIONS		
Section	I. General	4-1	4-1
	II. Tools and Equipment	4-2	4-1
	III. Troubleshooting	4-5	4-1
	IV. Maintenance of Electrical Equipment Shelter S-457A/G	4-6	4-2
APPENDIX	A. REFERENCES		A-1
APPENDIX	B. MAINTENANCE ALLOCATION CHART		B-1
Section	I. Introduction	B-1	B-1
	II. Maintenance Allocation Chart		B-3
	III. Tools and Test Equipment Requirements		B-4
	IV. Remarks		B-4

		Paragraph	Page
APPENDIX	C.	REPAIR PARTS AND SPECIAL TOOLS LIST	C-1
Section	I.	Introduction	C-1
	II.	Repair Parts List	C-11
Group	00	Electrical Equipment Shelter S-457A/G	C-11
	01	Power Distribution Box	C-19
	02	Rack Assembly	C-25
		0201 DC Electrical Connector	C-26
		0202 AC Electrical Connector	C-29
	04	Utilities Installation Raceway	C-37
		0401 Signal Entrance Box Installation	C-43
		0402 Signal Entrance Box Assembly	C-47
		0403 Power Entrance Box Assembly	C-53
		0404 Stud Assembly 10-32UNF-2A	C-56
		0405 Stud Assembly 3/8-16UNC-2A	C-57
	06	Cable and Wire Assemblies	C-63
	07	Bracket Installation	C-71
		0701 Electrical Utilities Installation	C-79
		0702 Wastebasket Holder Assembly	C-83
		0703 Telephone Bracket Assembly	C-85
		0704 Fire Extinguisher Mounting Bracket Assembly	C-87
		0705 Ground Rod Bracket Assembly	C-88
		0706 PXS-EE-28VF Power Supply Shelf Assembly	C-91
		0707 Blackout Light Assembly	C-92
		0708 Incandescent Lamp Assembly	C-93
	08	Fluorescent Lamp Assembly	C-95
		0801 Fluorescent Lamp Subassembly	C-97
		0802 Lamp Holder Assembly	C-98
		0803 Lamp Holder with Starter Base Assembly	C-101
	09	Rotary Chair Assembly	C-103
	10	Cable Reel Tiedown Assembly	C-104
	11	Ladder Bracket Assembly	C-107
	12	Power Entrance Box Cover Assembly	C-113
	13	Bulk Material	C-114
Section	III.	Special Tools List	C-115
	IV.	National Stock Number and Part Number Index	C-116
APPENDIX	D.	EXPENDABLE SUPPLIES AND MATERIALS LIST	D-1
Section	I.	Introduction	D-1
	II.	Expendable Supplies and Materials List	D-1

LIST OF ILLUSTRATIONS

Figure No.	Title	Page
1-1	Electrical Equipment Shelter S-457A/G	1-0
1-2	Shelter Interior, Curbside Wall	1-2
1-3	Shelter Interior, Door End Wall	1-3
1-4	Shelter Interior, Roadside Wall	1-3
1-5	Shelter Interior, Floor	1-4
2-1	Power Distribution Panel Enclosure	2-12
2-2	Power Distribution Panel Wiring Diagram	2-13
3-1	Shelter Light Switch Panel	3-2
C-1	Electrical Equipment Shelter S-457A/G	C-5
C-2	Power Distribution Box	C-15
C-3	Rack Assembly	C-22
C-4	DC Electrical Connector	C-26
C-5	AC Electrical Connector	C-28
C-6	Electrical Equipment Shelter Utilities Raceway Installation	C-31
C-7	Signal Entrance Box Installation.	C-41
C-8	Signal Entrance Box Assembly	C-46
C-9	Power Entrance Box Assembly	C-49
C-10	Stud Assembly 10-32UNF-2A	C-56
C-11	Stud Assembly 3/8-16UNC-2A	C-57
C-12	Cable and Wiring Assemblies	C-59
C-13	Electrical Equipment Shelter Bracket Installation	C-66
C-14	Electrical Utilities Installation.	C-74
C-15	Wastebasket Holder Assembly	C-82
C-16	Telephone Bracket Assembly	C-84
C-17	Fire Extinguisher Mounting Bracket Assembly	C-86
C-18	Ground Rod Bracket Assembly	C-88
C-19	PXS-EE-28VF Power Supply Shelf Assembly	C-90
C-20	Blackout Light Assembly	C-92
C-21	Incandescent Lamp Assembly	C-93
C-22	Fluorescent Lamp Assembly	C-94
C-23	Fluorescent Lamp Subassembly.	C-96
C-24	Lamp Holder Assembly	C-98
C-25	Lamp Holder With Starter Base Assembly	C-100
C-26	Rotary Chair Assembly	C-102
C-27	Cable Reel Tiedown Assembly	C-104
C-28	Ladder Bracket Assembly	C-106
C-29	Power Entrance Box Cover Assembly	C-109

LIST OF TABLES

Table No.	Title	Page
2-1	Tools and Test Equipment	2-1
2-2	Materials Required	2-1
2-3	Organizational Preventive Maintenance Checks and Services	2-3
2-4	Troubleshooting.	2-6

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.)

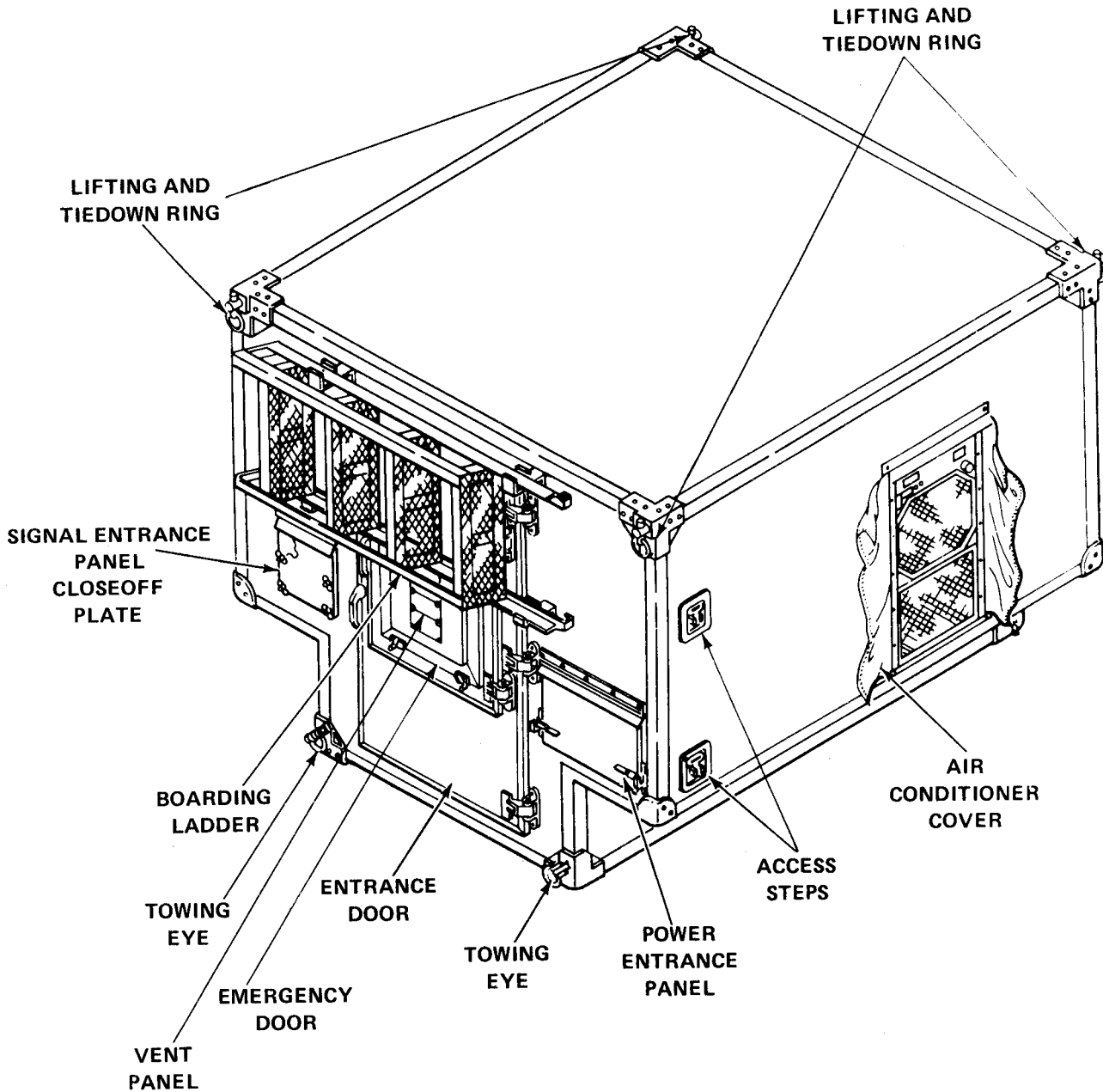


Figure 1-1. Electrical Equipment Shelter S-457 A/G

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.

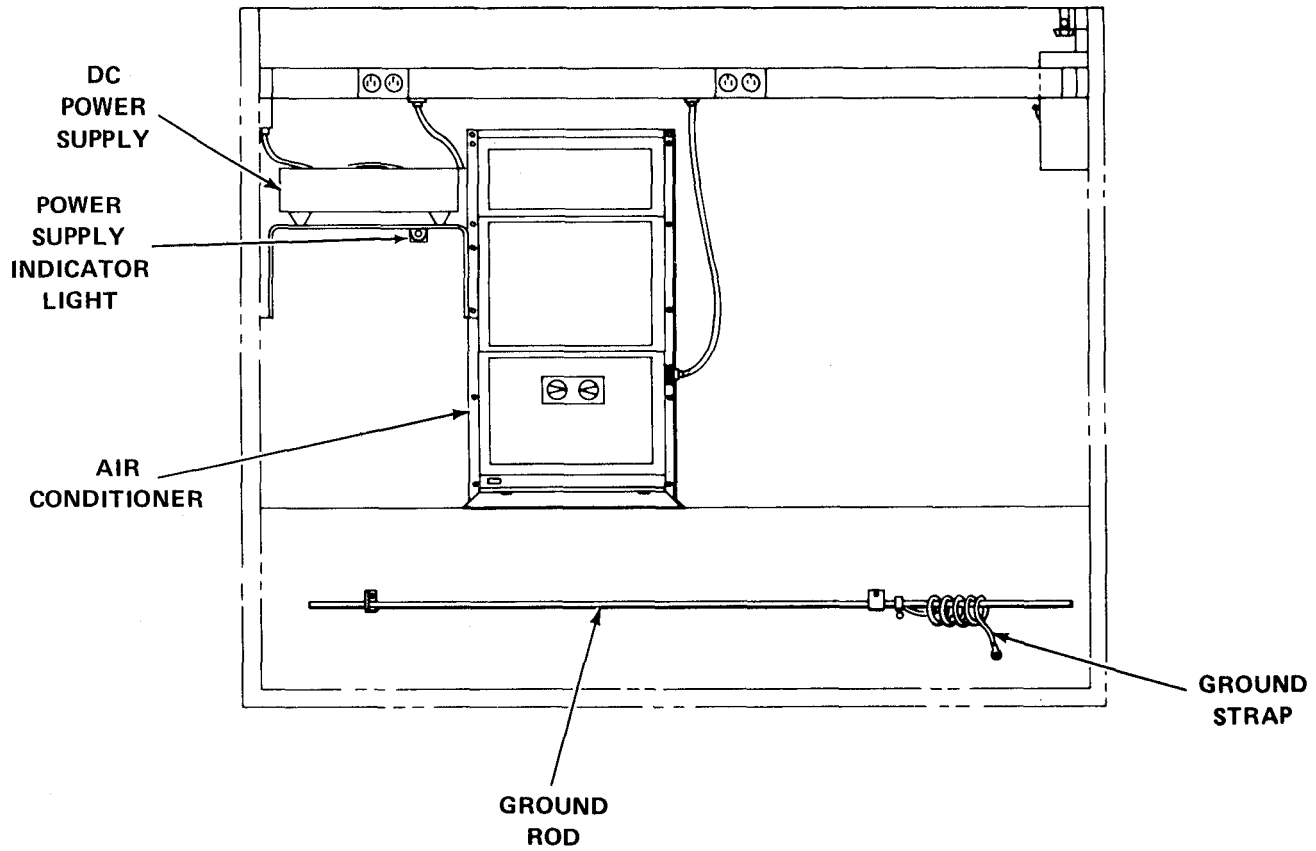


Figure 1-2. Shelter Interior, Curbside Wall

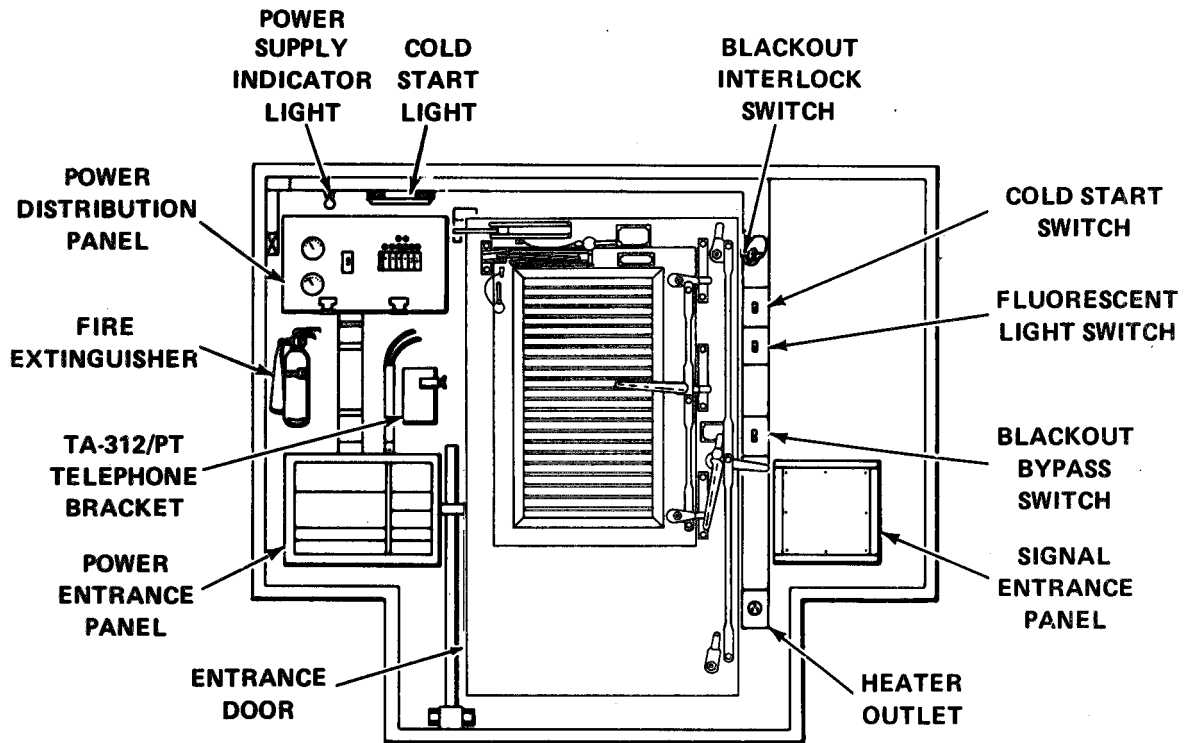


Figure 1-3. Shelter Interior, Door End Wall

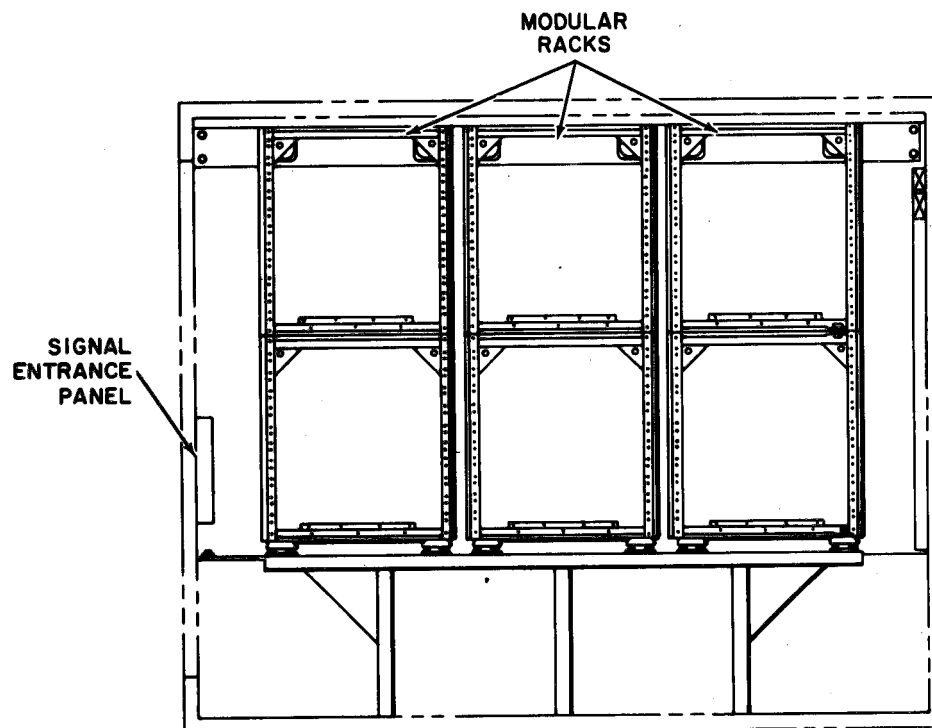


Figure 1-4. Shelter Interior, Roadside Wall

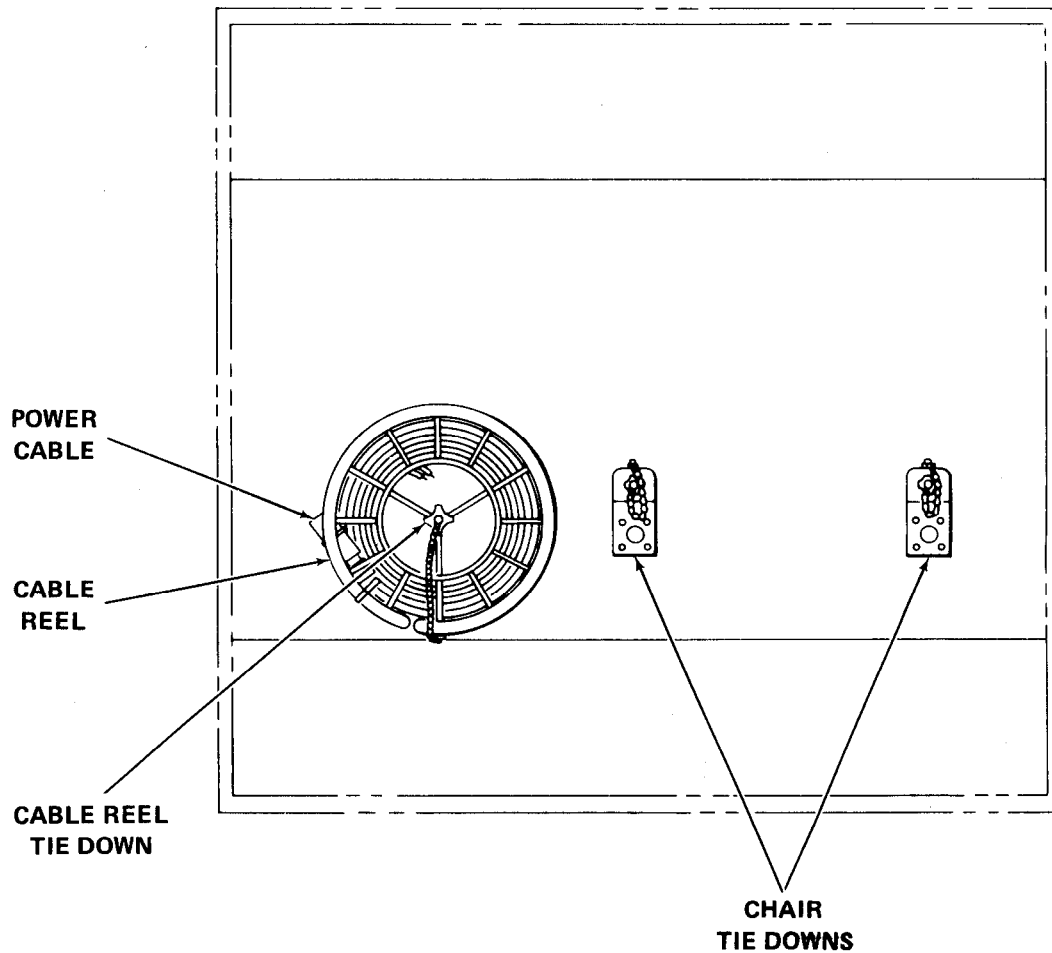


Figure 1-5. Shelter Interior, Floor

(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 fluorescent 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 fluorescent 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.

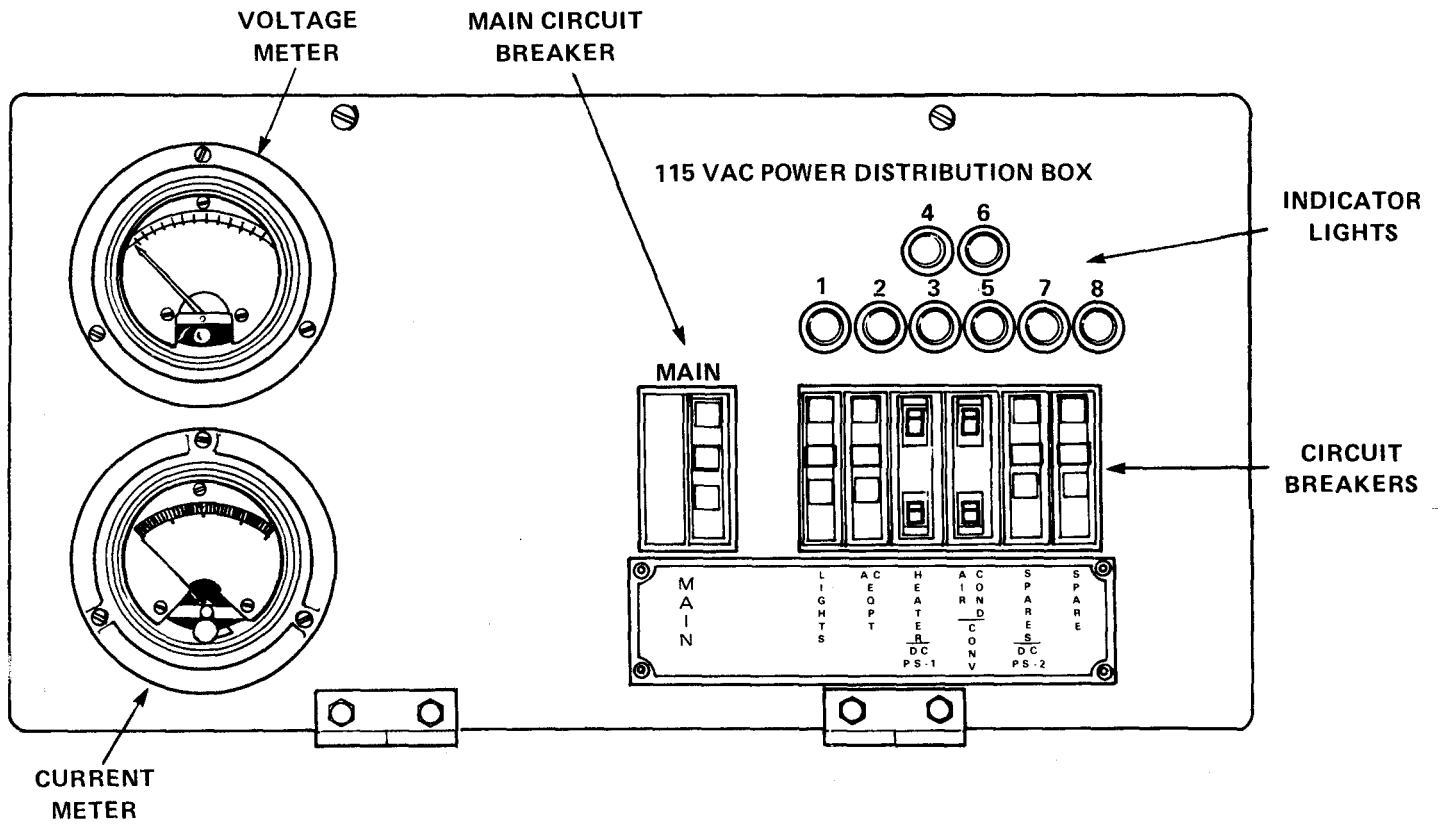
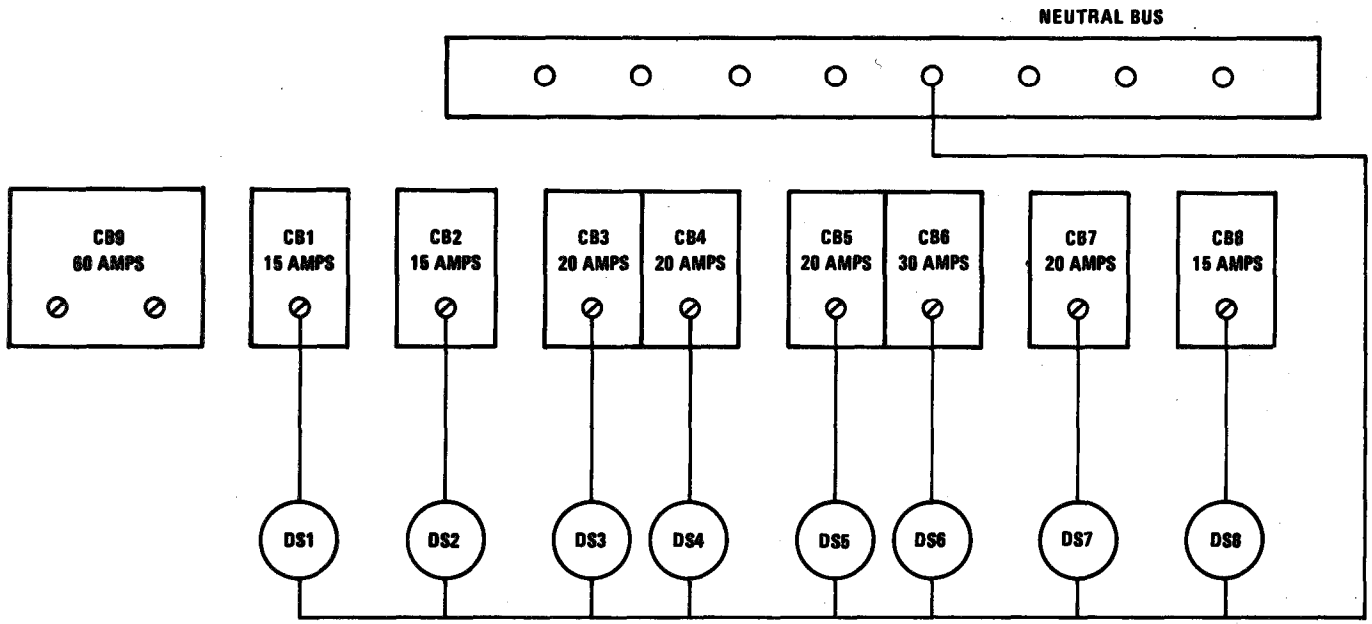


Figure 2-1. Power Distribution Panel Enclosure



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

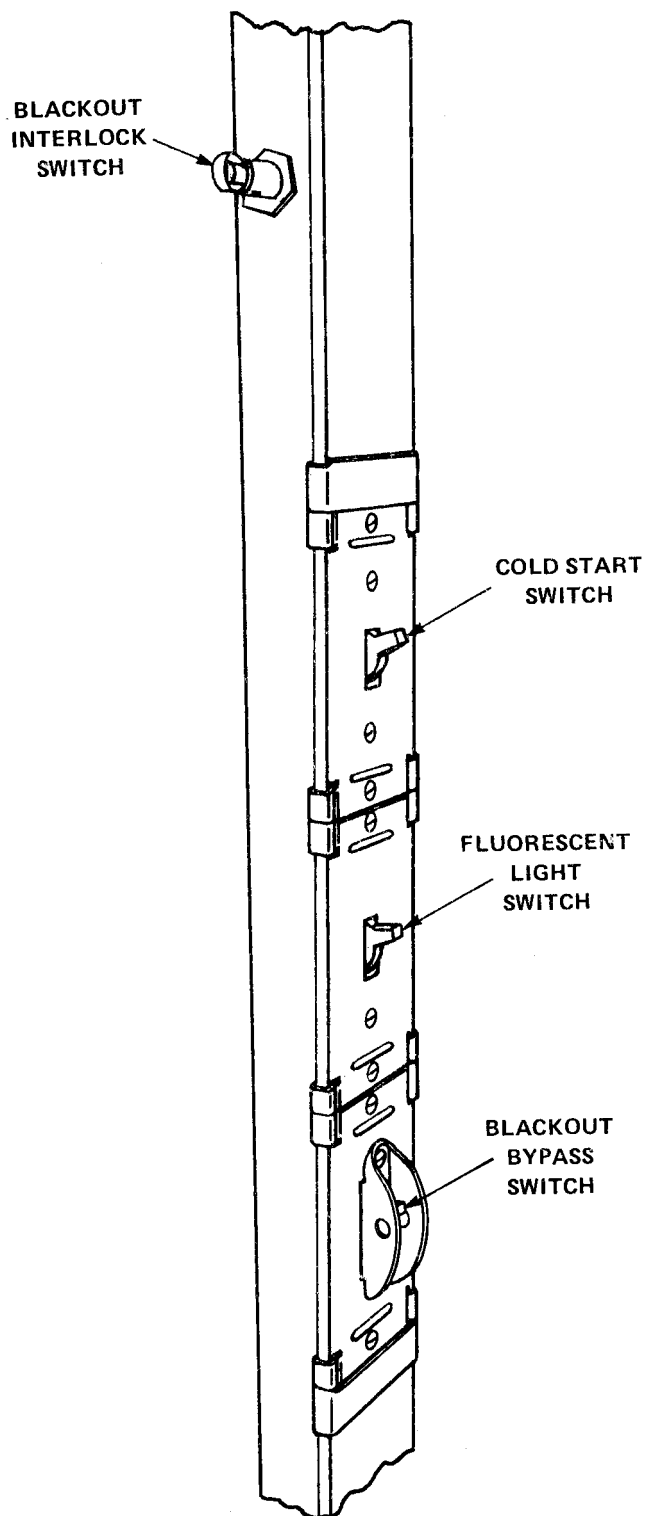
3-1 SCOPE. This chapter contains a functional description of the Electrical Equipment Shelter S-457A/G. Appendix A list the applicable technical manuals for the air-conditioning unit and the dc power supply. The only functional components of this basic shelter are the electrical system, dc power supply,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

rized 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	
		Install			8.0			4	
		Replace			10.0			4	
		Repair					**		
		Overhaul					**		
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.

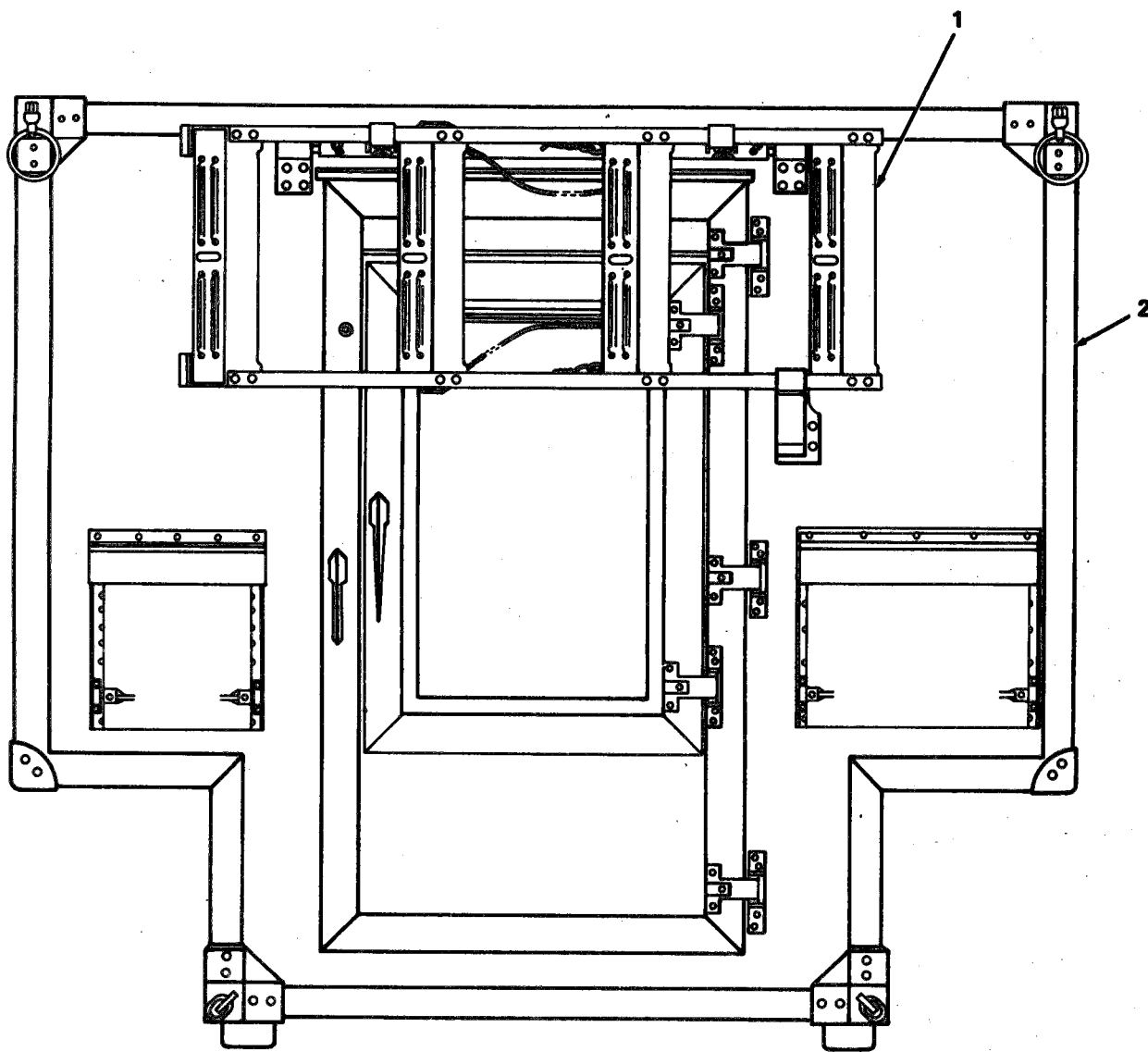
b. When National Stock Number or Part Number is known:

(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.

THIS PAGE INTENTIONALLY LEFT BLANK



EXTERIOR VIEW, REAR OF SHELTER

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

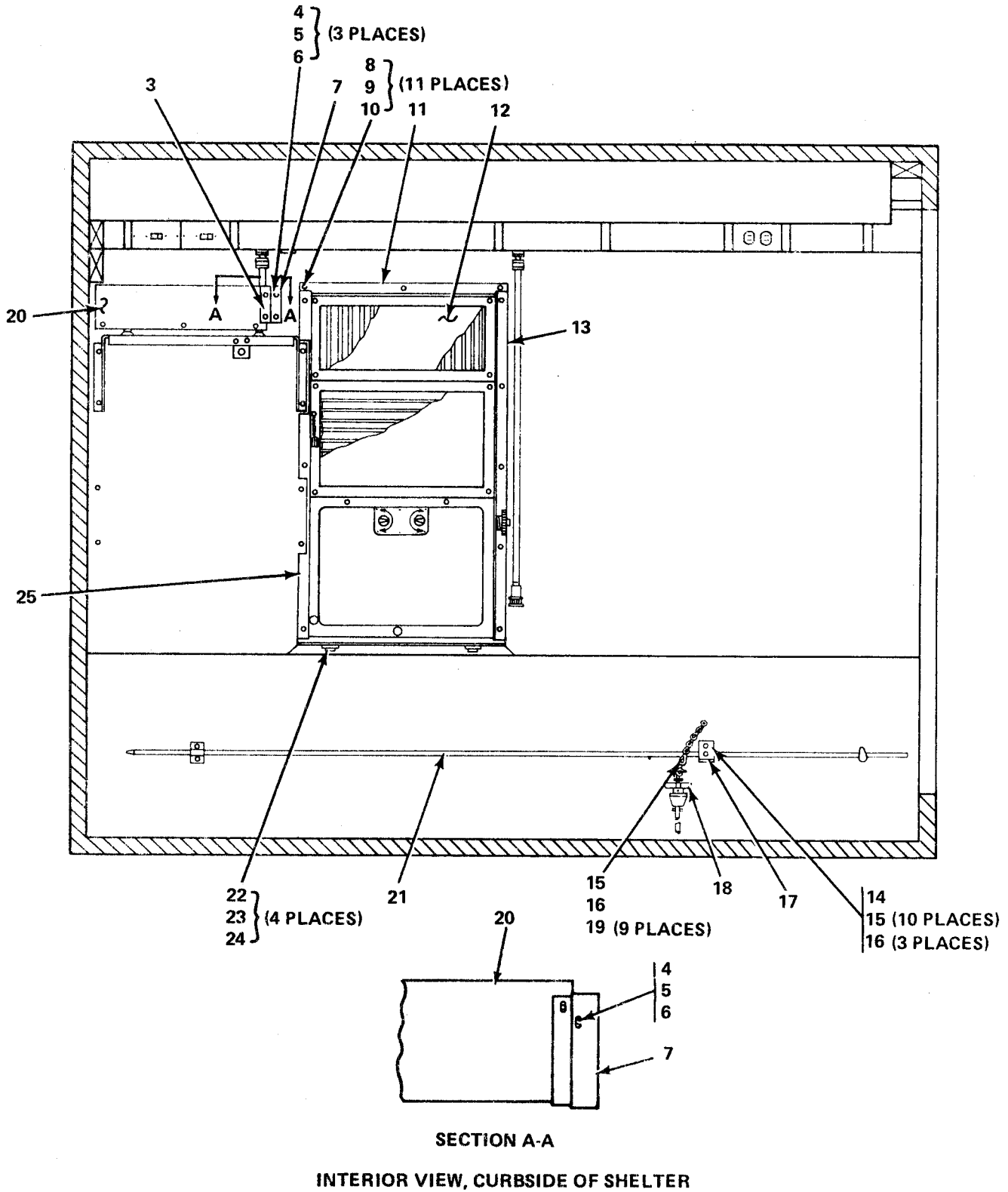
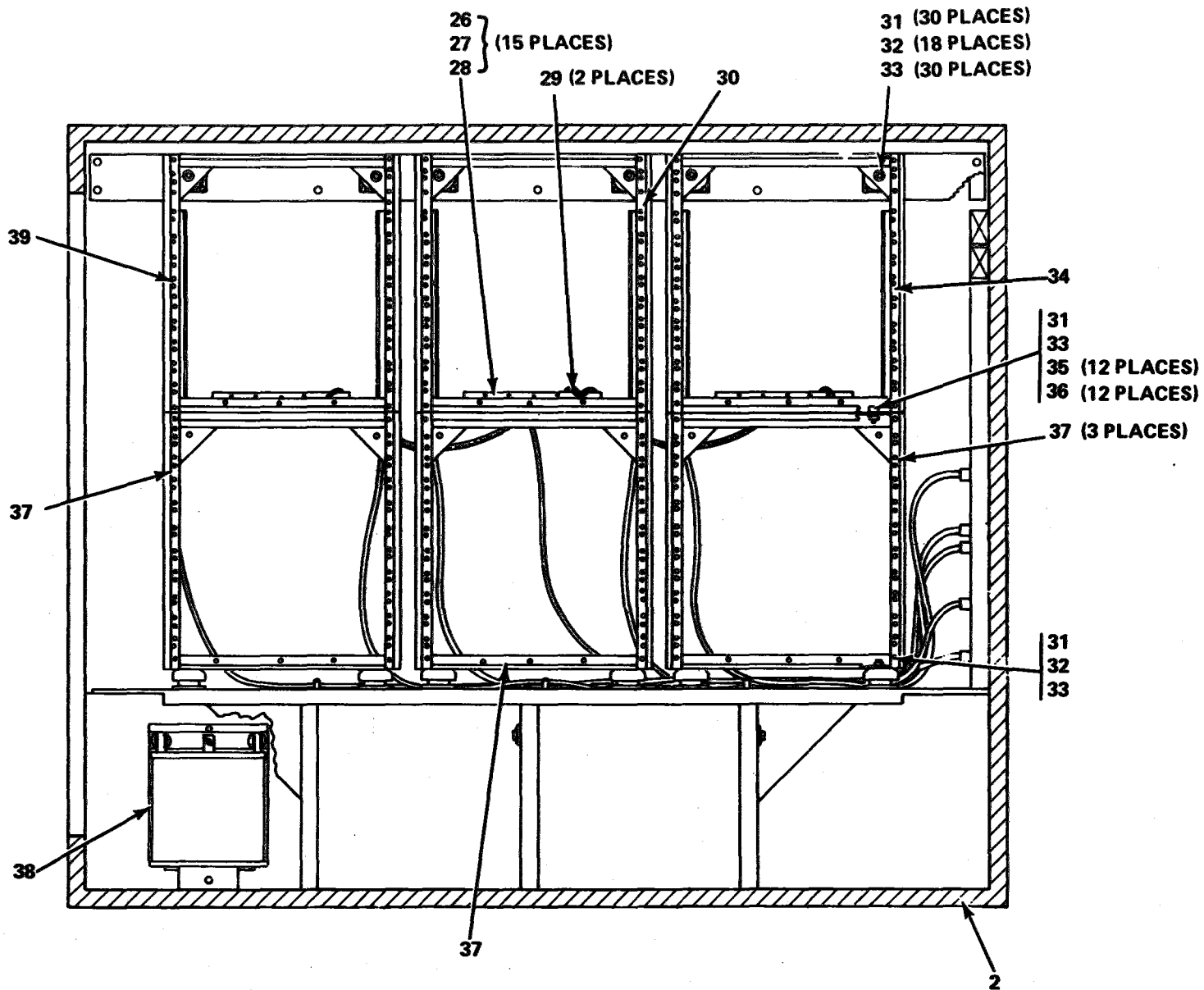
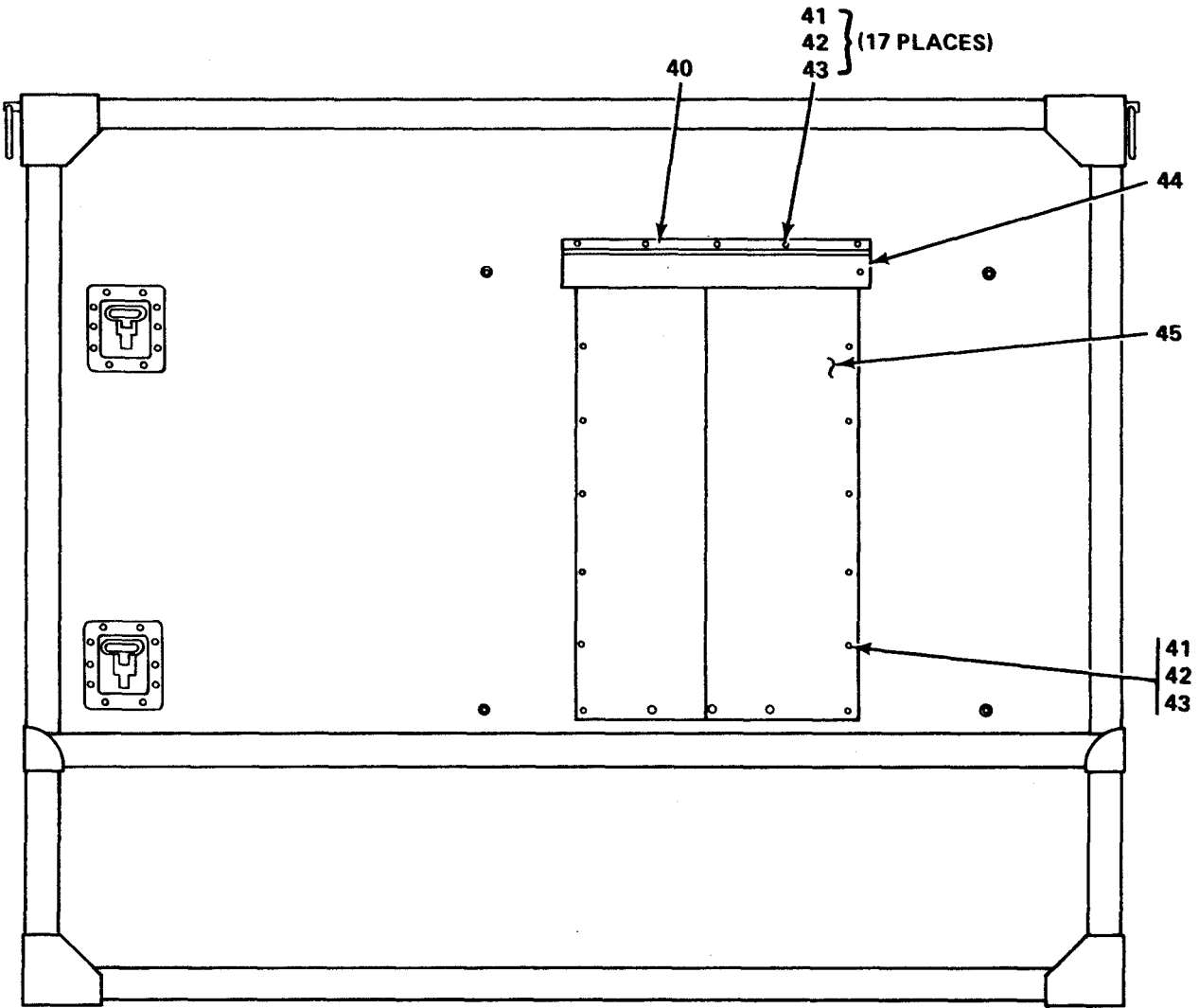


Figure C-1. Electrical Equipment Shelter S-457A/G (Sheet 2 of 6)



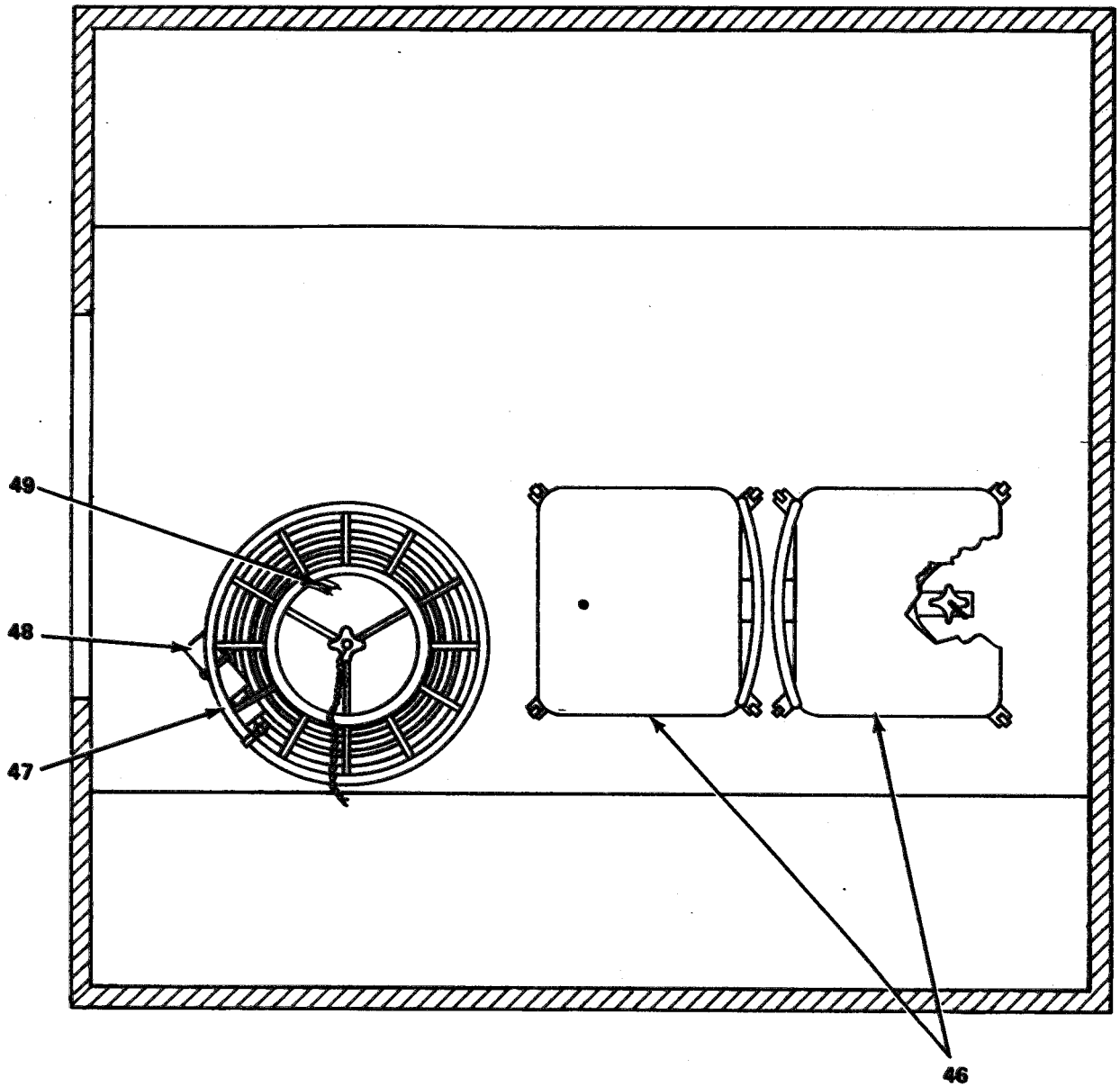
INTERIOR VIEW, ROADSIDE OF SHELTER

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



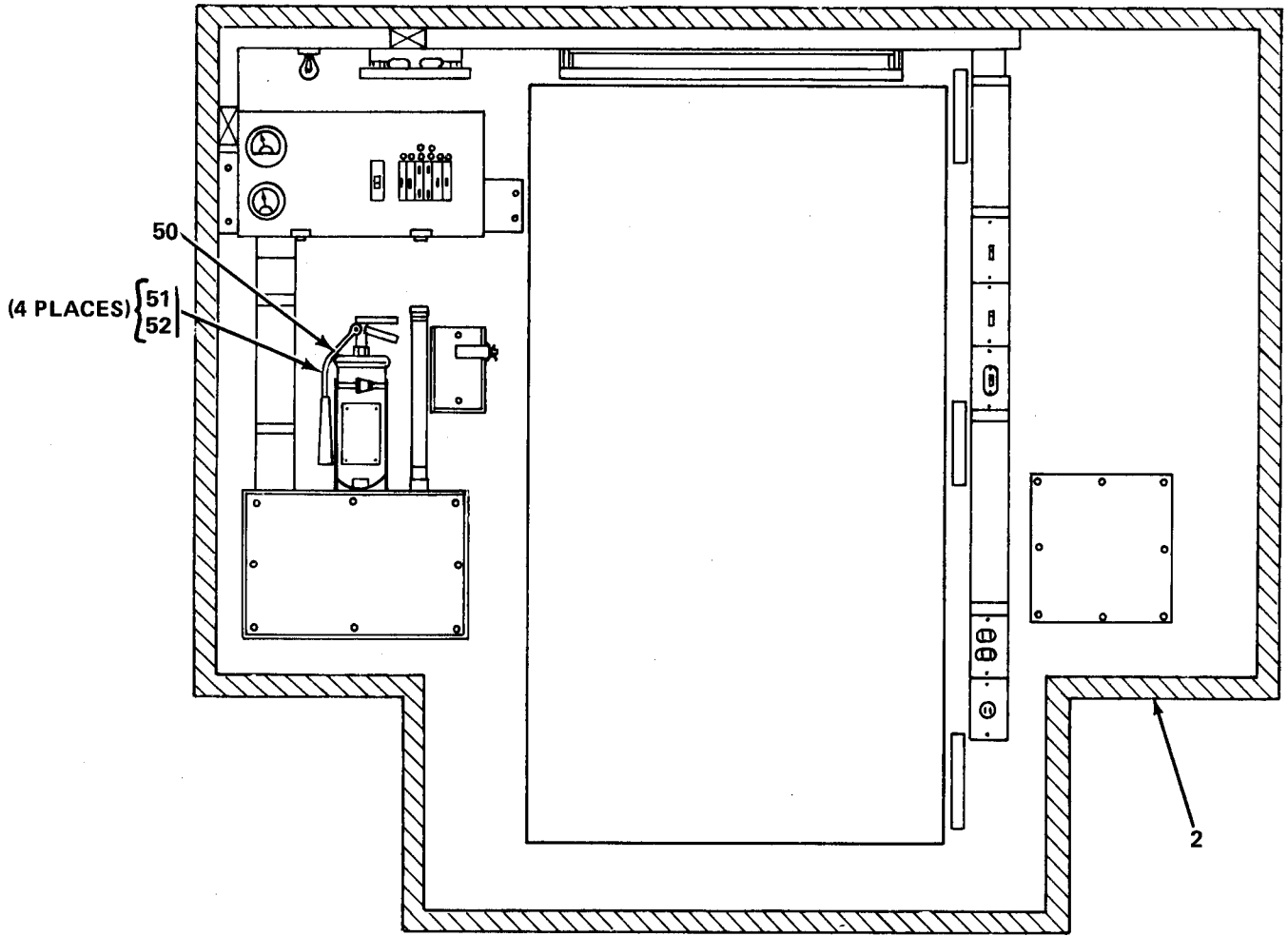
EXTERIOR VIEW, CURBSIDE OF SHELTER

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

THIS PAGE INTENTIONALLY LEFT BLANK

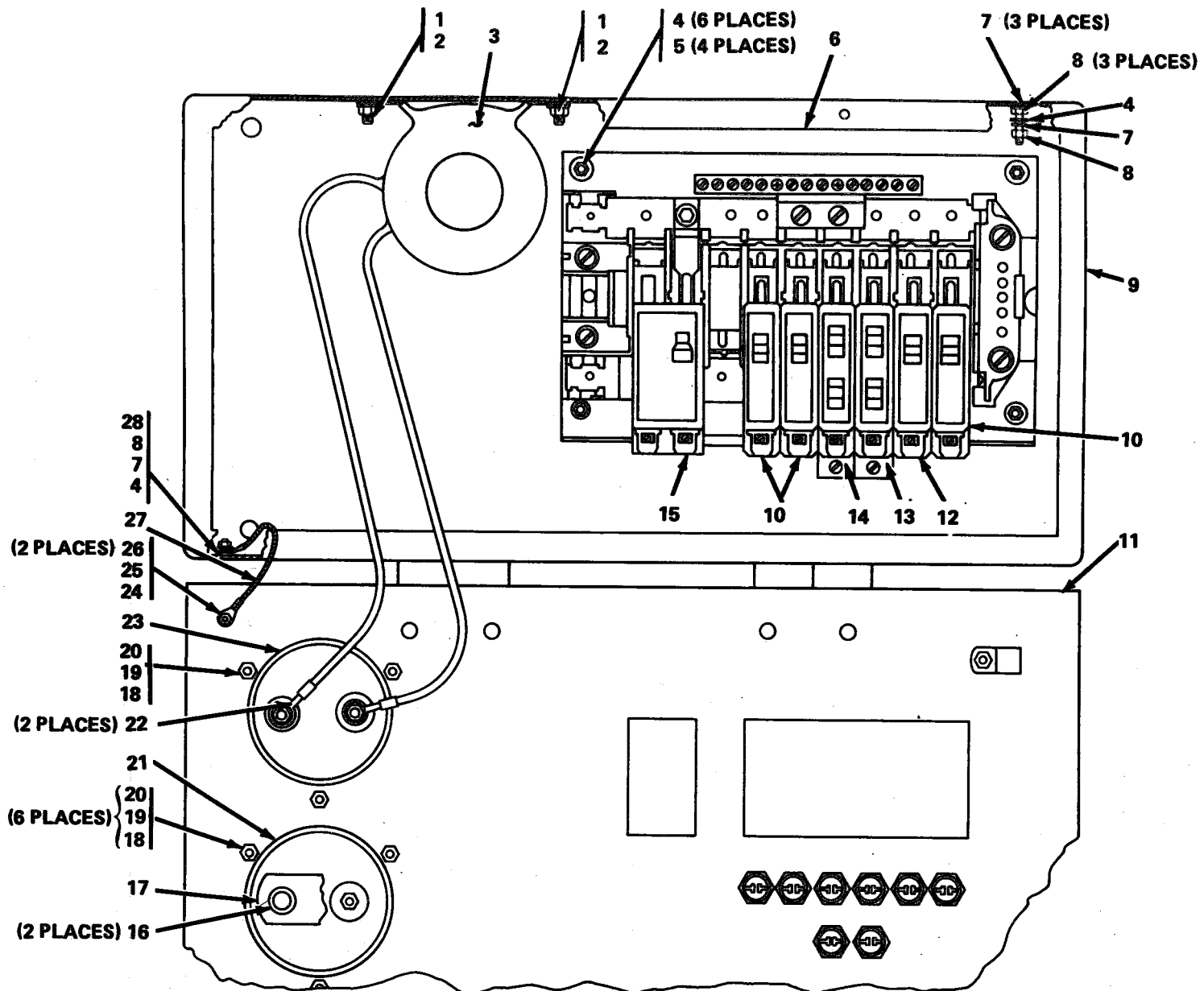


Figure C-2 Power Distribution Box (Sheet 1 of 4)

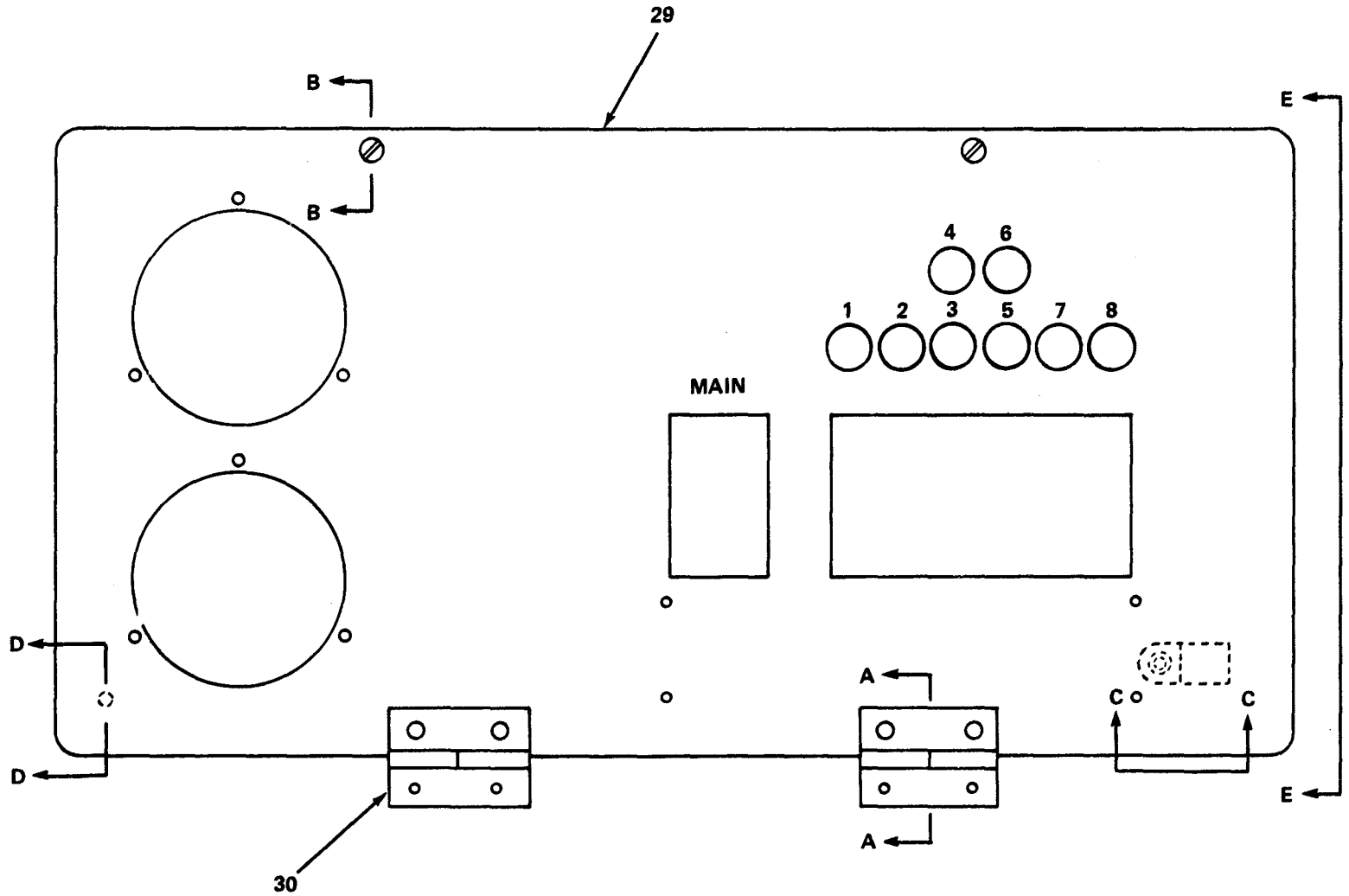
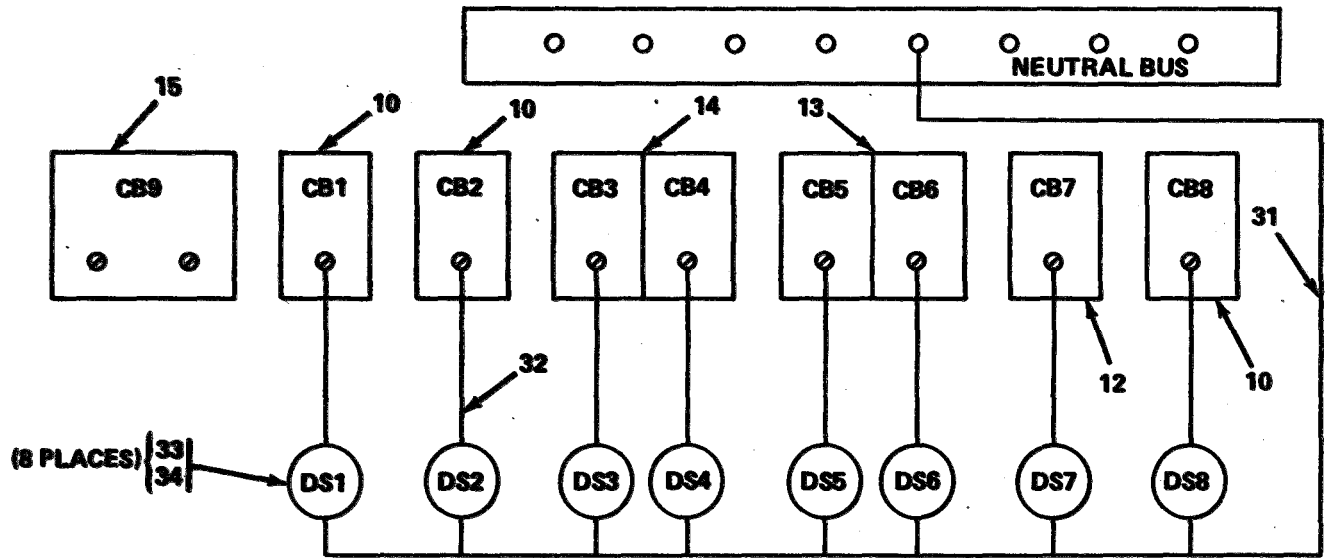


Figure C-2. Power Distribution Box (Sheet 2 of 4)



WIRING DIAGRAM OF DISTRIBUTION BOX

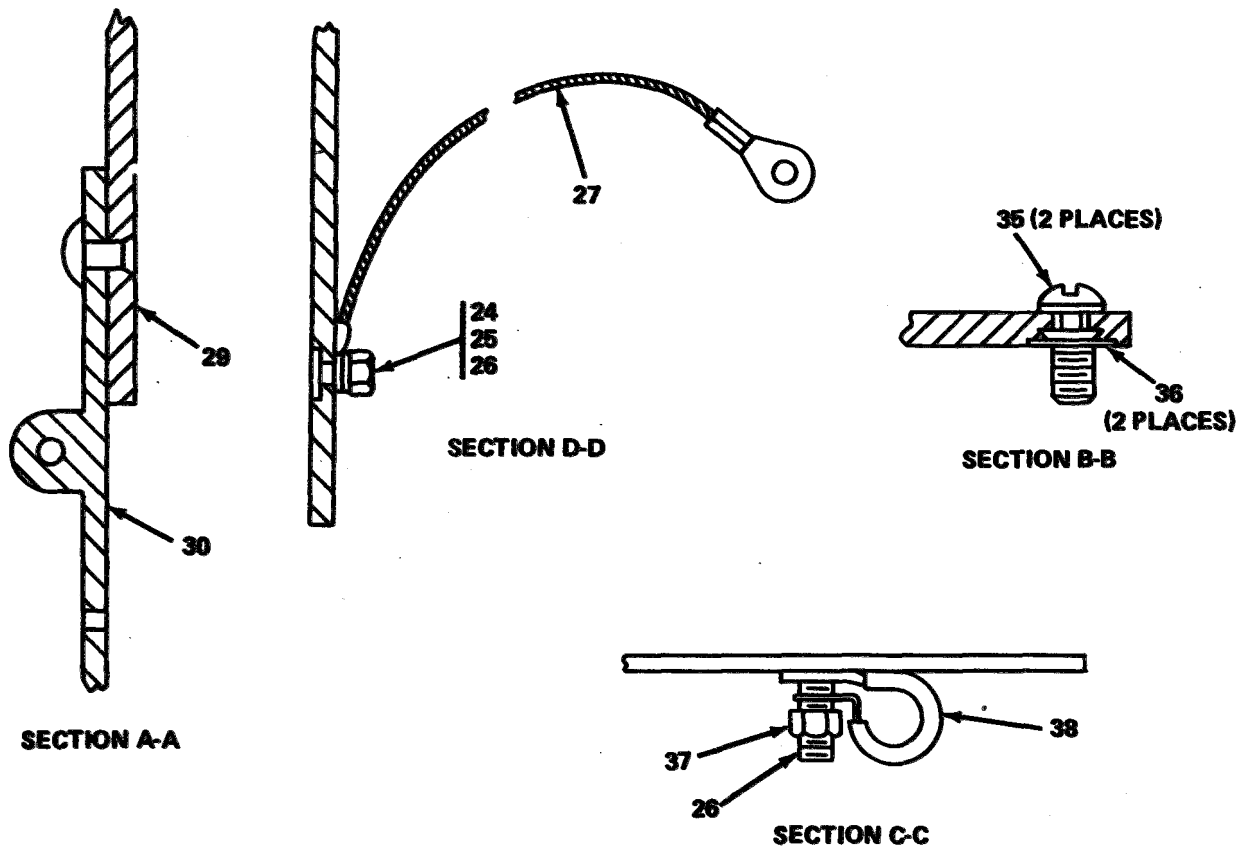


Figure C-2. Power Distribution Box (Sheet 3 of 4)

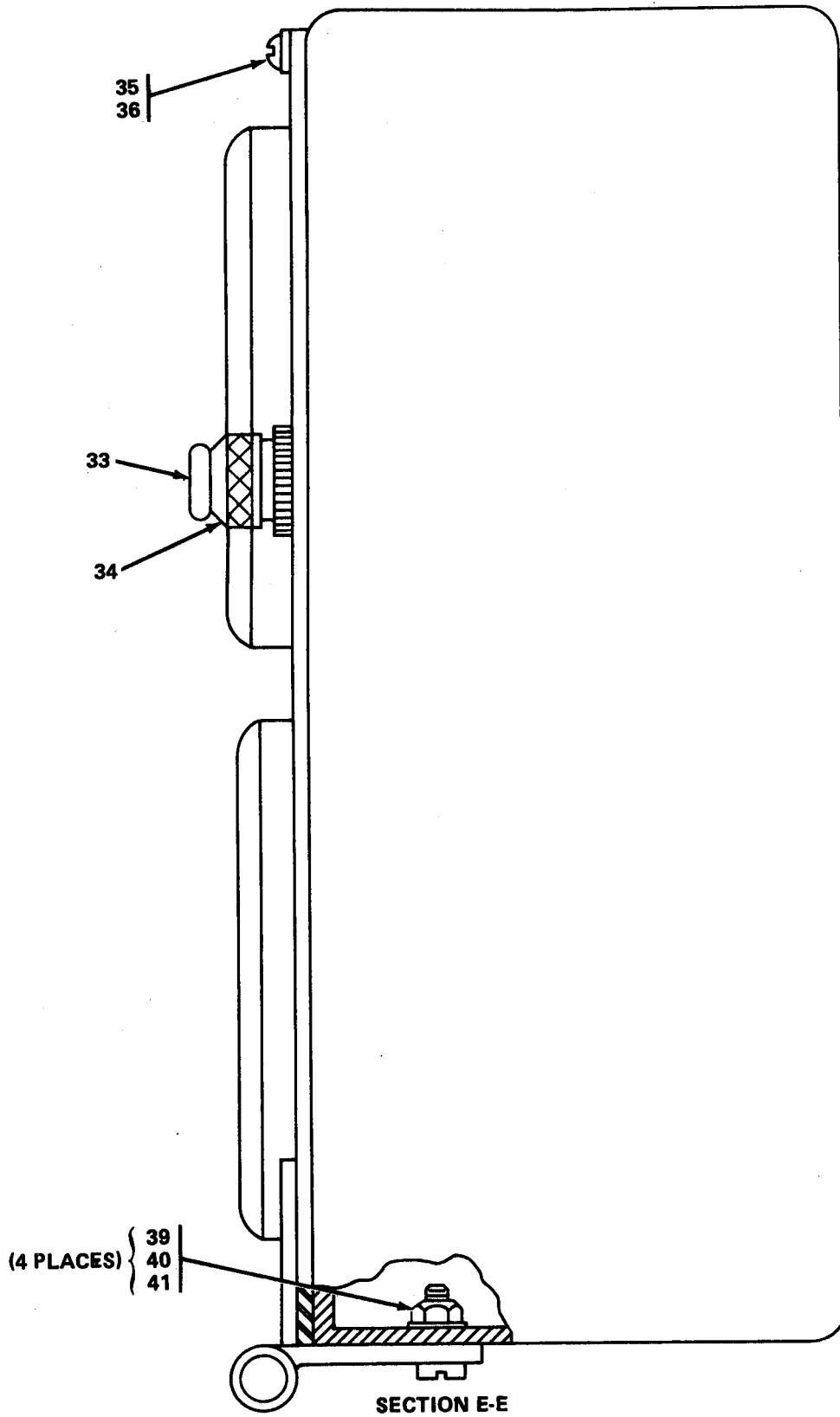


Figure C-2. Power Distribution Box (Sheet 4 of 4)

(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 GROUP: 01 POWER DISTRIBUTION BOX	U/M	QTY INC IN UNIT
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

THIS PAGE INTENTIONALLY LEFT BLANK

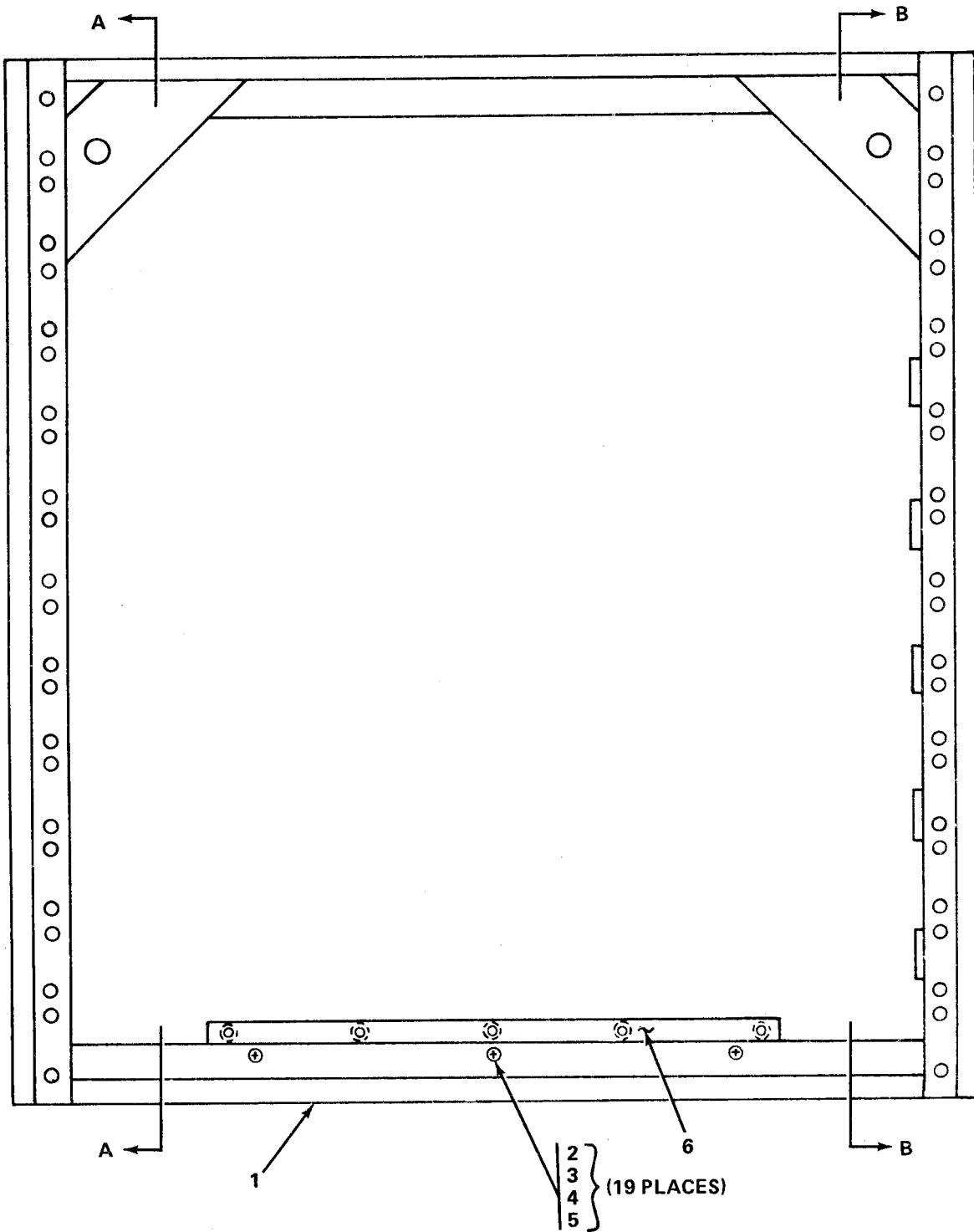


Figure C-3. Rack Assembly (Sheet 1 of 3)

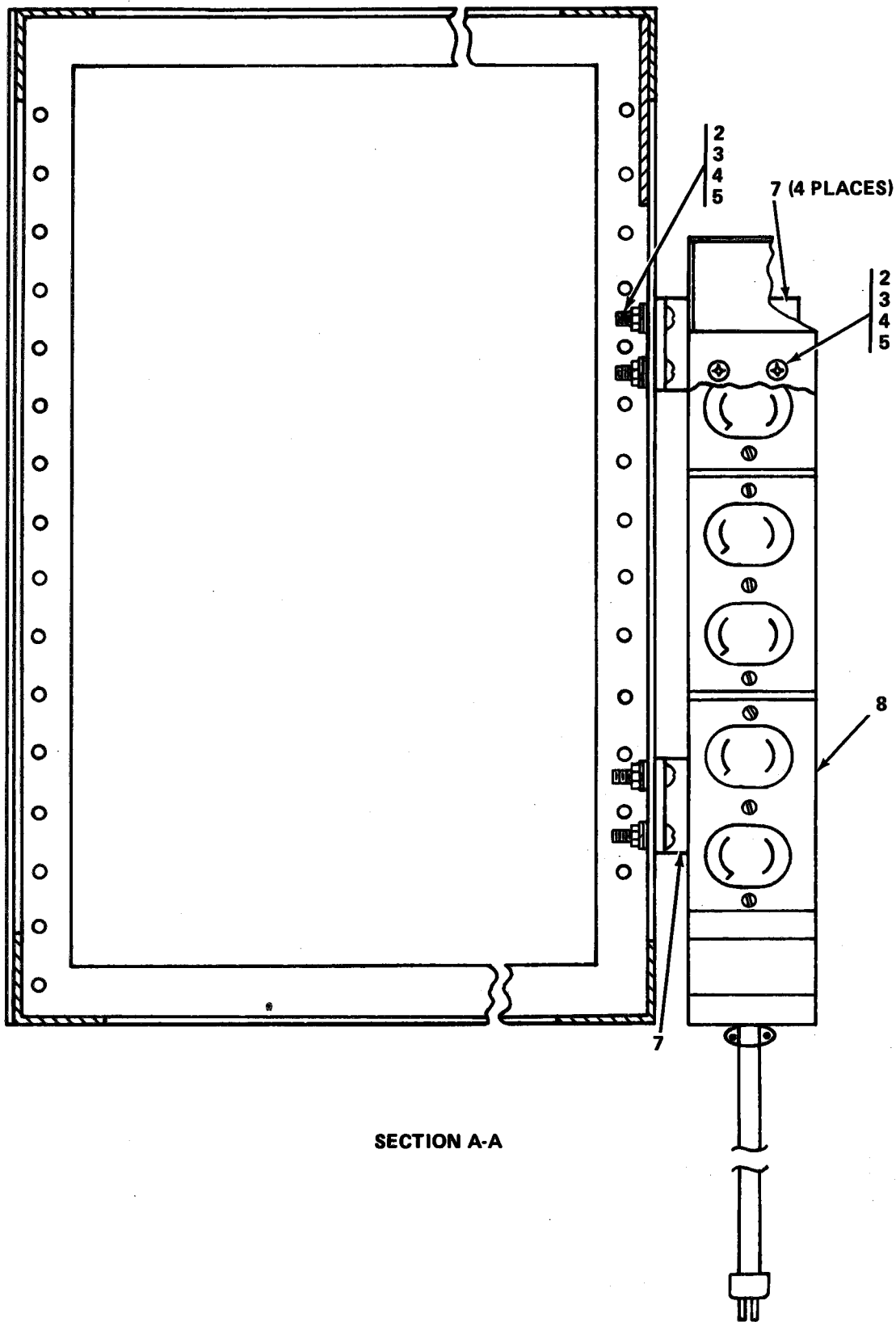


Figure C-3. Rack Assembly (Sheet 2 of 3)

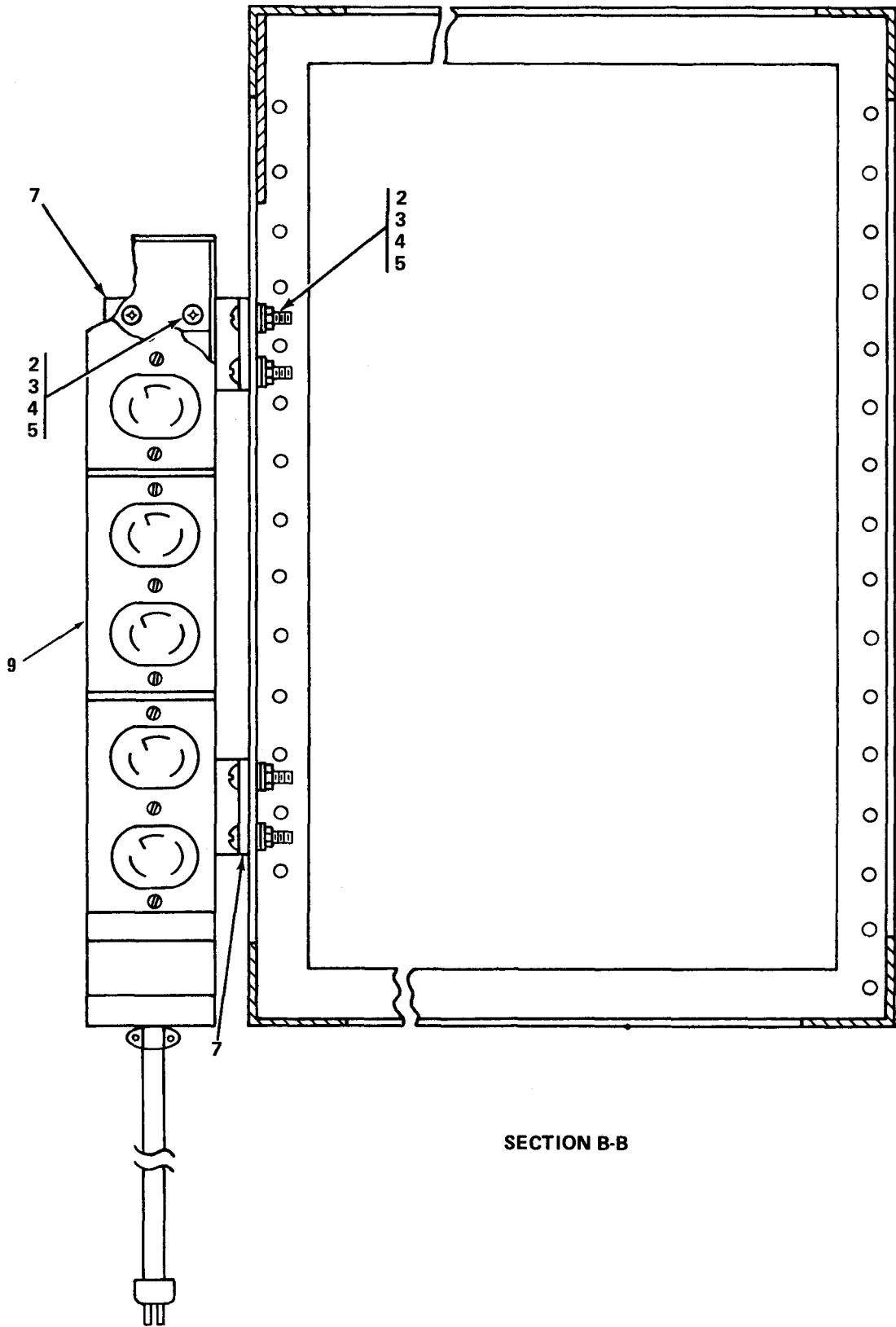


Figure C-3. Rack Assembly (Sheet 3 of 3)

(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

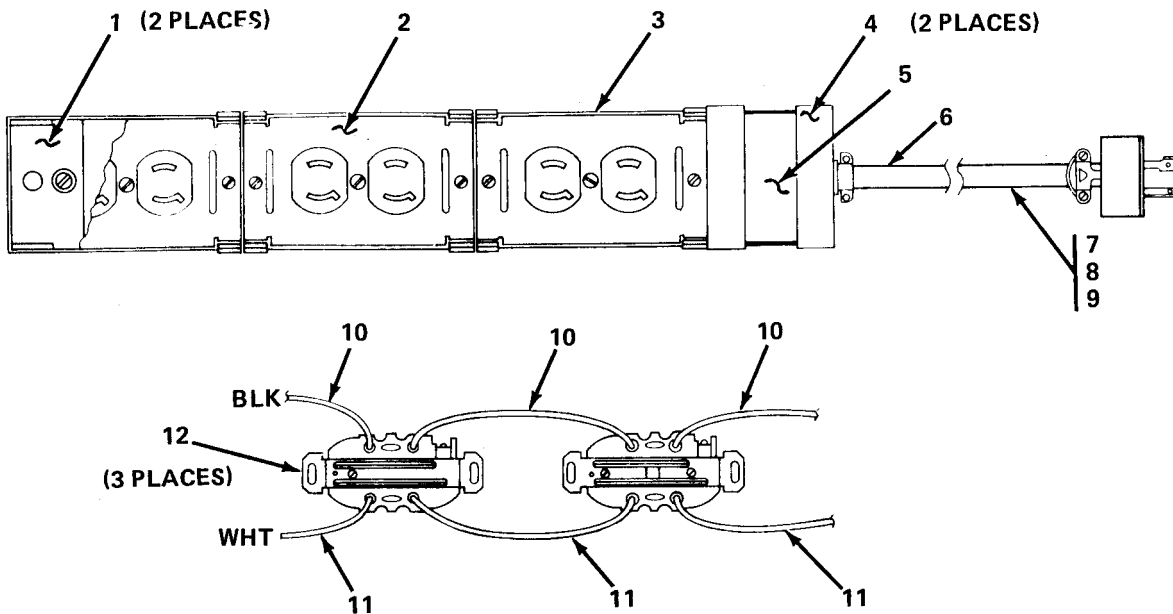


Figure C-4. DC Electrical Connector

(1) ILLUSTRATION (a) FIG NO.	(1) ITEM NO. (b)	(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
C-4	1	XCOZZ		0188-2-3013	15942	BLANK END FITTING	EA	2
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

THIS PAGE INTENTIONALLY LEFT BLANK

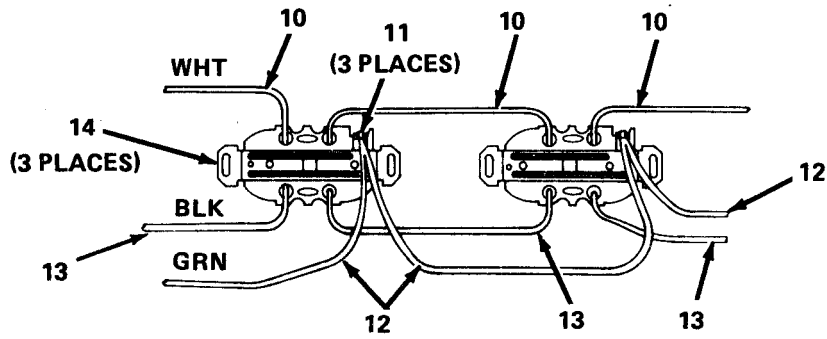
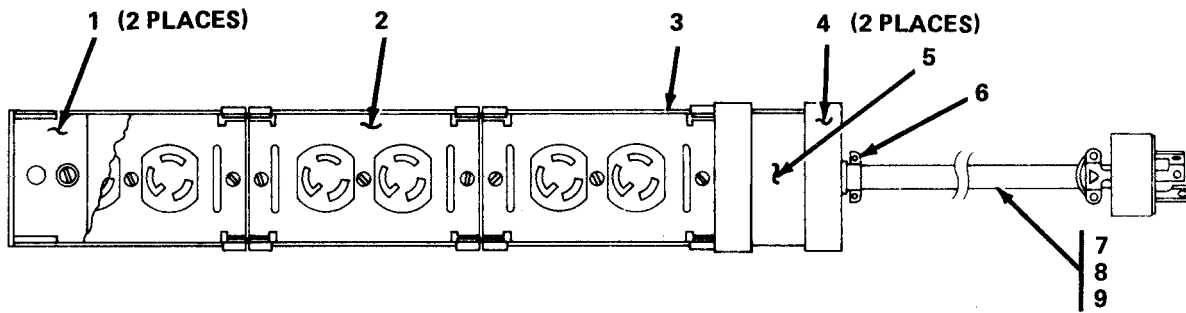
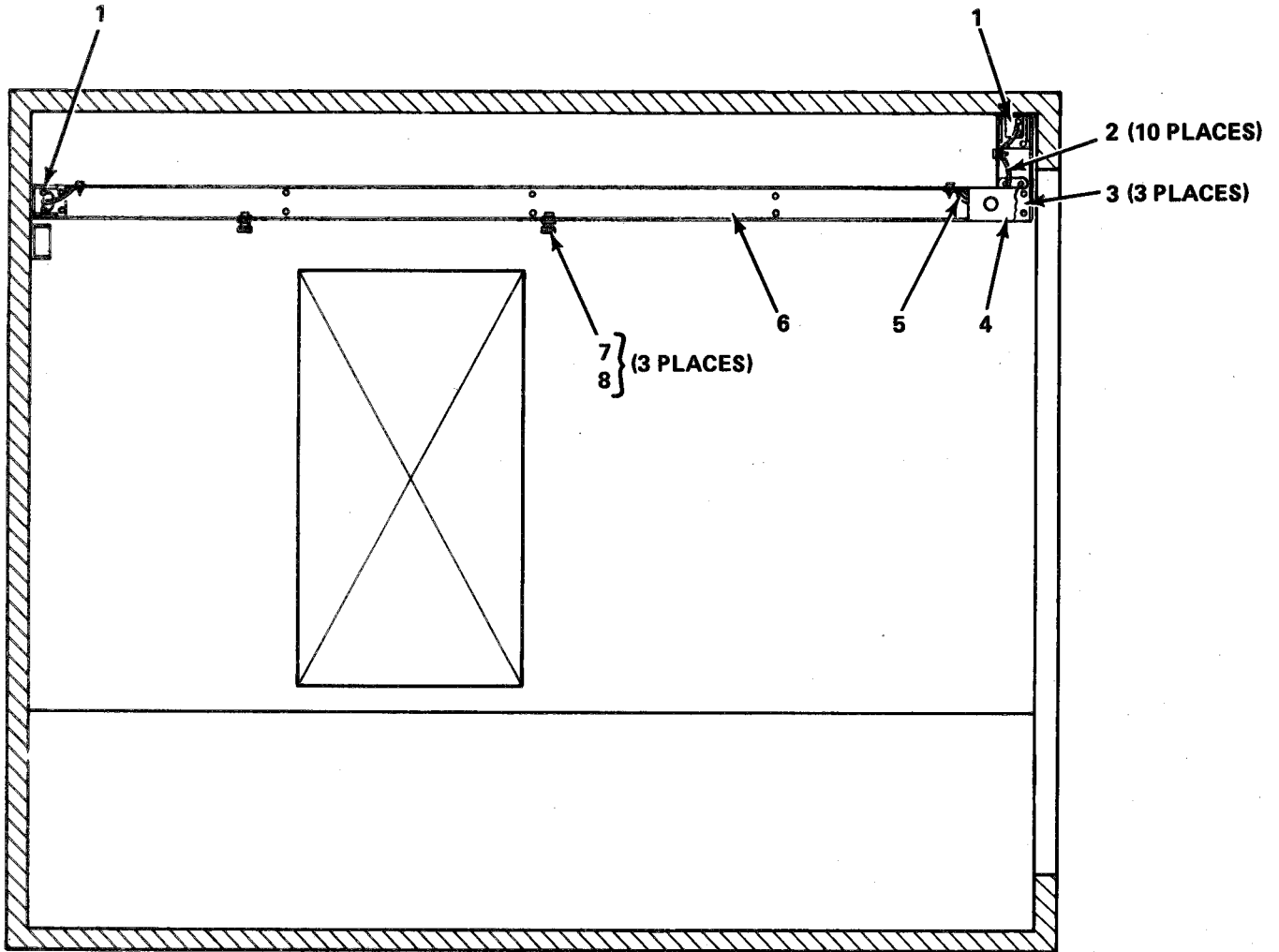


Figure C-5. AC Electrical Connector

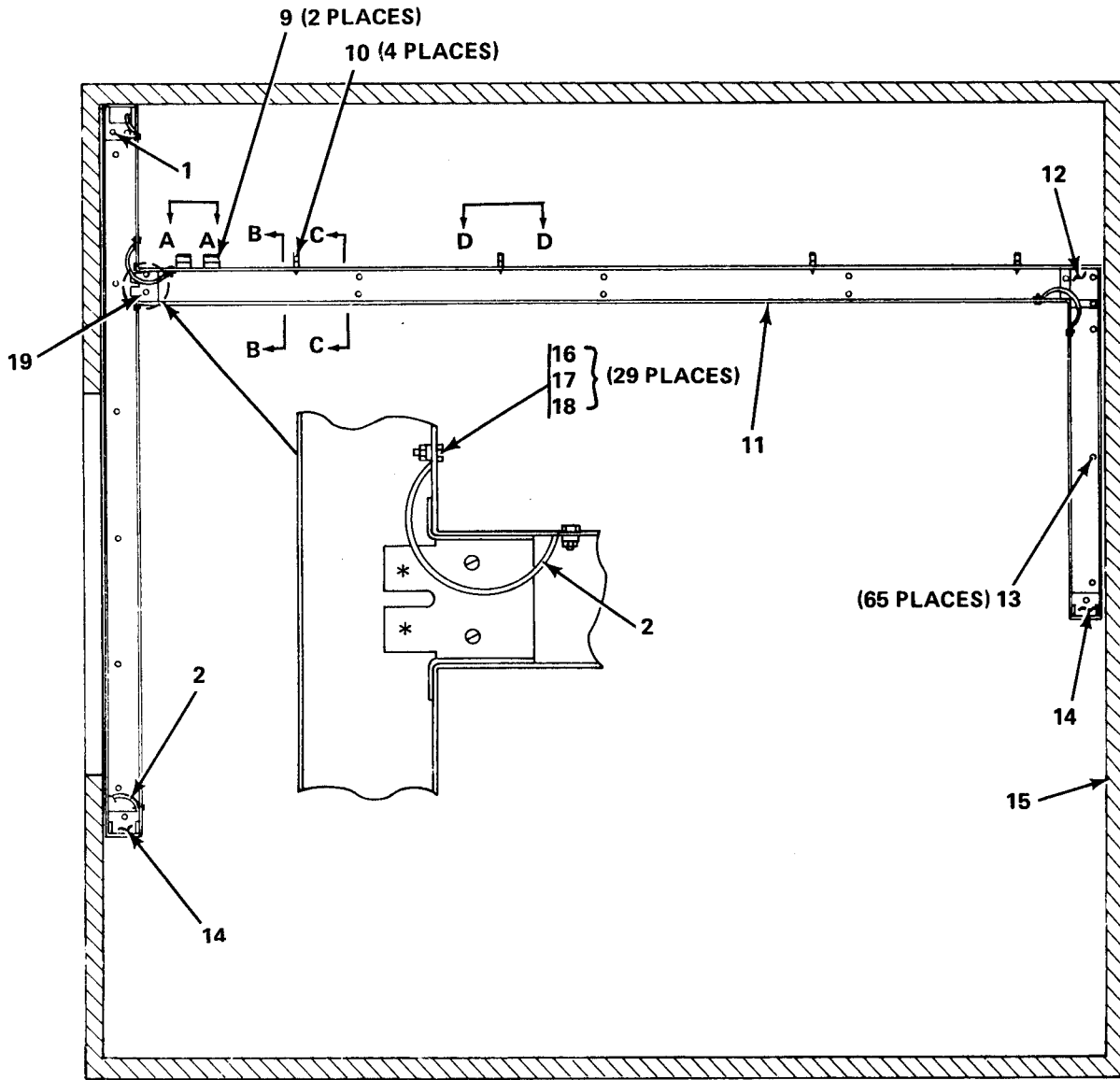
(1) ILLUSTRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U/M QTY INC IN UNIT
USABLE ON CODE							
GROUP: 0202 AC ELECTRICAL CONNECTOR							
C-5	1	XCOZZ		0188-2-3013	15942	BLANK END FITTING	EA 2
C-5	2	XCOZZ		0188-2-3091-1	15942	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

THIS PAGE INTENTIONALLY LEFT BLANK



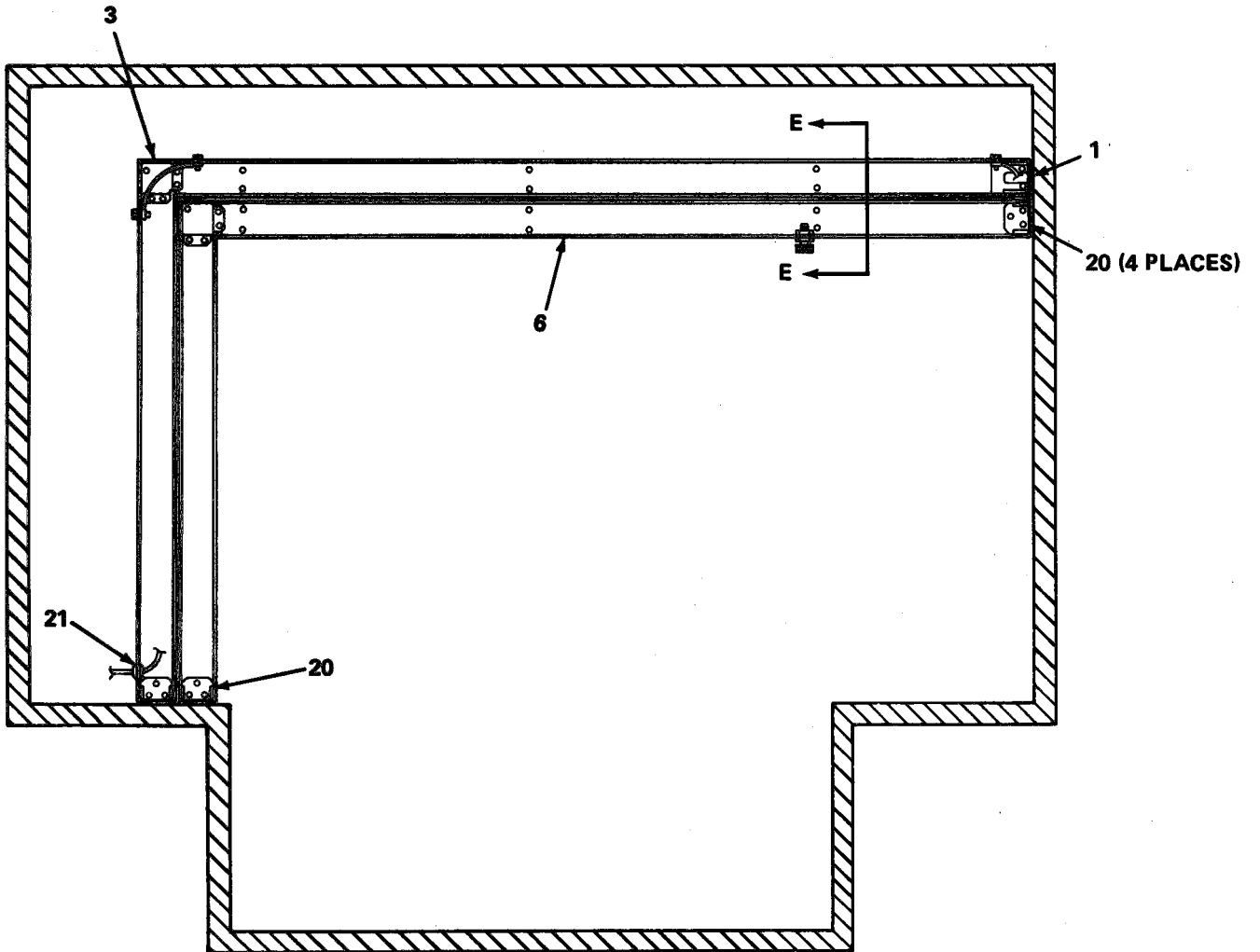
INTERIOR VIEW, CURBSIDE OF SHELTER

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



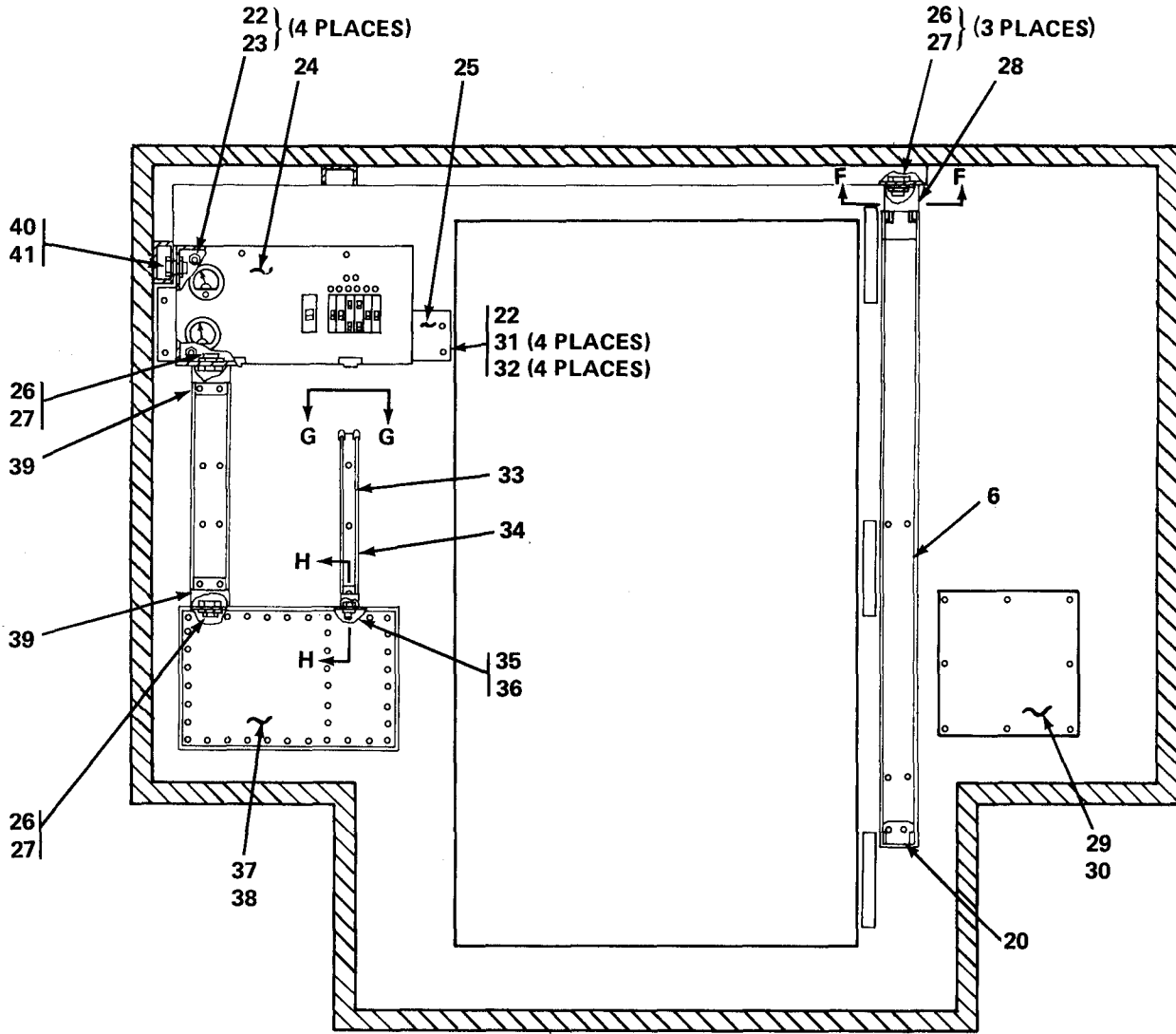
INTERIOR VIEW, CEILING OF SHELTER

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



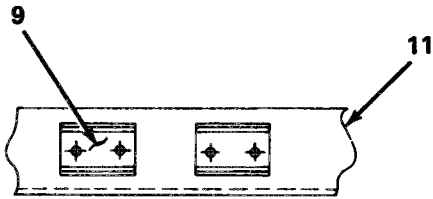
INTERIOR VIEW, FRONT OF SHELTER

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

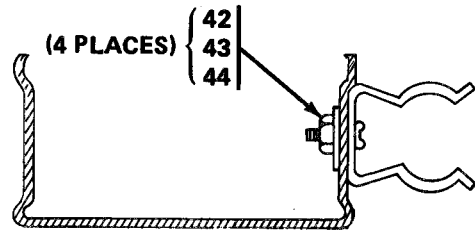


INTERIOR VIEW, REAR OF SHELTER

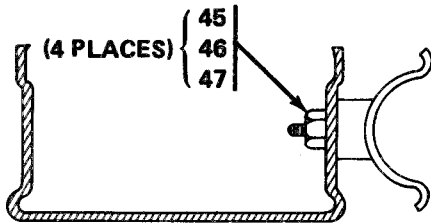
Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 4 of 6)



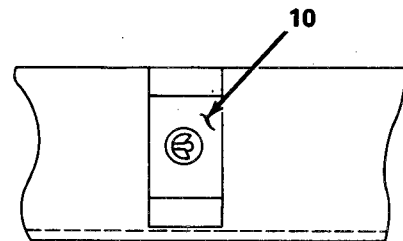
**VIEW A-A
ROTATED 180 DEGREES CW**



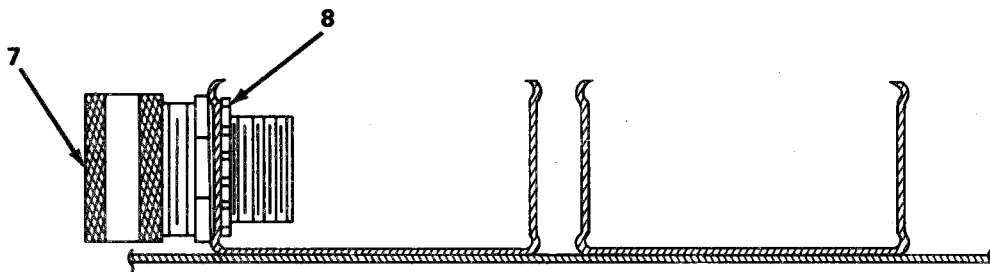
**VIEW B-B
ROTATED 90 DEGREES CCW**



**VIEW C-C
ROTATED 90 DEGREES CCW**

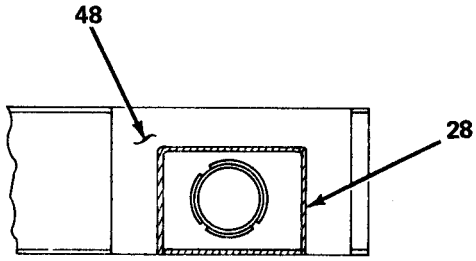


**VIEW D-D
ROTATED 180 DEGREES CW**

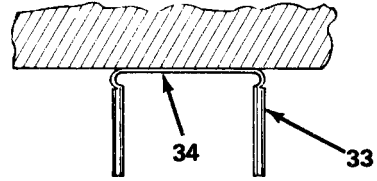


**VIEW E-E
ROTATED 90 DEGREES CCW**

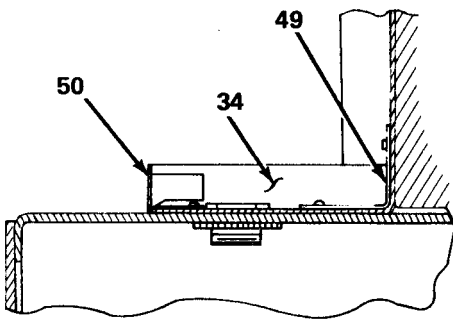
Figure C-6. Electrical Equipment Shelter Utilities Raceway Installation (Sheet 5 of 6)



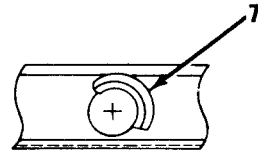
VIEW F-F



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 INSTALLA- TION 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

THIS PAGE INTENTIONALLY LEFT BLANK

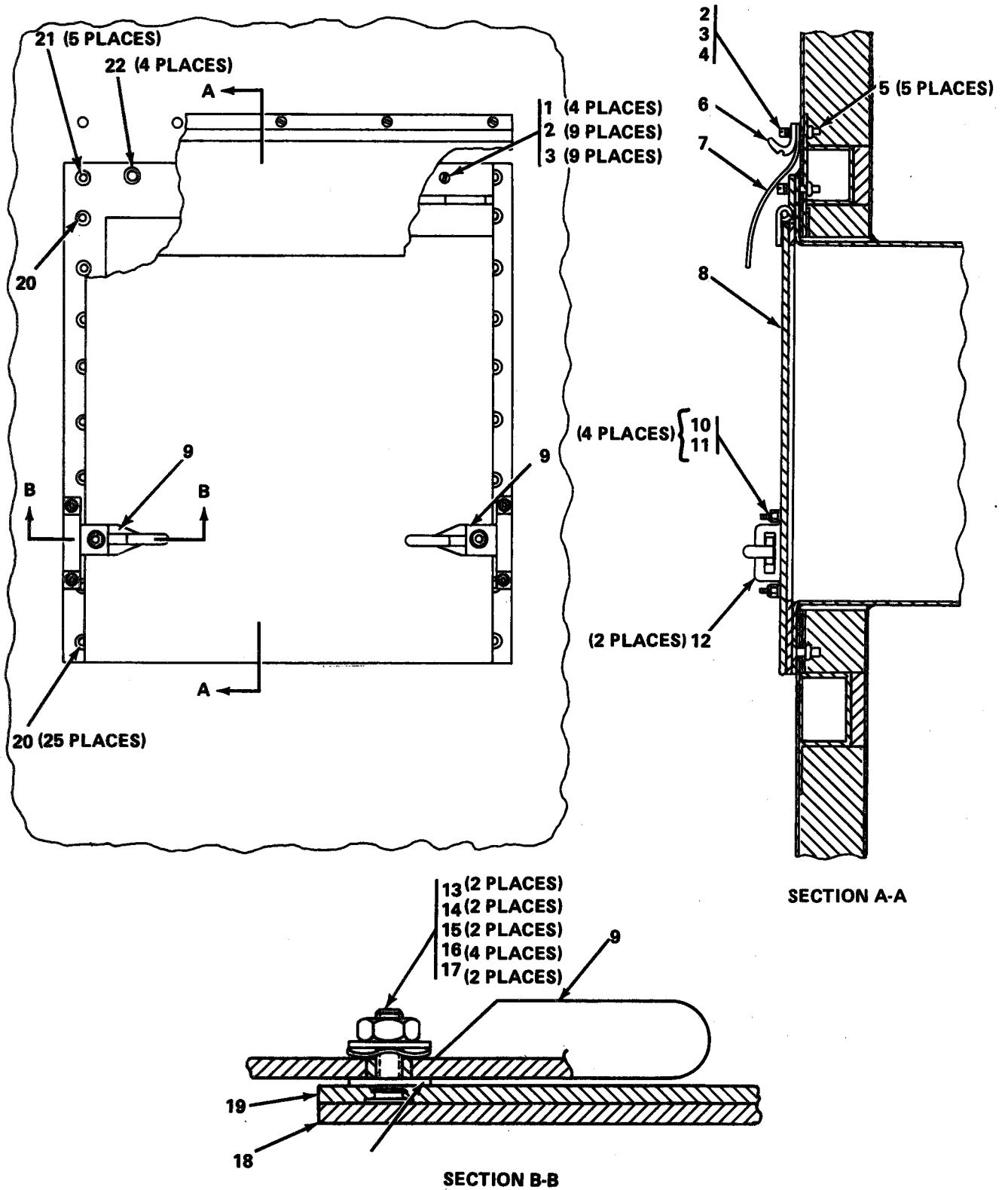


Figure C-7. Signal Entrance Box Installation (Sheet 1 of 2)

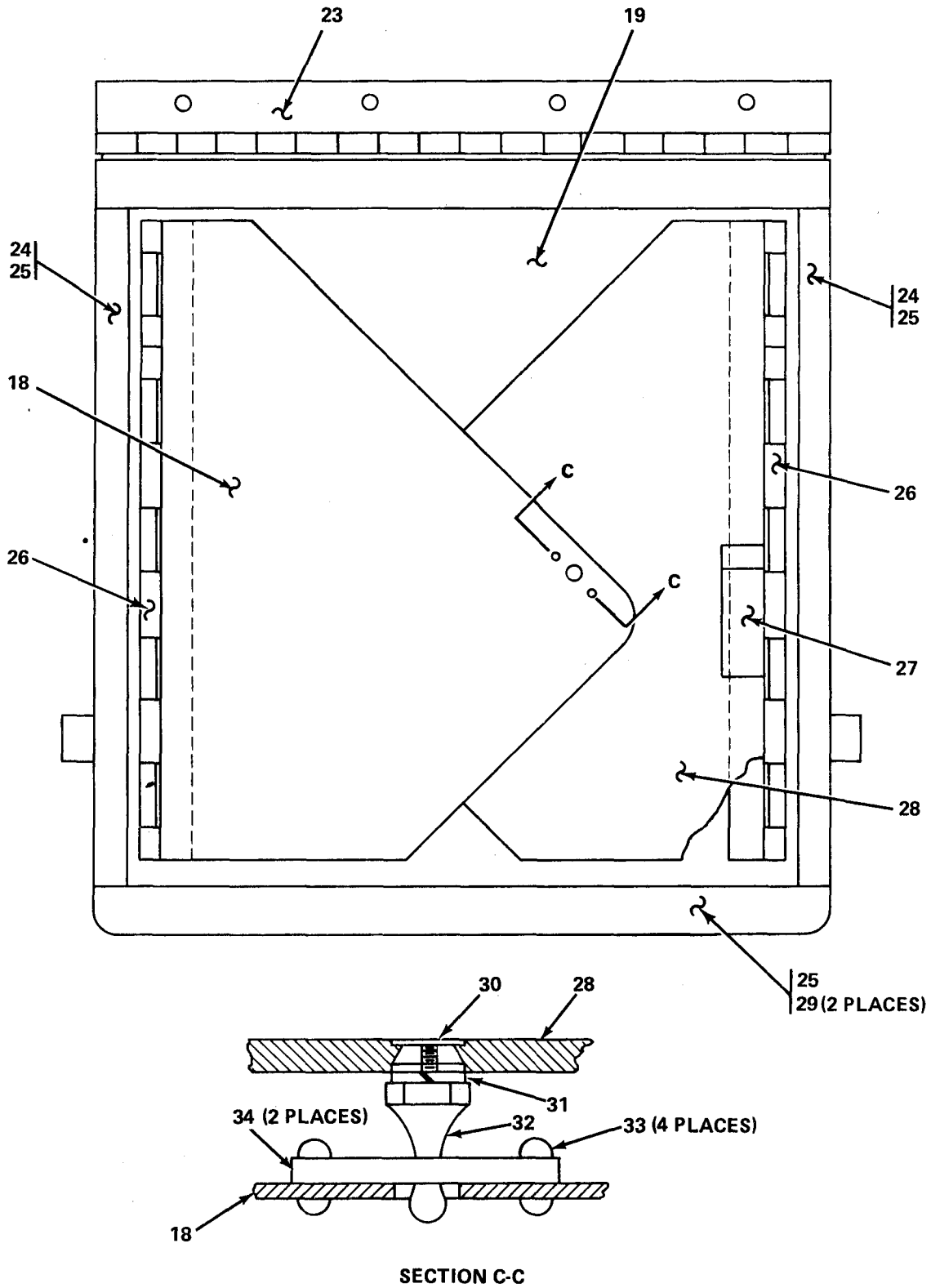


Figure C-7. Signal Entrance Box Installation (Sheet 2 of 2)

(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

THIS PAGE INTENTIONALLY LEFT BLANK

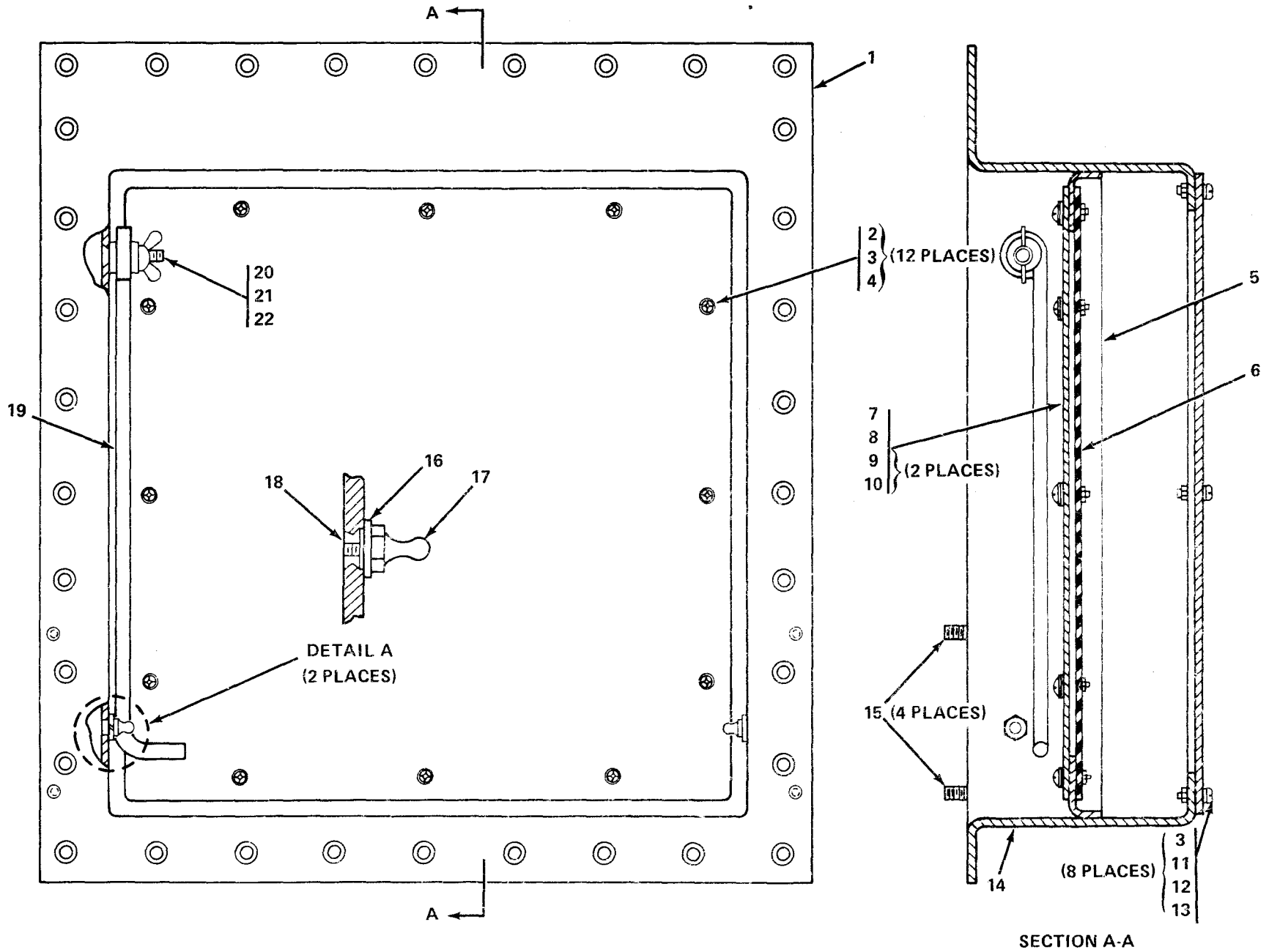


Figure C-8. Signal Entrance Box Assembly

(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

THIS PAGE INTENTIONALLY LEFT BLANK

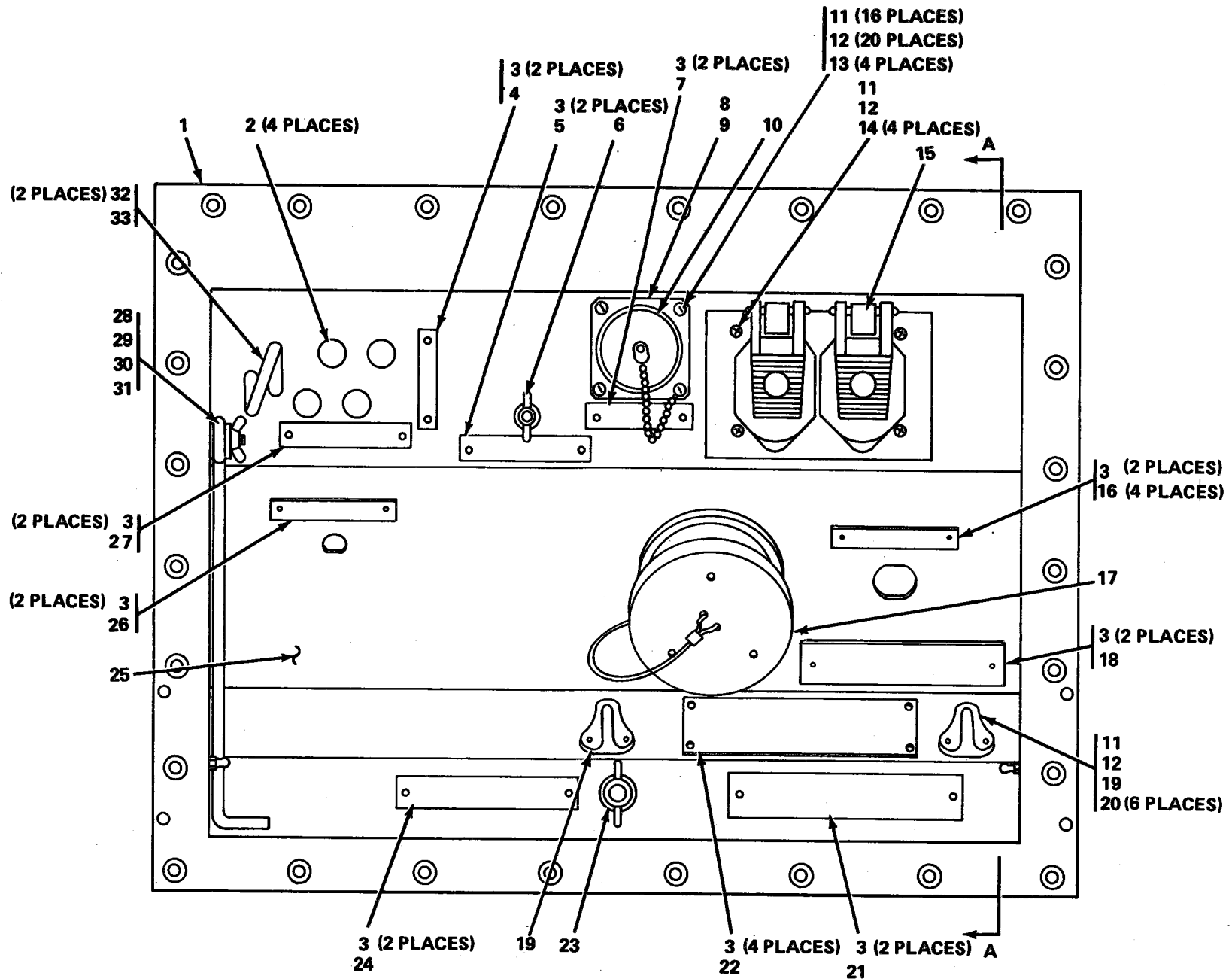
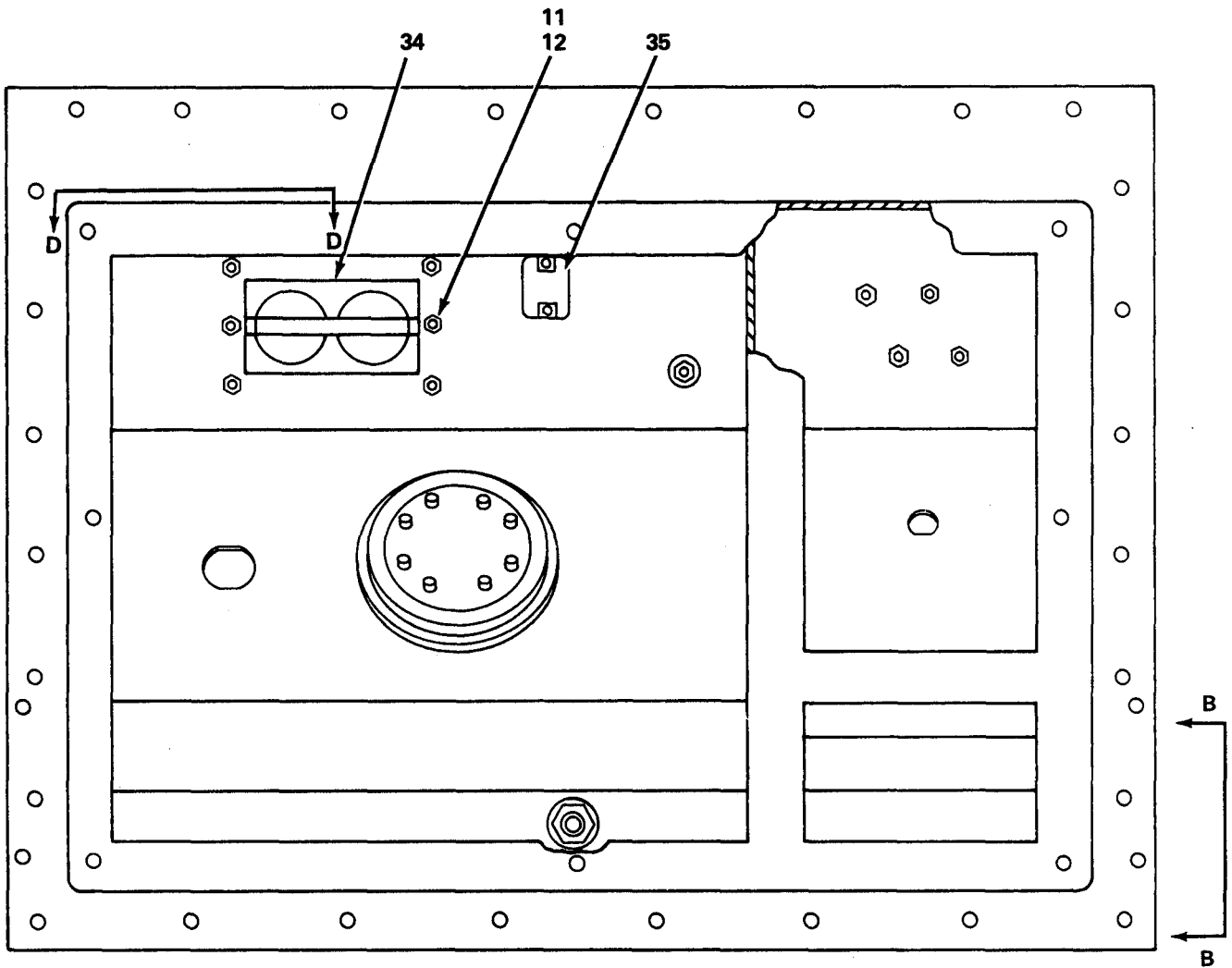


Figure C-9. Power Entrance Box Assembly (Sheet 1 of 4)



INSIDE COVER REMOVED

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

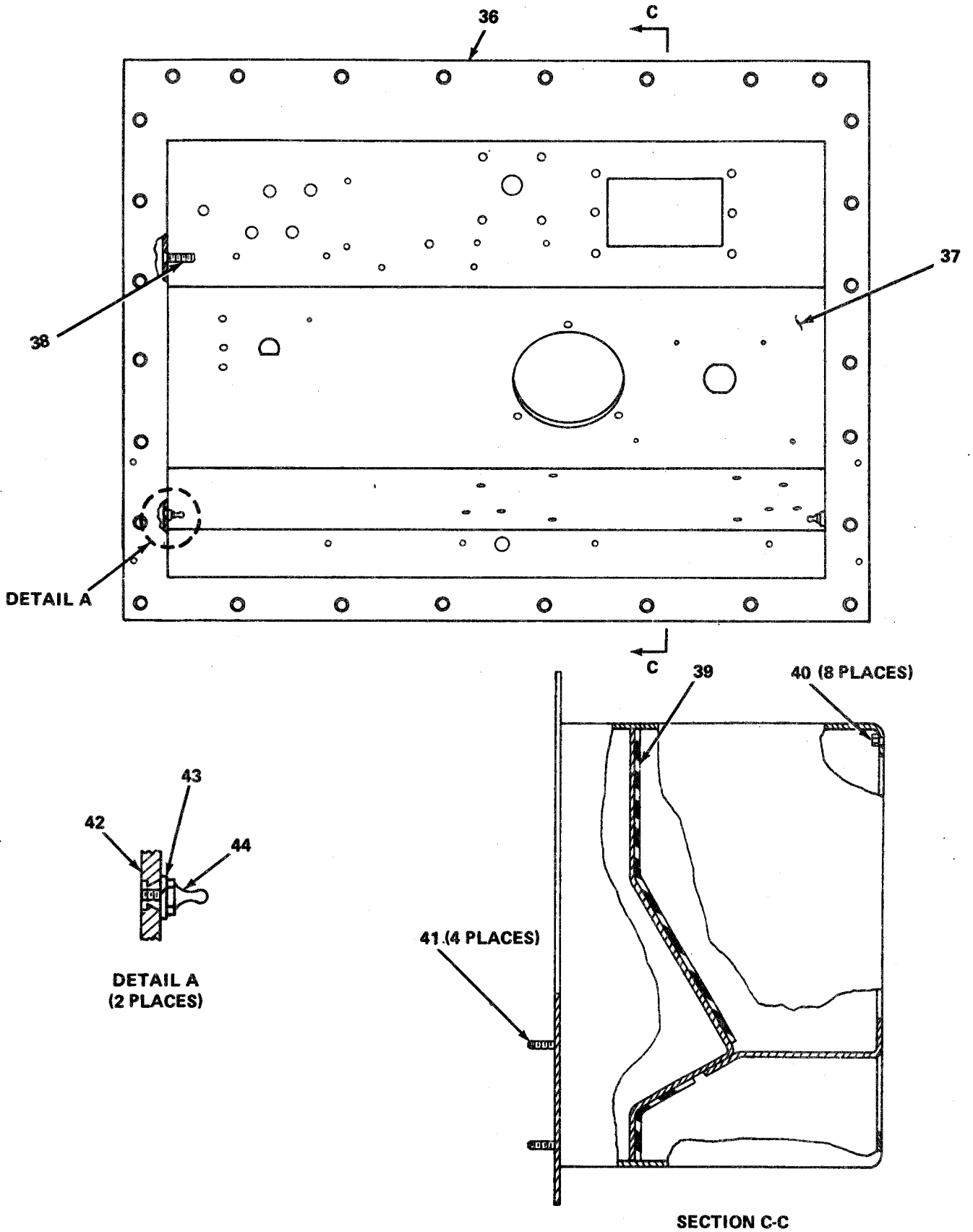


Figure C-9. Power Entrance Box Assembly (Sheet 3 of 4)

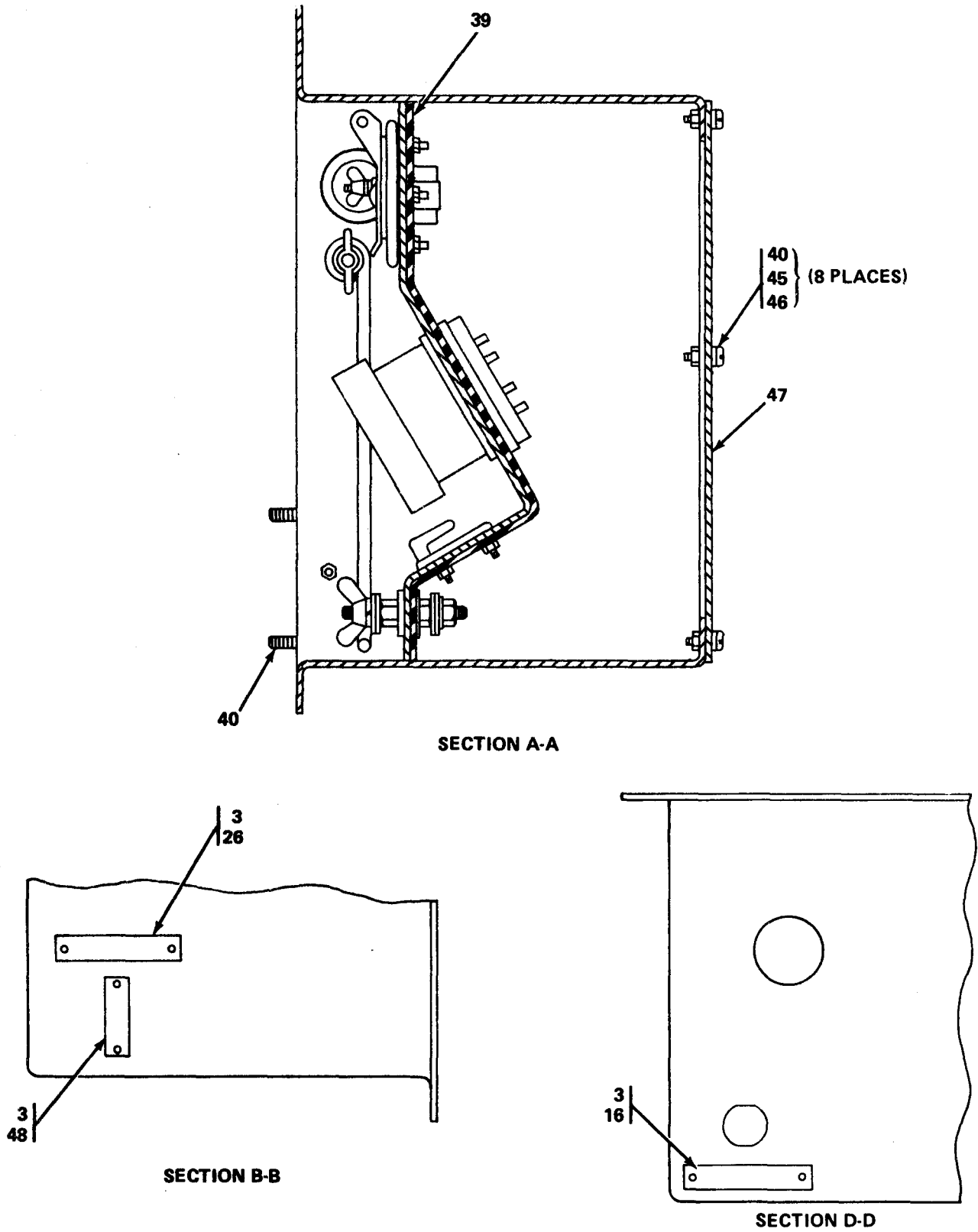


Figure C-9. Power Entrance Box Assembly (Sheet 4 of 4)

(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

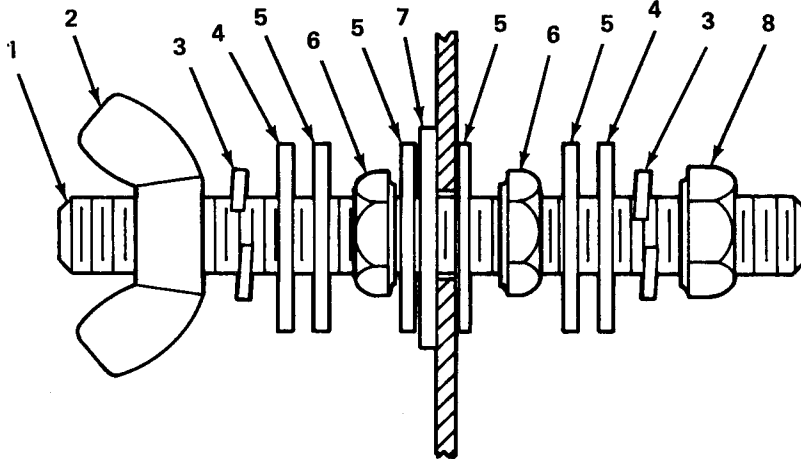


Figure C-10. Stud Assembly 10-32UNF-2A

(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

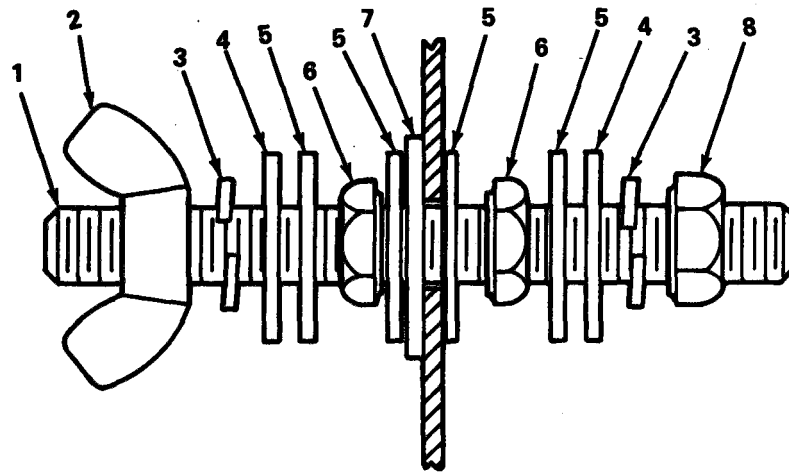
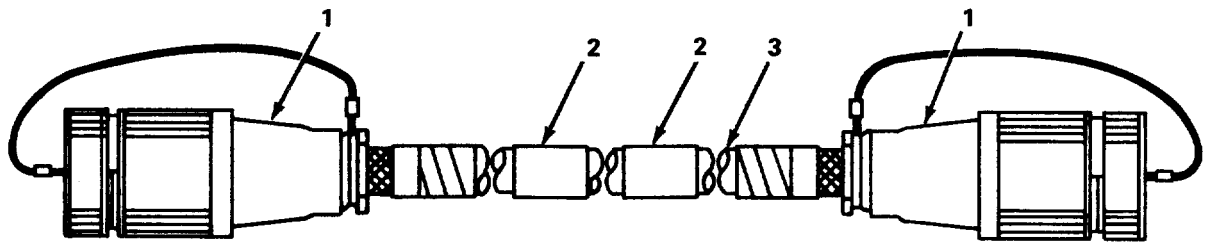


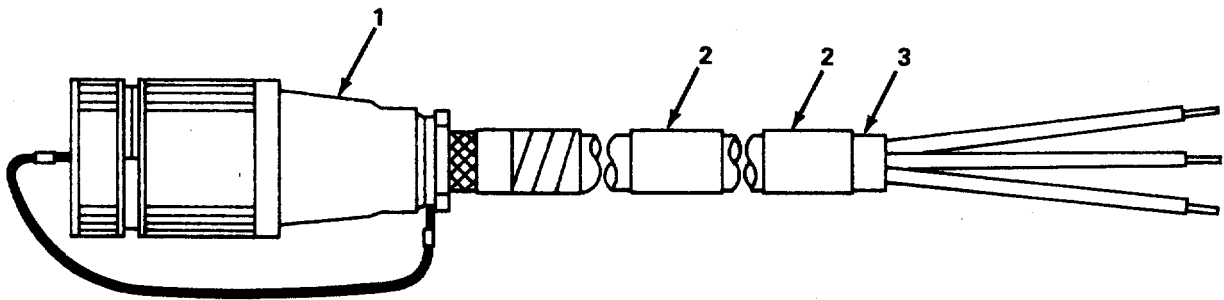
Figure C-11. Stud Assembly 3/8-16UNC-2A

(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

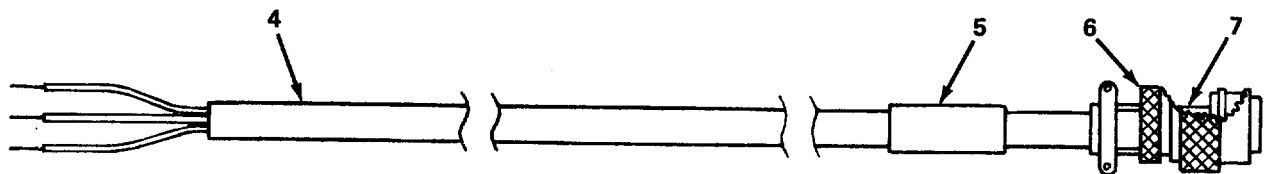
THIS PAGE INTENTIONALLY LEFT BLANK



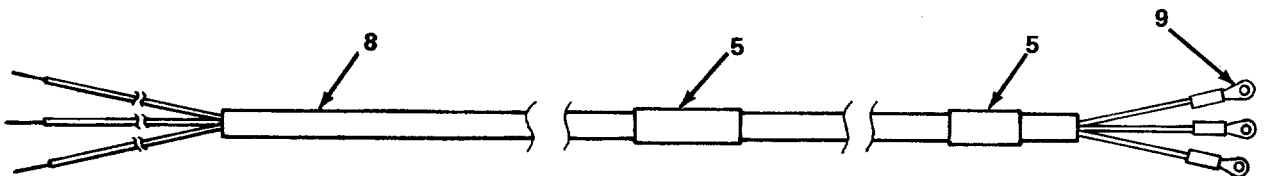
A
POWER CABLE ASSEMBLY CX-7453A/U (100 FEET)



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

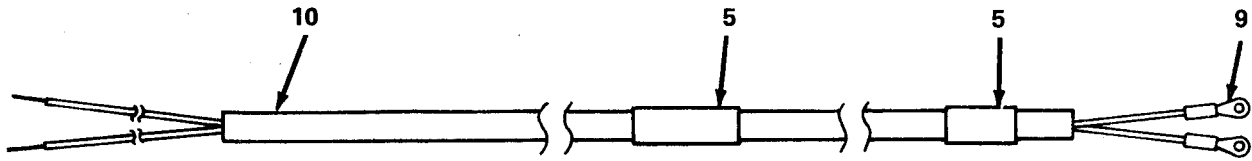


C
POWER CABLE ASSEMBLY - AIR CONDITIONER

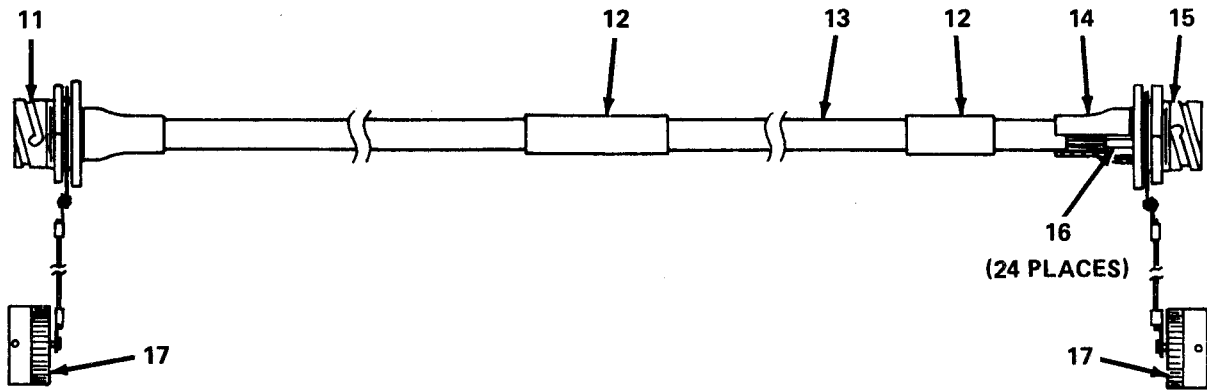


D
POWER SUPPLY CABLE ASSEMBLY

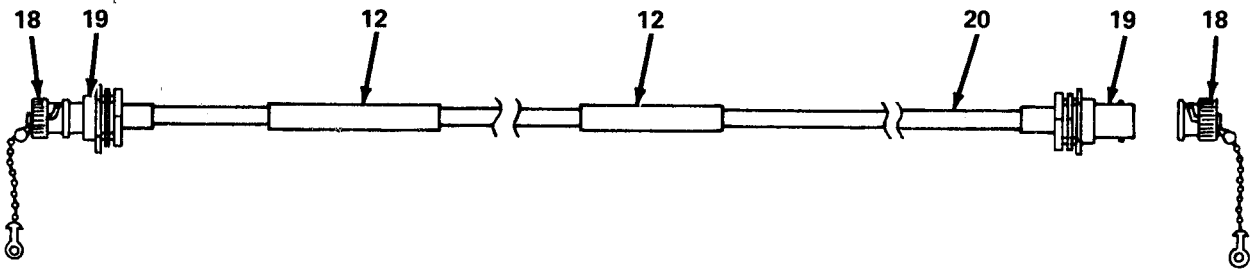
Figure C-12. Cable and Wiring Assemblies (Sheet 1 of 4)



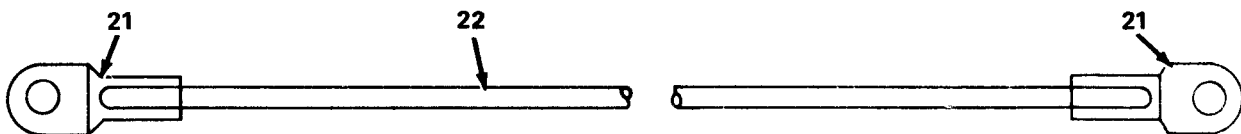
E
POWER SUPPLY CABLE ASSEMBLY



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

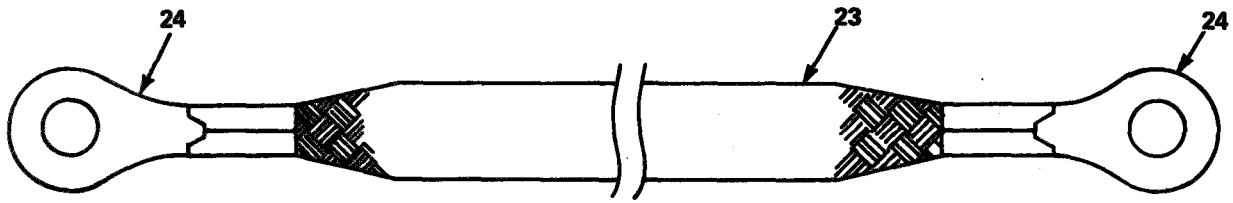


G
RF COAXIAL CABLE ASSEMBLY

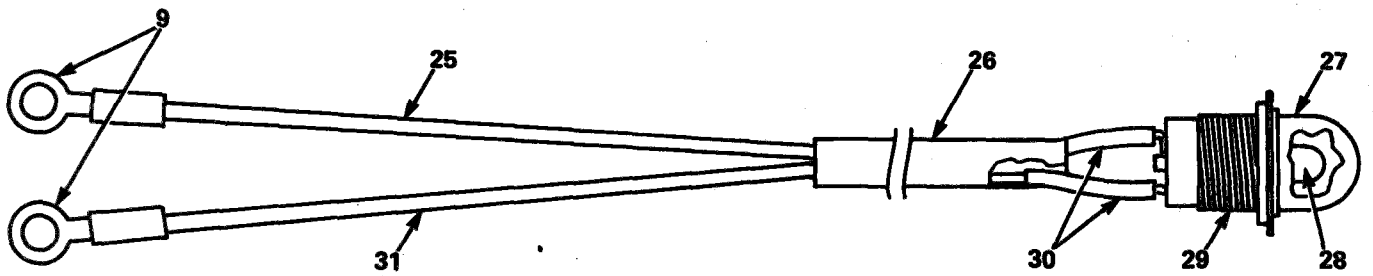


H
WIRE ASSEMBLY

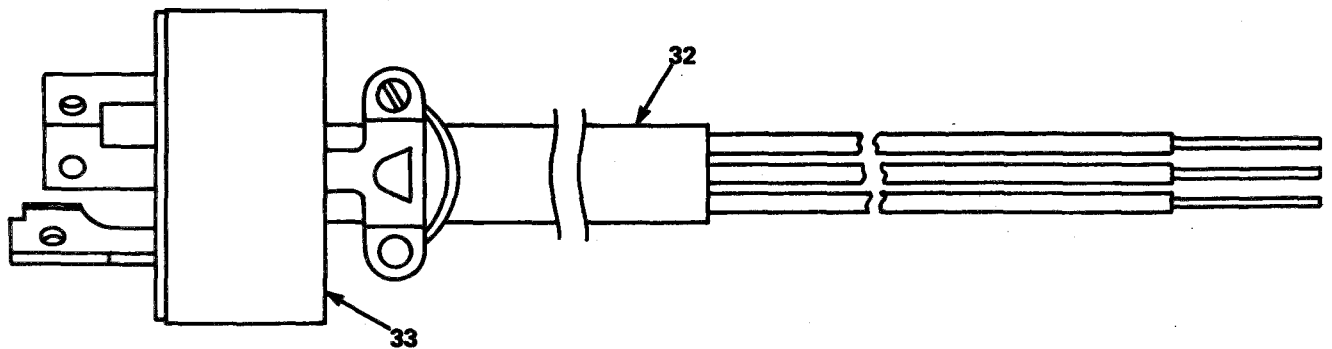
Figure C-12. Cable and Wiring Assemblies (Sheet 2 of 4)



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)

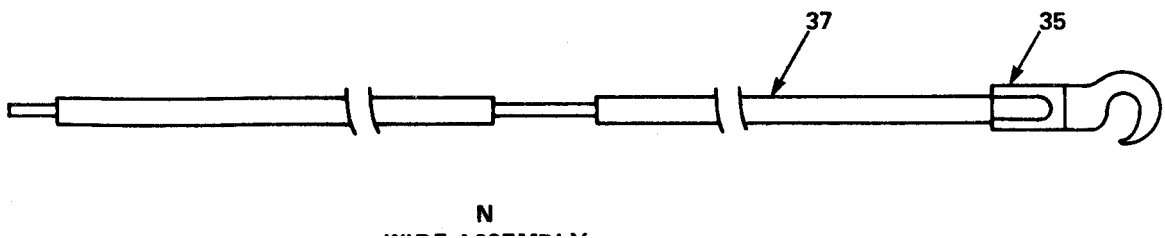
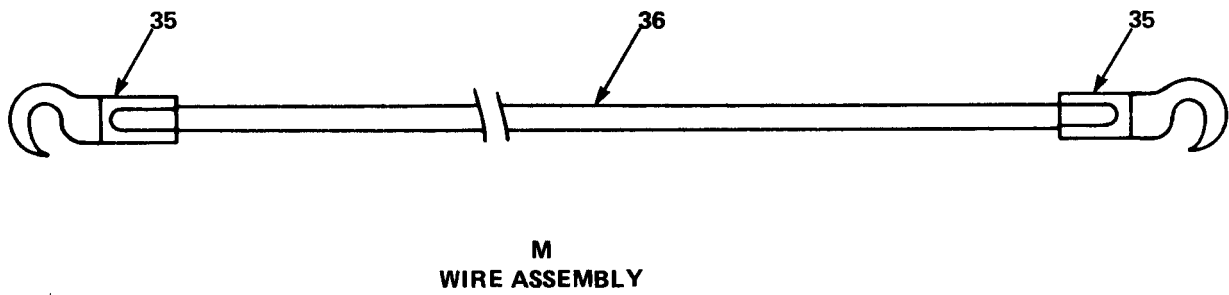
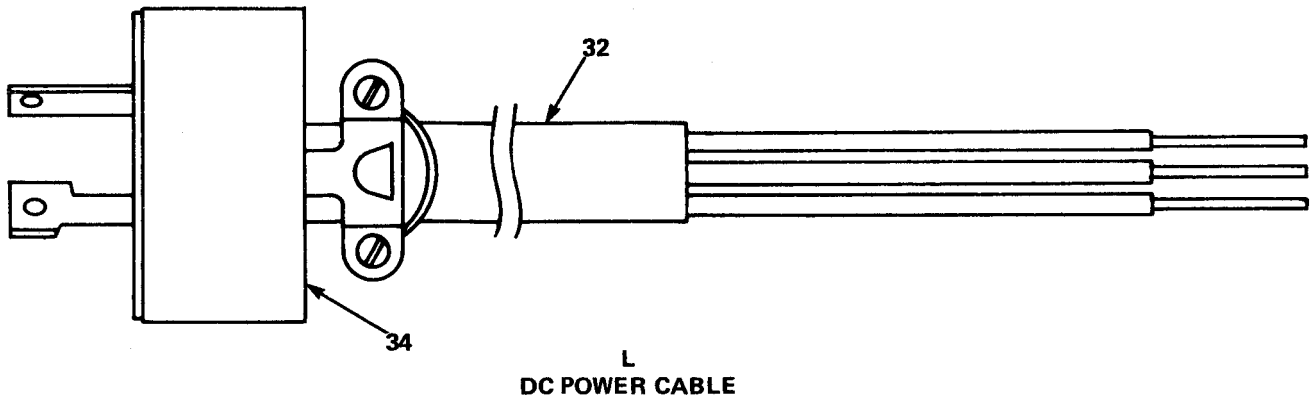


Figure C-12. Cable and Wiring Assemblies (Sheet 4 of 4)

(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

THIS PAGE INTENTIONALLY LEFT BLANK

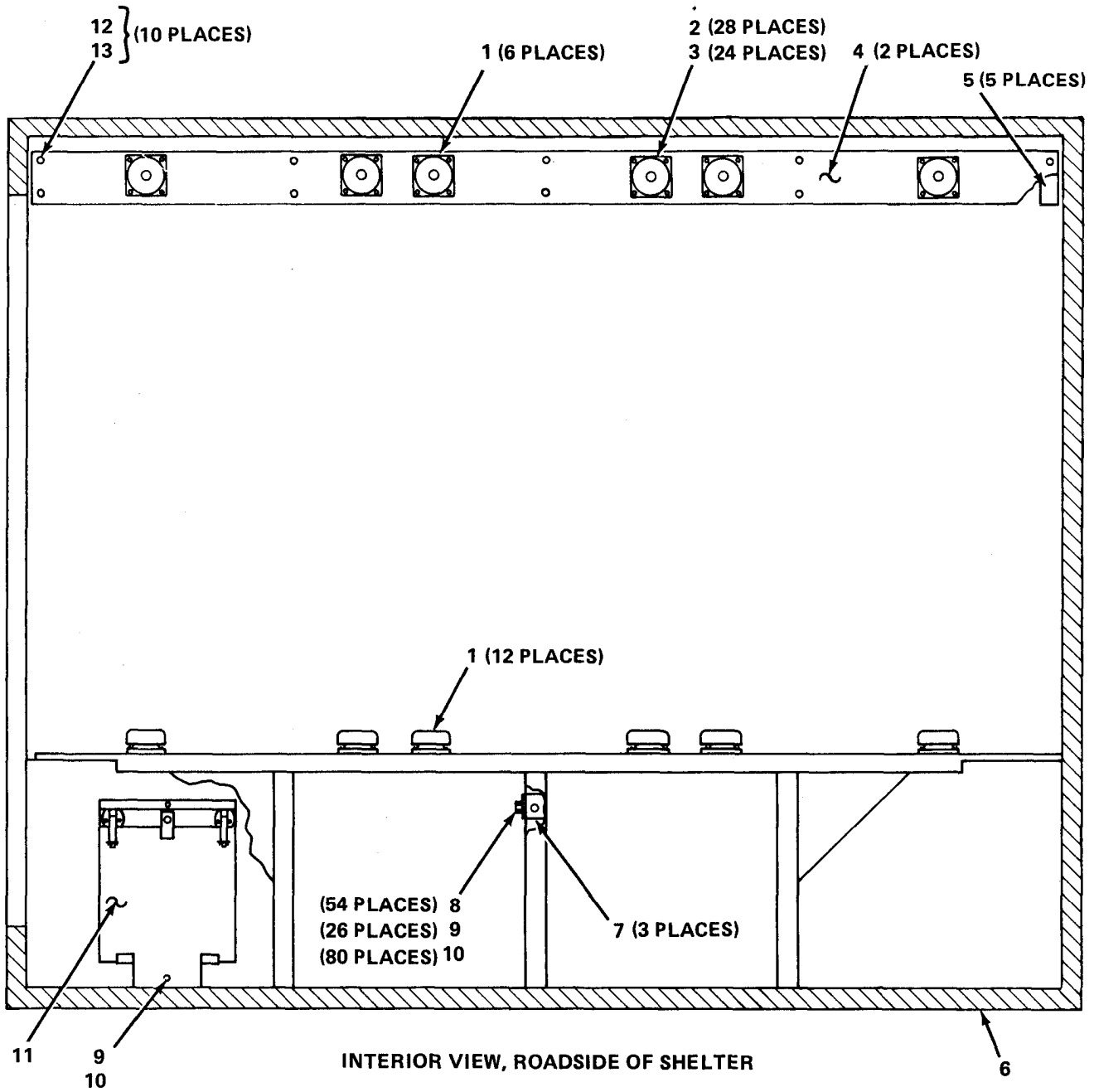
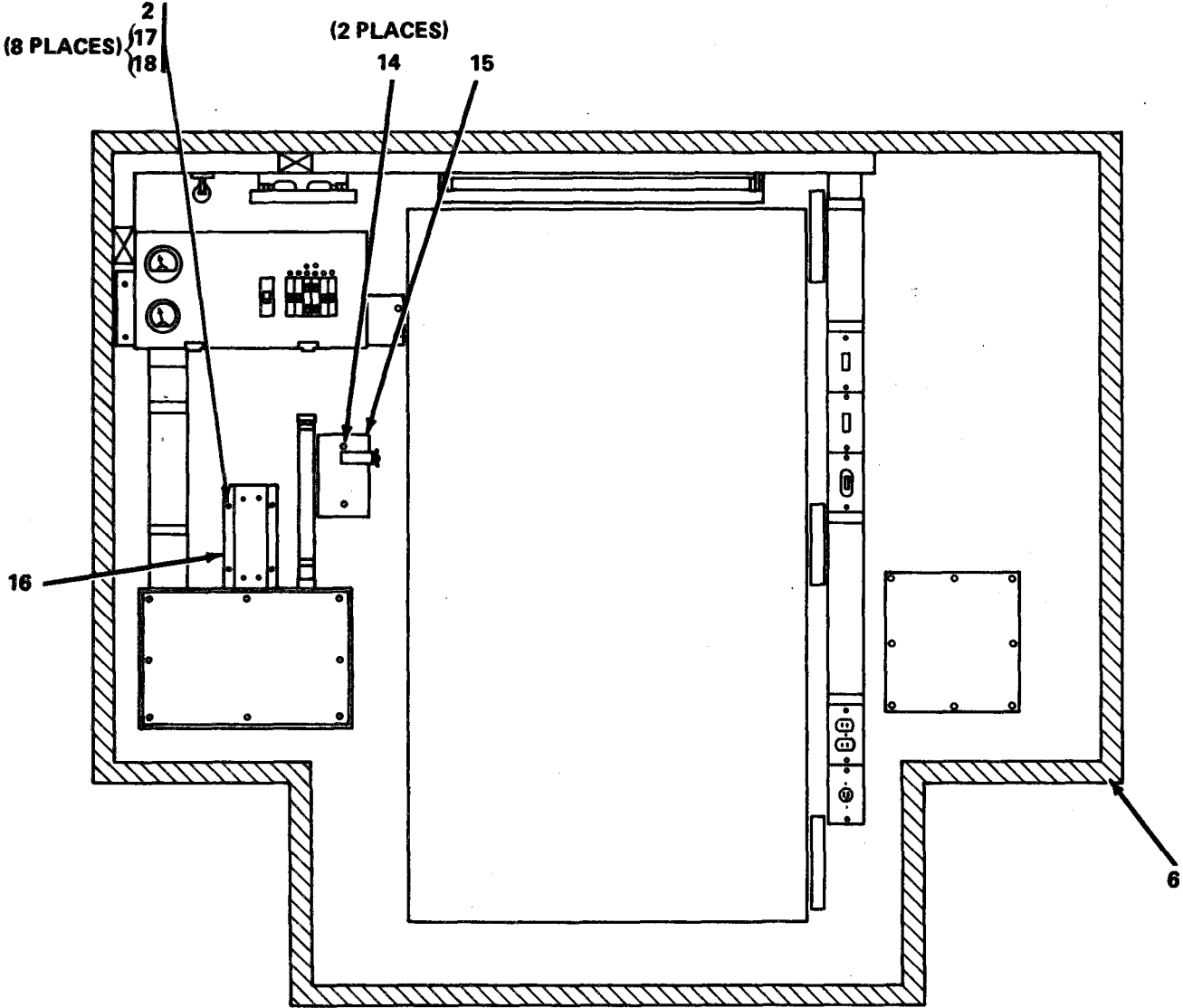
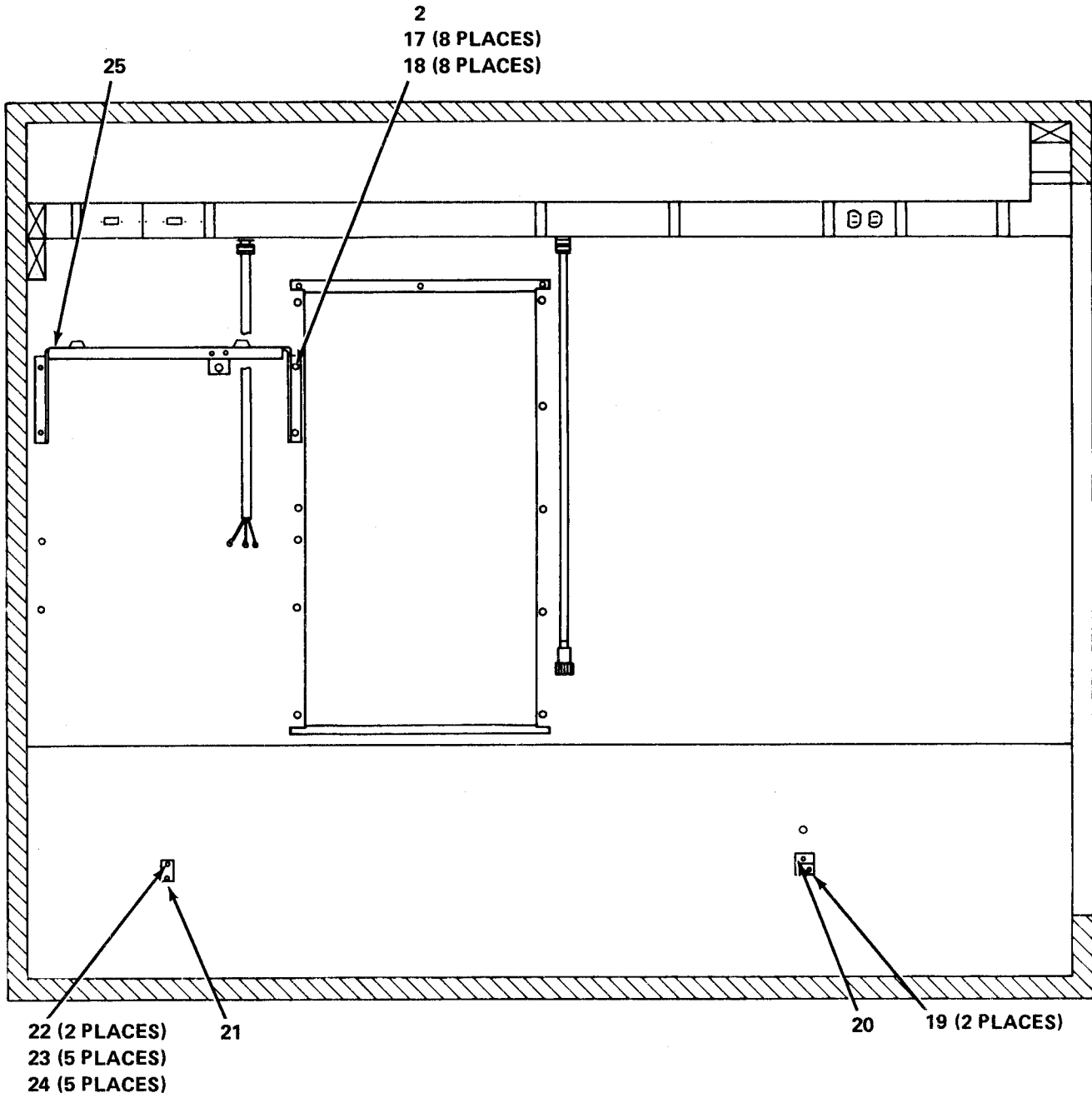


Figure C-13. Electrical Equipment Shelter Bracket Installation (Sheet 1 of 5)



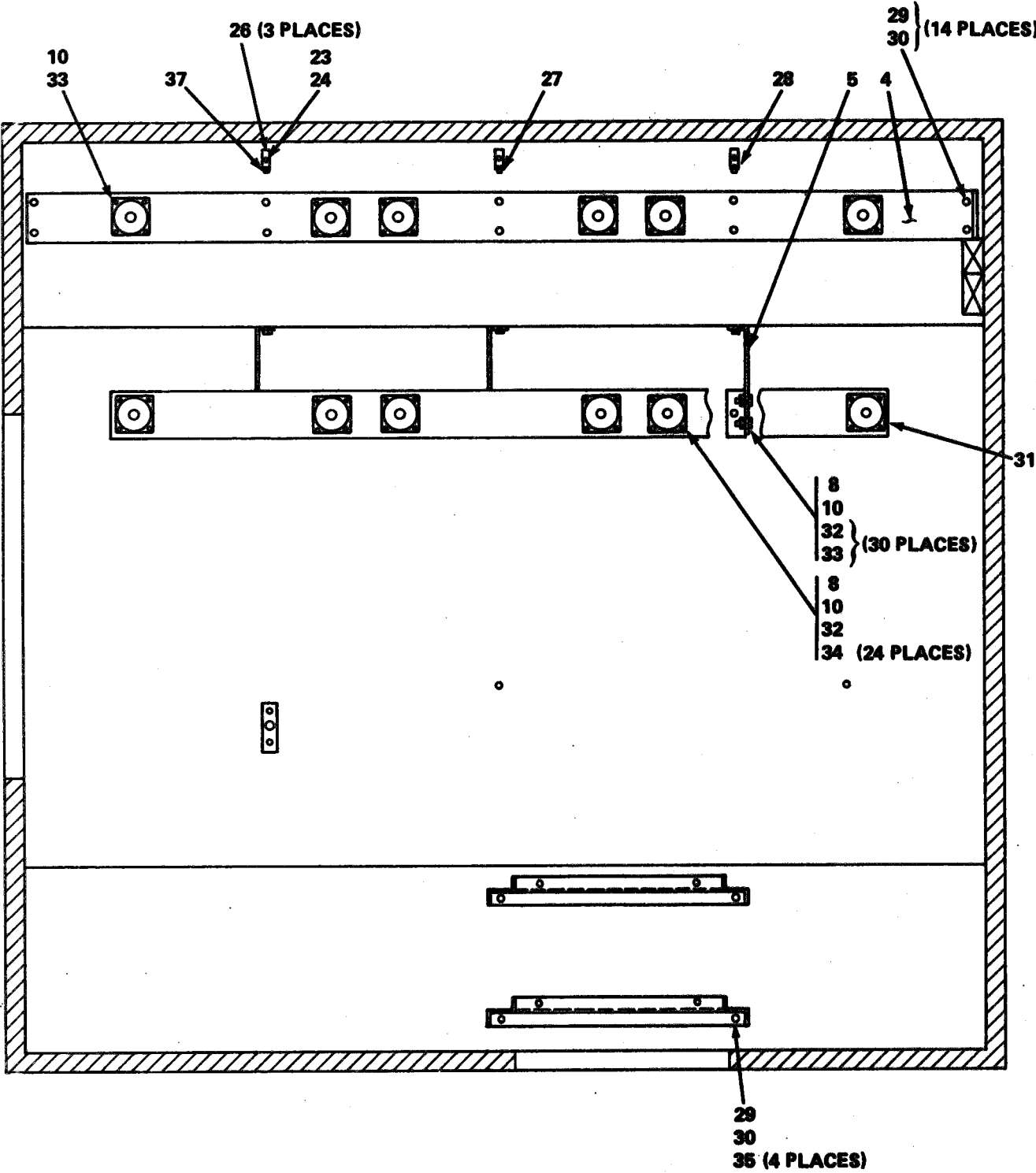
INTERIOR VIEW, REAR OF SHELTER

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



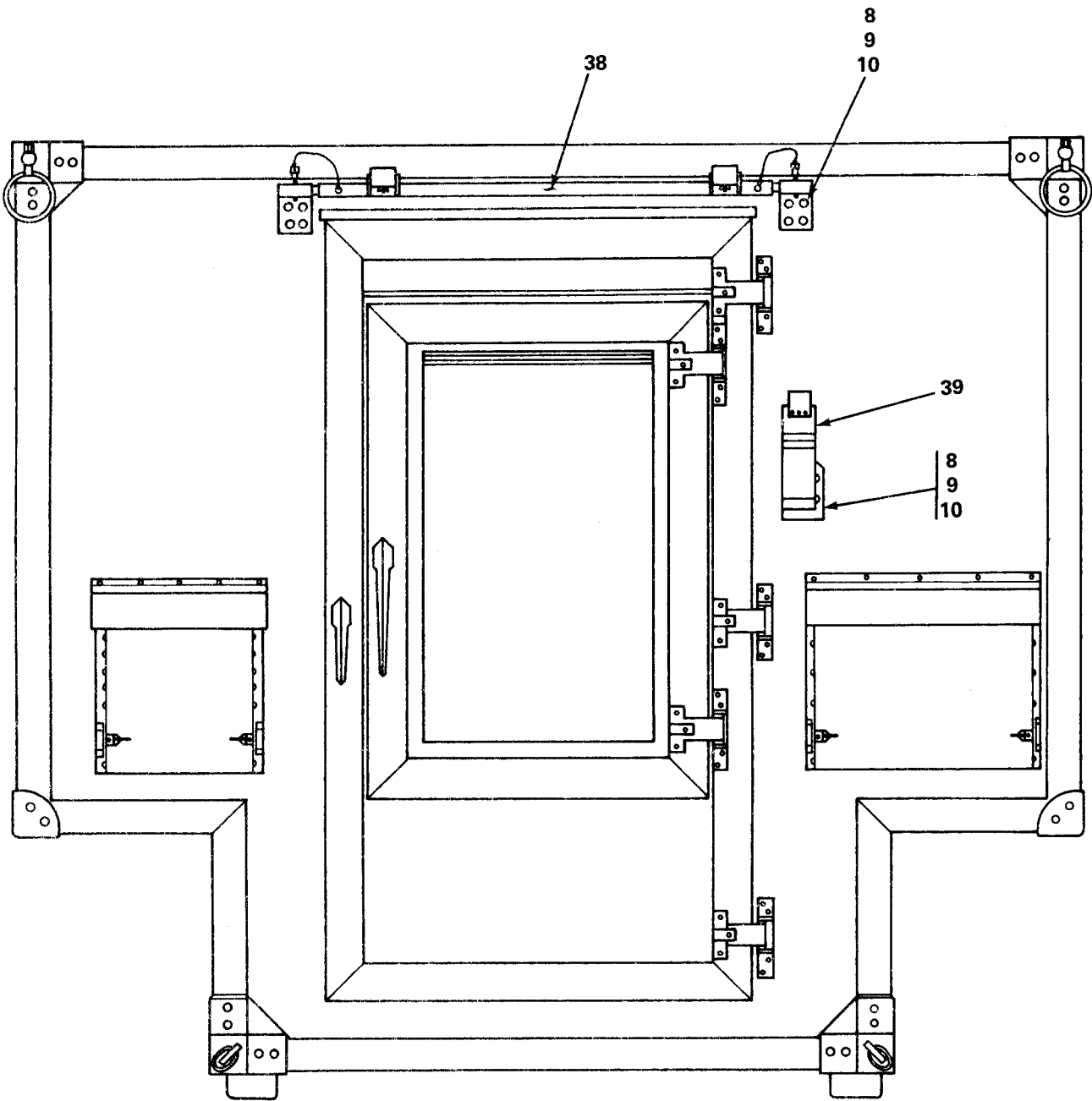
INTERIOR VIEW, CURBSIDE OF SHELTER

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)



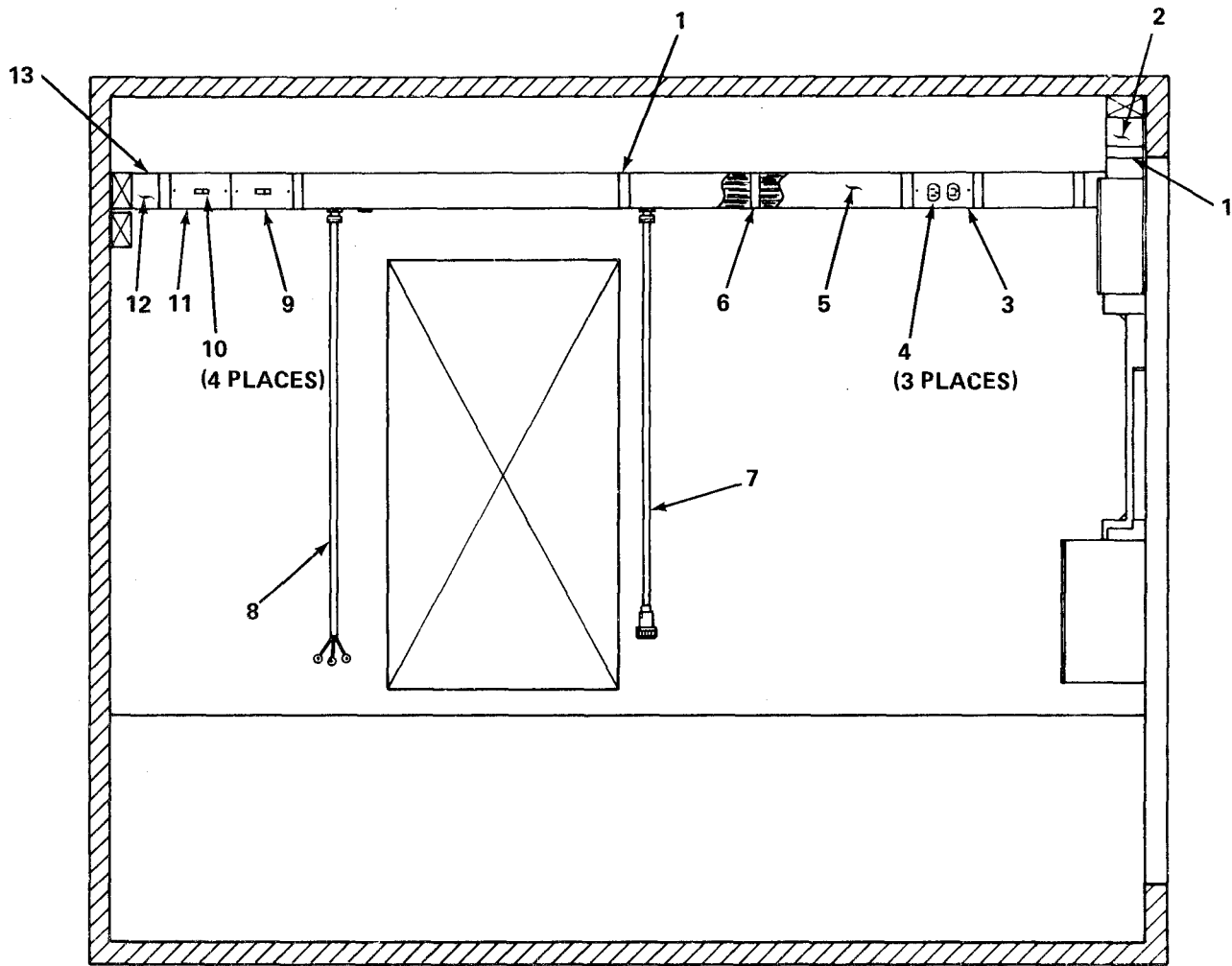
EXTERIOR VIEW, REAR OF SHELTER

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

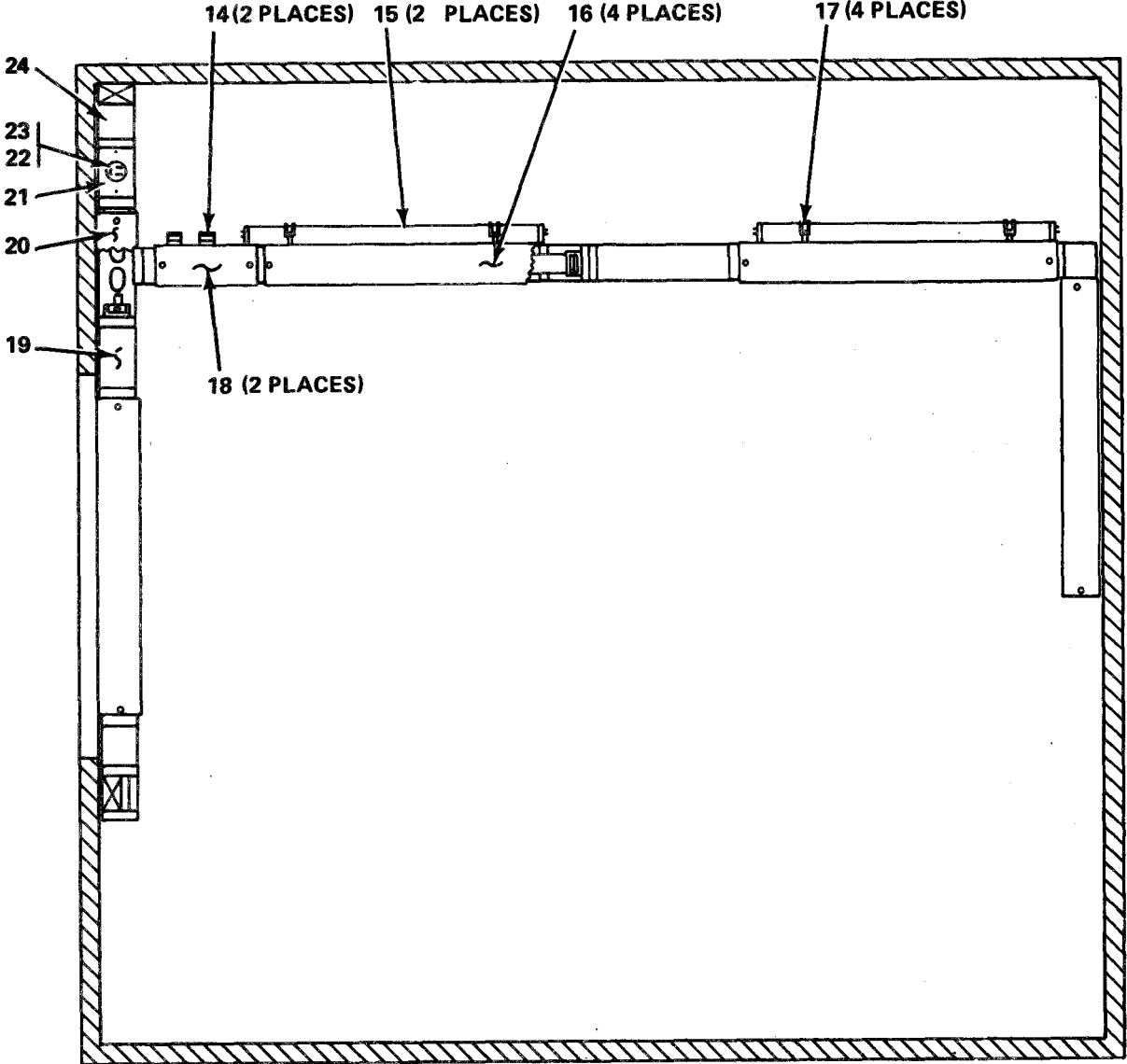
(1) ILLUSTRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M QTY INC IN UNIT
C-13	20	XCOOO		0188-2-3116	15942	GROUND ROD BRACKET ASSEMBLY (REFER TO FIGURE (C-18)	EA 1
C-13	21	XCOZZ		0188-2-2076	15942	GROUND ROD BRACKET 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

THIS PAGE INTENTIONALLY LEFT BLANK



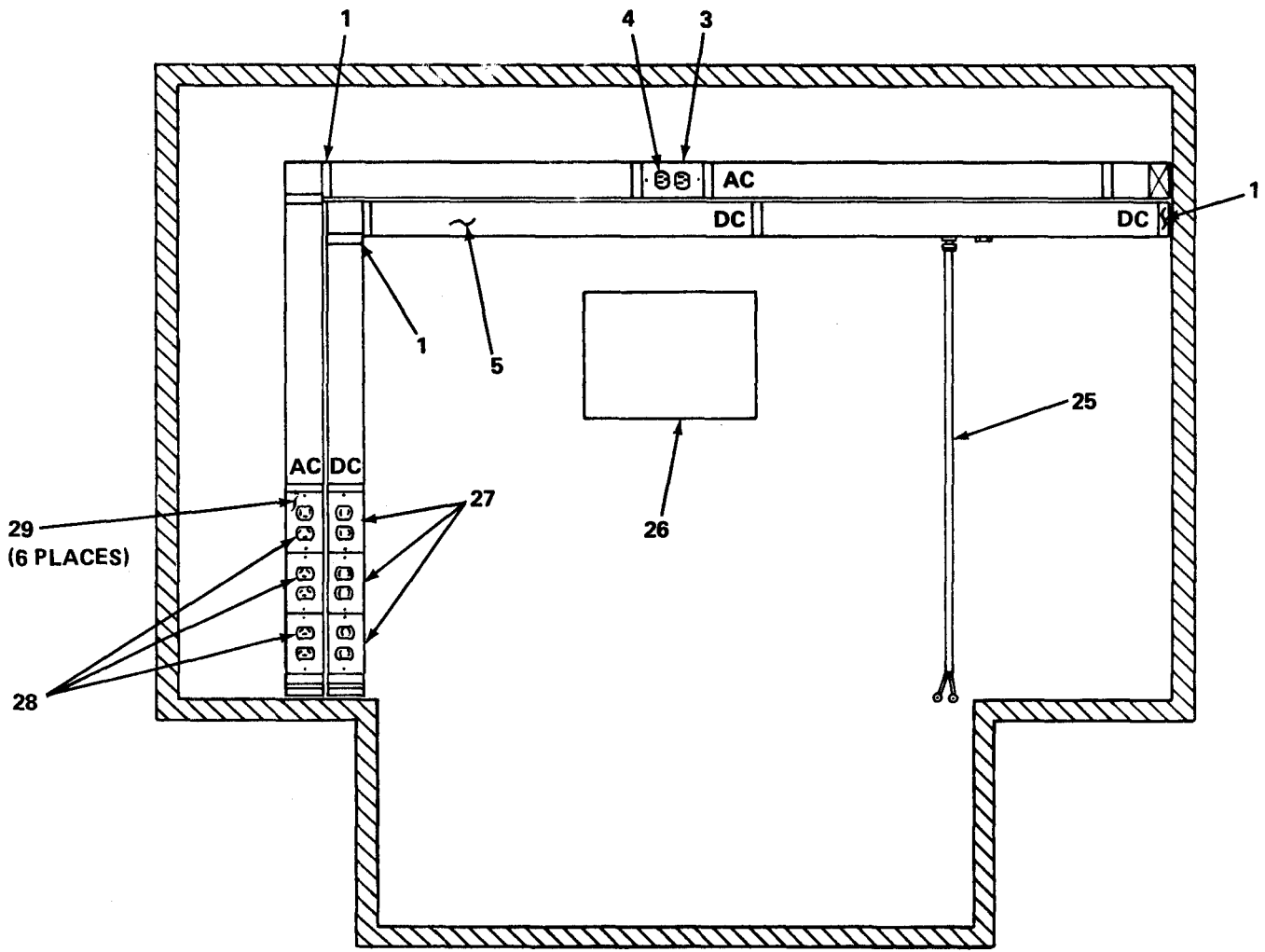
INTERIOR VIEW, CURBSIDE OF SHELTER

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



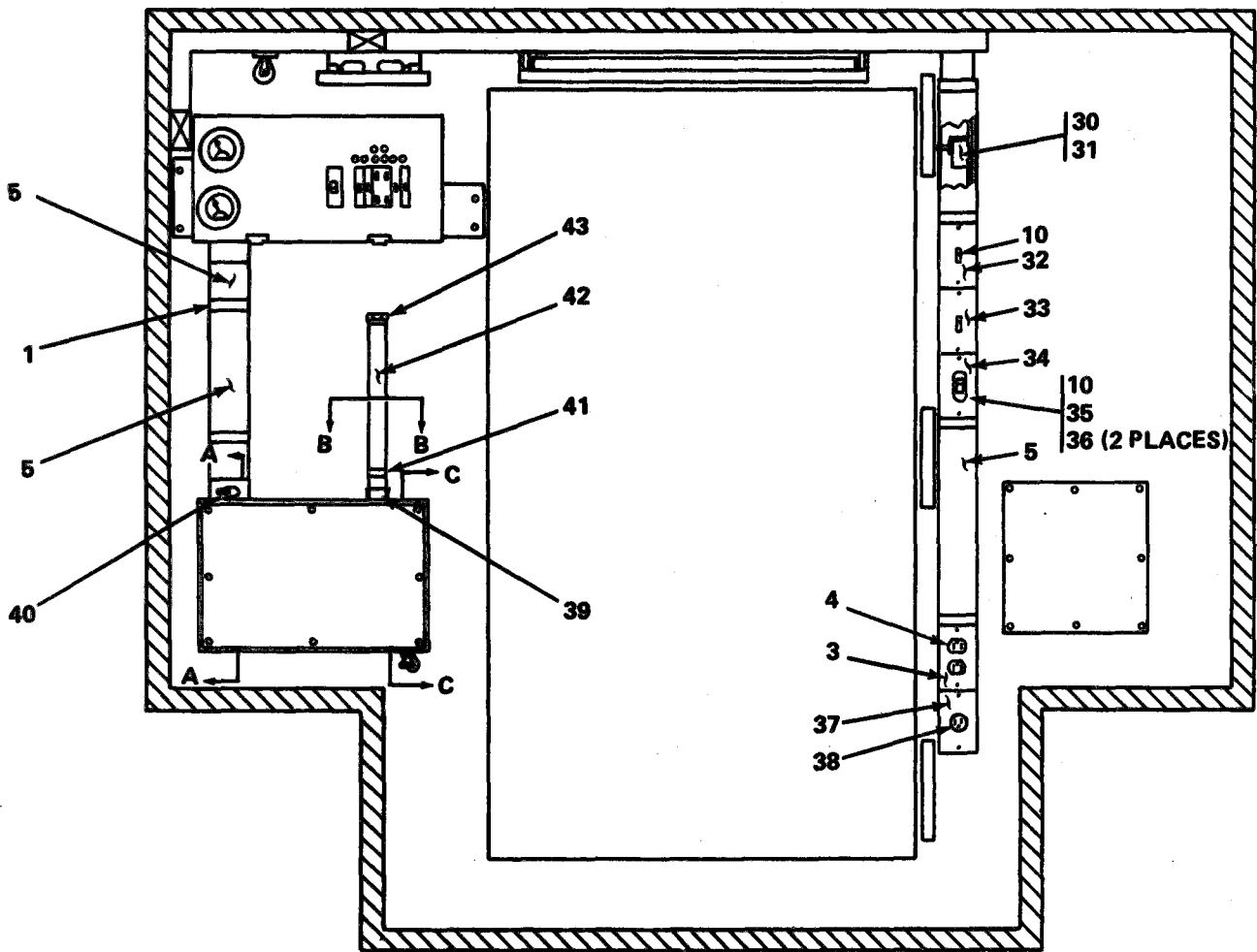
INTERIOR VIEW, CEILING OF SHELTER

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



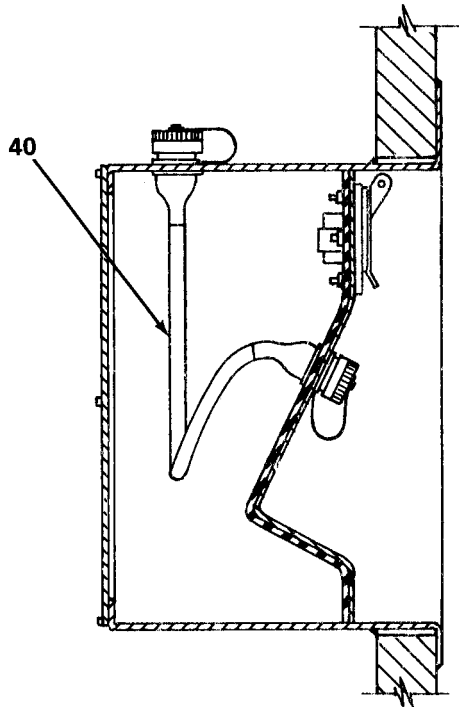
INTERIOR VIEW, FRONT OF SHELTER

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

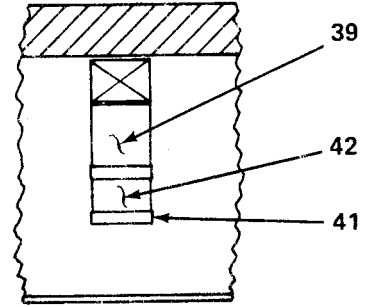


INTERIOR VIEW, REAR OF SHELTER

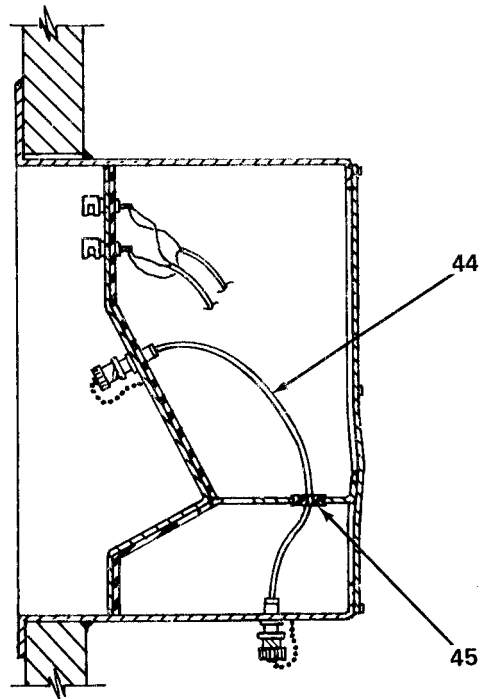
Figure C-14. Electrical Utilities Installation (Sheet 4 of 5)



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	U/M QTY INC IN UNIT
						USABLE ON CODE	
						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

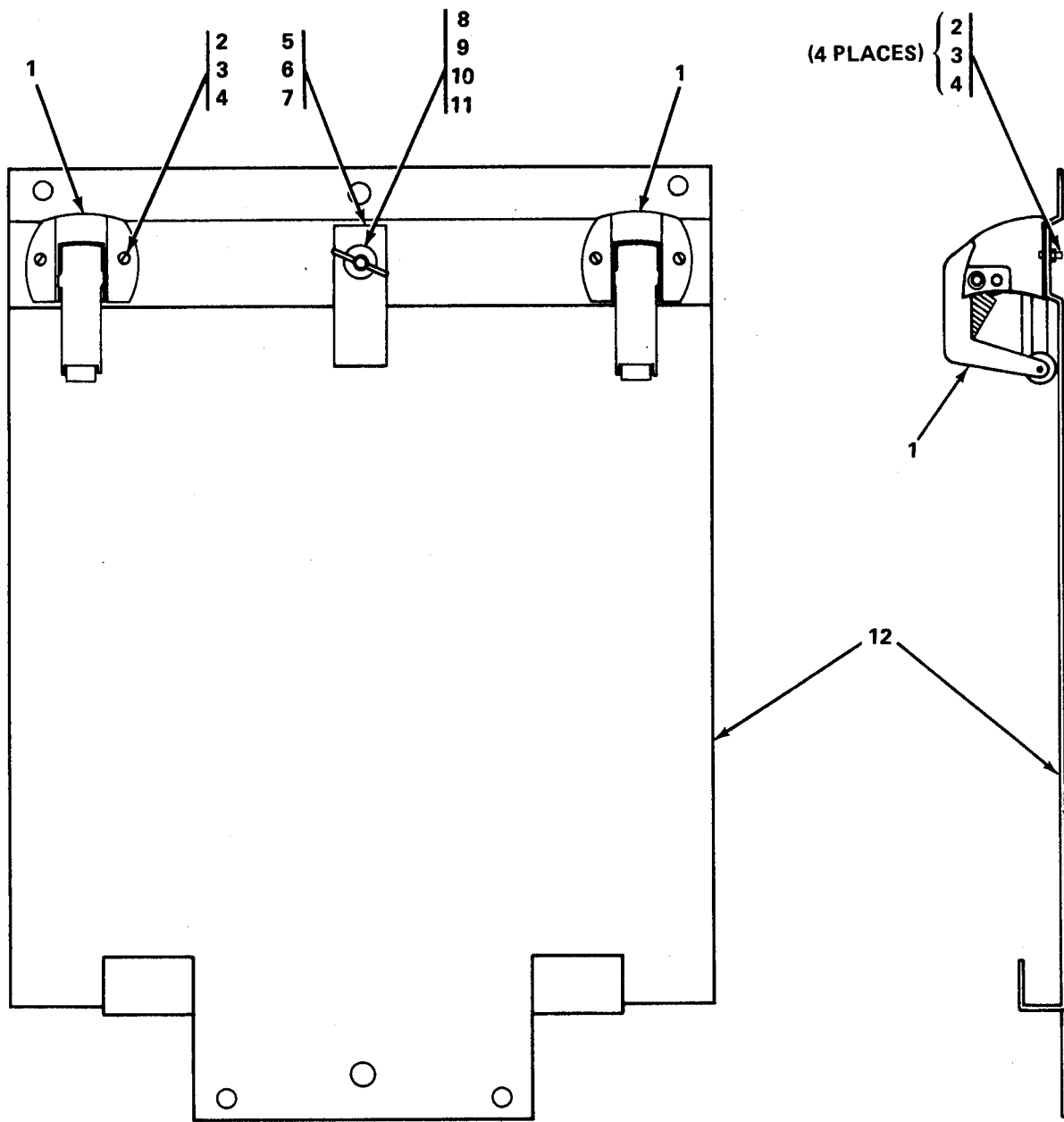


Figure C-15. Wastebasket Holder Assembly

(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

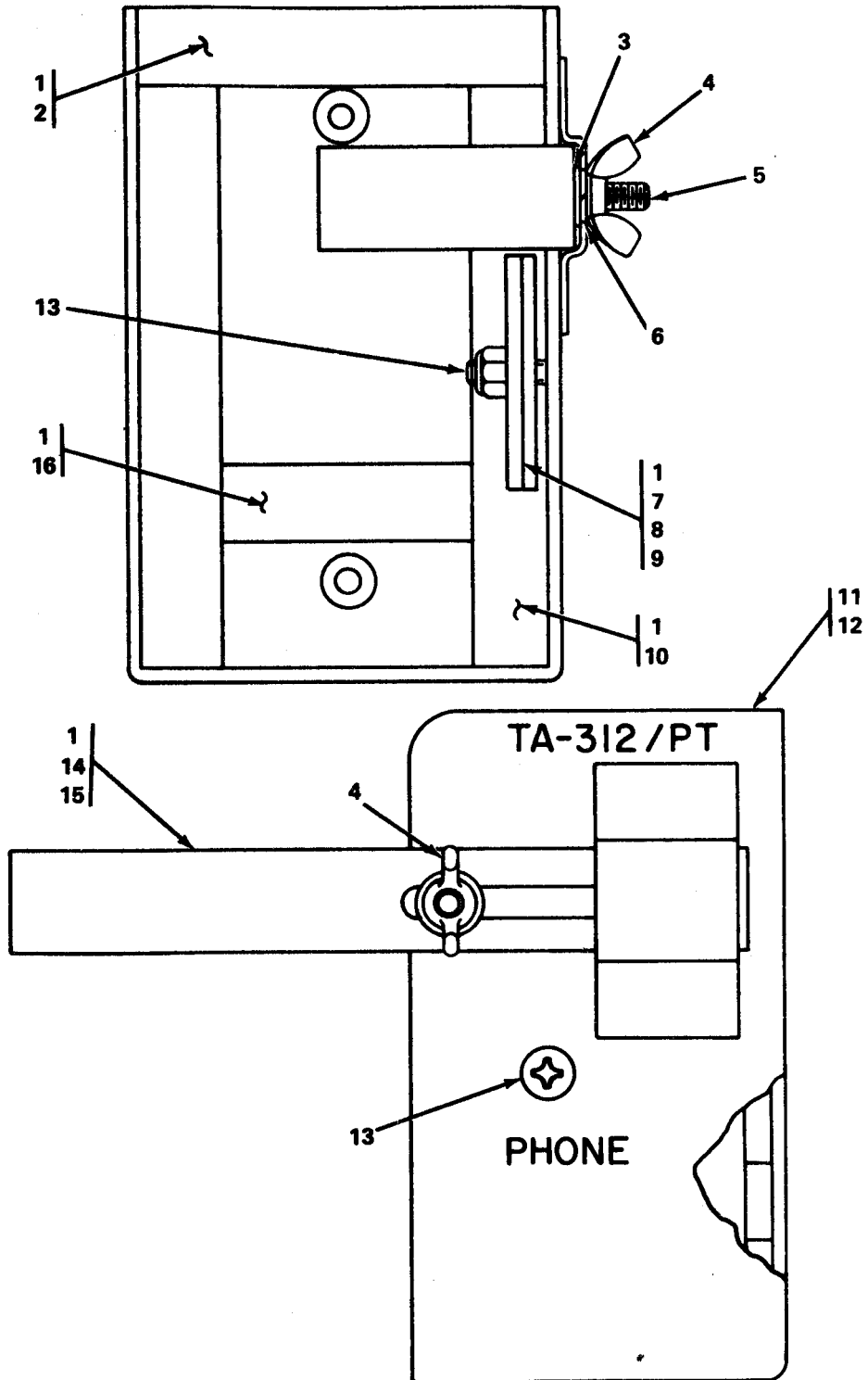


Figure C-16. Telephone Bracket Assembly

(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

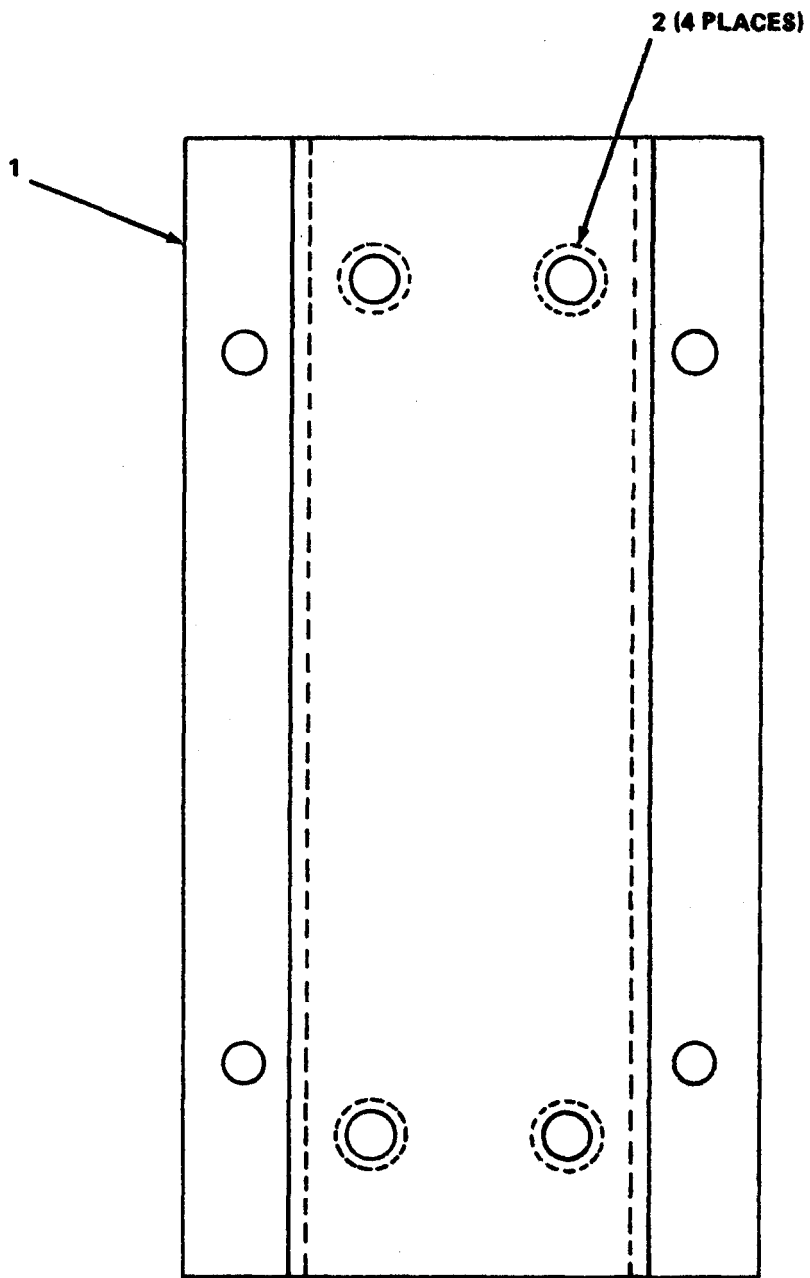


Figure C-17. Fire Extinguisher Mounting Bracket Assembly

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION					TM32-5410-001-24&P		
(A)	(B)	SMR	NATIONAL	PART	DESCRIPTION	U/M	QTY
FIG	ITEM	CODE	STOCK	NUMBER	FSCM		INC
NO.	NO.		NUMBER				IN
					USABLE ON CODE		UNIT
					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

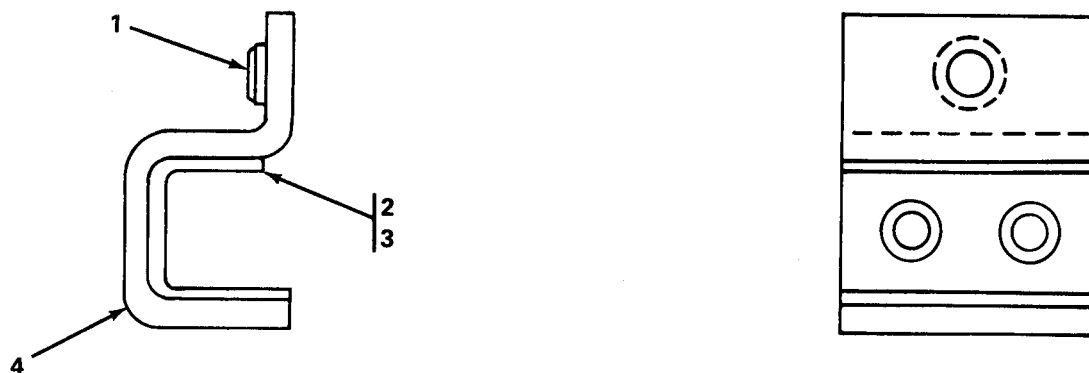


Figure C-18. Ground Rod Bracket Assembly

(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

THIS PAGE INTENTIONALLY LEFT BLANK

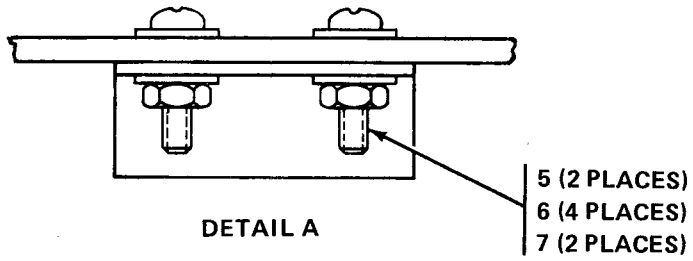
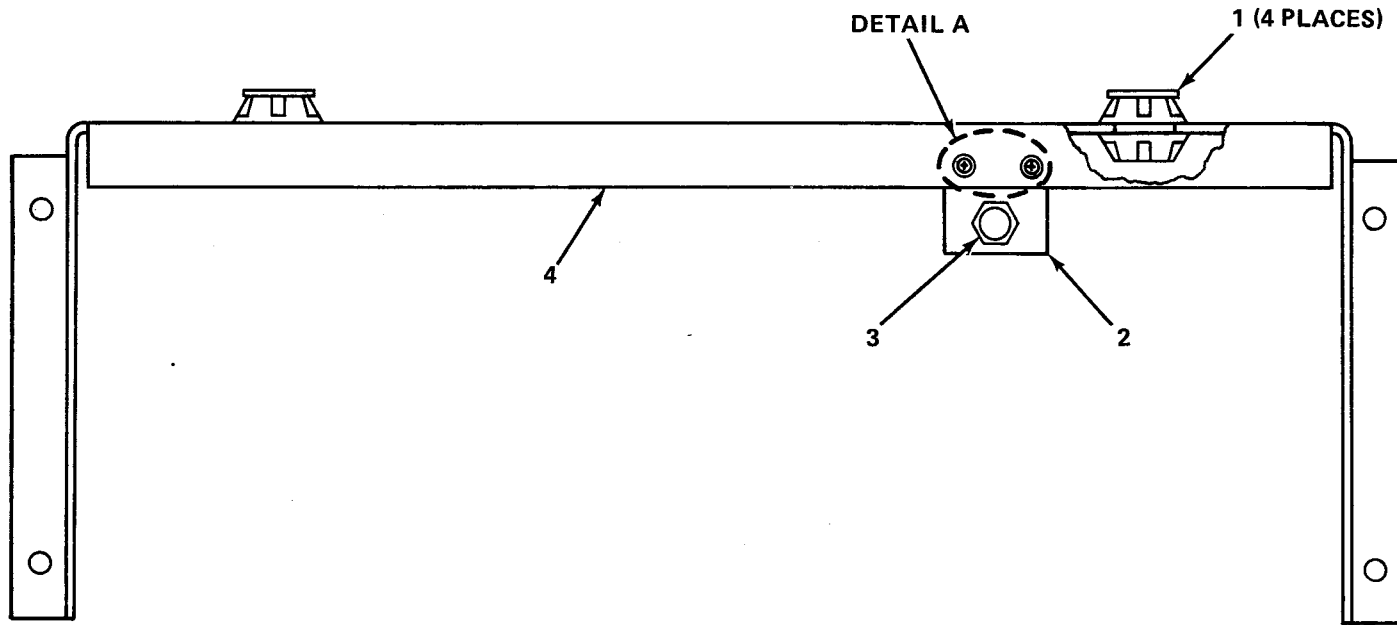


Figure C-19. PXS-EE-28VF Power Supply Shelf Assembly

(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

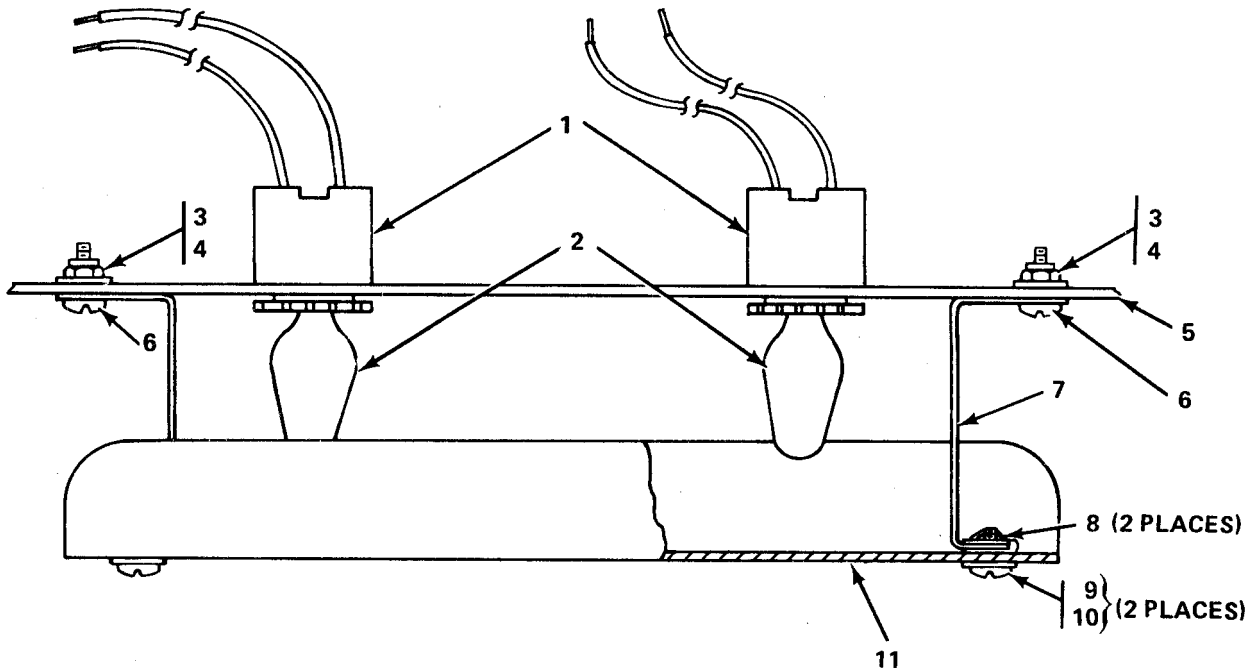


Figure C-20. Blackout Light Assembly

(1) ILLUSTRATION		(2) 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.							
C-20	1	PAOZZ	6250-00-762-5134	10018	75582	GROUP: 0707 BLACKOUT LIGHT ASSEMBLY LAMPHOLDER	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

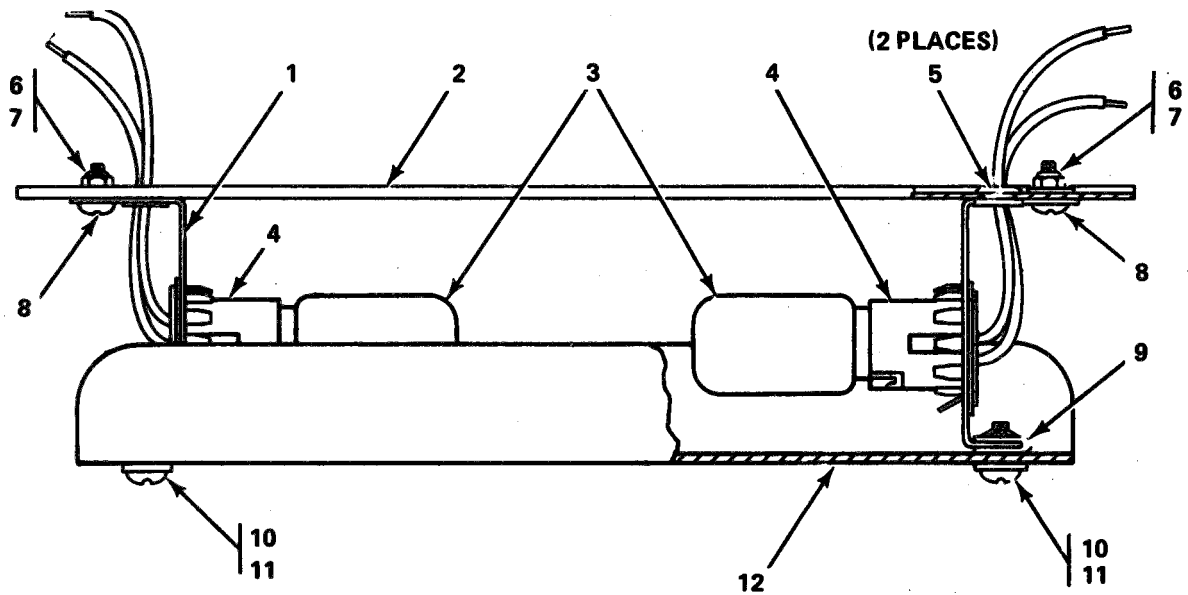


Figure C-21. Incandescent Lamp Assembly

(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

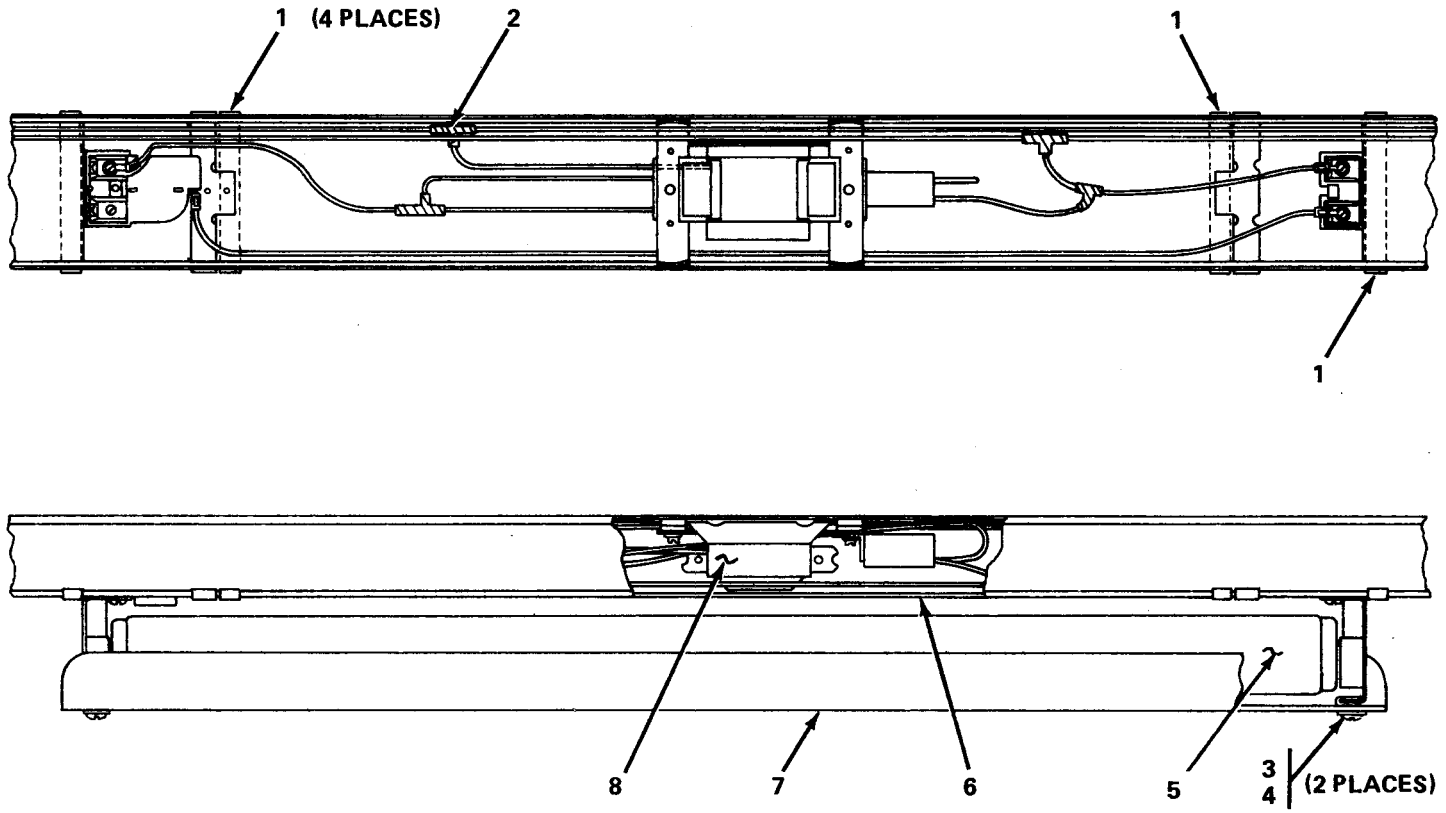


Figure C-22. Fluorescent Lamp Assembly

(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

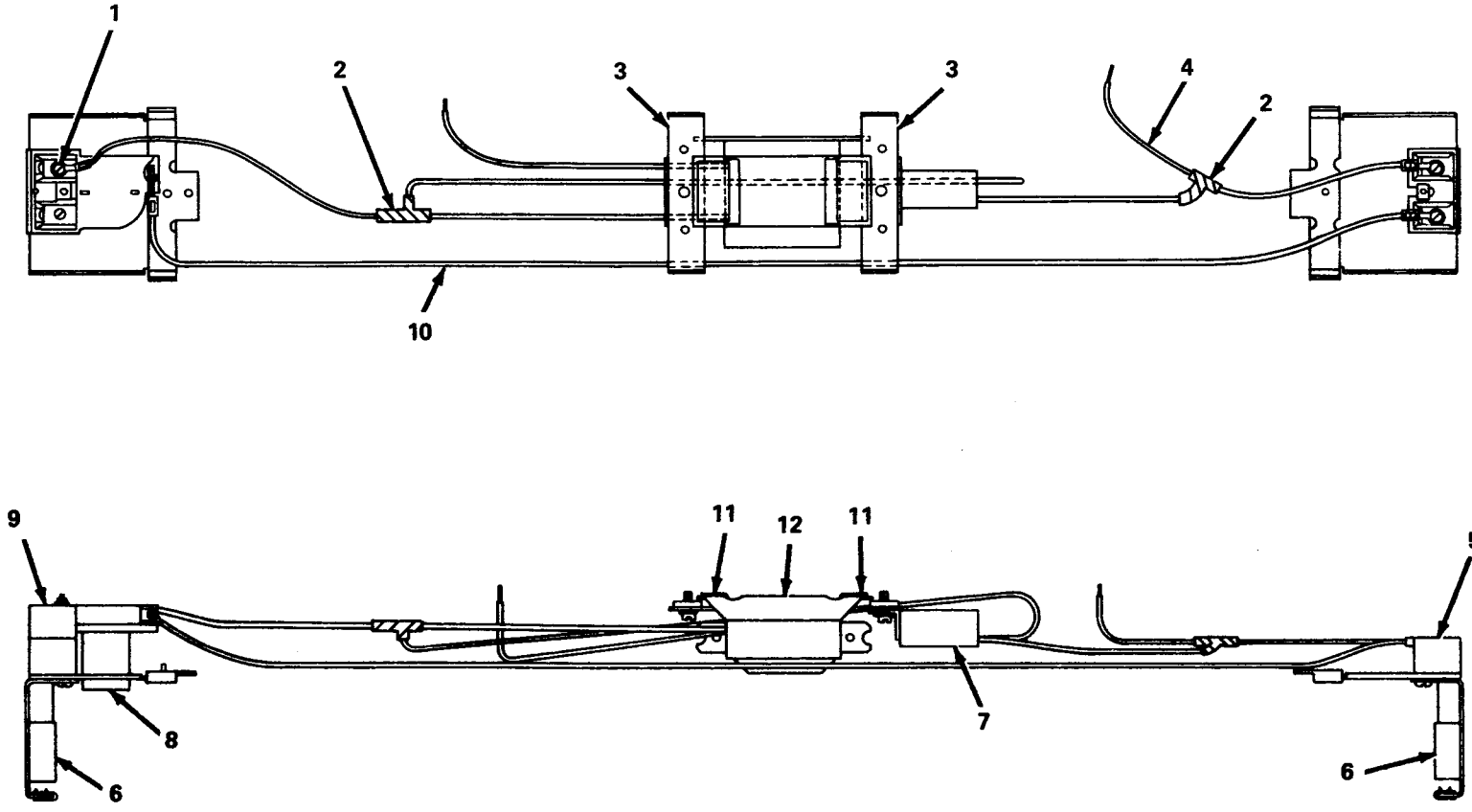


Figure C-23. Fluorescent Lamp Subassembly

(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

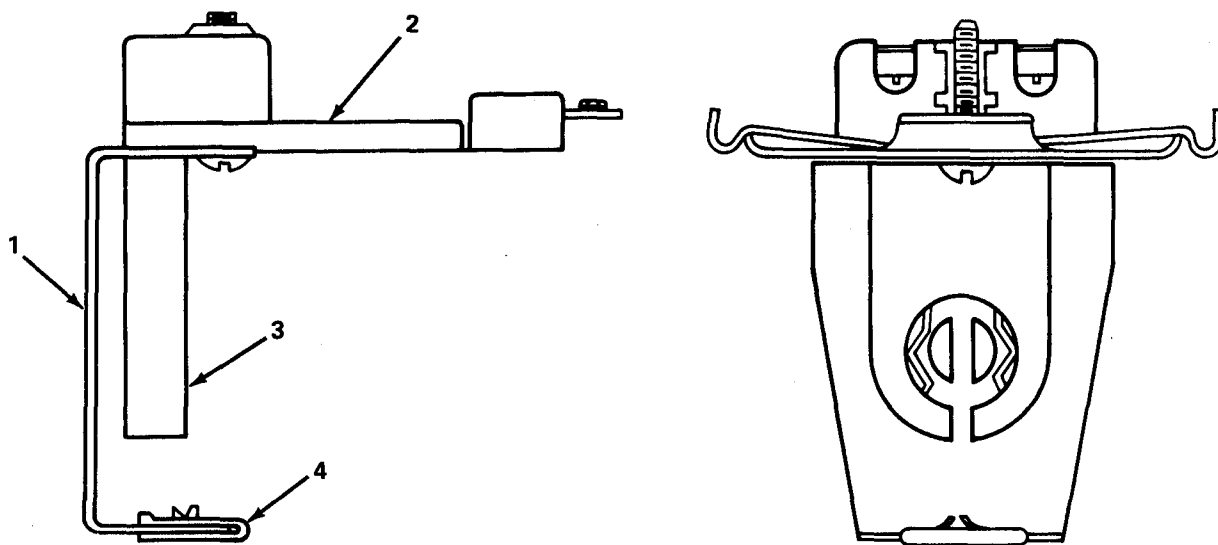


Figure C-24. Lamp Holder Assembly

(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

THIS PAGE INTENTIONALLY LEFT BLANK

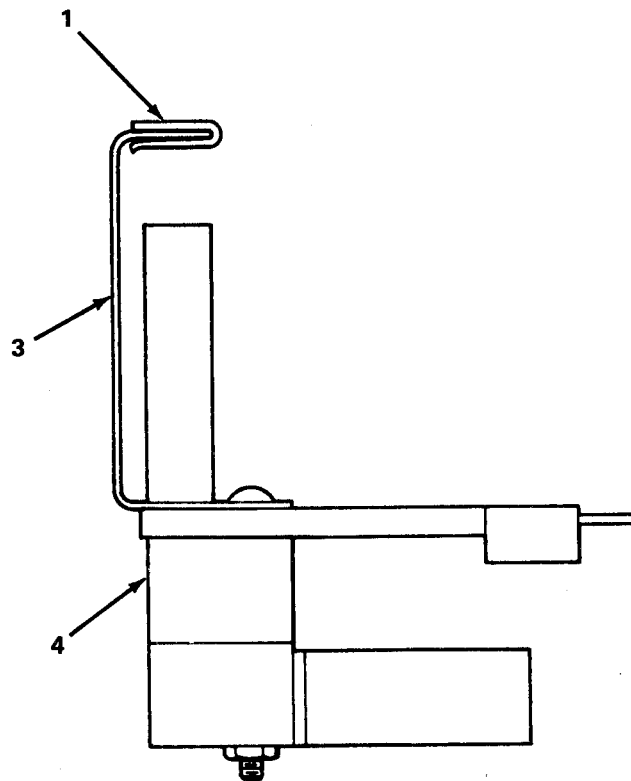
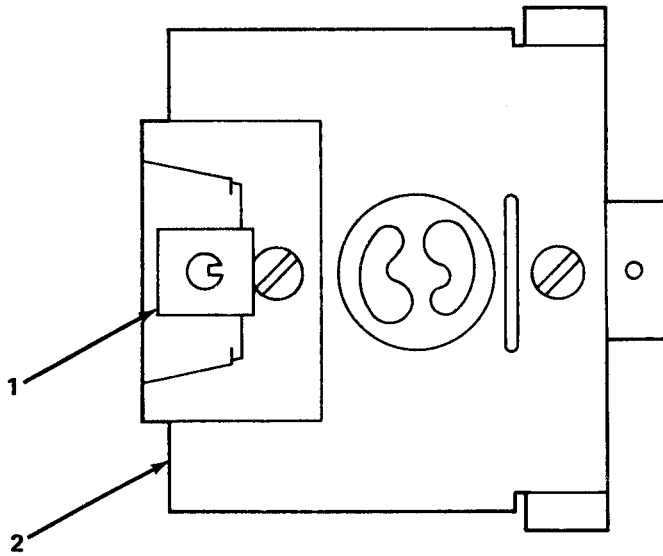


Figure C-25. Lamp Holder With Starter Base Assembly

(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

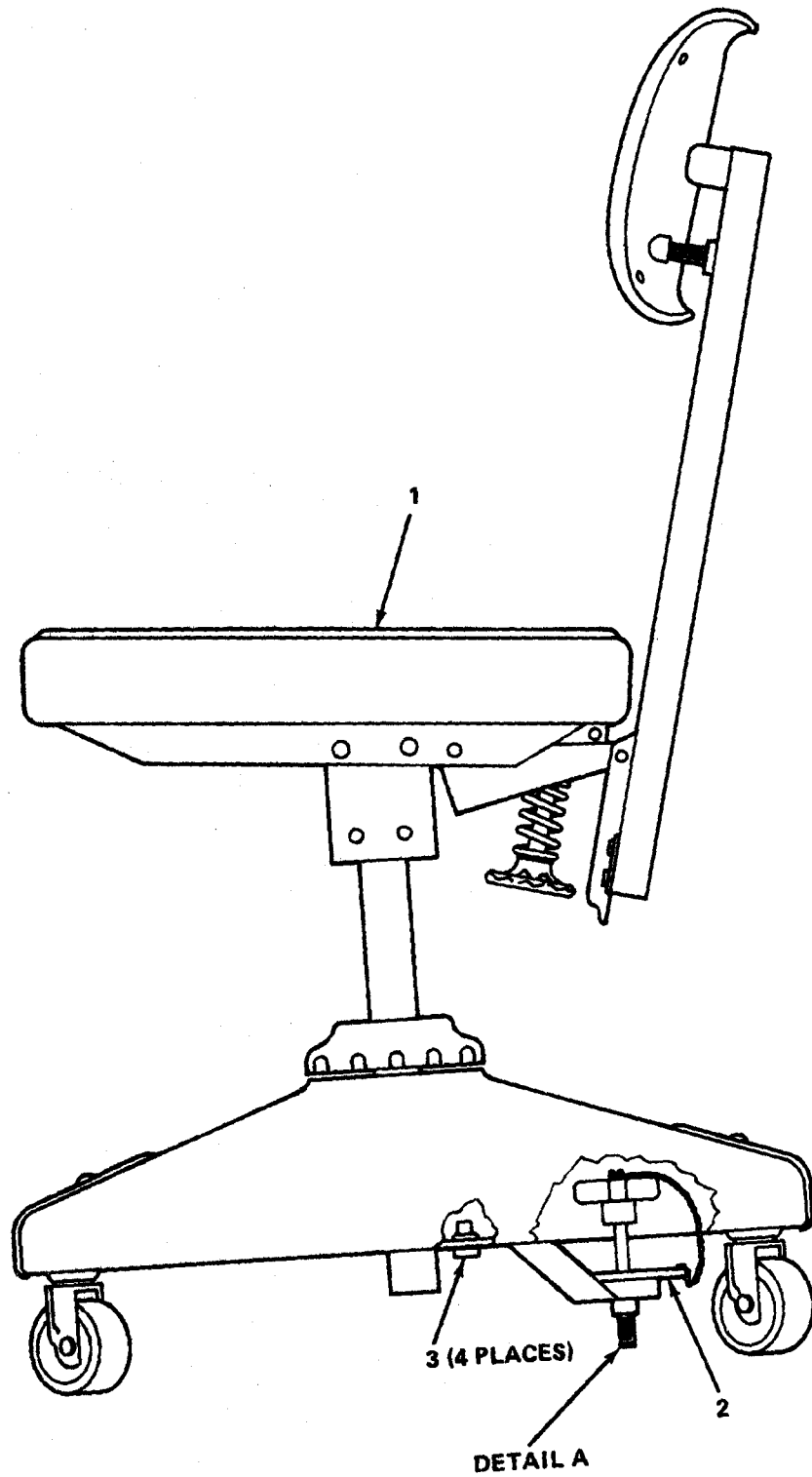
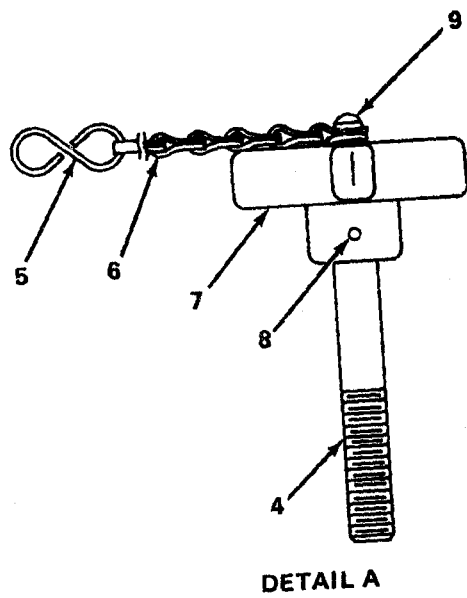


Figure C-26. Rotary Chair Assembly

(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

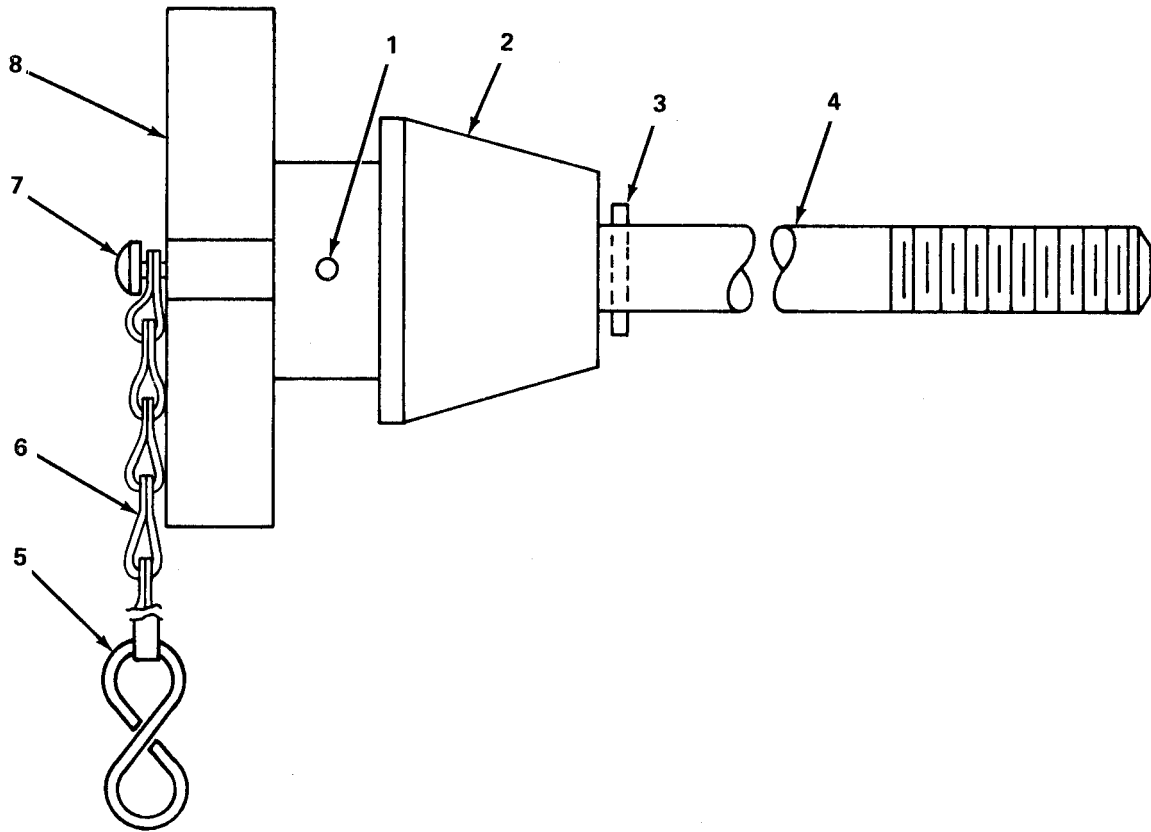


Figure C-27. Cable Reel Tiedown Assembly

(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

THIS PAGE INTENTIONALLY LEFT BLANK

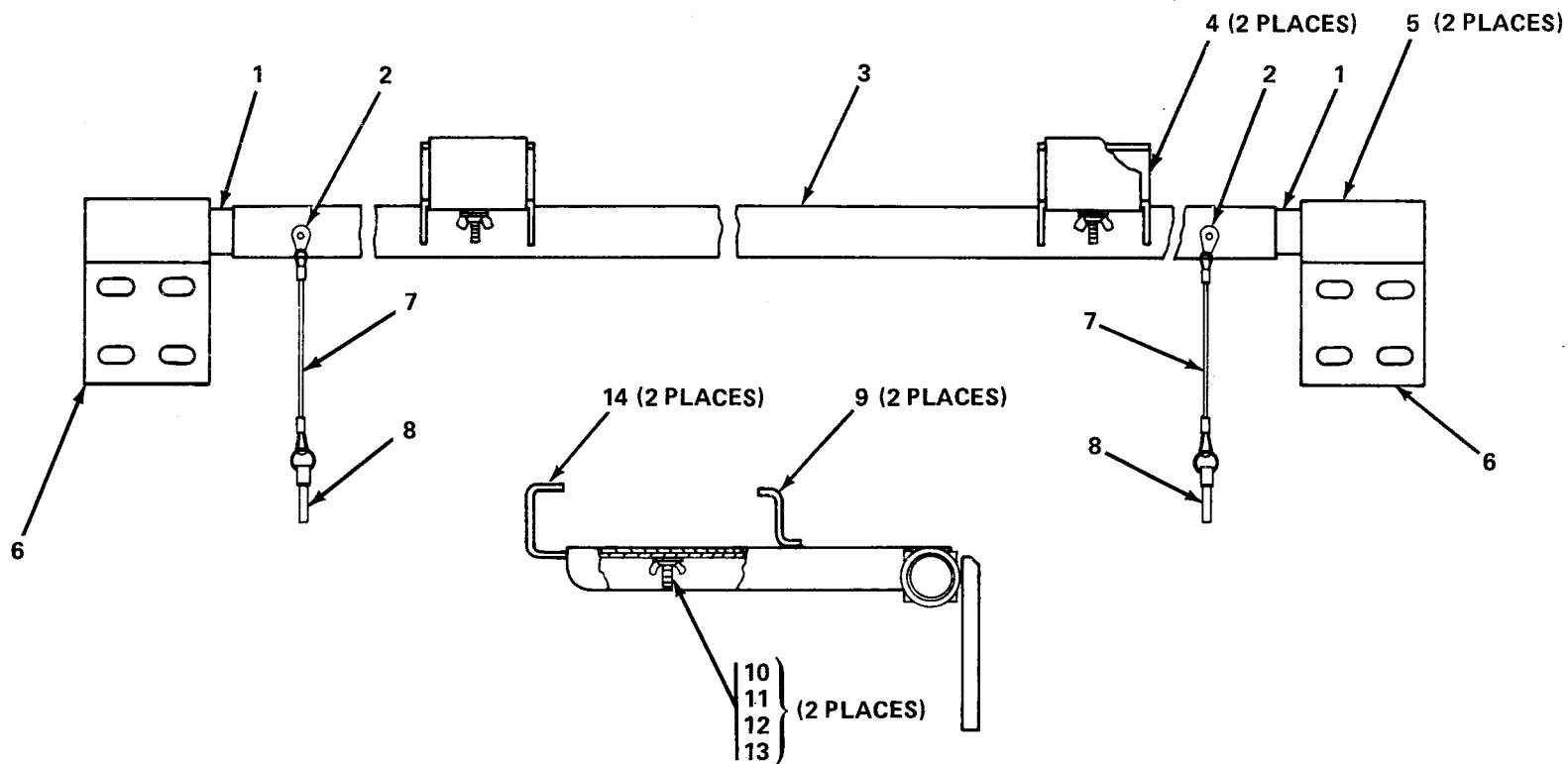


Figure C-28. Ladder Bracket Assembly

(1) ILLUSTRATION	(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	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

THIS PAGE INTENTIONALLY LEFT BLANK

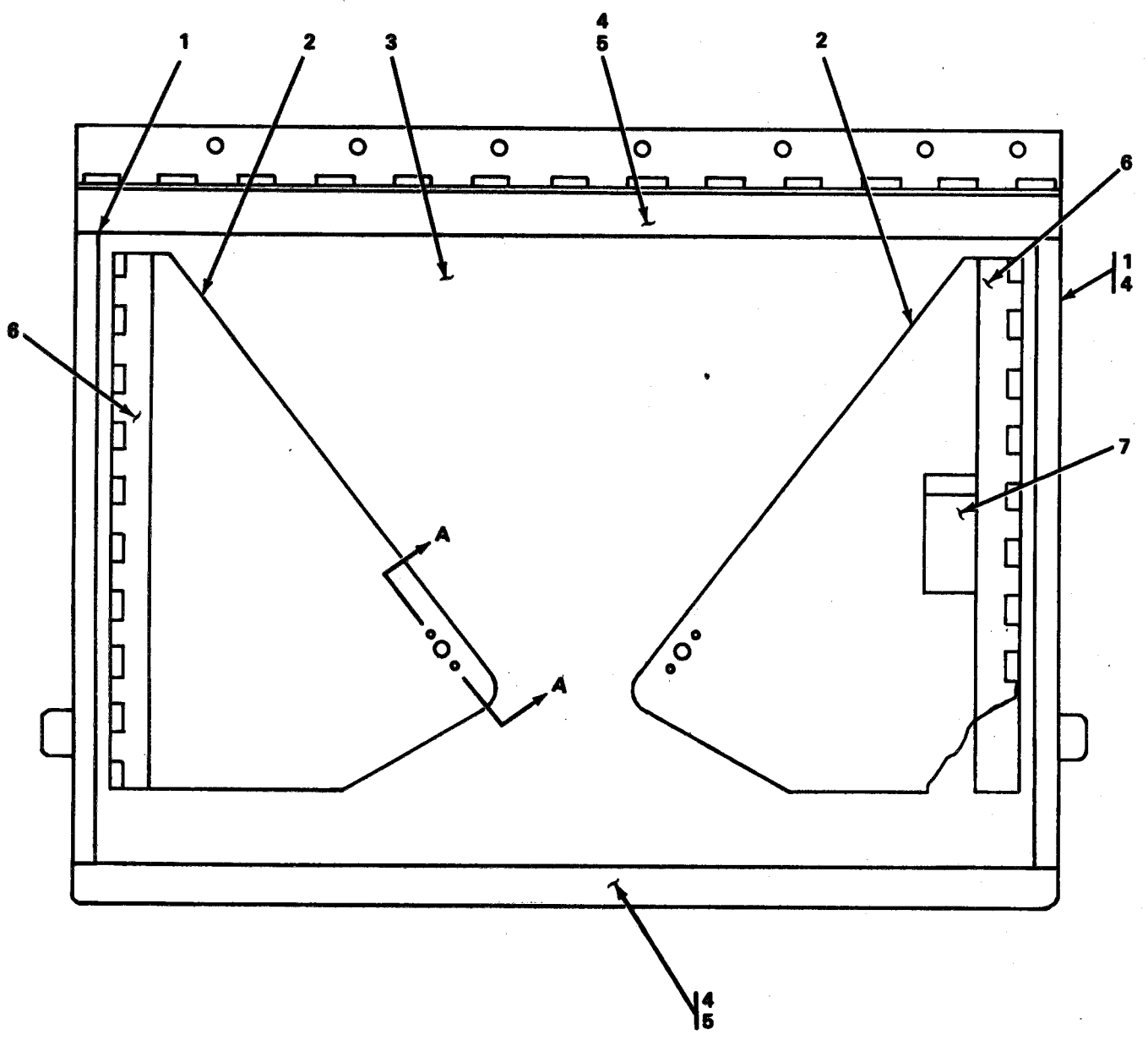


Figure C-29. Power Entrance Box Cover Assembly (Sheet 1 of 4)

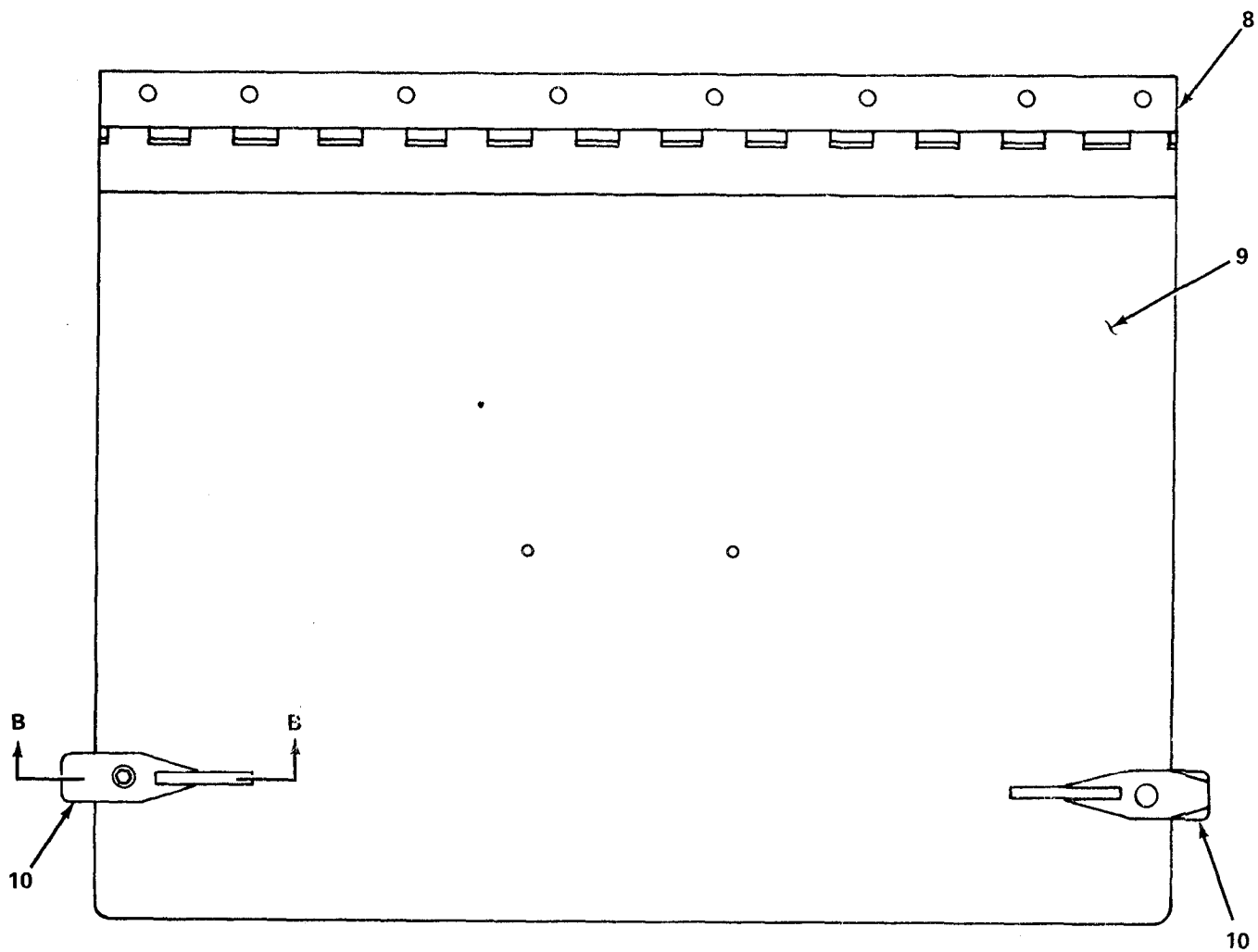


Figure C-29. Power Entrance Box Cover Assembly (Sheet 2 of 4)

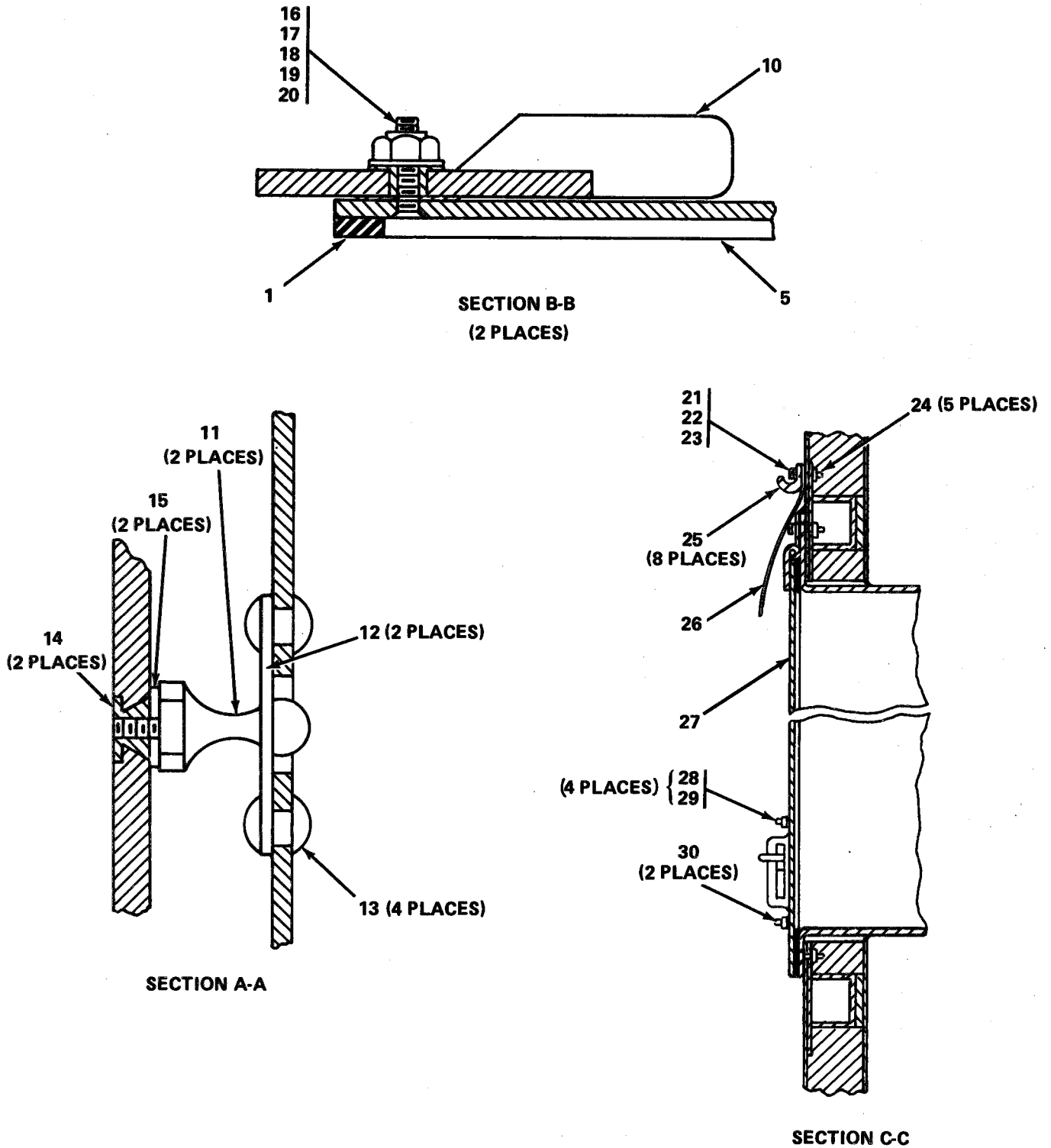


Figure C-29. Power Entrance Box Cover Assembly (Sheet 3 of 4)

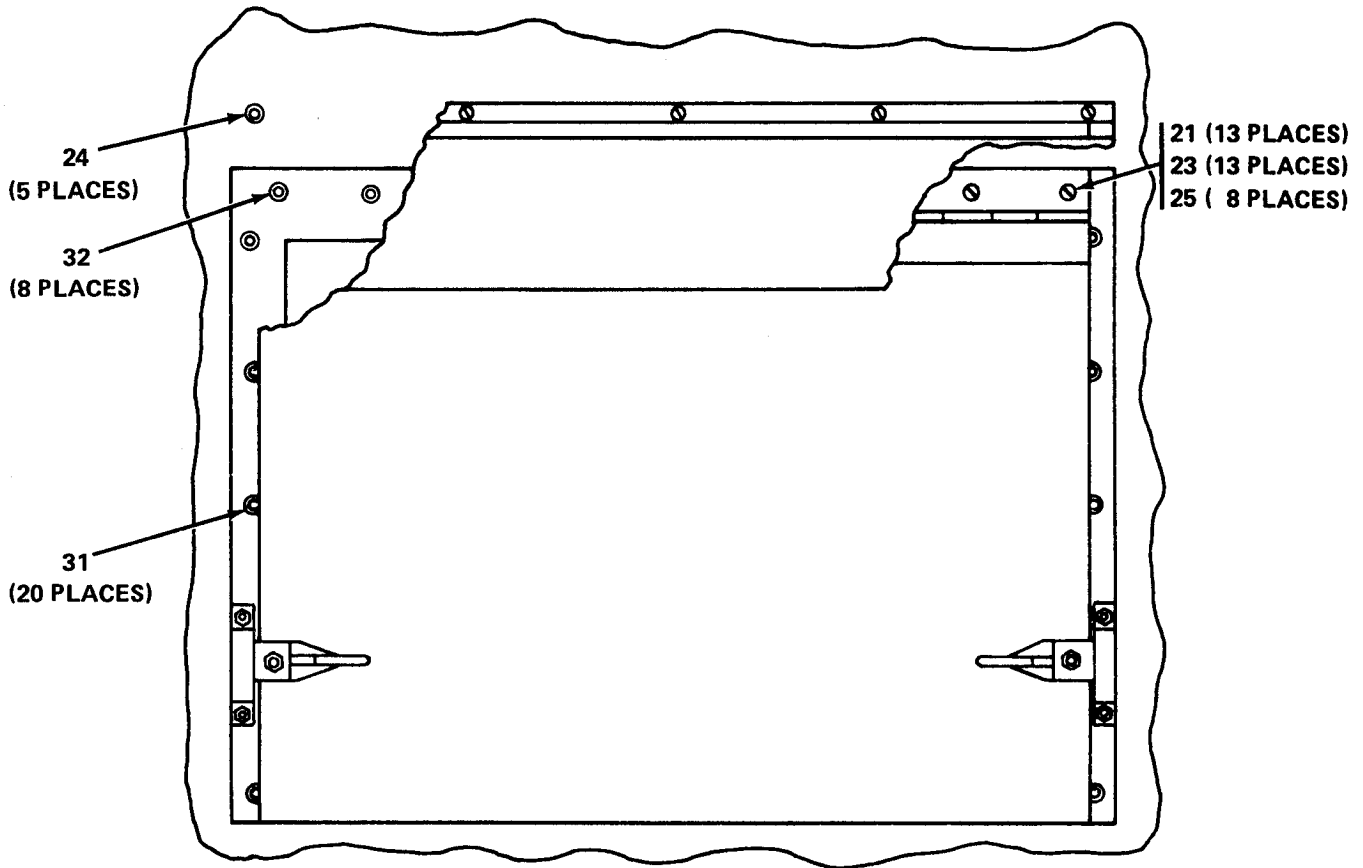


Figure C-29. Power Entrance Box Cover Assembly (Sheet 4 of 4)

(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	PART NUMBER	FSCM	DESCRIPTION	U/M QTY
FIG NO.	ITEM NO.	CODE	NUMBER			USABLE ON CODE	INC IN UNIT
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

By Order of the Secretary of the Army:

Official:

J. C. PENNINGTON
Major General, United States Army
The Adjutant General

E. C. MEYER
General, United States Army
Chief of Staff

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

OPERATIONS SECTION
375th ASA CO,
FORT HOOD, TX 76544

DATE SENT

PUBLICATION NUMBER

TM 32-5895-215-ESC

PUBLICATION DATE

OCT 71

PUBLICATION TITLE

AN/MLQ-24

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.

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

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

BILL N. ERNEST SP/4

SIGN HERE:

Bill N. Ernest

DA FORM 2028-2
1 JUL 70

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.

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

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

SIGN HERE:

DA FORM 1 JUL 79 2028-2

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.

FILL IN YOUR
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

POSTAGE AND FEES PAID
DEPARTMENT OF THE ARMY
DOD 314



TEAR ALONG PERFORATED LINE

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

Commander
U.S. Army Electronics Materiel Readiness Activity
ATTN: SELEM-ME-E
Vint Hill Farms Station
Warrenton, Virginia 22186

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

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				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.	

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

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.

FILL IN YOUR
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

POSTAGE AND FEES PAID
DEPARTMENT OF THE ARMY
DOD 314



TEAR ALONG PERFORATED LINE

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

Commander
U.S. Army Electronics Materiel Readiness Activity
ATTN: SELEM-ME-E
Vint Hill Farms Station
Warrenton, Virginia 22186

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

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

SIGN HERE:

FILL IN YOUR
UNIT'S ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID
DEPARTMENT OF THE ARMY
DOD 314



TEAR ALONG PERFORATED LINE

Commander
U.S. Army Electronics Materiel Readiness Activity
ATTN: SELEM-ME-E
Vint Hill Farms Station
Warrenton, Virginia 22186

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

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

SIGN HERE:

DA FORM 2028-2
1 JUL 79

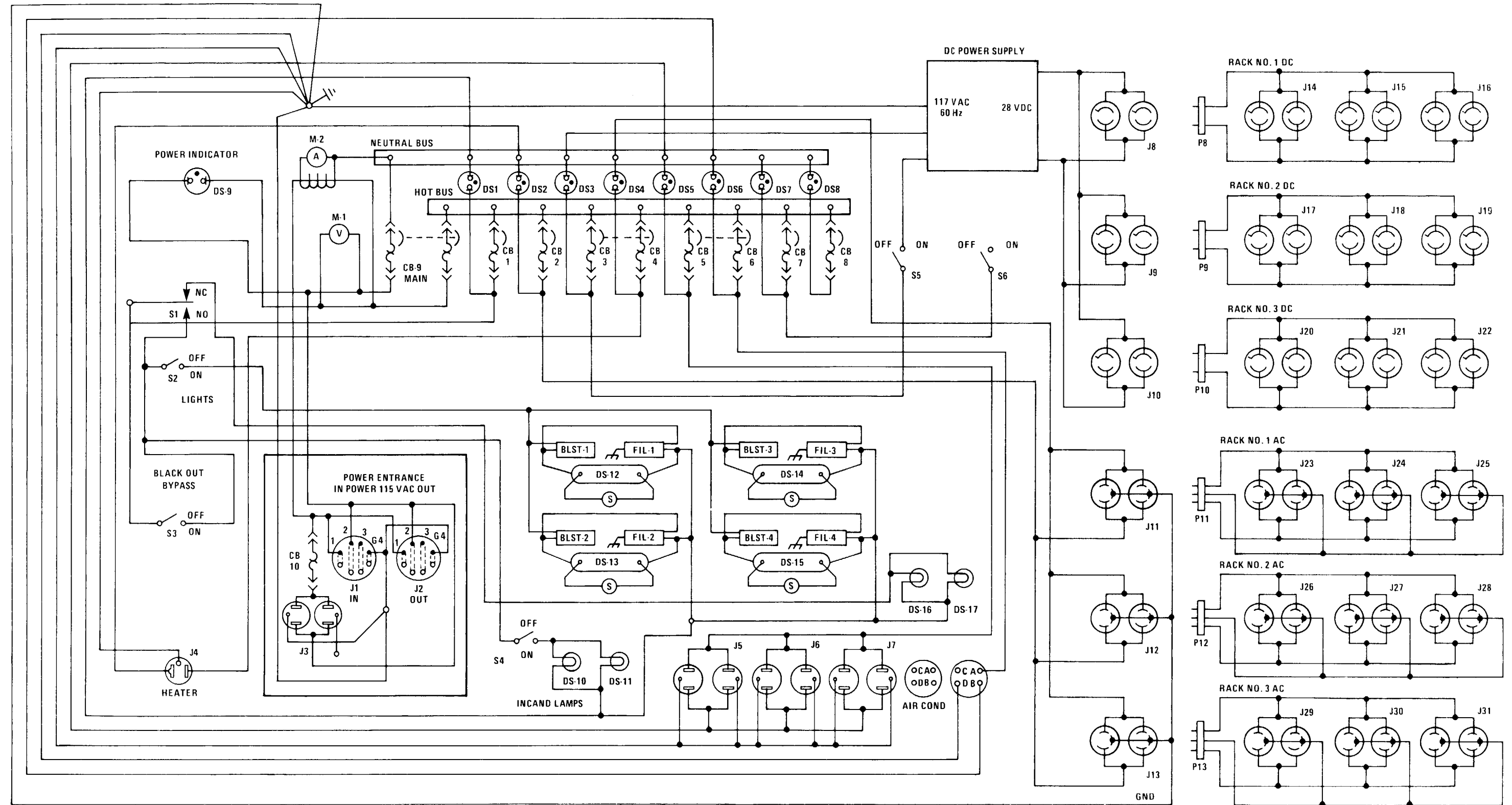
PREVIOUS EDITIONS ARE OBSOLETE.

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:

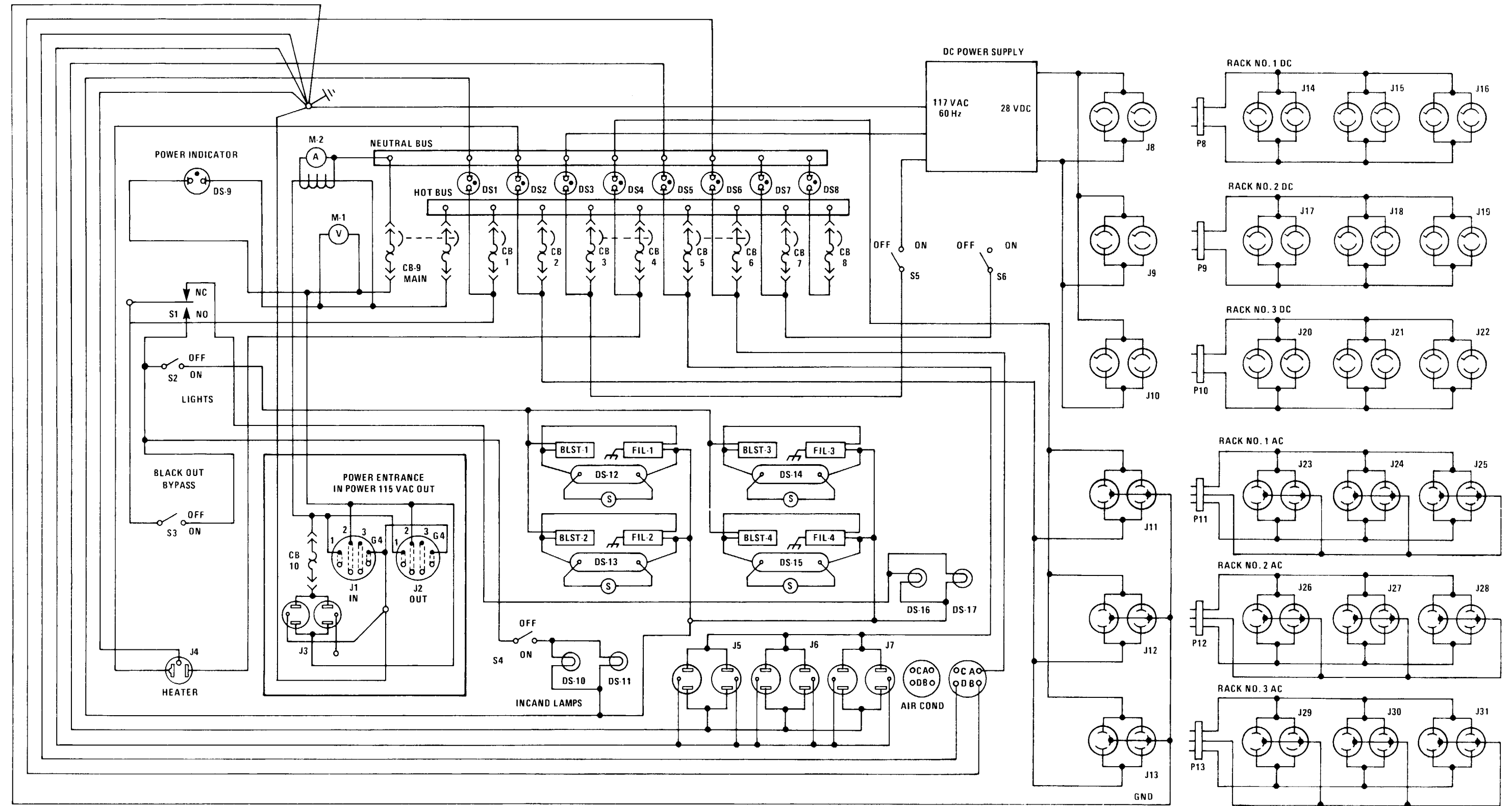
CB1	LIGHTS	15 AMP
CB2	AC EQUIP	15 AMP
CB3	DC PS-1	20 AMP
CB4	HEATER	20 AMP
CB5	CONV	20 AMP
CB6	AIR COND	30 AMP
CB7	SPARE DC	
	PS-2	20 AMP
CB8	SPARE	15 AMP
CB9	MAIN	60 AMP
CB-10	CONV	10 AMP



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



FO-1. Electrical Power Schematic

**COMMANDER
US ARMY ELECTRONICS
MATERIEL READINESS ACTIVITY
WARRENTON, VIRGINIA 22186**

**OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300**

**POSTAGE AND FEES PAID
DEPARTMENT OF THE ARMY
DoD-314**

