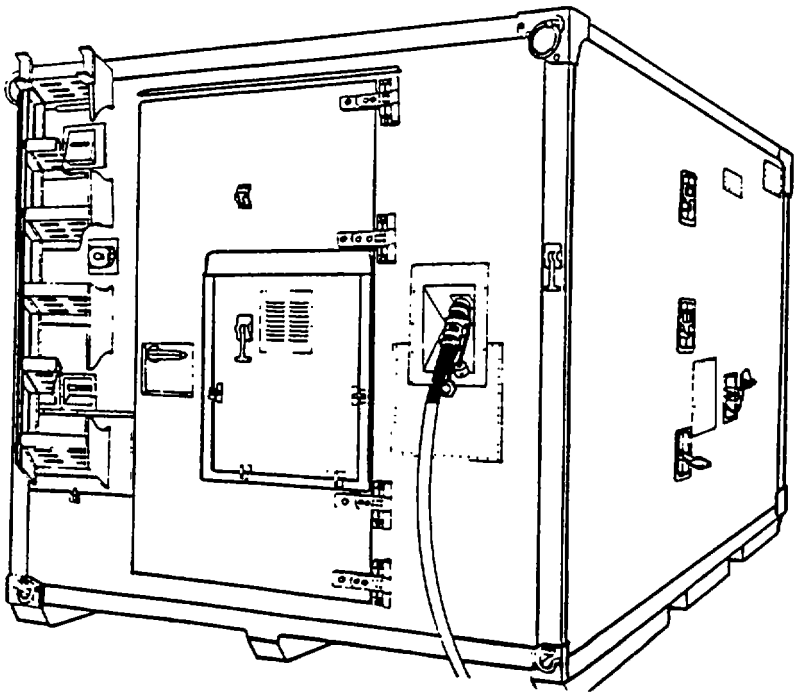
TECHNICAL MANUAL

OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

PRINTING PLANT, SPECIAL WARFARE, TRANSPORTABLE
NSN: 3610-01-106-2276

APPLICABLE TO SERIAL NUMBERS 0013 THROUGH 0032 ONLY

PRESS SHELTER
NSN: 3610-01-163-2104
VOLUME 2



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HEADQUARTERS, DEPARTMENT OF THE ARMY
22 AUGUST 1990

CHANGE
NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 10 APRIL 1992

Operator, Unit and Direct Support Maintenance Manual
Including Repair Parts and Special Tools List
for

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VOLUME 2

Approved for public release; distribution is unlimited

TM 5-3610-295-13&P-2, 22 August 1990, is changed as follows:

1. Appendix F, Unit and Direct Support Maintenance (Including Depot Maintenance) Repair Parts and Special Tools List (RPSTL), Sections II through IV, have been revised to incorporate 100% National Stock Number assignment. Because entire sections are revised, no change bars/hands are used.

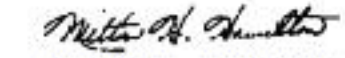
Remove pages	Insert pages
F-9 through F-97/(F-98 blank)	F-9 through F-97/(F-98 blank)

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

GORDON R. SULLIVAN
General, United States Army
Chief of Staff

Official:



MILTON H. HAMILTON
Administrative Assistant to the
Secretary of the Army
00910

DISTRIBUTION:
To be distributed in accordance with DA Form 12-25E, (qty rqr block nos. 5530).

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Do not perform electrical maintenance or make electrical connection or disconnection at the main power receptacle while the generator set is running or the commercial power breaker is ON. Always have another person standing by who is familiar with electrical shock first aid.

DEATH or serious injury could result by repeated and/or prolonged breathing and/or skin contact of drycleaning solvent P-D-680. Use in a well-ventilated area. Do not use near open flame or in excessive heat. The flash point of this solvent is 100 ℉-138 ℉ (38 ℃-59 ℃).

Injury to personnel or damage to equipment could result if unauthorized or unnecessary individuals are nearby when lifting and lowering shelter. Permit only personnel actually engaged in the lifting operation to be near the vehicle and lifting device. All instructions for the lifting operations must come from the crew supervisor.

CAUTION

Lift shelter slowly to avoid tearing lifting eye assemblies from the shelter. Do not jerk the sling when lifting.

Do not swing the shelter from side to side when lifting. This places additional stress on the lifting eye assemblies which can tear them from the shelter.

Do not bounce or jar the shelter. Bouncing or jarring can loosen the bond between the skin and foam-core and reduce the rigidity and strength of the shelter.

TECHNICAL MANUAL
NO. 5-3610-295-13&P-2

HEADQUARTERS
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WASHINGTON, D.C. 22 August 1990

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Current as of 28 July 1990

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a 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 directly to: Commander, U. S. Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

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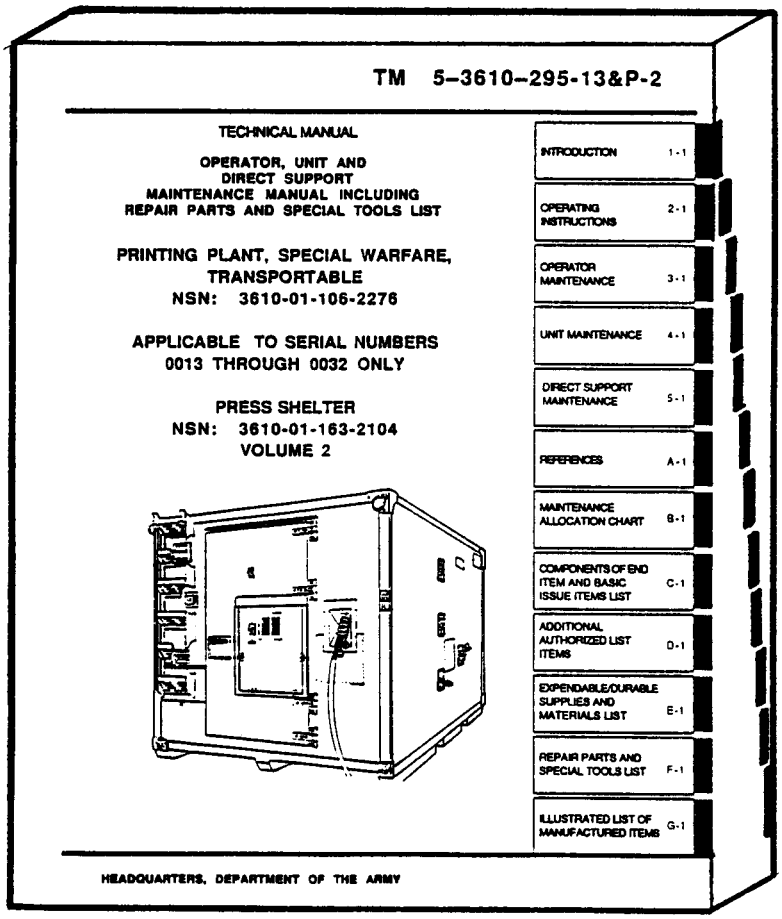
HOW TO USE THIS MANUAL

This manual is used by the Army for operation and maintenance of the Press Shelter, Module A. Use front cover index and black tabs at the edge to quickly find the chapters, appendices and index of the manual.



This manual is divided into chapters, sections, and paragraphs which are numbered in sequence. Pages and paragraphs are numbered by chapters. For example: Chapter 2, page 3 is marked 2-3; Chapter 3, paragraph 5 is marked 3-5.

CHAPTER 1. INTRODUCTION

SECTION I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. Operating Instructions and Unit and Direct Support Maintenance including Repair Parts and Specific Tools List.

b. Model Number and Equipment Name. No model number assigned. Printing Plant, Special Warfare, Transportable - Press Shelter.

c. Purpose of Equipment. Duplication of master copies to be used in producing special warfare leaflets.

d. Supplementing Manuals. TM 5-3610-295-13&P-1 contain operating and maintenance instructions for other components of the Printing Plant, Special Warfare, Transportable.

1-2. **MAINTENANCE FORMS, RECORDS, AND REPORTS**. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS).

1-3. **REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's).** If your Press 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 or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to us at U. S. Army Troop Support Command, ATTN: AMSTR-MS, 4300 Goodfellow Blvd. , St. Louis, MO 63120-1798. We'll send you a reply.

1-4. **WARRANTY INFORMATION**. None required. Refer to individual component manual for warranty information.

1-5. **DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.** Refer to TM 750244-3 for information and instructions covering destruction of Army Material.

1-6. **PREPARATION FOR STORAGE OR SHIPMENT.** Refer to Chapter 2, Section III for information pertaining to the preparation for storage or shipment.

1-7. **DEPOT MAINTENANCE.** Depot maintenance for the Modular Print System is performed by a specially trained depot team. Requests for depot maintenance should be forwarded to the U. S. Army Troop Support, Directorate for Maintenance, ATTN: AMSTR-MPD, 4300 Goodfellow Boulevard, St. Louis, Missouri 63120-1798, AUTOVON 693-9413 or commercial (314) 263-9413.

1-8. **SAFETY, CARE AND HANDLING.** You should follow the safety precautions listed on the "WARNING" pages at the front of this manual, as well as using good common sense. In addition, always read the applicable WARNINGS and CAUTIONS listed immediately before a dangerous operating or maintenance procedure.

1-9. **LIST OF ABBREVIATIONS.**

	A
AAL	Additional Authorized List
AR	Army Regulations
	B
BII	Basic Issue Item
	C
CAGE	Contractor and Government Entity (Code)
COEI	Component of End Item
CTA	Common Table of Allowance
	D
DA	Department of Army
DLAR	Defense Logistic Agency Report
	E
EIR	Equipment Improvement Report
	H
HR	Hand Receipt
	I
IPH	Impressions Per Hour
ISO	International Standardization Organization
	J
JTA	Joint Table of Allowances
	K
KW	Kilowatt
	M
MAC	Maintenance Allocation Chart
MTOE	Modification Table of Organizations and Equipment
	N
NSN	National Stock Numb

1-9. **LIST OF ABBREVIATIONS**. - Continued

P

PAM	Pamphlet
PMCS	Preventive Maintenance Checks and Services
PSYOPS	Psychological Operations

R

RPSTL	Repair Parts and Special Tools List

S

SF	Standard Form
SPH	Sheets Per Hour

T

TAMMS	The Army Maintenance Management System
TDA	Table of Distribution and Allowances
TMDE	Test Measurement and Diagnostic Equipment
TOE	Table of Organization and Equipment

V

VAC	Voltage Alternating Current

SECTION II. EQUIPMENT DESCRIPTION AND DATA

1-10. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. Equipment Characteristics. A vehicular transportable reproduction facility, used in conjunction with the editorial shelter to make up the printing plant.

b. Equipment Capabilities. Capable of producing line copy, halftone images, or two color copies, from paper or metal masters at speeds in the range of 5,000 to 10,000 impressions per hour (IPH).

c. Equipment Features. Including the following:

(1) Offset duplicating machine with receding stacker.
(2) Color press.
(3) Papercutter.
(4) Storage cabinets.
(5) Air conditioner units.
(6) Level indicator gages

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. Left and right orientation is determined by facing the shelter personnel door. Walls where air conditioners are located are considered front of shelter. Paragraph numbers below correspond to callouts in Figure 1-2 and 1-3. All equipment is located in it operational position.

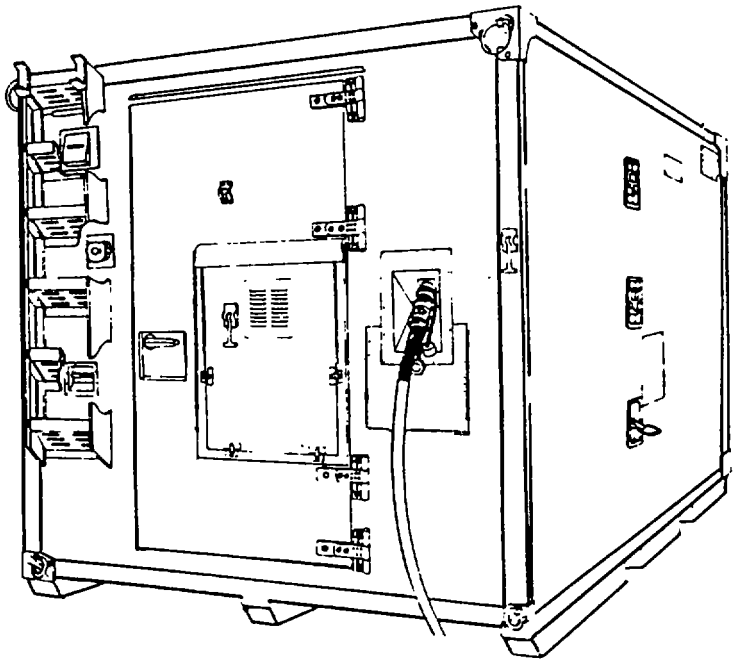


Figure 1-1. Printing Plant, Special Warfare, Transportable

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. - Continued

a. Press Shelter Exterior. Refer to Figure 1-2 for location of major components.

(1) Condenser Cover. Protects the air conditioner when not in use and during transit of the shelter.

(2) Air Conditioner. Provides temperature control for the shelter.

(J) Water Tank Filler. Provides an outside means of filling water tank.

(4) Sink Drain. Provides a means of draining sink.

(5) Main Power Receptacle. Permits supply of power to interior main power service box when power cable is connected.

(6) Folding Steps. Allows access to roof of shelter.

(7) Main Power Cable. Used to supply shelter with power from power source.

(8) Air Filter Weather Cover. Provides access to the removable foam-type air filter.

(9) Ladder Assembly. Provides a means of entry to shelter when truck mounted.

(10) Blackout Warning Switch. Activates an interior blackout warning buzzer to warn personnel in the shelter to turn off interior lights before opening door during blackout.

(11) Telephone Binding Post. Used to facilitate connection of field telephone between units of printing plant.

(12) Level Indicators. Rear and side bubble gage-type levels used to level shelf.

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. - Continued

a. Press Shelter Exterior. - Continued

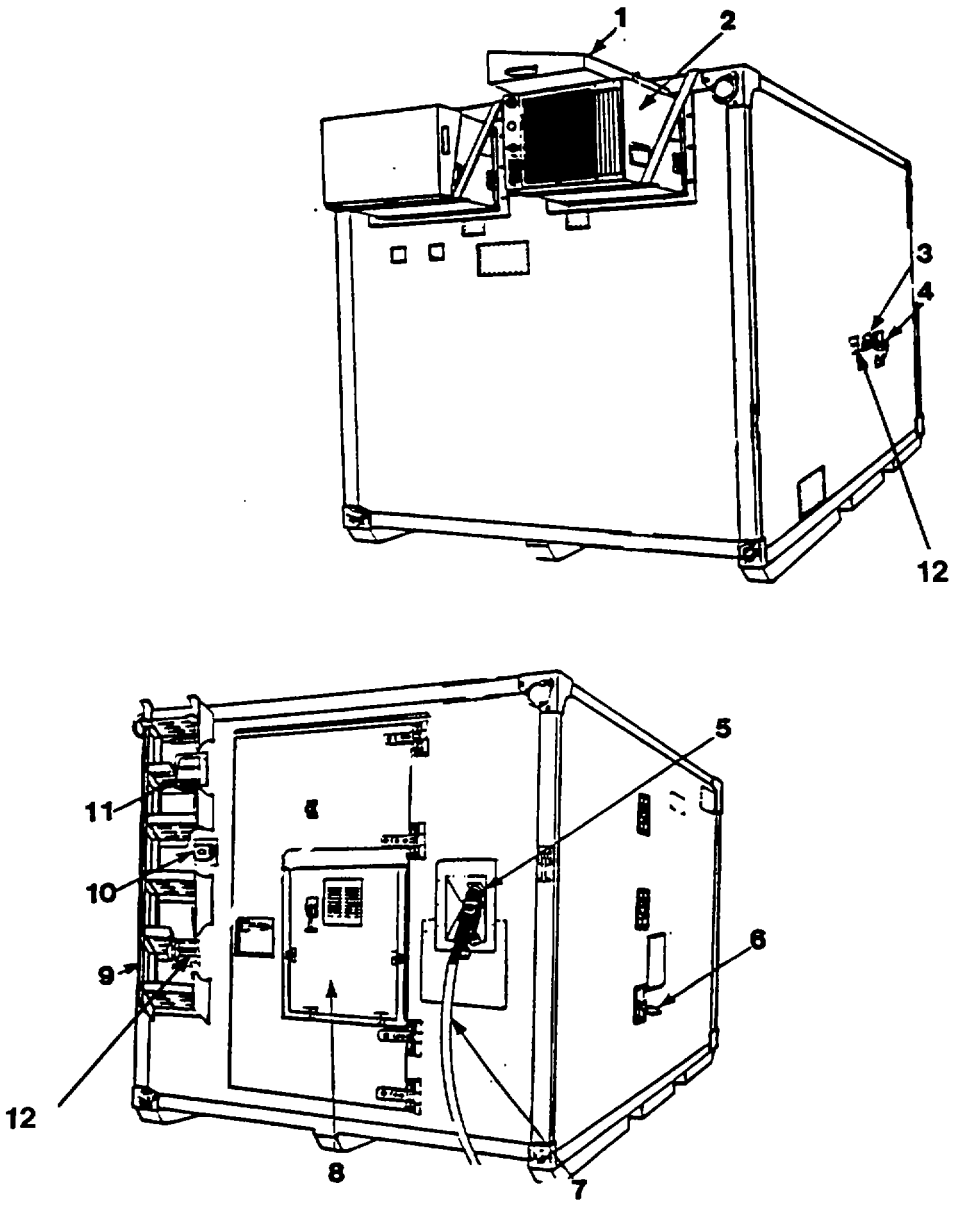


Figure 1-2. Location and Description of Major Components, Press Shelter, Exterior

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. - Continued

b. Press Shelter Interior. Refer to Figure 1-3 for location of major components.

(1) Lamp Assemblies. Provides fluorescent light for shelter.

(2) Fire Extinguisher. A class 2-B dry chemical type extinguisher suitable for all types of fire, with the exception of LO (liquid oxygen) generating equipment.

(3) Blackout Warning Buzzer. Along with exterior blackout switch provides a blackout warning system.

(4) Main Power Service Box. Contains circuit breakers and distribution terminals for shelter electrical system.

(5) Telephone Bracket. Bracket used to hold field telephone.

(6) Door Blackout Pin. Provides a means of securing door during blackout periods to prevent the door from being inadvertently opened.

(7) Fresh Air Filter. A foam-type air filter permits filtered outside air to enter shelter when door is closed and exterior weather cover is open.

(8) First Aid Kit. A general purpose 12 unit first aid kit.

(9) Color Press. Attaches to and is used in conjunction with offset duplicating machine to permit printing of two colors in one operation.

(10) Duplicating Machine and Stacker. An offset process type duplicating machine whereby the image on the master receives moisture from the dampener and ink from the inker for every revolution of the master cylinder. Stacker used to jog and stack large amounts of paper copy.

(11) Water Tank. Provides a readily available water supply.

(12) Storage Benches. Provides storage space, a working surface, and a sink and faucet for water supply.

(13) Rifle Rack. A rack to store rifles while shelter is in operation.

(14) Wall Storage Cabinets. Used to store paper and other duplicating supplies.

(15) Sink. Provides a place for cleaning rollers and for personnel cleanup.

(16) Papercutter. Electrically operated cutter used to cut paper to proper size.

(17) Air Conditioner. A combination heating and cooling unit, thermostatically controlled for correct temperature control.

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. - Continued

b. Press Shelter Interior. - Continued

(18) Storage Cabinets. Used to store press shelter paper supply.

(19) Roller Rack. Rack used to store duplicating machine and color press rollers while shelter is in storage or shipment.

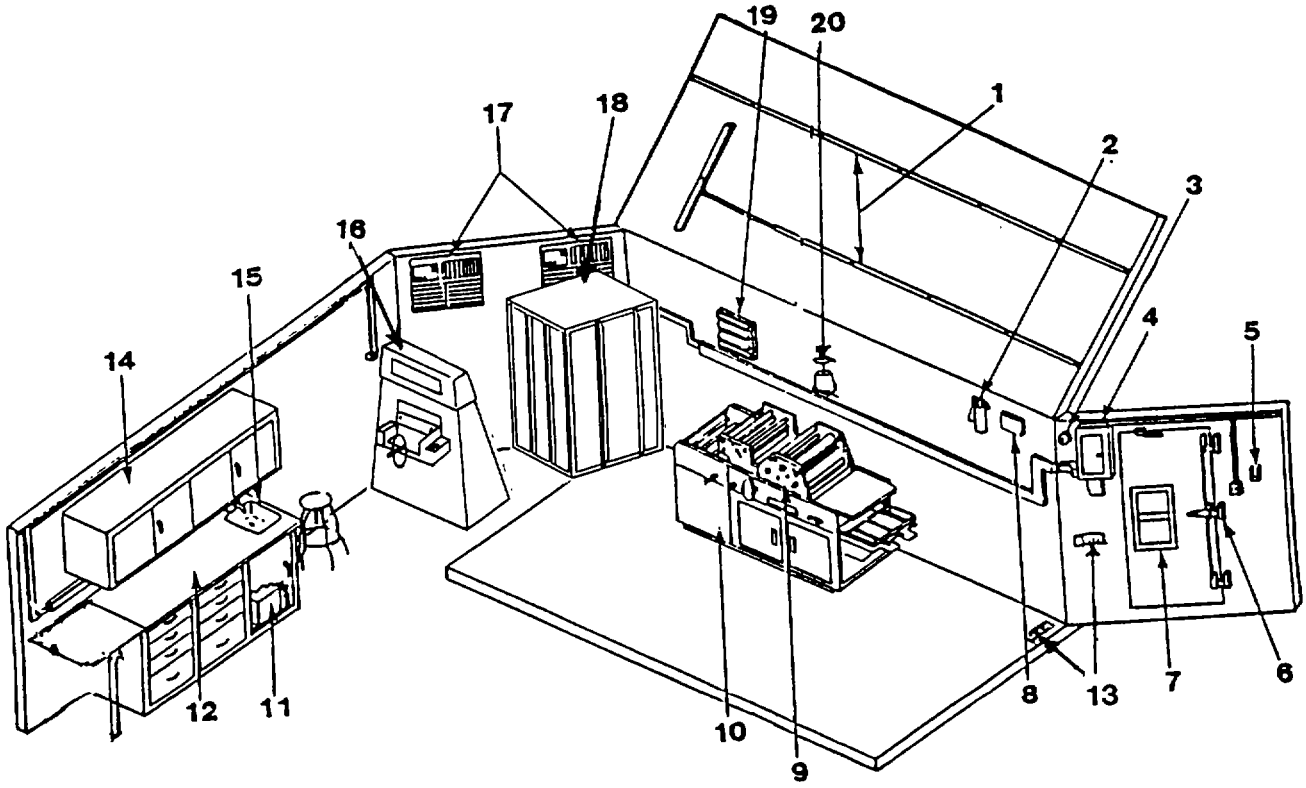


Figure 1-3. Location and Description of Major Components, Press Shelter, Interior

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. - Continued

b. Press Shelter Interior. - Continued

(20) Plunger Can Assembly. A plunger-type dispenser can containing a wash solution used to clean ink rollers and rubber blankets.

1-12. EQUIPMENT DATA.

a. Type of Construction.	Stressed aluminum panels with foam core bonded between inner and outer panels.
b. Volume.	614 cu ft (17.4 m3)
c. Dimensions.	
Length	147 in. (373 cm)
Width	87 in. (221 cm)
Height	83 in. (211 cm)
Weight	1470 lbs. (668.1 kg)
d. Duplicating Machine.	
Manufacturer	AM Multigraphics
Model	1250/T51
Dimensions	
Length	72 in. (183 cm)
Width	27.5 in. (69.9 cm)
Height	54 in. (137 cm)
Weight	640 lbs. (290.4 kg)
Power Requirements	110 V ac, 60 Hz, 30 amps grounded
e. Papercutter.	
Manufacturer	The Challenge Machine Company
Model	Model 20
Volume	5.28 ft 3 (.15 m3)
Dimensions	
Length	48-1/4 in. (118 cm)
Width	36-1/2 in. (93 cm)
Height	53-1/2 in. (136 cm)
Weight	530 lbs. (241 kg)
Power Requirements	115 V ac, 60 Hz

1-12. EQUIPMENT DATA. - Continued

f. Water Tank.

Manufacturer	Tooele Army Depot
Model	1-6-6090
Material	Stainless Steel
Capacity	10 gal. (38 L)
Dimensions	
Length	17 in. (43 cm)
Width	14.5 in. (39 cm)
Height	10 in. (25 cm)

g. Water Pump.

Manufacturer	Shure-Flo, Inc.
Model	1P805
Dimensions	
Length	6 in. (15 cm)
Width	4 in. (10 cm)
Height	5 in. (13 cm)
Power Requirements	115 V ac, 60 Hz, 1.2 amps

h. Air Conditioner.

Manufacturer	A.R.E. Manufacturing Co.
Model	A9KH-115P
Capacity	
Cooling	9,000 BTUH (2374W)
Heating	7,000 BTUH (2051W)
Volume	5.1 ft 3 (0.14 m3)
Dimensions	
Length	23 in. (58 cm)
Width	24 in. (61 cm)
Height	16 in. (41 cm)
Weight	200 lbs. (90.72 kg)
Power Requirements	110 V ac, 50/60 Hz, one phase, 30 amps

i. Blackout Warning Buzzer.

Manufacturer	Edwards Company, Inc.
Model	340-A
Power Requirements	115 V ac, 60 Hz, 0.04 amp

1-13. ELECTRICAL DATA.

The total electric demand load for the shelter components is 10 KW. Refer to Figure 1-4 for the press shelter wiring diagram.

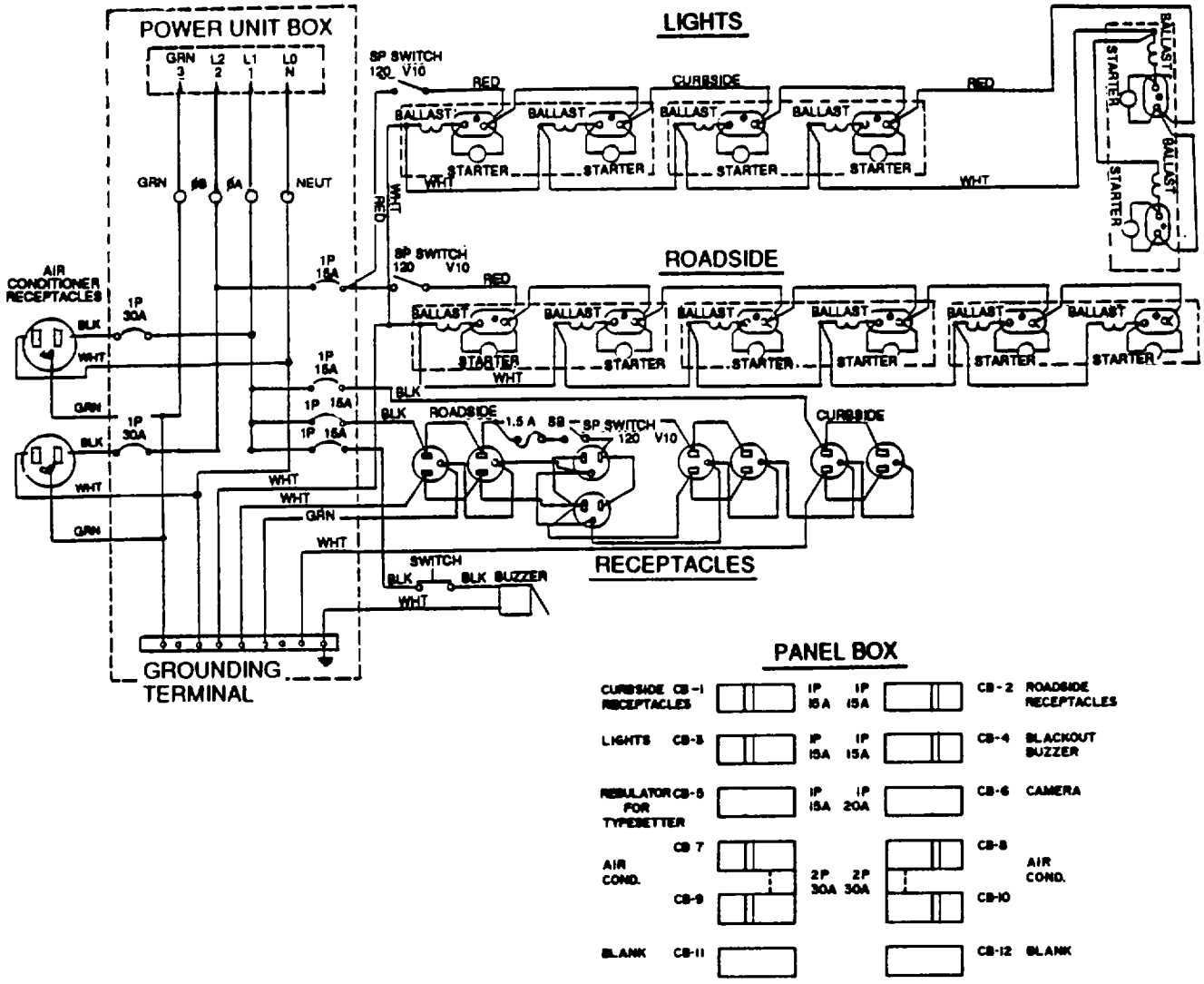


Figure 1-4. Press Shelter Wiring Diagram

SECTION III. TECHNICAL PRINCIPLES OF OPERATION

1-14. TECHNICAL PRINCIPLES OF OPERATION. The Printing Plant, Special Warfare, Transportable, is comprised of two S-280 shelters. The Press Shelter contains limited capacity printing and paper cutting capabilities. The Editorial Photomechanical Shelter contains typesetting, art work preparation, darkroom and plate making capabilities. For expanded operation, the Modular Printing System (MPS) contains Modules B and C. Refer to TM 5-3610-303-12&P for camera operating principles, and to TM 5-3610-302-12 for phototypesetter operating principles.

The printing process begins when an image is produced on a plate or master. The image is made of a substance that has an affinity for grease-containing material and will tend to hold ink more strongly than the blank (non-imaged) area of the plate. A moistening solution is manually applied to the surface of the plate. This application renders the blank (non-imaged) area repellent to ink.

The plate is mounted on the master cylinder of the duplicator. The duplicator is turned on and the cylinders begin to rotate in the directions shown by the arrows in Figure 1-5. The single-lever control is moved to the MOIST position. This brings the moisture form roller into contact with the plate, and moisture in the form of fountain solution is applied to the entire surface of the plate.

After four or five revolutions, the single-lever control is moved to the MASTER INK position. This action brings the two ink form rollers into contact with the plate, and the image becomes inked while the blank area remains free of ink. The ink adheres to the image and is not driven off by the moisture because the attractive tendency of the image remains stronger than the repelling tendency of water. This condition is maintained as long as ink and moisture are applied in the proper amounts, in which case they are said to be in balance. After ink has been applied for three or four revolutions, the single-lever control is moved to the PRINT position. This brings the master cylinder into contact with the rubber blanket on the blanket cylinder, with the result that a reversed (or mirror) image is offset onto the blanket. This image is allowed to build up for a few revolutions of the cylinder before paper is fed.

The pump switch is turned on and the vacuum feet pick up the topmost sheet and feed it to the pullout wheels. The pullout wheels feed the sheet onto the moving tapes of the register board. The tapes carry the sheet to the feed rollers, which in turn feed the sheet to the grippers of the impression cylinder. A mechanism detects the sheet and causes the impression cylinder to press the sheet against the blanket as the sheet passes through the nip formed by the impression cylinder and the blanket cylinder. The reversed image on the blanket is impressed upon the sheet and reversed again to become a correct reading image. When the leading edge of the sheet emerges from the nip of the cylinders, the grippers open to release the sheet, and guides it into the receding stacker for jogging.

a. MPS Press Section (Module B). Module B is comprised of two Press Sections, each of which is a two-sided expandable 8' x 8' x 20' tactical rigid wall ISO shelter. Each shelter is equipped with a two-color offset perfecting printing press, environment controls, sink, lithographic layout cabinet, work tables and storage space for printing supplies.

1-14. TECHNICAL PRINCIPLES OF OPERATION. - Continued

b. MPS Finishing Section (Module C). Module C is comprised of one Finishing Section which is also a two-sided ISO shelter equipped with a programmable electronic paper cutter, environmental controls, storage cabinets and work tables. Two ISO-to-ISO connectors allows passage between the three ISO units.

c. Power Requirements and Distribution. Power for the entire system is provided by a 60 KW trailer-mounted generator. Module A, when operated in a stand-alone configuration without Module B and C, has its own power source of two 15 KW generators that are part of the standard Printing Plant, Special Warfare, Transportable configuration. When Module A is configured with Modules B and C, the two 15 KW generators are replaced by the single 60 KW power plant providing power for the entire system. A Power Distribution Box Assembly provides central power distribution and control to the five units of the MPS.

d. Movement of the Printing Plant. Movement of the Printing Plant, Special Warfare Transportable is accomplished by two 2 1/2 ton cargo trucks.

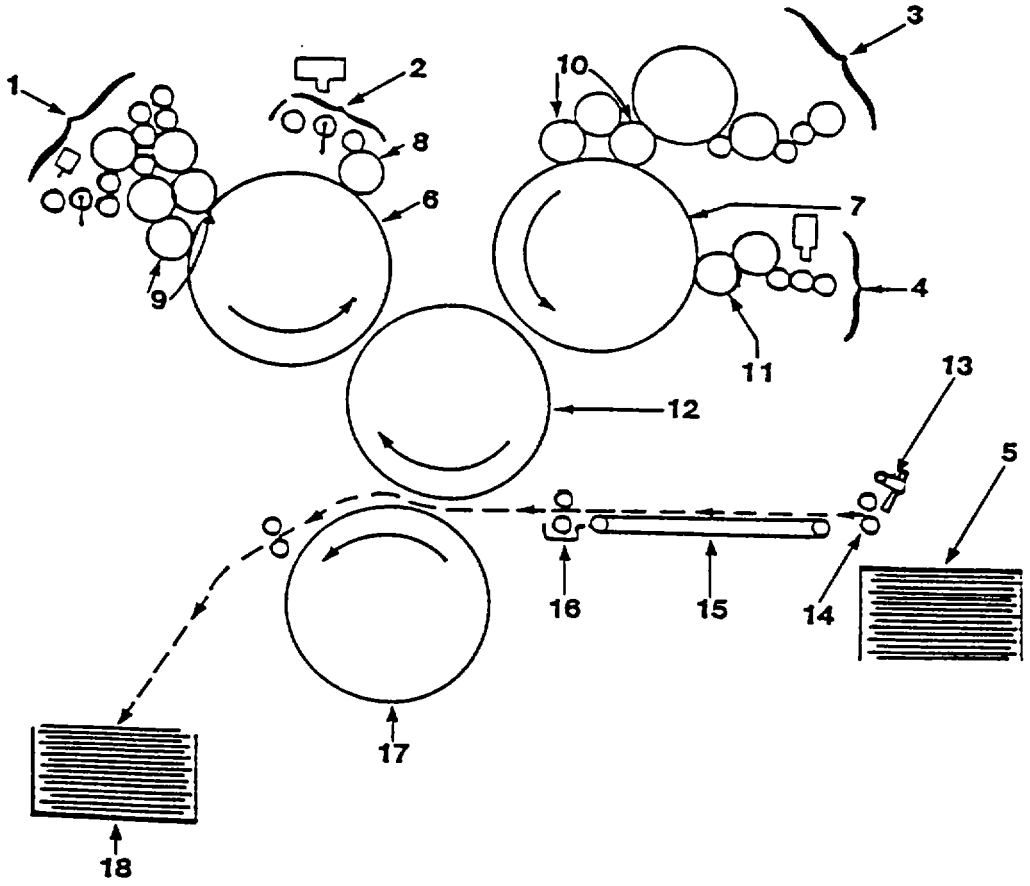


Figure 1-5. The Printing Process

1-14. TECHNICAL PRINCIPLES OF OPERATION. - Continued

(1) DUPLICATOR INK SYSTEM. Contains the printing ink.

(2) DUPLICATOR MOISTURE SYSTEM. Contains a fountain solution.

(3) COLOR PRESS INK SYSTEM. Contains color printing ink.

(4) COLOR PRESS MOISTURE SYSTEM. Contains a fountain solution.

(5) PAPER PILE. Holds the paper sheets.

(6) DUPLICATOR MASTER CYLINDER. Holds a metal or special paper master.

(7) COLOR PRESS PLATE CYLINDER. Holds the color master.

(8) DUPLICATOR MOISTURE FORM ROLLER. Contacts the duplicator master and applies moisture.

(9) DUPLICATOR INK FORM ROLLERS. Contacts the duplicator master and applies ink.

(10) COLOR PRESS INK FORM ROLLERS. Contacts the color press plate and applies color ink.

(11) COLOR PRESS MOISTURE FORM ROLLER. Contacts the color press plate and applies moisture.

(12) BLANKET CYLINDER. Contains a rubber blanket and when it contacts the master receives reversed offset image.

(13) VACUUM FEET. Feeds paper sheets from paper pile to pullout wheels.

(14) PULLOUT WHEELS. Feeds paper sheet to register-board tapes.

(15) REGISTER-BOARD TAPES. Carries paper sheets to feed rollers and stop fingers for registration.

(16) FEED ROLLERS. Feeds paper sheets to grippers on impression cylinder.

(17) IMPRESSION CYLINDER. Presses paper sheets against blanket cylinder and the reverse image on the blanket is impressed upon sheet and thereby reversed again to become a correct image.

(18) RECEDING STACKER. Receives the printed sheets and provides mechanical jogging of the printed material.

1-15. ADDITIONAL REFERENCE MATERIAL. Detailed information relating to commercial equipment used in the shelter is available in the respective commercial technical manuals listed in Appendix A and will not be repeated in this manual. Where applicable, the reader will be directed to refer to the appropriate commercial technical manual.

CHAPTER 2. OPERATING INSTRUCTIONS

SECTION I. DESCRIPTION AND USE OF OPERATOR'S

CONTROLS AND INDICATORS

2-1. DUPLICATOR CONTROLS AND INDICATORS. Refer to TM 5-3610-298-12&P for location and description of operator controls and indicators.

2-2. COLOR PRESS CONTROLS AND INDICATORS. Refer to TM 5-3610-298-12&P for location and description of operator controls and indicators.

2-3. PAPERCUTTER CONTROLS AND INDICATORS. Refer to TM 5-3610-300-12&P, Model 20 Papercutters for location and description of controls and indicators.

2-4. AIR CONDITIONER CONTROLS AND INDICATORS. Refer to TM 5-4120-378-14/24P (NSN 4120-01-136-2214) for location and description of air conditioner controls and indicators.

2-5. INTERIOR SHELTER CONTROLS AND INDICATORS.

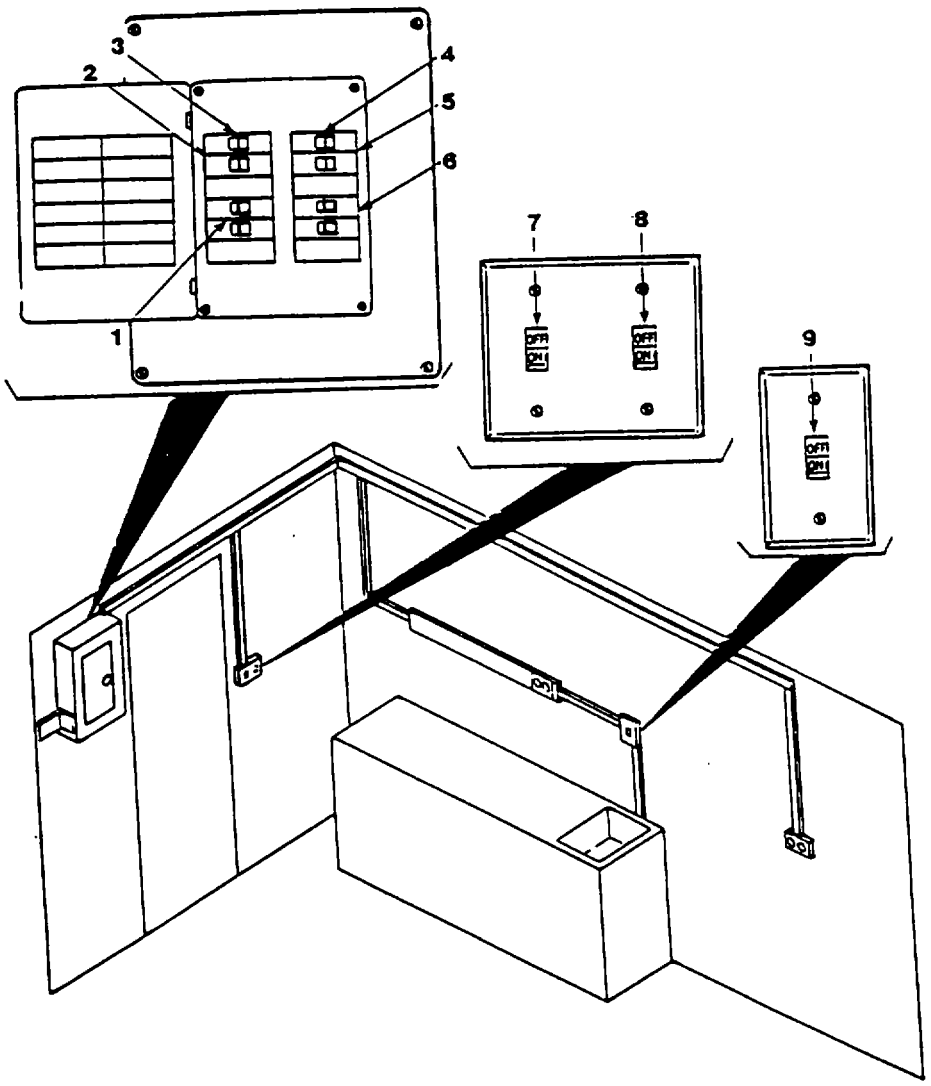


Figure 2-1. Interior Shelter Controls

2-5. INTERIOR SHELTER CONTROLS AND INDICATORS. - Continued

(a) Circuit Breaker (1) - A single pole 30 AMP breaker controlling power to curbside air conditioner.

(b) Circuit Breaker (2) - A single pole 15 AMP breaker controlling power to light circuits.

(c) Circuit Breaker (3) - A single pole 15 AMP breaker controlling power to curbside equipment receptacles.

(d) Circuit Breaker (4) - A single pole 15 AMP breaker controlling power to roadside equipment receptacles.

(e) Circuit Breaker (5) - A single pole 15 AMP breaker controlling power to blackout warning buzzer.

(f) Circuit Breaker (6) - A single pole 30 AMP breaker controlling power to roadside air conditioner.

(g) Light Switch (7) - ON-OFF control for curbside bank of fluorescent lamps.

(h) Light Switch (8) - ON-OFF control for roadside bank of fluorescent lamps.

(i) Water Pump Switch (9) - ON-OFF control for the water pump.

2-6. EXTERIOR SHELTER CONTROLS AND INDICATORS.

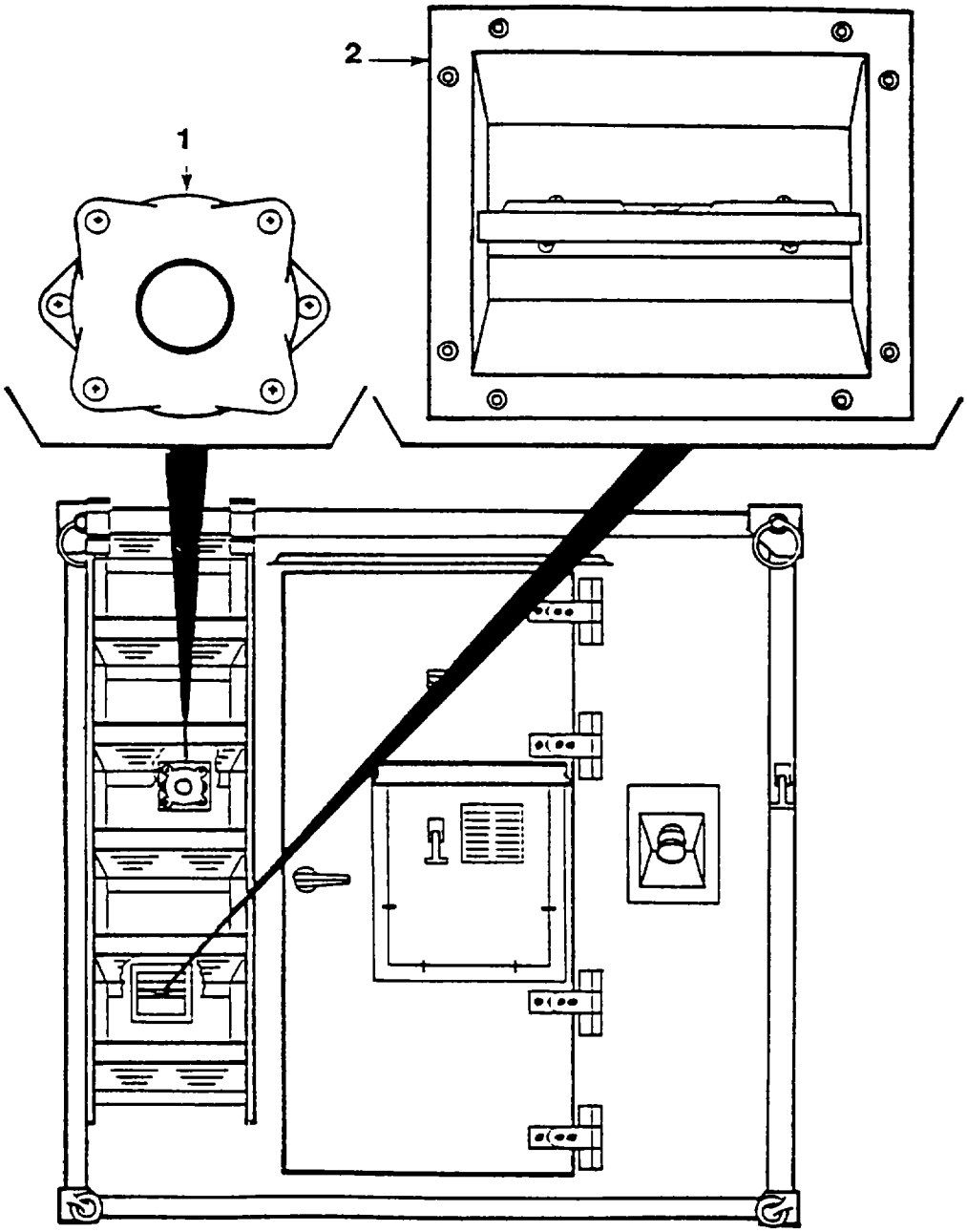


Figure 2-2. Exterior Shelter Controls and Indicators

2-6. EXTERIOR SHELTER CONTROLS AND INDICATORS. - Continued

(a) Blackout Warning Buzzer Switch. (1) - Used to warn personnel in shelter to turn off lights before the shelter door is opened during blackout.

(b) Level Indicator (2) - Used to level shelter during installation on uneven terrain.

SECTION II. OPERATOR PREVENTIVE MAINTENANCE

CHECKS AND SERVICES (PMCS)

2-7. INTRODUCTION.

a. General. Your Preventive Maintenance Checks and Services table lists the inspection and care of your equipment required to keep it in good operating condition.

(1) Before you operate. Always keep in mind the CAUTIONS and WARNINGS. Perform your BEFORE (B) PMCS.

(2) While you operate. Always keep in mind the CAUTIONS and WARNINGS. Perform your DURING (D) PMCS.

(3) After you operate. Be sure to perform your AFTER (A) PMCS.

(4) If your equipment fails to operate. If your equipment does not perform as required, refer to Chapter 3 under Troubleshooting for possible problems.

b. PMCS Columnar Entries.

(1) Item number column. This is the order in which you perform checks and services on the devices.

(2) Interval columns. The interval column of your PMCS table tells you when to do a certain check or service.

(3) Item to be inspected column. Identification of item to be inspected.

(4) Procedures column. The procedures column of your PMCS table tells you how to do the required checks and services. Carefully follow these instructions. If you do not have the tools, or if the procedure tells you to, have the next higher level of maintenance do the work.

(5) Equipment is not ready/available if: column. Entries in this column will be keyed specifically to checks listed in the "procedures" column for the purpose of identifying, for the check, the criteria that will cause the equipment to be classified as not ready/available because of inability to perform its primary Combat Mission. An entry in this column will:

- Identify conditions that make the equipment not ready/available for readiness reporting.
- Deny use of the equipment until corrective maintenance has been performed.

2-7. INTRODUCTION. - Continued

c. Special Instructions.

(1) Perform weekly as well as before operation PMCS if:

- You are the assigned operator and have not operated the item since the last weekly.
- You are operating the item for the first time.

(2) Leakage definitions for operator/crew PMCS shall be classified as follows:

Class I Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

Class II Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.

Class III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

CAUTION

Equipment operation is allowable with minor leakages (Class I or II). Of course, you must consider the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or II leaks, continue to check fluid levels as required in your PMCS.

Class III leaks should be reported to your supervisor.

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS)

WARNING

SHUT OFF generator engine before performing any maintenance to prevent possible electrical shock. If the engine must be run, make sure the area is well ventilated. The exhaust fumes contain poisonous carbon monoxide gas which can cause death.

NOTE

If the equipment must be kept in continuous operation, check and service only those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

2-7. INTRODUCTION. - Continued

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS)

NOTE

Within designated interval, these checks are to be performed in the order listed.

B - Before D - During A - After

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED PROCEDURE	Equipment is Not Ready/ Available If:
	B	D	A		
1	•			**Duplicating Machine**. Check connection of unit power cord, good character impression, and correct operation of unit. If necessary, service unit in accordance with TM 5-1610-298-12&P.	Plug missing or loose.
2		•		**Receding Stacker**. Check installation of unit and correct speed adjustment of paper truck. If necessary, adjust and service unit in accordance with TM 5-3610-298-12&P.	Stacker does not operate.
3	•	•		**Plunger Can.** Check operation of plunger-type dispenser can and fill to correct level with blanket wash (item 10, app E).	Dispenser can does not dispense blanket wash.

2-7. **INTRODUCTION**. - Continued

Table 2-1. Operator Preventive Maintenance Checks and Services (PMCS) (Cont.)

B - Before D - During A - After

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED PROCEDURE	Equipment is Not Ready/ Available If:
	B	D	A		
4	•		•	**Papercutter**. Check for smooth operation of unit. Check that knife blade produces a clean cut through paper stock. If necessary, remove and sharpen knife in accordance with TM 5-3610-300-12&P	Knife dulled or nicked.
5	•			Water System. Check that water tank is filled for smooth and leak-free operation of faucet.	Leaks in system.

SECTION III. OPERATION UNDER USUAL CONDITIONS

2-8. **ASSEMBLY AND PREPARATION FOR USE**.

a. Site Selection.

(1) Select a site where ground is firm, dry and has good drainage.

(2) Vehicle containing shelter must be parked on level ground.

(3) When used with the Modular Printing System (MPS), refer to TM 5-3610-294-13&P, Module C, Finishing Section.

b. Unloading Shelter. Refer to TM 10-5411-207-14

c. Grounding the Shelter. The Press Shelter is grounded to the power source through the main power cable. Be sure the power source is properly grounded.

d. Unpacking.

(1) Use care when unpacking any of the items of the Press Shelter.

(2) Remove tape seals which secure doors and other apertures.

(3) Remove tiedown straps which secure smaller items of equipment inside shelter.

(4) Remove paper or other packing material from cables, etc.

WARNING

DEATH or serious injury could result by repeated and/or prolonged breathing or skin contact with drycleaning solvent P-D-680. Use in a well-ventilated area. Do not use near open flame or in excessive heat. The flash point of this solvent is 100°F - 138°F (38°C - 59°C).

(5) Remove preservative compound from all unfinished metal surfaces with drycleaning solvent (19, Appendix E).

e. Checking Unpackaged Equipment.

(1) Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6, Packaging Improvement Report.

2-8. **ASSEMBLY AND PREPARATION FOR USE. - Continued**

e. Checking Unpackaged Equipment. - Continued

(2) Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA Pam 738-750.

f. Installation Instructions. The Press Shelter is installed for operation on the bed of a 2-1/2 ton cargo truck. The individual items of equipment in the Press Shelter are usually transported intact in their operating position and no installation procedures are deemed necessary.

g. Installing Boarding Ladder.

NOTE

This procedure is performed only if the shelter is to remain on the truck bed for operation.

(1) Unbuckle ladder mounting strap (1).

(2) Lift ladder (2) from mounting (3) on exterior wall.

(3) Insert holding brackets (4) on edge of tailgate (5).

(4) Attach hooks (6) of ladder stabilizers to underside lip of truck bed.

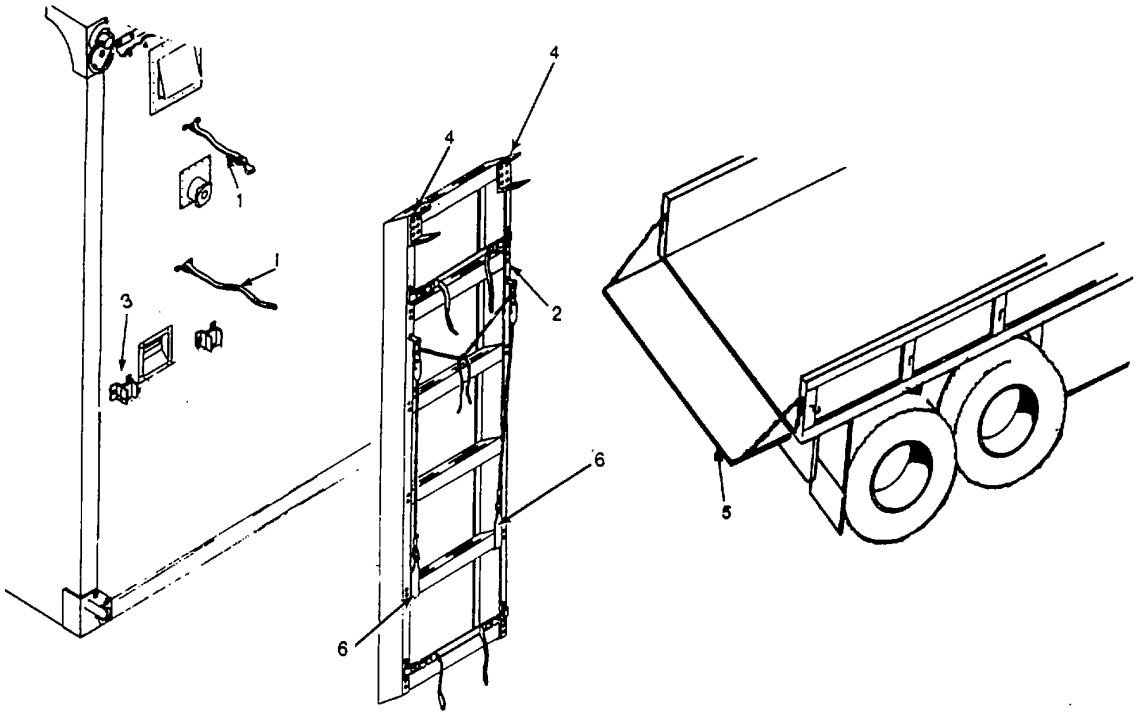


Figure 2-3. Installing Boarding Ladder

2-8. **ASSEMBLY AND PREPARATION FOR USE**. - Continued

h. Removing air conditioner covers.

(a) Release quick disconnect latches (1).

(b) Grasp handles (2) and remove covers (3).

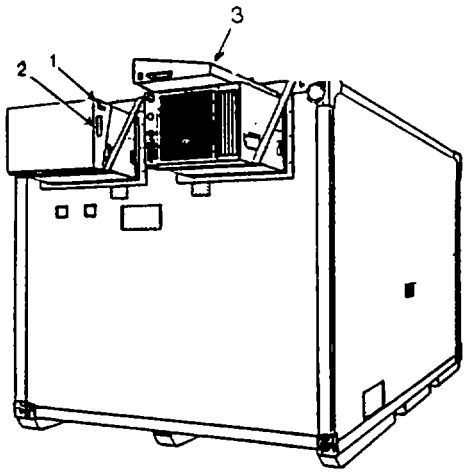


Figure 2-4. Removing Air Conditioner Covers

i. Installing Drain Hose.

(a) Remove exterior drain cap (quick disconnect)(1).

(b) Attach drainage hose (quick disconnect)(2).

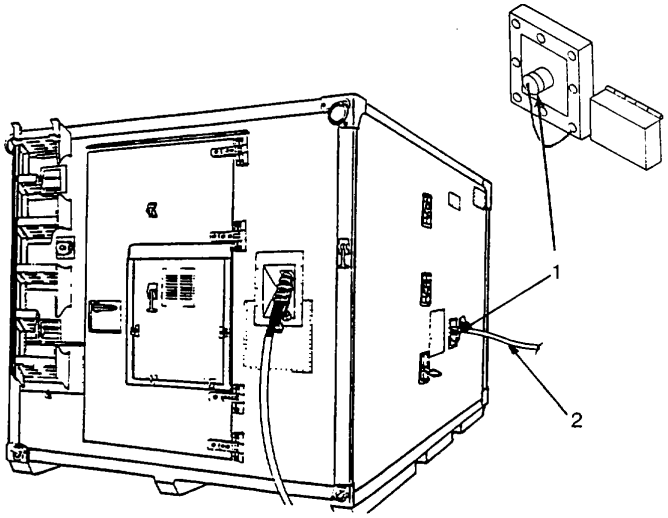


Figure 2-5. Installing Drain Hose

2-8. **ASSEMBLY AND PREPARATION FOR USE**. - Continued

j. Filling Water Tank.

(1) Connect hose to water tank connection on roadside exterior wall of shelter.

(2) Connect other end of hose to water source and fill water tank.

(3) Disconnect and stow hose.

k. Setting Up 15 KW Generator and Connecting Main Power Cable.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/ disconnected, that circuit breakers are set to OFF and that generator cables are unplugged/disconnected. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

(1) Setting Up Generator.

(a) Set all circuit breakers in main power service box to OFF.

(b) Install ground rod and connect ground wire to ground rod and shelter grounding point.

(c) Refer to generator TM 5-6115-464-12 for instruction on installation and operation of the generator.

WARNING

When used in conjunction with Modular Print System, only the Modular C supervisor is authorized to operate controls on the Power Distribution Box. Failure to follow these procedures can cause serious injury or DEATH.

(d) Connecting Main Power Cable to Shelter. Connect the 50 foot main power cable to the input power receptacle located near door of shelter prior to connecting cable to power source. Connect 6 foot pigtail connector to 50 foot power cable.

(1) The cable connector and receptacle are keyed to ensure proper connection.

2-8. **ASSEMBLY AND PREPARATION FOR USE**. - Continued

k. Setting Up 15 KW Generator and Connecting Main Power Cable. - Continued

(2) Connect the leads of the 6 foot power cable to the generator in accordance with the following color code:

L1 - black - Pin 1
L2 - red - Pin 3
Ground - green - Pin 4 (marked with blue band)
LO - white - Pin 2

1. Setting up Equipment. Plug the power cords of the individual items of equipment into the wall receptacles located near their operating positions. Specialized pre-operating instructions for individual items of equipment, where necessary, will be found in the respective technical/commercial equipment manuals provided with the shelter.

m. Prestart Procedure.

NOTE

Power to the shelter unit can be provided by commercial power or portable generator set.

(1) Set all circuit breakers in main power service box to OFF position.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/disconnected, that circuit breakers are set to OFF and that generator cables are unplugged/disconnected. Be sure that the generator/commercial power system is property grounded. Always have another person standing by who is familiar with electrical shock first aid.

(2) Connect the main power cable to the main power receptacle located near the door of the shelter, prior to connecting the cable to the power source. The cable connector and the receptacles are keyed to ensure proper connection.

(3) If setting up the Press Shelter for use with the Modular Printing System (MPS), refer to TM 5-3610-294-13&P for connection of the power cable to the power distribution box.

(4) Notify Module C supervisor that electrical connections are complete and power is required.

n. Start Procedure. Starting the System.

(1) Set all circuit breakers in the main power service box to ON.

2-8. **ASSEMBLY AND PREPARATION FOR USE**. - Continued

n. Start Procedure. - Continued.

(2) Set fluorescent light switches to on.

(3) Set the air conditioner controls for the desired mode of operation and temperature setting.

2-9. **PREPARATION FOR MOVEMENT AND STORAGE**.

a. Preparing Shelter for Movement.

(1) Drain water from water tank and water lines by opening petcock on water tank. Close petcock after draining.

(2) Store all minor components in proper storage cabinet.

(3) Be certain that loose equipment is fastened securely.

(4) Thoroughly clean and inspect all items of equipment to be certain they are in serviceable condition. Correct deficiencies or report them as stipulated in DA PAM 738750.

(5) Lubricate, inspect and clean shelter.

(6) Prepare duplicating machine for movement in accordance with TM 5-3610-298-12&P.

(7) Prepare papercutter for movement in accordance with TM 5-3610-300-12&P.

(8) Install and secure air conditioner covers.

(9) Stow and secure ladder.

(10) Remove and stow drain hose in proper location.

NOTE

While the Press Shelter is in limited storage, periodically perform a visual inspection of all items to discover any evidence of deterioration such as rust or leaks or any evidence of pilferage.

2-9. PREPARATION FOR MOVEMENT AND STORAGE. - Continued.

b. Shutdown Procedures.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/ disconnected, that circuit breakers are set to OFF and that generator cables are unplugged/disconnected. Be sure that the generator/commercial power system is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

(1) Set all equipment and shelter power switches to the off or neutral position.

(2) Set all circuit breakers in the main power service box to OFF.

(3) Notify Module C supervisor to set commercial power breaker to OFF or shut down the generator set power source in accordance with the applicable Department of the Army Technical Manual.

(4) Disconnect the main power cable from the generator power source.

(5) Disconnect the cable from the main power receptacle.

(6) Coil and correctly stow main power cable.

2-10. **OPERATING INSTRUCTIONS ON DECALS.**

a. Interior Decals and Data Plates. Figure 2-6 shows the location of operating instructions on decals.

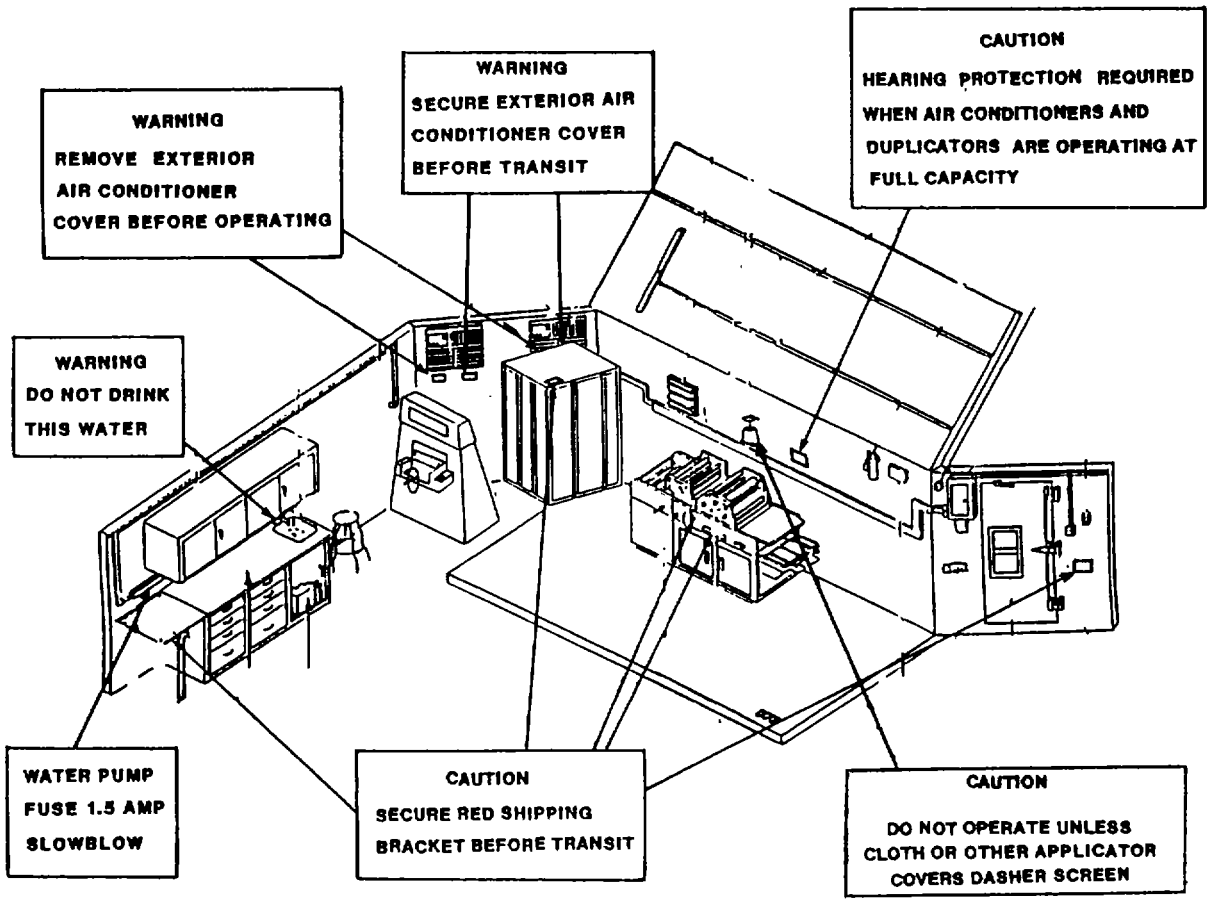


Figure 2-6. Operating Instructions on Decals and Data Plates

2-10. **OPERATING INSTRUCTIONS ON DECALS**. - Continued

b. Exterior Decals and Data Plates. Figure 2-7 identifies exterior decals and data plates.

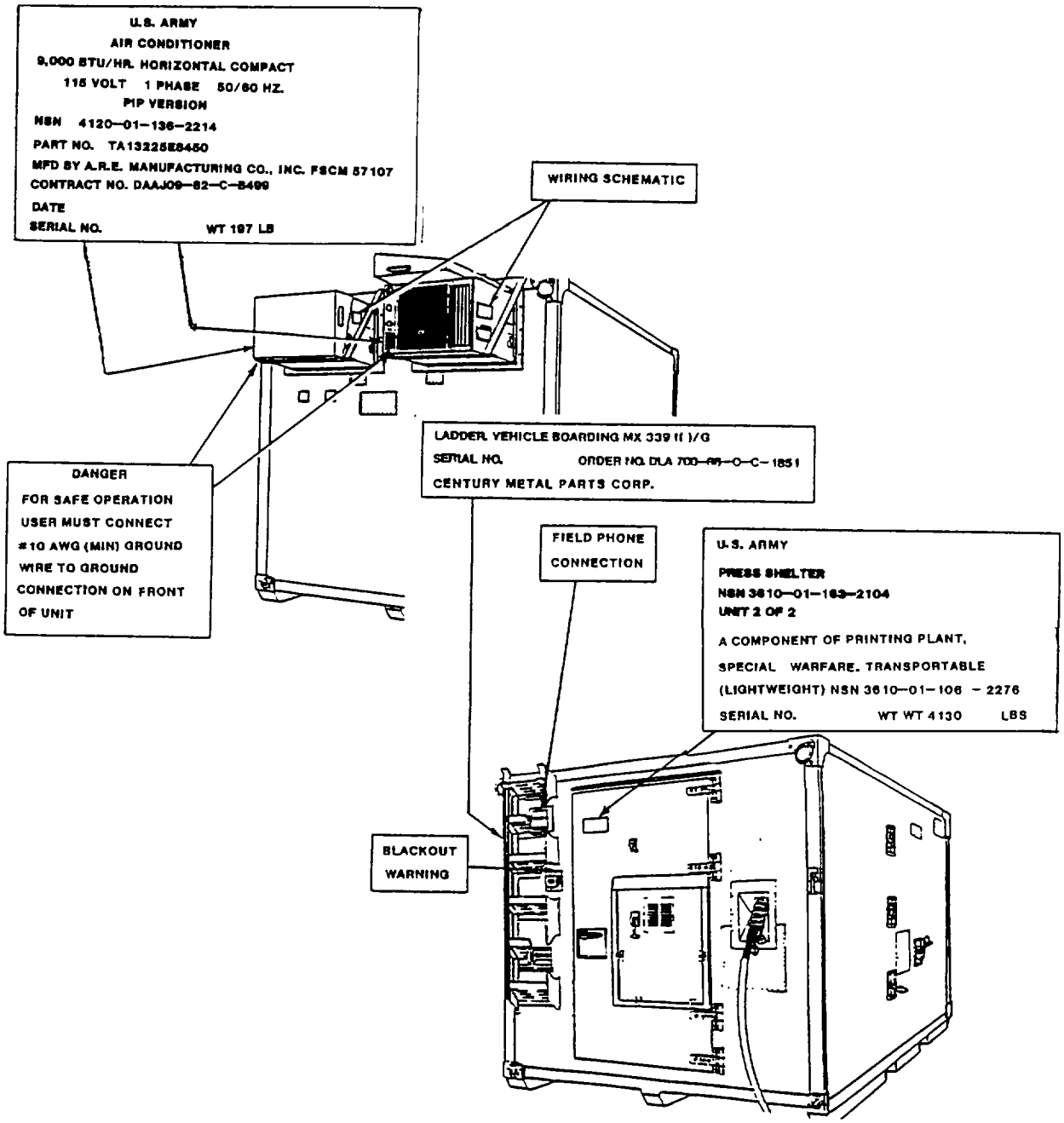


Figure 2-7. Exterior Decals and Data Plates

SECTION IV. OPERATION UNDER UNUSUAL CONDITIONS

2-11. **OPERATION UNDER UNUSUAL CONDITIONS**. Some of the unusual conditions that may be encountered are extreme cold, extreme heat, dust or sand, and rain or high humidity.

WARNING

In extreme cold, do not touch metal parts with bare hands. Severe skin damage may result.

a. Operation in Extreme Cold. The operation of the internal equipment is performed within environmentally controlled conditions; however, the main power cable and grounding cable in extreme cold will be hard, brittle and difficult to handle. Be careful when handling or connecting the cables to the shelter so that kinks and unnecessary loops will not result in permanent damage. Make certain that connections and cable receptacles on the outside of the shelter are free of frost, snow, and ice. When shelter heaters are not operating or when the shelter is being transported, liquid consumable supplies may freeze, break their containers, and then melt and ruin equipment or documents. Remove all liquids from shelter when heaters are not operating.

b. Operation in Extreme Heat. The operation of the internal equipment is performed within the environmentally controlled conditions; however, during transportation or when air-conditioning units are not operating, consumable supplies may suffer reduced shelf-life, and internal components may have accelerated deterioration of gaskets, seals, or insulation. Frequently inspect gaskets, seals, and insulation for deterioration.

c. Operation in Tropical Conditions. Fungi, mildew or mold will form on and in equipment, documents, and supplies if internal environment is not operating and outside heat and humidity are allowed to enter the shelter. Inspect equipment, documents, and supplies frequently for signs of fungi, mildew, or mold.

d. Operation in Desert Conditions. Dust, grit and sand will ruin supplies, equipment, and documents. Use extreme care to prevent dust, grit, and sand from getting into the shelter. Air filters will be changed whenever air flow is restricted and vacuuming of shelter interior must be conducted more frequently than specified by PMCS schedules.

CHAPTER 3. OPERATOR/CREW MAINTENANCE

SECTION I. LUBRICATION INSTRUCTIONS

3-1. **GENERAL**. This section contains lubrication instructions for the press shelter unit of the special warfare printing plant.

3-2. **DETAILED LUBRICATION INFORMATION.**

a. Keep all lubricants in closed containers and store in a clean, dry place away from external heat. Do not allow dust, dirt, or other foreign material to mix with the lubricants. Keep all lubrication equipment clean and ready for use.

b. Keep all external parts not requiring lubrication clean of lubricants. Before lubricating the equipment, wipe all lubrication points free of dirt and grease. Wipe all lubrication points after lubricating to prevent accumulation of foreign matter.

c. Lubricate the door hinges and handles of the press shelter with a few drops of lubricating oil (item 38, app E) monthly or if binding occurs during operation.

d. Consult the commercial instruction or Technical Manuals for recommended lubrication of the different components of the press shelter.

SECTION II. TROUBLESHOOTING PROCEDURES

3-3. **GENERAL**.

a. If you suspect a problem, you should first verify that the PRESTART PROCEDURE in paragraph 2-8 has been performed before continuing with OPERATOR TROUBLESHOOTING in table 3-1.

b. The common malfunctions which you may encounter during operation or maintenance of the components of the press shelter are listed in table 3-1, OPERATOR TROUBLESHOOTING. You should perform the tests, inspections, and corrective actions in the order listed.

c. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions possible. If a malfunction is not listed or is not corrected by listed corrective actions in this manual, refer to the appropriate commercial or Technical Manual. If at this point you cannot correct the malfunction, notify your supervisor.

d. Refer to table 3-1 for troubleshooting information and procedures applicable to the press shelter system and components. Any trouble the operating crew is not authorized to correct should be reported to the maintenance category indicated in the Maintenance Allocation Chart (MAC).

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/disconnected, that circuit breakers are set to OFF, and that cables are unplugged/disconnected. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

3-3. **GENERAL**. - Continued

Table 3-1. Operator Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

NO ELECTRICAL POWER TO SHELTER SYSTEM.

WARNING

The 15 KW generator must be shut down or the main circuit breaker on power distribution box must be in the OFF position before connecting main power cable. Failure to do so may result in DEATH or serious injury.

When used with the Modular Printing System, to ensure safety of operator, only the Module C supervisor is authorized to operate controls of the power distribution box.

CAUTION

Connect the primary power cable to the input power receptacle located near the door of the shelter. The cable connector and the receptacles are keyed to ensure proper connection.

Step 1. Check that the main power cable is correctly connected at main power receptacle.

Step 2. When used with the Modular Printing System, check to see if the main power cable is properly connected at power distribution box. Request Module C supervisor verify connection and operation of the power distribution box.

Step 3. Inspect to see that the generator is operating properly.

Start the 15 KW power plant in accordance with TM 5-6115-464-14&P or TM 5-6115-625-14&P.

2. **NO ELECTRICAL POWER AT EQUIPMENT RECEPTACLES.**

Step 1. Check to see if applicable circuit breaker is in the ON position.

Set applicable circuit breaker to ON.

3-3. **GENERAL**. - Continued

Table 3-1. Operator Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

3. **DUPLICATING MACHINE DOES NOT START** .

Step 1. Check to see if the plug is out of wall receptacle.

Plug into wall receptacle.

Step 2. Check to see if a safety interlock switch is open.

Be sure all interlocked covers and door are latched.

Refer to TM 5-3610-298-12&P.

Step 3. Check to see if a safeguard cover is out of place.

Reposition all safeguard covers.

Refer to TM 5-3610-298-12&P.

4. **IMAGE ON MASTER WEARING OR BREAKING DOWN** .

Check to see if the form roller-to-master or master-to-blanket pressure is too heavy.

Set pressure correctly in accordance with TM 5-3610-298-12&P.

5. **DUPLICATION MATERIAL PASSING FROM DUPLICATING MACHINE AT TOO GREAT A RATE FOR RECEDING STACKER.**

Check that stacker paper truck lowering speed corresponds to the raising speed of the paper feeder magazine.

Adjust paper truck lowering speed in accordance with TM 5-3610-298-12&P.

6. DUPLICATING MACHINE NOT PRODUCING GOOD COPY.

Check for incorrect impression-to-blanket cylinders adjustment.

Adjust cylinder pressure in accordance with TM 5-3610-298-12&P.

3-3. **GENERAL**. - Continued

Table 3-1. Operator Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
7. **DUPLICATING SHEETS STICKING TOGETHER**.
Step 1. Check to see if the ink is drying too slowly.
Use proper ink for application.
Step 2. Check to see if the ink is too heavy.
Reduce ink feed-rate setting in accordance with TM 5-3610-298-12&P.
8. **POOR SECOND COLOR COPY QUALITY**.
Step 1. Check for incorrect color press ink flow or water flow.
Adjust ink flow or water flow in accordance with TM 5-3610-298-12&P.
Step 2. Check for incorrect plate to blanket pressure.
Adjust color press cylinder pressures in accordance with TM 5-3610-298-12&P.
9. **PAPERCUTTER KNIFE STOPS IN PAPER STOCK**.
Carefully check for burrs on knife cutting edge.
Refer to TM 5-3610-300-12&P for removal and sharpening procedures.

SECTION III. OPERATOR MAINTENANCE PROCEDURES

3-4. **GENERAL**. Operator maintenance is limited to servicing and secondary type maintenance on the commercial equipment. These service and maintenance procedures are outlined in the commercial or Technical Manual supplied with the various items of equipment.

CHAPTER 4. UNIT MAINTENANCE

SECTION I. UNIT LUBRICATION INSTRUCTIONS

4-1. **GENERAL**. There are no lubrication procedures performed by unit maintenance. All routine lubrication of Printing Plant, Special Warfare, Transportable is performed by the operator. See Chapter 3, Section I for operator lubrication instructions.

SECTION II. REPAIR PARTS, SPECIAL TOOLS,

TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE), AND SUPPORT EQUIPMENT

4-2. **COMMON TOOLS AND EQUIPMENT**.

For authorized common tools and equipment, refer to Appendix B, Section III, or to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

4-3. **SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT**. No special tools, TMDE, or support equipment are required by Unit Maintenance for the maintenance of the Press Shelter.

4-4. **REPAIR PARTS**. Repair parts are listed and illustrated in Appendix F of this manual. Repair parts required for maintenance of the various items of equipment which form a part of the shelter system are defined in the applicable commercial or Technical Manual supplied with each unit.

SECTION III. SERVICE UPON RECEIPT OF EQUIPMENT

4-5. **SETUP OF SHELTER**. Refer to Chapter 2, paragraph 2-8 for setup procedures.

4-6. **SHELTER INVENTORY CHECK**. Refer to TM-10-5411-207-14 for general shelter inventory checks.

4-7. **PRESS SHELTER INSPECTION CHECKLIST**.

a. Shelter Checklist. Refer to TM-10-5411-207-14 for shelter inspection checklist.

b. Press Shelter Checklist. Table 4-1 below lists items in the Press Shelter that must be checked and the action required.

Table 4-1. Press Shelter Checklist

ITEM	ACTION
1. Duplicator	Check housing and operator controls and indicators for damage.
2. Color Press	Inspect Housing, rollers and operator controls and indicators for damage.
3. Papercutter	Check housing and operator controls and indicators for damage.
4. Air Conditioner	Check controls and indicators for damage.

SECTION IV. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

4-8. **GENERAL**. Unit preventive maintenance checks and services are listed in table 4-2. Inspection intervals are indicated by a black dot in the appropriate column. If your equipment fails to operate, troubleshoot with proper equipment. Report any deficiencies using the proper forms, see DA PAM 738-750. If you find a faulty condition that you are not authorized to correct, notify the next level of maintenance.

4-8. **GENERAL. -** Continued

Table 4-2. Unit Preventive Maintenance Checks and Services

M - Monthly Q - Quarterly S - Semiannually

Item No.	Interval			Item Inspected	Procedure
	M	Q	S		
1	•			Duplicating Machine, Color Press	Inspect duplicating machine, color press as follows: a. Inspect frame and cover for dents, cracks and other signs of structural damage. b. Check for chipped paint and for signs of environmental damage. c. Inspect controls and indicators for ease of operation and security of installation. d. Inspect color press for correct operation and security of installation. If inspection indicates that replacement of duplicating machine, color press is necessary, refer to paragraph 4-12.
2	•			Plunger Can Assembly	Inspect solvent dispenser plunger can for damage end evidence of leaks. If necessary, replace dispenser can as described in paragraph 4-13.
3	•			Storage Cabinet Assembly	Inspect storage cabinet for security of mounting and for damages to cabinet. Inspect handle for ease of operation. If necessary, replace as described in paragraph 4-14.

4-8. **GENERAL.** - Continued

Table 4-2. Unit Preventive Maintenance Checks and Services - Continued

M - Monthly Q - Quarterly S - Semiannually

Item No.	Interval M	Q	S	Item Inspected	Procedure
4	•			Papercutter Assembly	Inspect papercutter assembly as follows: a. Inspect for worn, cracked or frayed power cord. b. Inspect papercutter assembly for security of mounting. **CAUTION** Knife is sharp, use extreme care in handling to avoid Injury. c. Inspect papercutter knife for burrs on cutting edge. If inspection indicates that replacement is necessary, refer to TM 5-3610-300-12&P ALP.
5	•			Stool Hold down Assembly	Inspect retaining strap for frayed, torn or decayed fabric. Inspect buckle for damages. If necessary, replace as described in paragraph 4-15.
6	•			Storage Bench Cabinet Assembly	Inspect storage bench assembly cabinet for dents, cracks and signs of structural damage. Inspect drawer handles for security of mounting and operation. Inspect drawers for ease of movement. If necessary, repair as described in paragraph 4-16.
7	•			Water Supply Cabinet Assembly	Inspect water supply cabinet for dents, cracks and security. Inspect doors and door hinges for ease of operation and proper closing. Inspect door latch for operation and security of mounting. If necessary, repair as described in paragraph 4-17.

4-8. **GENERAL**. - Continued

M - Monthly Q - Quarterly S - Semiannually

Item	Interval			Item Inspected	Procedure
No.	M	Q	S		
8	•			Water Tank and Mounting Assembly	Inspect water tank for breaks or separation of seams. Inspect water pump for proper operation. Inspect water tank mounting for security. Inspect water tubing for breaks and proper connections. If necessary, replace or repair as described in paragraph 4-18.
9	•			Countertop and Sink Assembly	Inspect sink shield for dents, deep scratches burrs, corrosion and security of mounting. Inspect sink faucet for proper operation. If necessary, replace or repair as described in paragraph 4-19.
10	•			Wall Cabinet Assembly	Inspect wall cabinet for security of mounting. Inspect handles and latching mechanisms for security and proper operation. If necessary, replace or repair as described in paragraph 4-20.
11	•			Air Conditioner Assembly	Inspect air conditioner for security of mounting. If necessary, replace as described in paragraph 4-21.
12	•			Fire Extinguisher Assembly	Inspect fire extinguisher for security of mounting. If necessary, replace as described in paragraph 4-22.
13	•			First Aid Kit Assembly	Inspect mounting assembly for security. Inspect first aid kit for contents and condition If necessary, replace as described in paragraph 4-23.

4-8. **GENERAL**. - Continued

Table 4-2. Unit Preventive Maintenance Checks and Services - Continued

M - Monthly Q - Quarterly S - Semiannually

Item	Interval			Item Inspected	Procedure
No.	M	Q	S		
14	•			Blackout Warning Assembly	Inspect warning buzzer for proper operation. Inspect pushbutton switch for ease of operation and security of mounting. If necessary, replace as described in paragraph 4-24.
15	•			Door Blackout Lockpin Assembly	Inspect door blackout lockpin assembly for security of mounting. Inspect pin and cable for damages. If necessary, replace as described in paragraph 4-25.
16	•			Door Fresh Air Filter Assembly	Inspect door fresh air filter assembly for damage and security of mounting. Inspect filter for cuts, dirt, tears or other damage. If necessary, replace door fresh air filter assembly as described in paragraph 4-26.
17	•			Ladder Assembly	Inspect ladder assembly for completeness and security of mounting. Inspect ladder for dents, cracks or other damage. Inspect fastener assembly for security of mounting and condition. If necessary, replace as described in paragraph 4-27.
18	•			Telephone Binding Post Assembly	Inspect cover for damage and ease of movement. Inspect binding posts for proper operation. Inspect telephone binding post assembly for damage and security of mounting. If necessary, replace or repair as described in paragraph 4-28.
19	•			Level Indicator Assembly	Inspect level indicator assembly for security of mounting, completeness and damage. If necessary, replace as described in paragraph 4-29.

4-8. **GENERAL**. - Continued

Table 4-2. Unit Preventive Maintenance Checks and Services - Continued

M - Monthly Q - Quarterly S - Semiannually

Item	Interval			Item Inspected	Procedure
No.	M	Q	S		
20	•			Ceiling Lamp Assembly	Inspect ceiling lamp assembly for security of mounting. Inspect lamps for discoloration or failure. Inspect starters and ballasts for proper operation. Inspect switches for proper operation. Inspect wiring for bare conductors, frays or breaks. If necessary, repair or replace as described in paragraph 4-30.
21	•			Lamp and Waterpump Switch Assembly	Inspect lamp and waterpump switches for proper operation, loose connections and excessive wear. Inspect switch covers for Security of mounting. If necessary, replace as described in paragraph 4-31.
22	•			Equipment Receptacle Assemblies	Inspect equipment receptacle assemblies for damages and security of mounting. Inspect wiring for proper connection and signs of damage. If necessary, replace as described in paragraph 4-32.
23	•			Gun Rack Assembly	Inspect gun rack assembly for completeness, damage and security of mounting. If necessary, replace or repair as described in paragraph 4-33.
24	•			Roller Rack Assembly	Inspect roller rack assembly for security of mounting. Inspect thumbscrews for condition and ease of movement. Inspect roller rack for damages. If necessary, replace as described in paragraph 4-35.
25	•			Telephone Bracket Assembly	Inspect telephone bracket for completeness and security of mounting. If inspection indicates that replacement is necessary, refer to paragraph 4-34.

SECTION V. UNIT TROUBLESHOOTING

4-9. **GENERAL.** This section contains unit troubleshooting information for locating and correcting common malfunctions which may develop in the press shelter.

WARNING

The press contains voltages that are dangerous if contacted. When troubleshooting, observe all safety warnings and precautions. Make sure power is disconnected before replacing or repairing electrical components. Failure to do so may result in serious electrical shock or death.

If you suspect a press shelter problem, you should first verify that the PRESTART PROCEDURE in paragraph 2-8 had been performed before continuing with UNIT TROUBLESHOOTING in table 4-3. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions possible. If a malfunction is not listed or not corrected by listed corrective actions in this manual, then refer to commercial or Technical Manual. If at this point you cannot correct the malfunction, notify your supervisor.

4-10. **UNIT TROUBLESHOOTING**. Table 4-3 lists the common malfunctions which you may find during operation or maintenance of the press shelter or its components. You should perform the tests or inspections and corrective actions in the order listed.

NOTE

Before you use this table, be sure you have performed all applicable Operator and Unite Preventive Maintenance Checks and Services (PMCS).

4-10. **UNIT TROUBLESHOOTING**. - Continued

TABLE 4-3. UNIT TROUBLESHOOTING

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. DUPLICATING MACHINE, COLOR PRESS ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Check mounting assembly for security and loose or missing hardware.

Mount assembly. (See paragraph 4-12)

Step 2. Check duplicating machine, color press for proper operation.

Repair as necessary. (See TM 5-3610-298-12&P)

2. PLUNGER CAN ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Check mounting assembly for security and loose or missing hardware.

Mount plunger can assembly. (See paragraph 4-13)

Step 2. Check plunger can assembly for damages.

Replace plunger can assembly. (See paragraph 4-13)

3. PAPERCUTTER ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Check mounting assembly for security and loose or missing hardware.

Tighten loose hardware or replace missing hardware.

Step 2. Check papercutter for proper operation.

Repair papercutter. (TM 5-3610-300-12&P)

4-10. **UNIT TROUBLESHOOTING**. - Continued

TABLE 4-3. UNIT TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

4. WATER TANK AND MOUNTING ASSEMBLY DO NOT OPERATE PROPERLY.

Step 1. Check for blown water pump fuse.

NOTE

Fuse is located in the underside of the wire raceway above the storage bench. Check/replace as follows:

a. Push in on fuse holder; turn 1/4 turn counterclockwise and remove holder and fuse.

b. Remove fuse from holder and inspect for a blown element.

c. Install replacement fuse in holder and install in raceway by pushing in and turn 1/4 turn clockwise to lock in place.

Step 2. Inspect water pump for security, correct electrical connection, water level, and proper operation.

Plug in pump.
Fill water tank.
Replace water pump. (See paragraph 4-18b.)

Step 3. Inspect tubing for breaks and proper connection.

Replace tubing. (See paragraph 4-18b.)

4-10. **UNIT TROUBLESHOOTING**. - Continued

TABLE 4-3. UNIT TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

5. AIR CONDITIONER ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Inspect air conditioner for proper operation.

Refer to TM 5-4120-378-14.

Replace air conditioner. (See paragraph 4-21b.)

6. BLACKOUT WARNING ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Check blackout assembly switch for proper operation.

Replace switch. (See paragraph 4-24b.)

Step 2. Check warning buzzer for proper operation.

Replace warning buzzer. (See paragraph 4-24b.)

7. CEILING LAMP ASSEMBLY DOES NOT OPERATE PROPERLY.

Step 1. Inspect lamp assembly for security of mounting.

Mount lamp assembly. (See paragraph 4-30b.)

Step 2. Inspect fluorescent tubes for discoloration or failure.

Replace fluorescent tubes. (See paragraph 4-30b.)

Step 3. Check lamp assembly tube sockets for damage and ability to hold tubes securely.

Replace lamp assembly. (See paragraph 4-30b.)

4-10. **UNIT TROUBLESHOOTING**. - Continued

TABLE 4-3. UNIT TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
7. CEILING LAMP ASSEMBLY DOES NOT OPERATE PROPERLY.
Step 4. Inspect starter for proper operation.
Replace starter. (See paragraph 4-30b.)
Step 5. Inspect lamp assembly wiring for bared conductors and for cut, chafed or brittle insulation.
Replace wiring. (See paragraph 4-30b.)

SECTION VI. UNIT MAINTENANCE PROCEDURES

4-11. GENERAL. This section contains unit maintenance procedures. Perform all preventive maintenance and operator maintenance before performing unit maintenance procedures. Numbers in parenthesis ( ) after component or item discussed in paragraphs below refer to callouts in corresponding figures.

4-12. DUPLICATING MACHINE, MODIFICATIONS.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-1.)

(1) Inspect duplicating machine modifications for general condition and security of mounting.

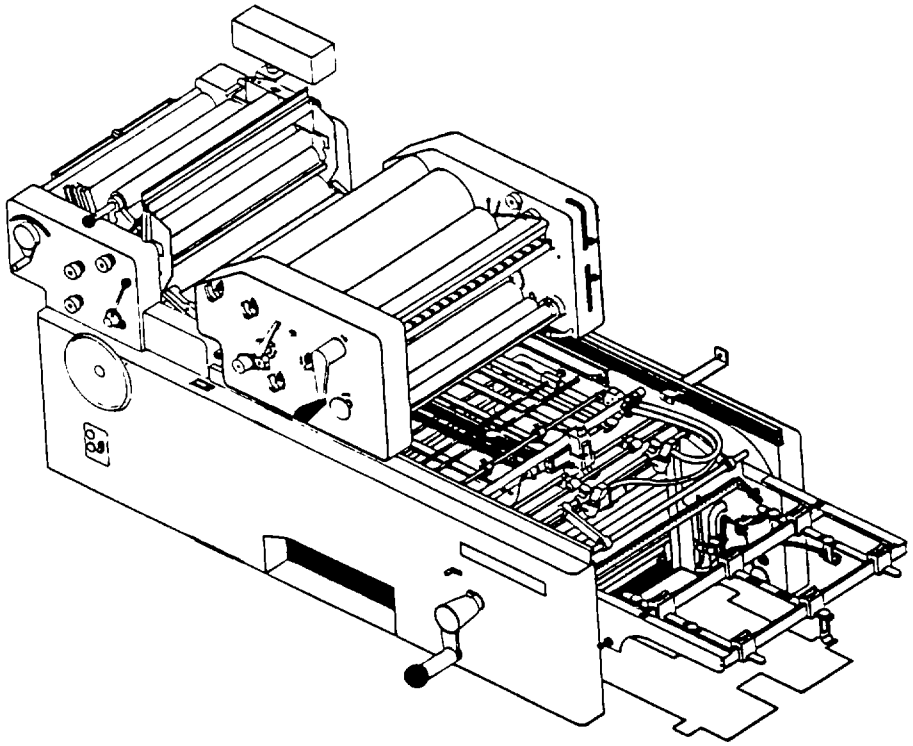


Figure 4-1. Duplicating Machine, Modifications

4-12. DUPLICATING MACHINE, MODIFICATIONS. - Continued

b. Replace. (See Figure 4-2.)

NOTE

Duplicating machine has been modified. Water bottle has been installed on bracket located on curbside wall of shelter.

(1) Color Press. Refer to TM 5-3610-298-12&P for complete removal and replacement procedures.

(2) Water Bottle.

(a) Remove water bottle (1) from reservoir (2).

(b) Disconnect reservoir hose (3) from duplicating machine (4).

(c) Loosen reservoir mounting screw (5) and remove washer (6) and spring (7) and reservoir (2).

(d) Remove bolts (8), lockwashers (9), flat washers (10), and mounting bracket (11) on curbside shelter wall.

(e) Install mounting bracket (11) on curbside shelter wall and secure with flat washers (10), lockwashers (9), and bolts (8).

(f) Install reservoir (2) on mounting bracket (11) and secure with spring (7), washer (6), and screw (5).

(g) Connect reservoir hose (3) to duplicating machine (4).

(h) Install water bottle (1) on reservoir (2).

4-12. DUPLICATING MACHINE, MODIFICATIONS. - Continued

b. Replace. (See Figure 4-2.)

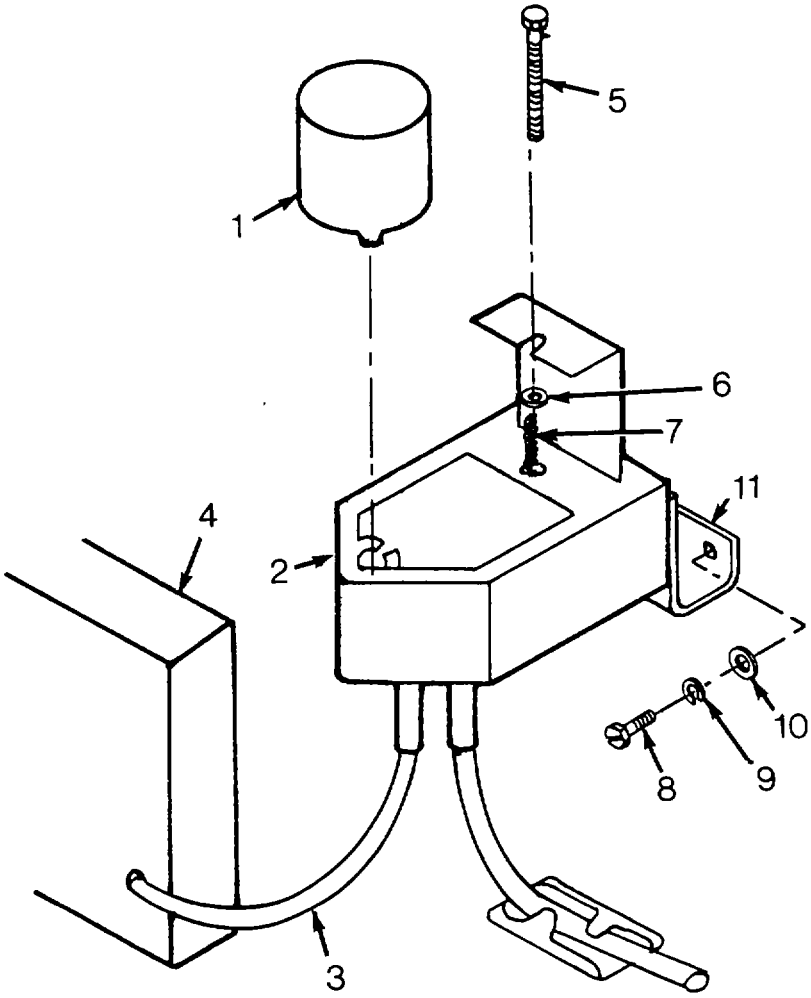


Figure 4-2. Water Bottle Installation

4-13. PLUNGER CAN ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect.

(1) Inspect plunger can for evidence of leaking.

(2) Inspect mounting bracket for security of mounting.

b. Replace. (See Figure 4-3.)

NOTE

Take care that no solvent is spilled.

(1) Loosen worm drive screw (1) and remove plunger can (2) from support clamp strap (3). Take care that any solvent in can is not spilled.

(2) Remove screws (4), lockwashers (5), clamp strap (3), and mounting bracket (6).

(3) Position mounting bracket (6) on wall so mounting holes align with mounting marks.

(4) Secure mounting bracket (6) and clamp strap (3) to wall with lockwashers (5) and screws (4).

(5) Position plunger can (2) on mounting bracket (6) and tighten worm drive screw (1).

4-13. PLUNGER CAN ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-3.)

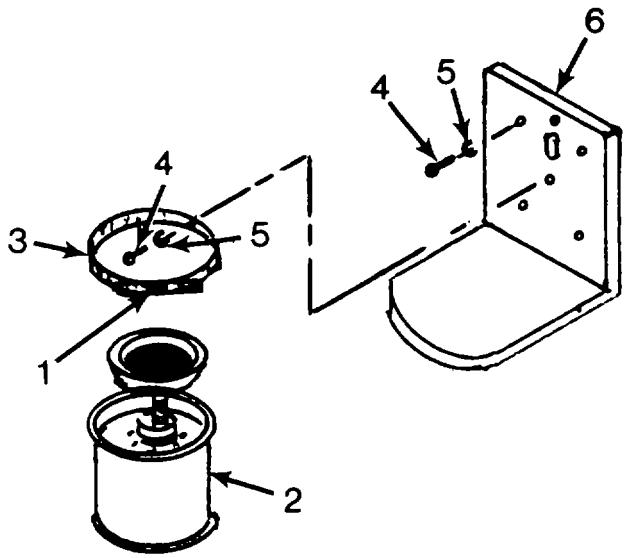


Figure 4-3. Plunger Can Assembly

4-14. STORAGE CABINET ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-4.)

(1) Inspect storage cabinet in interior front of shelter for dents, cracks in frame and chips in top. Inspection and maintenance instructions are identical for both cabinets.

(2) Inspect welded areas of storage cabinet for breaks or separation of welded seams.

4-14. STORAGE CABINET ASSEMBLY. - Continued

a. Inspect. - Continued (See Figure 4-4.)

(3) Inspect storage cabinet paintwork for signs of peeling or cracking.

(4) Inspect storage cabinet assembly for security of mounting.

b. Replace.

(1) Remove contents of storage cabinet (4).

(2) Remove bolts (1), lockwashers (2), and flat washers (3), from shelter walls and floor.

(3) Remove storage cabinet (4).

(4) Position storage cabinet (4) against interior shelter wall and align cabinet mounting holes with holes in wall.

(5) Install bolts (1), lockwashers (2), and flat washers (3) in storage cabinet (4).

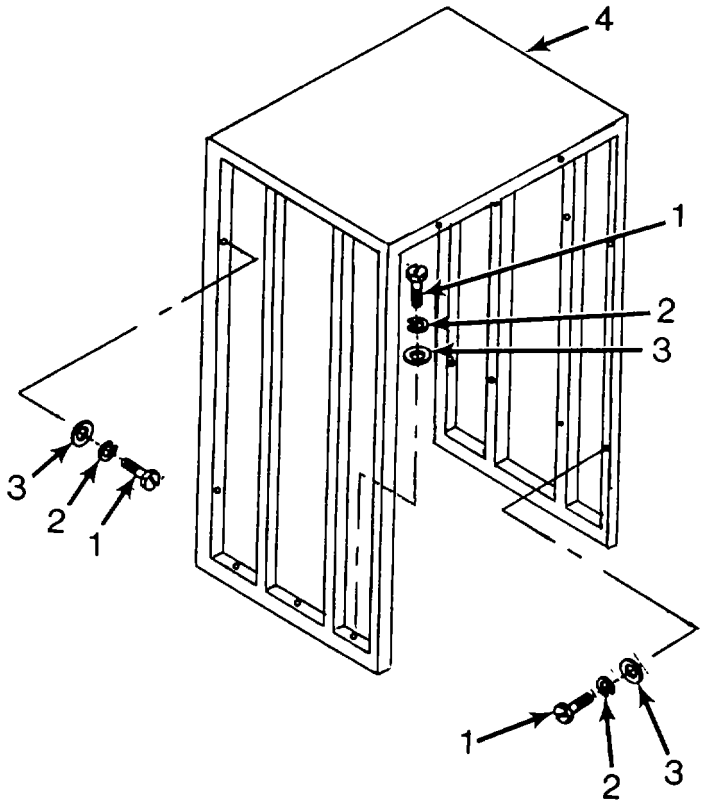


Figure 4-4. Storage Cabinet Assembly

4-15. STOOL HOLDDOWN ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive kit

Materials
Strap and buckle assembly

a. Inspect. (See Figure 4-5.)

(1) Inspect webbing of strap assemblies (3) on roadside shelter wall for wear, frayed sewing, and decayed fabric.

(2) Inspect fastener loops (2) for secure mounting to roadside shelter wall.

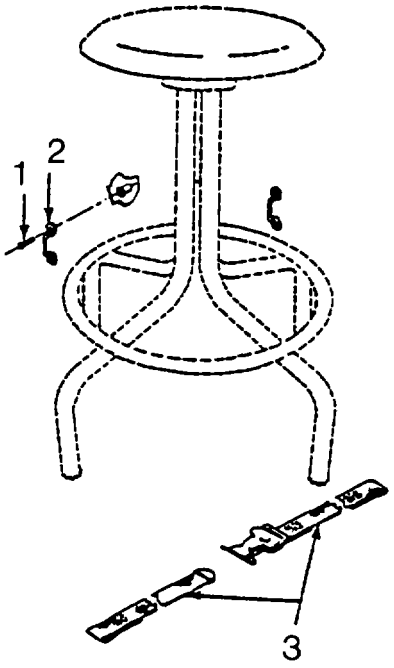


Figure 4-5. Stool Holddown Assembly

4-15. STOOL HOLDDOWN ASSEMBLY. - Continued

b. Replace. (See Figure 4-5.)

(1) Remove screws (1) and fastener loops (2).

(2) Remove fastener loops (2) from strap assemblies (3).

(3) Install fastener loops (2) into loops of the strap assembly (3).

(4) Install and secure fastener loops (2) to shelter wall with screws (1).

4-16. STORAGE BENCH CABINET ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect.

(1) Inspect storage bench cabinet for dents and cracks.

(2) Inspect welded areas of storage benches for breaks or separation of welded seam.

(3) Inspect storage bench drawer handles for security of installation and damage.

(4) Inspect storage benches paintwork for any signs of peeling or cracking.

(5) Inspect cabinet assemblies for security of mounting.

(6) Inspect storage bench drawers for ease of movement.

(7) Inspect storage bench drawer for missing or knurled locking knobs and for correct operation.

4-16. STORAGE BENCH CABINET ASSEMBLY. - Continued

b. Replace Drawer Parts. (See Figure 4-6.)

(1) Remove screws (1), washers (2), and handle (3) from drawer (4).

(2) Remove retainer clip (5) from drawer (4).

(3) Remove spring washer (6) and flat washer (7) from drawer (4).

(4) Remove knob (8), locking lever (9), and spring (10) from drawer (4).

(5) Remove rivets (11) and bracket (12) from drawer (4) by drilling or cutting off head and remove bracket. Remove only if necessary.

(6) Remove screw (13), flat washer (14), and nut (15) from drawer (4).

(7) Remove stop latches (16) from drawer (4).

(8) Position stop latches (16) on drawer (4).

(9) Install screw (13), flat washer (14), on drawer and tighten nut (15).

(10) Position bracket (12) on drawer (4).

(11) Install rivets (11) on drawer (4).

(12) Insert knob (8) in drawer panel hole.

(13) Position spring (10) and locking lever (9) onto shaft of knob (8).

(14) Push knob (8) through rear guide hole of bracket (12).

(15) Install flat washer (7), spring washer (6), and retainer clip (5) on shaft of knob (8).

(16) Position handle (3) on front of drawer (4).

(17) Install screws (1) and washers (2) and tighten screws.

4-16. STORAGE BENCH CABINET ASSEMBLY. - Continued

c. Repair.

(1) Hammer out dents to straighten drawers, door, and cabinet panels.

(2) Straighten drawer runners.

(3) Clean drawers and lubricate if necessary.

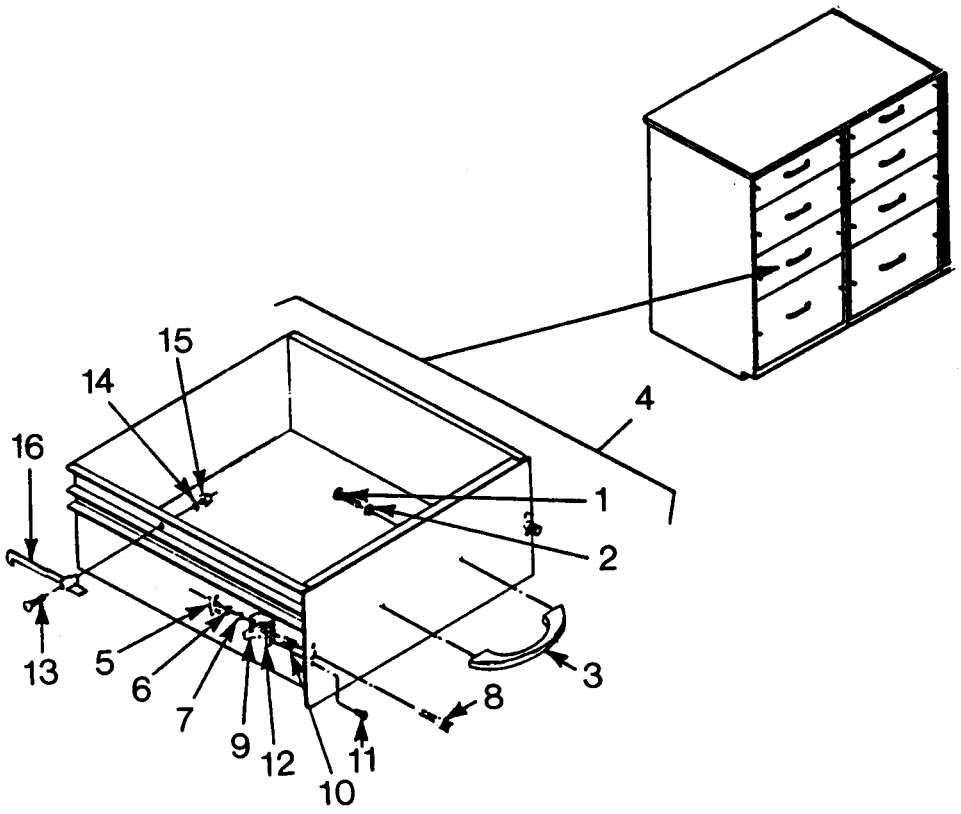


Figure 4-6. Storage Bench

4-17. WATER SUPPLY CABINET ASSEMBLY.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
Teflon Tape (49, Appendix E)

a. Inspect.

(1) Inspect water supply cabinet for dents, cracks, and security of mounting.

(2) Inspect water supply cabinet welding for breaks or separation of seams.

(3) Inspect doors and door hinges for ease of operation and proper closing.

(4) Inspect door handle and latching mechanism for ease of operation and ability to secure doors.

b. Repair.

(1) Remove water supply cabinet dents and straighten door and panels.

(2) Repair breaks and separation of seams by minor welding.

(3) Remove door handle assembly (1, Figure 4-7) by removing nuts (2) and retainer plate (3).

(4) Remove rods (4) and backing plate (5).

(5) Remove bolts (6), star washers (7), and door handle assembly (1).

(6) Install replacement door handle assembly (1) and secure with star washers (7) and bolts (6).

(7) Install backing plate (5), rods (4), retainer plate (3) and secure with nuts (2).

4-17. WATER SUPPLY CABINET ASSEMBLY. - Continued

b. Repair. - Continued

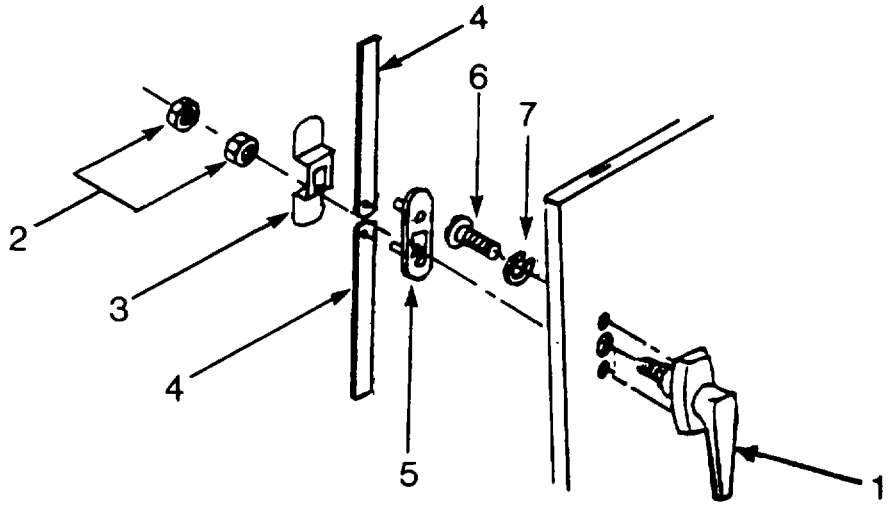


Figure 4-7. Water Supply Cabinet Assembly Handle

4-18. WATER TANK AND MOUNTING ASSEMBLY.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit, Hand blind riveter

Materials
RTV Sealant (3, Appendix E)

a. Inspect. (See Figure 4-8.)

(1) Inspect water tank for breaks or separation of seams.

(2) Inspect for security of mounting.

4-18. WATER TANK AND MOUNTING ASSEMBLY. - Continued

a. Inspect. - Continued (See Figure 4-8.)

(3) Inspect water pump for completeness, security, electrical connect, water level, and proper operation.

(4) Inspect water tubing for breaks and proper connections.

b. Repair. (See Figure 4-8.)

(1) Replace pump.

(a) Drain water tank.

(b) Unplug power cord (1).

(c) Remove clamps (2) and tubing (3).

(d) Loosen bolts (4) and remove pump (5).

(e) Remove fittings (6) from pump (5).

(f) Wrap pipe threads with teflon tape (49, Appendix E) on replacement pump (5) and install fittings (6).

(g) Install replacement pump (5) and tighten bolts (4).

(h) Install tubing (3) and secure with clamps (2).

(i) Connect power cord (1) and fill water tank.

(j) Test operate water pump.

4-18. WATER TANK AND MOUNTING ASSEMBLY. - Continued

b. Repair. - Continued

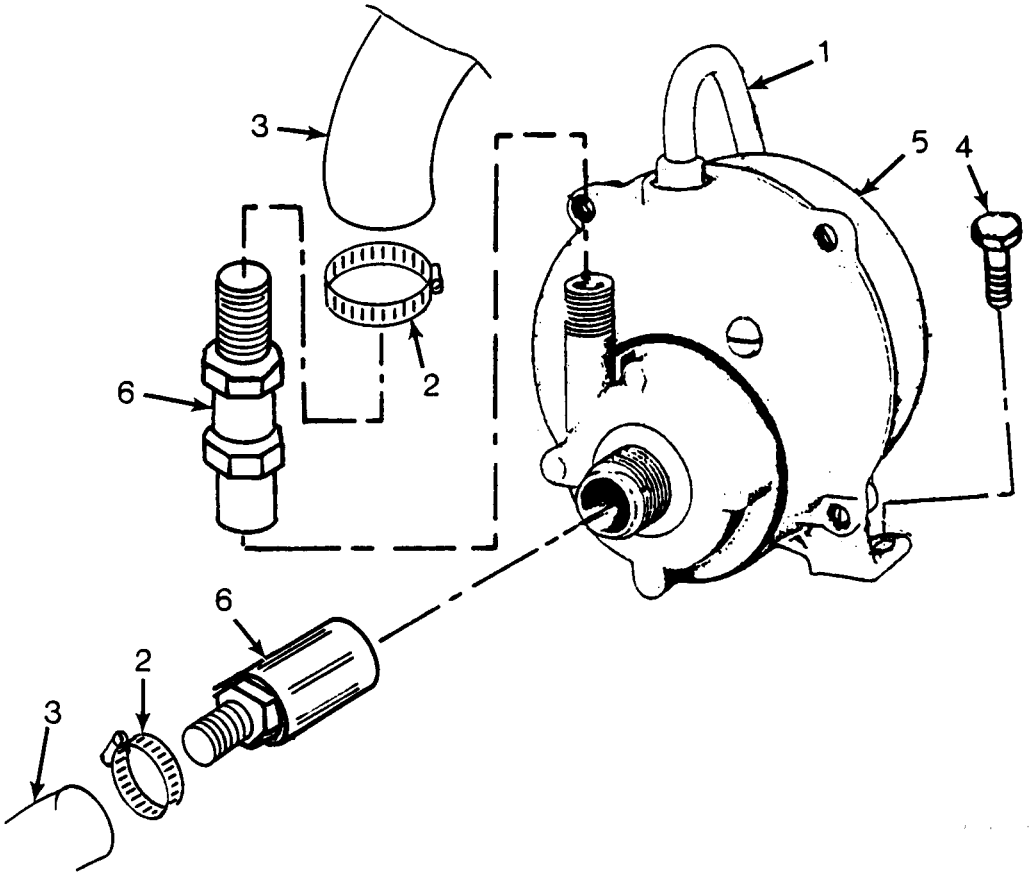


Figure 4-8. Water Pump

(2) Replace water tank. (See figure 4-9.)

(a) Remove water pump. Refer to b(1) above.

(b) Remove clamps (1) and tubing (2) from water tank (3).

CAUTION

RTV is used to secure drain petcock to drain hole in shelter. Loosen RTV around the drain petcock before removing water tank to prevent damage to drain petcock.

4-18. WATER TANK AND MOUNTING ASSEMBLY. - Continued

b. Repair. - Continued

(c) Remove bolts (4), lockwashers (5), flat washers (6), and water tank (3).

(d) Remove fittings (7) and drain petcock (8).

(e) Apply RTV sealant to pipe threads of drain petcock (8) and fittings (7) and install in replacement water tank (3).

(f) Install water tank (3) and secure with flat washers (6), lockwashers (5), and bolts (4).

(g) Install tubing (2) and secure with clamps (1).

(h) Install water pump. Refer to b(1) above.

(i) Test operate water tank and check for leaks.

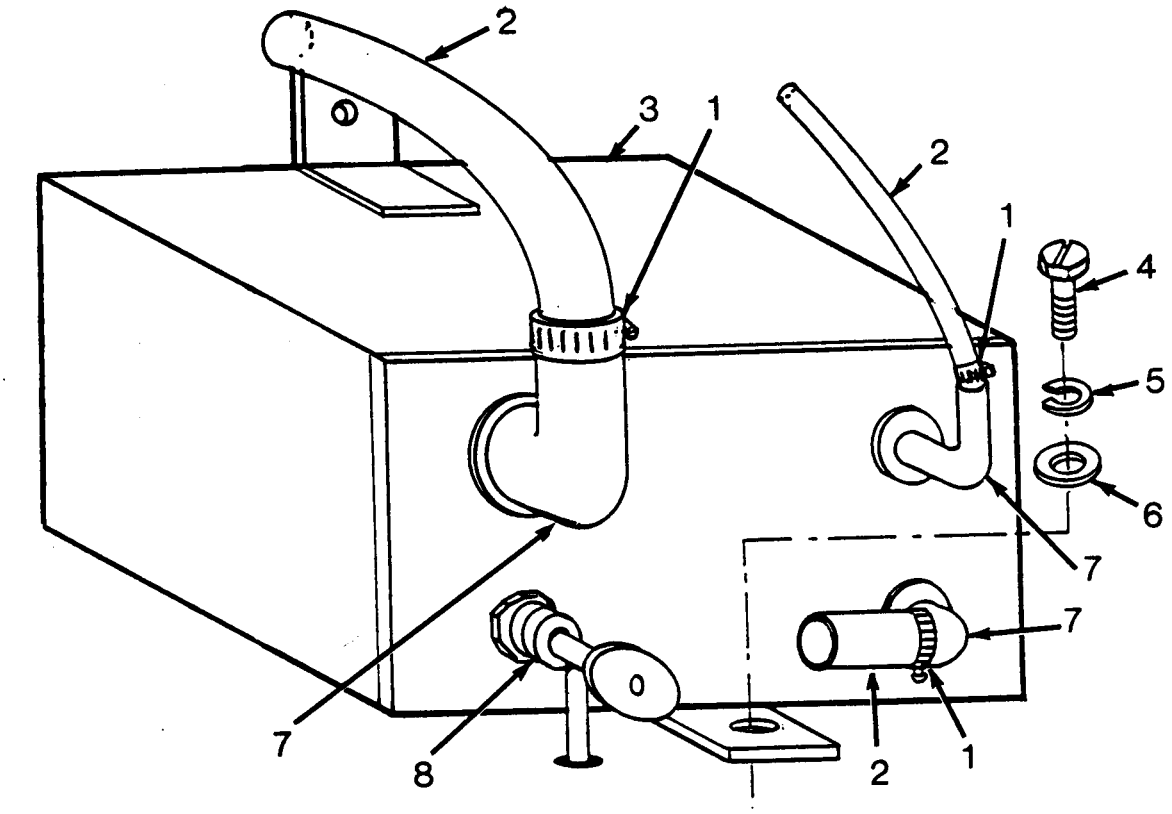


Figure 4-9. Water Tank Assembly

4-19. COUNTERTOP AND SINK ASSEMBLY. - Continued

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit, Hand blind riveter

Materials
RTV Sealant (3, Appendix E)

a. Inspect. (See Figure 4-10.)

(1) Inspect countertop and sink for dents, deep scratches.

(2) Inspect sink for security of mounting.

(3) Inspect sink faucet for proper operation.

b. Repair.

(1) Replace sink assembly (see Figure 4-10.)

(a) Remove clamp (1) and tubing (2) from sink drain.

(b) Remove sink strainer nut (3), gaskets (4), and strainer assembly (5).

(c) Remove clips (6) and spacer blocks (7) and sink (8).

(d) Apply RTV sealant (3, Appendix E) to lip of replacement sink (8).

(e) Install sink (8), spacer blocks (7), and clips (6).

(f) Apply RTV sealant (3, Appendix E) to lip of strainer assembly (5).

(g) Install strainer assembly (5) and secure with gaskets (4) and strainer nut (3).

(h) Install tubing (2) and secure with clamp (1).

(i) Test and operate sink for leaks.

4-19. COUNTERTOP AND SINK ASSEMBLY. - Continued

b. Repair. - Continued

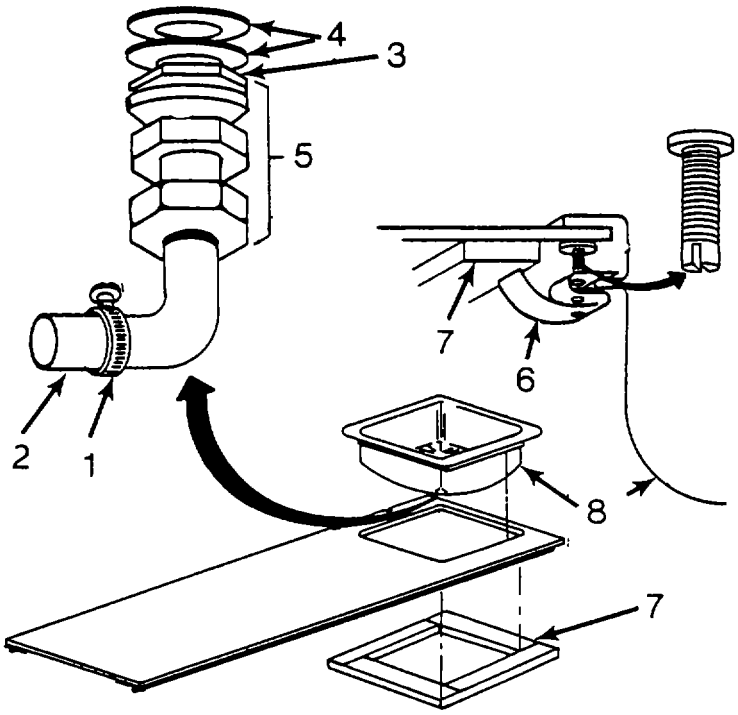


Figure 4-10. Countertop and Sink Assembly

(2) Replace faucet (see Figure 4-11.)

(a) Remove screws (1) and lift faucet (2) from countertop.

(b) Remove clamp (3) and tubing (4).

(c) Remove fitting (5) from faucet (2).

(d) Apply RTV sealant (3, Appendix E) to fitting (5) and install on replacement faucet (2).

(e) Install tubing (4) and secure with clamp (3).

(f) Install faucet (2) with screws (1).

(g) Test operate faucet for leaks.

4-19. COUNTERTOP AND SINK ASSEMBLY. - Continued

b. Repair. - Continued

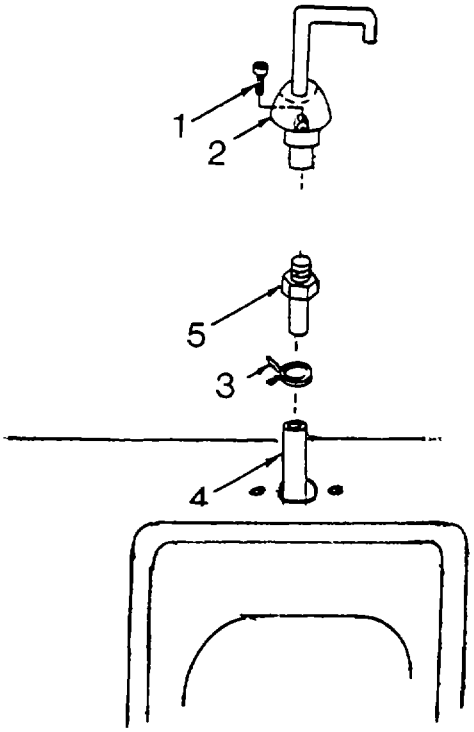


Figure 4-11. Faucet

(3) Remove countertop dents, scratches, burrs, and corrosion.

(4) Repair of sink is by replacement.

(5) Repair of faucet is by replacement.

4-20. WALL MOUNTED STORAGE CABINET.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit, Hand blind riveter

Materials
RTV Sealant (3, Appendix E)

a. Inspect. (See Figure 4-12.)

(1) Check press wall cabinet for security of mounting. Check for dents and structural damage. Inspect welds for breaks or separation.

(2) Check wall cabinet handles for security of installation and damage.

(3) Check latching mechanism for proper operation and security.

b. Replace. (See Figure 4-12.)

(1) Remove contents of wall cabinet (1) shelves.

(2) Remove bolts (2), flat washers (3), backing plates (4), flat washers (5), lockwashers (6), nuts (7) and cabinets (1).

(3) Install wall cabinet (1), secure with bolts (2), flat washers (3), backing plates (4), flat washers (5), lockwashers (6), and nuts (7). Seal backing plate (4) to shelter wall with RTV sealant (3, Appendix E).

4-20. WALL MOUNTED STORAGE CABINET. - Continued

b. Replace - Continued. (See Figure 4-12.)

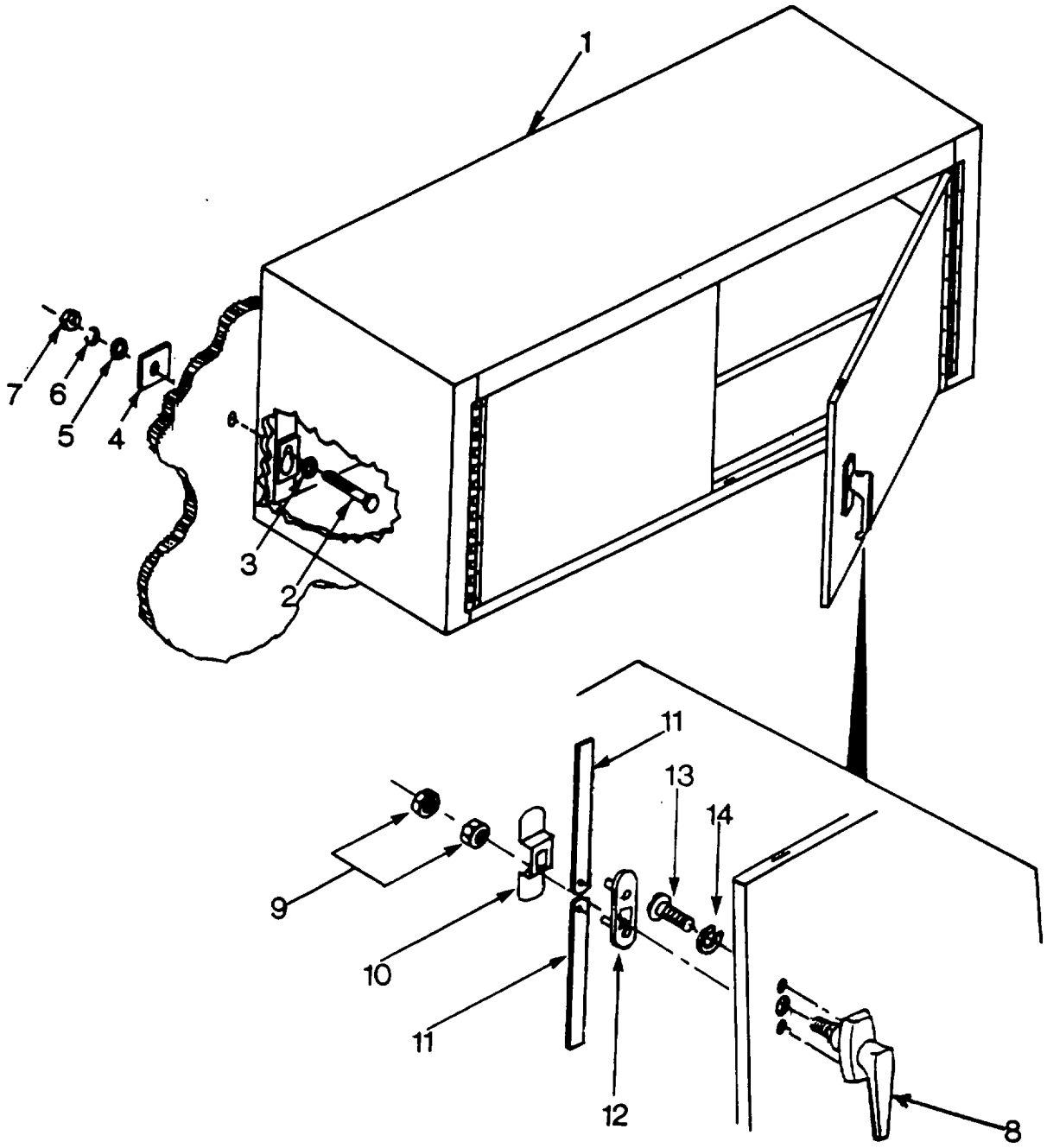


Figure 4-12. Wall Mounted Storage Cabinet

4-20. WALL MOUNTED STORAGE CABINET. - Continued

c. Repair. (See Figure 4-12.)

(1) Replace door handle assembly.

(a) Remove door handle assembly (8) by removing nuts (9) and retainer plate (10).

(b) Remove rods (11) and backing plate (12).

(c) Remove bolts (13), star washers (14) and door handle assembly (8).

(d) Install replacement door handle assembly (8) and secure with star washers (14) and bolts (13).

(e) Install backing plate (12), rods (11), retainer plate (10), and secure with nuts (9).

(2) Remove minor dents and bends from wall cabinet body.

(3) Remove minor dents and bends from wall cabinet shelf.

(4) Repair welds as needed.

(5) Replace handle assemblies if necessary.

4-21. AIR CONDITIONER ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials
RTV Sealant (2, 3, Appendix E)

a. Inspect. (See Figure 4-13, figure 4-14, and figure 4-15.)

(1) Inspect air conditioner on front wall of shelter for security of mounting. Inspection procedures are identical for both air conditioners.

(2) Inspect air conditioner electrical power cable for proper connection to wall receptacle and to air conditioner.

(3) Inspect air conditioner electrical power cable for breaks, cracks, cuts or age-checks on the rubber insulation.

(4) Inspect cable clamps for security of mounting and ensure that clamps do not pinch or chafe cable.

(5) Inspect controls for proper operation. Refer to TM 5-4120-378-14 for proper operation and test procedures.

(6) Inspect air conditioner main body for missing rivets, dents, breaks, and corrosion.

(7) Inspect mounting bracket assembly for security of mounting and for structural damage such as separated or broken weld joints.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/ disconnected and that circuit breakers are set to OFF. Always have another person standing by who is familiar with electrical shock first aid.

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner.

(1) Remove air conditioner screws (1, Figure 4-13) and cable clamps (2).

(2) Disconnect power cable (3), from air conditioner and shelter receptacles.

(3) Remove cover (1, Figure 4-14).

(4) Remove bolts (2), lockwashers (3), Hat washers (4), and support frame (5).

(5) Remove bolts (6), lockwashers (7), and flat washers (8).

(6) Cut RTV sealant between collar (9) and air conditioner (10) (one layer).

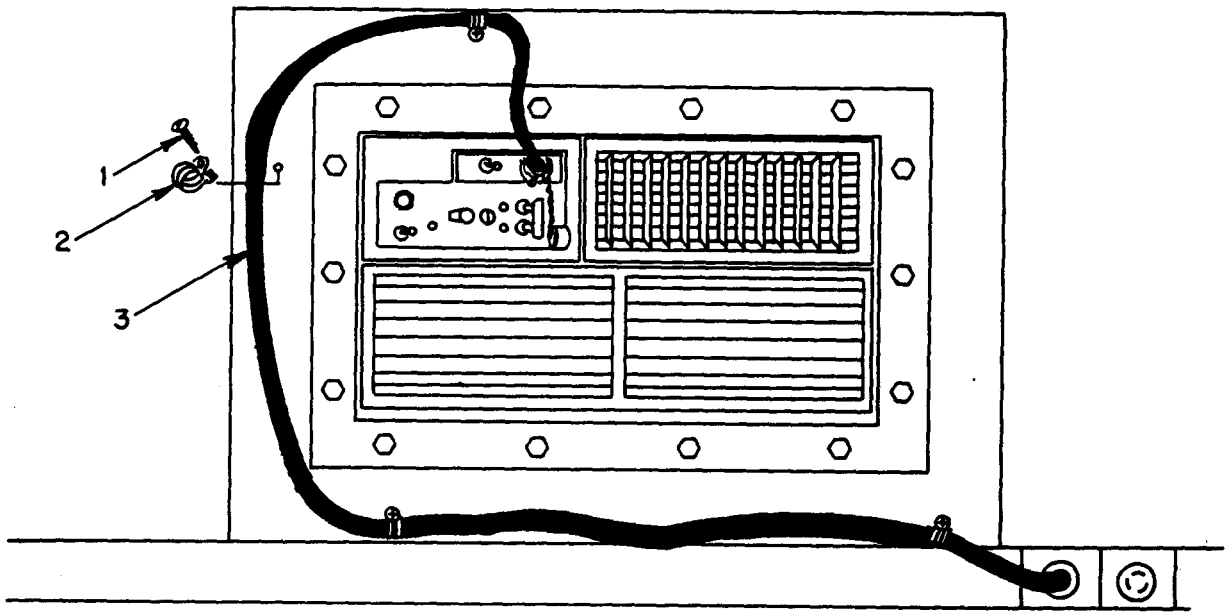


Figure 4-13. Air Conditioner (Front View)

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

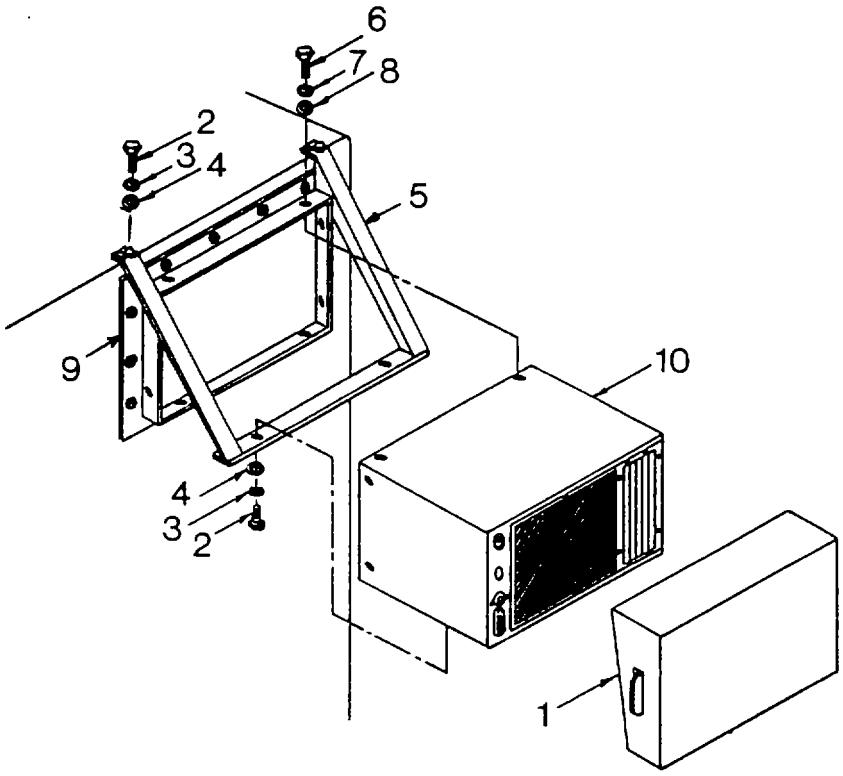


Figure 4-14. Air Conditioner Support Frame

WARNING

Serious injury could result if heavy equipment is moved/lifted without sufficient personnel. Use a suitable device/dolly if possible or have sufficient personnel available for the task to prevent injury to personnel.

Sling must go through air conditioner handles to prevent air conditioner from falling and injuring personnel.

(7) Attach sling (1) to air conditioner (2) as shown in Figure 4-15.

(8) Attach sling (1) to forklift and raise until weight of air conditioner (2) is carried by sling (1).

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

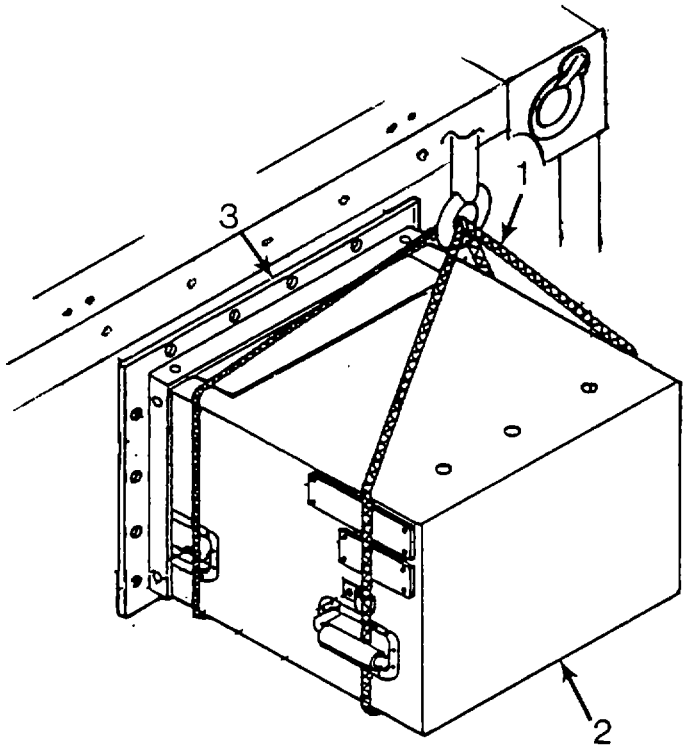


Figure 4-15. Air Conditioner Assembly

(9) From inside of shelter cut RTV sealant between air conditioner (1, Figure 4-16) and inner frame (2) (two layers).

(10) Remove air conditioner (1) and lower to the ground.

(11) Remove nuts (3), lockwashers (4), and flat washers (5).

(12) Cut RTV sealant holding collar (6) to shelter wall and remove collar (6).

(13) Drill out rivets (7) and pry off handle covers (8).

(14) Clean RTV sealant from handle covers (8), collar (6), and outer frame (9).

CAUTION

When drilling holes in air conditioner, care MUST be taken not to damage condenser or evaporator coils or wiring.

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

(15) Drill out rivets (10) and remove cover latches (11) from old air conditioner (2).

(16) Remove screws (12) from old air conditioner (1).

(17) Remove screws (13), flat washers (14), and canvas cover (15) from replacement air conditioner (1).

(18) Drill out rivets (16) and remove front handles (17) from replacement air conditioner (2).

(19) Position cover (18) on replacement air conditioner (1). Locate cover latch positions and drill mounting holes. Install cover latches (11) on replacement air conditioner with rivets (10).

(20) Install canvas cover (15), flat washers (14), and screws (13) on old air conditioner (1).

(21) Install screws (12) on replacement air conditioner (1).

(22) Chisel off rivets (19) and remove data plates (20), (21), and (22) from replacement air conditioner (1) and relocate to positions (23), (24) and (25) shown in Figure 4-16 and install with rivets (26).

(23) Install rivets (14) in old data plate mounting holes on replacement air conditioner (1).

(24) Apply RTV sealant (Appendix E, item 2) to handle covers (8) and install on replacement air conditioner (1) with rivets (7).

(25) Slide collar (6) onto front of replacement air conditioner (1) and position 3-3/8 inches from the front as shown in Figure 4-16.

CAUTION

When drilling holes in air conditioner, care MUST be taken not to damage condenser or evaporator coils or wiring.

(26) Drill two 1/2 inch holes on each side, top, and bottom of replacement air conditioner (1) using collar (6) as a template.

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

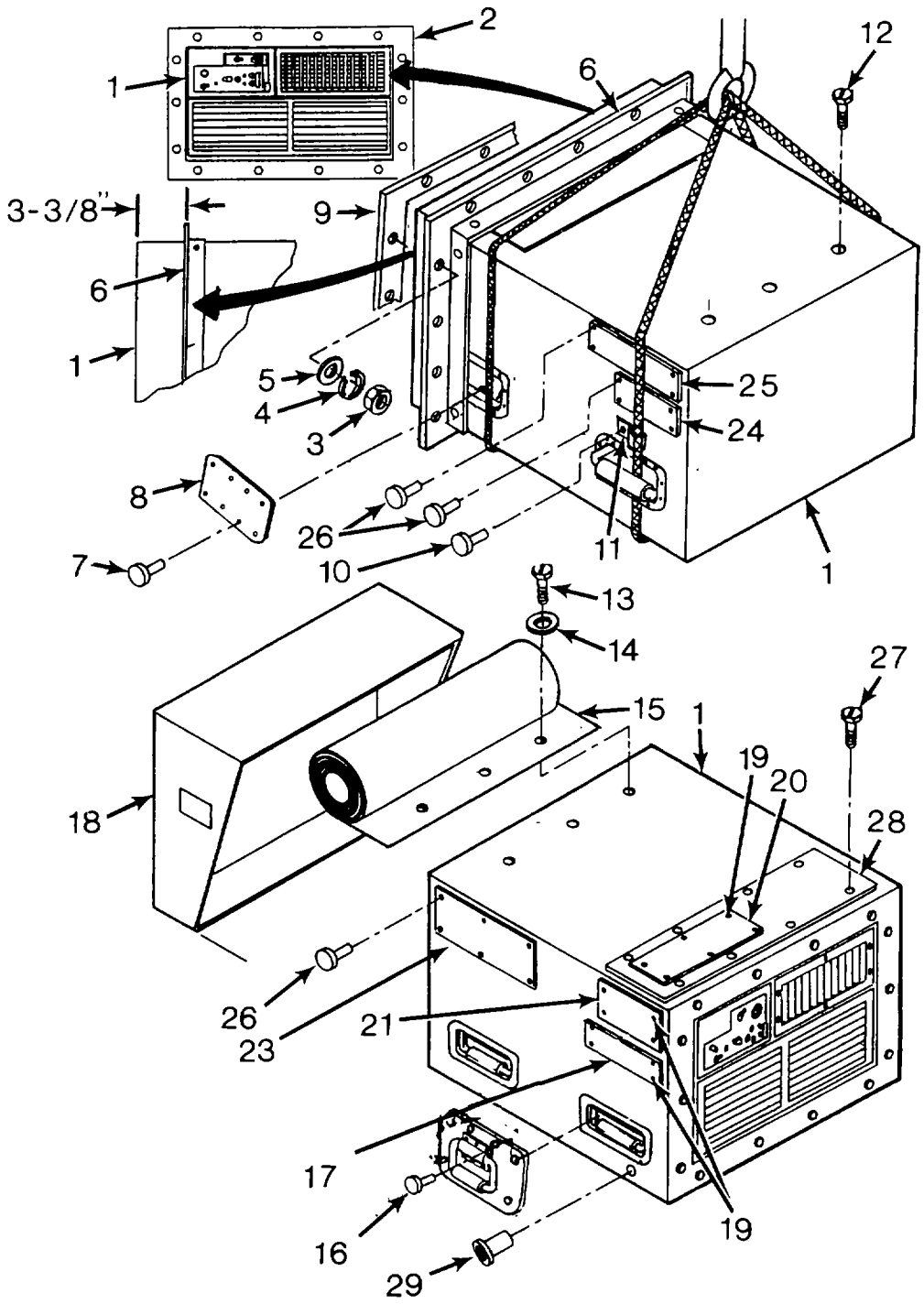


Figure 4-16. Air Conditioner, Replace

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

(27) Remove collar (6) from replacement air conditioner (1).

(28) Remove screws (27) and air conditioner top cover (28).

(29) Install blind rivet nuts (29) in the eight drilled holes.

(30) Install air conditioner top cover (28) with screws (27).

(31) Install collar (9, Figure 4-14) with bolts (6), lockwashers (7), and flatwashers (8).

(32) Apply a bead of RTV sealant (2, Appendix E) to front and rear inside of collar (9) where it meets the air conditioner (10).

WARNING

Serious injury could result if heavy equipment is moved/lifted without sufficient personnel. Use a suitable device/dolly if possible or have sufficient personnel available for the task to prevent injury to personnel.

Sling must go through air conditioner handles to prevent air conditioner from falling and injuring personnel.

(33) Attach sling (1) to air conditioner (2) as shown in Figure 4-15. Attach sling (1) to forklift.

(34) Coat the face of the collar (6, Figure 4-16) that mates with the outer frame (9) with RTV sealant (2, Appendix E).

(35) Raise air conditioner (1) and position into outer frame (9).

(36) Secure air conditioner (1) to outer frame (9) with flat washers (5), lockwashers (4), and nuts (3) and remove sling (1, Figure 4-15.)

4-21. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

(37) Install support frame (5, Figure 4-14) and secure with flat washers (4), lockwashers (3), and bolts (2).

(38) Apply RTV sealant (3, Appendix E) to interior joint between air conditioner (1, Figure 4-16) and inner frame (2).

(39) Connect power cable (3, Figure 4-13) to air conditioner and shelter receptacle.

(40) Install cable clamps (2) with screws (1).

(41) Test air conditioner operation (refer to TM 5-4120-378-14).

(42) Set air conditioner controls to OFF and install cover (1, Figure 4-14).

4-22. FIRE EXTINGUISHER ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspection. (See Figure 4-17.)

(1) Check fire extinguisher (1) on curbside shelter wall for security of mounting.

(2) Check fire extinguisher nozzle (2) and pressure gage (3) for security and proper reading.

(3) Check inspection tag for current date and initials.

4-22. FIRE EXTINGUISHER ASSEMBLY. - Continued

b. Replace. (See Figure 4-17.)

(1) Unlock mounting bracket quick release (4) and remove fire extinguisher (1)

(2) Remove mounting bracket screws (5) and lockwashers (6), and remove mounting bracket (7) from wall.

(3) Install mounting bracket (7) with screws (5) and lockwashers (6).

(4) Place fire extinguisher (1) on mounting bracket (7).

(5) Lock mounting bracket quick release (4).

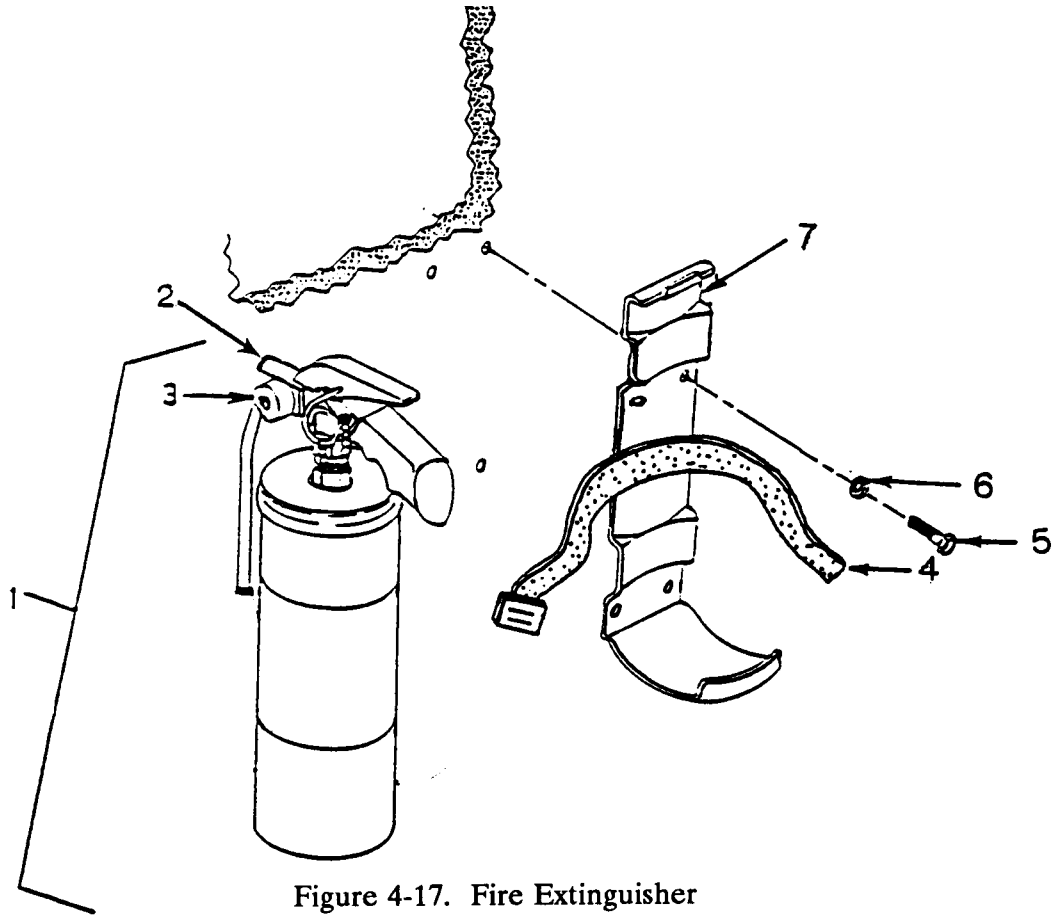


Figure 4-17. Fire Extinguisher

Figure 4-17. Fire Extinguisher

4-23. FIRST AID KIT ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit, Hand blind riveter

Materials
None

a. Inspect. (See Figure 4-18.)

(1) Check first aid kit (1) for security of mounting.

(2) Check first aid kit contents for inventory and condition.

b. Replace. (See Figure 4-18.)

NOTE

First aid kit is secured with hook and pile fastener.

(1) Remove first aid kit (1).

(2) Remove mounting bracket screws (2).

(3) Remove mounting bracket (3).

(4) Remove hook and pile fastener (4) from mounting bracket (3) and back of first aid kit (1).

4-23. FIRST AID KIT ASSEMBLY. - Continued

b. Replace. (See Figure 4-18.) - Continued

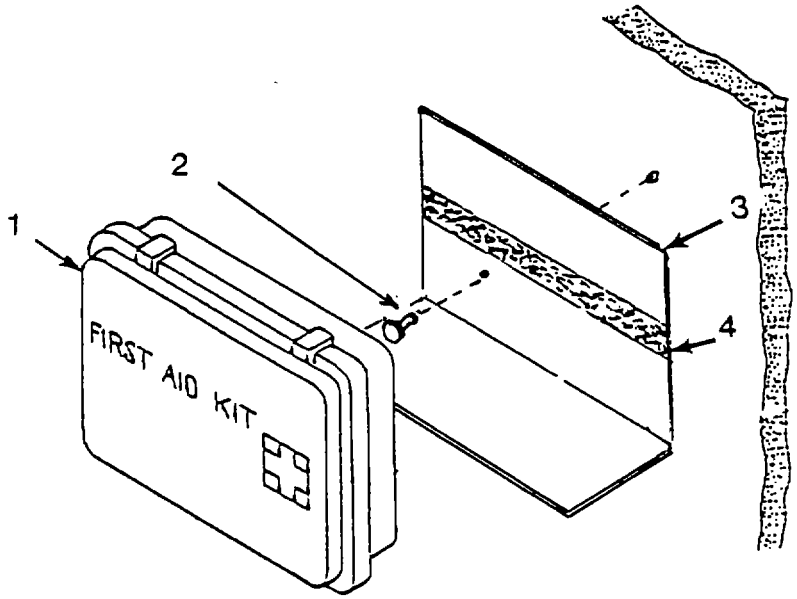


Figure 4-18. First Aid Kit

(5) Replace hook and pile fastener (4) on bracket (3) and back of first aid kit (1).

(6) Install mounting bracket screws (2).

(7) Install first aid kit (1).

(8) Replace outdated/consumed items of first aid kit and update initial inspection tag. Secure lid.

4-24. BLACKOUT WARNING ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
Electrical equipment tool kit

Materials
RTV Sealant (2, Appendix E)

a. Inspect.

(1) Inspect rear wall blackout warning system for proper operation. Warning buzzer should ring when button is depressed.

(2) Inspect blackout warning system push button switch for ease of operation and security of mounting.

(3) Inspect warning buzzer for corrosion and security of mounting.

b. Replace.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that circuit breakers are set to OFF. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

(1) Switch.

(a) Remove push button switch screws (1, Figure 4-19), lockwashers (2), flat washers (3), and nuts (4) from switch cover (5).

(b) Remove switch cover (5) and gasket (6).

(c) Remove nuts (7) and lockwashers (8).

(d) Tag and disconnect electrical wires (9).

(e) Remove screws (10) and switch (11).

4-24. BLACKOUT WARNING ASSEMBLY. - Continued

b. Replace. - Continued

(f) Remove screws (12), lockwashers (13), and flat washers (14).

(g) Remove housing (15).

(h) Position switch housing (15) of push button switch on shelter and secure with screws (12), lockwashers (13), and flat washers (14). Seal to shelter wall with RTV sealant (2, Appendix E).

(i) Secure switch (11) to housing (15) with screw (10).

(j) Connect electrical wires (9), secure with nuts (7) and lockwashers (8), and remove tags.

(k) Position switch cover (5) and gasket (6) on housing and secure with screws (1), flat washers (3), lockwashers (2), and nuts (4).

(2) Warning Buzzer.

(a) Remove warning buzzer screws (1, Figure 4-20) and lockwashers (2).

(b) Remove buzzer (3).

(c) Tag and disconnect electrical wires (4).

(d) Remove rivets (5) by drilling or chiseling off heads.

(e) Remove buzzer base (6).

(f) Position buzzer base (6) of warning buzzer on wall and secure with rivets (5).

(g) Connect electrical wires (4) to terminals and remove tags.

(h) Position buzzer (3) on base and secure with screws (1) and lockwashers (2).

4-24. BLACKOUT WARNING ASSEMBLY. - Continued

b. Replace. - Continued

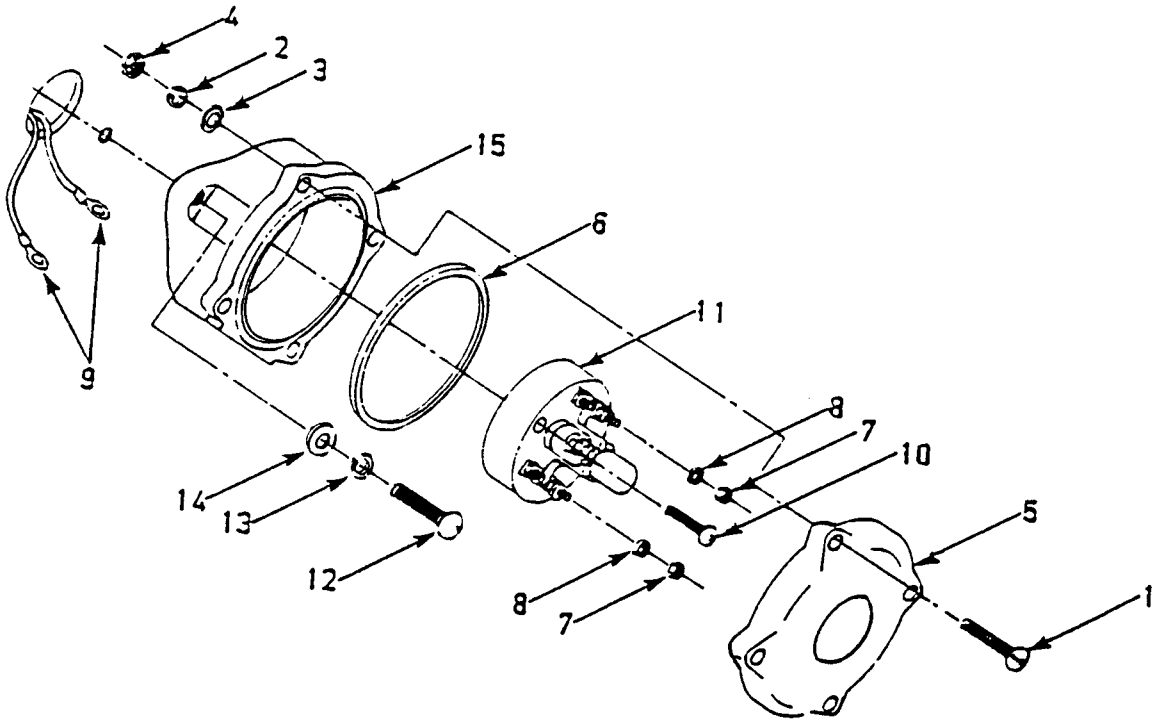


Figure 4-19. Blackout Warning Assembly

4-24. BLACKOUT WARNING ASSEMBLY. - Continued

b. Replace. - Continued.

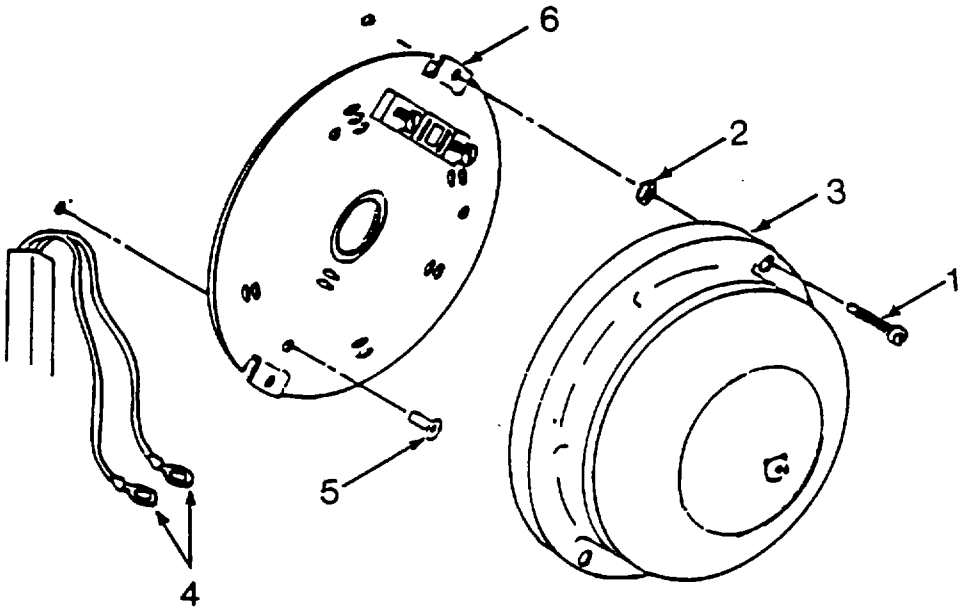


Figure 4-20. Blackout Warning Assembly Buzzer

c. Repair. Repair for the blackout warning assembly consists of replacing components.

4-25. DOOR BLACKOUT LOCKPIN ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-21.)

(1) Inspect lockpin on interior side of door for any damage which would prevent insertion into the door locking mechanism.

(2) Inspect lockpin cable for strength and security of attachment to pin.

b. Replace. (See Figure 4-21.)

(1) Remove cable mounting plate bolts (1) and lockwashers (2) from blackout lockpin assembly which also secures the center latch plate.

(2) Remove lockpin assembly (3).

(3) Position new lockpin assembly (3) on latch plate and secure with bolts (1) and lockwasher (2).

4-25. DOOR BLACKOUT LOCKPIN ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-21.)

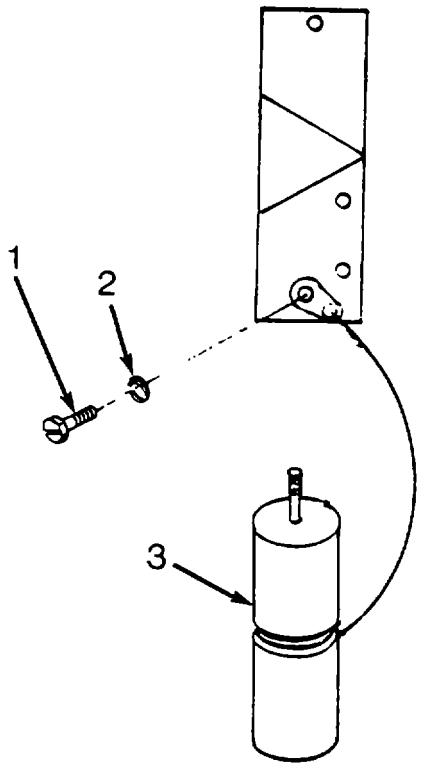


Figure 4-21. Door Blackout Lockpin Assembly

4-26. DOOR FRESH AIR FILTER ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-22.)

(1) Check fresh air door for proper installation and security.

(2) Check filters (2) for dirt, cuts, tears.

(3) Check filters (2) for correct installation.

b. Replace. (See Figure 4-22.)

(1) Loosen handknobs (1) and remove filters (2).

(2) Clean filters (2) and reinsert.

(3) Tighten handknobs (1).

4-26. DOOR FRESH AIR FILTER ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-22.)

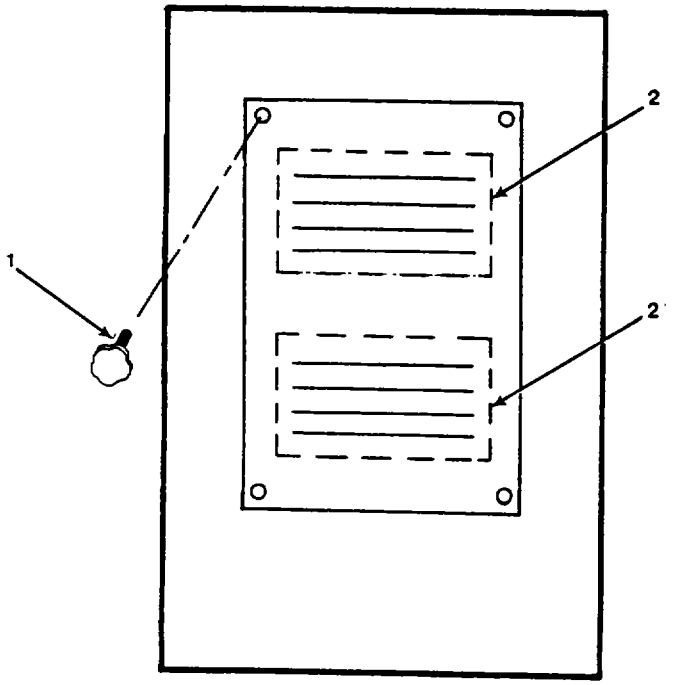


Figure 4-22. Door Fresh Air Filter

4-27. LADDER ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
RTV Sealant (2, Appendix E)

a. Inspect. (See Figure 4-23.)

(1) Check shelter rear ladder assembly for security and completeness.

(2) Inspect ladder (1) for dents and cracks.

(3) Check ladder assembly fastener loops (2) and screws (3) for security.

(4) Check ladder assembly retaining strap (4) and buckle (5) for security and condition.

(5) Check ladder assembly upper mounting bracket (6) for cracks, rust, corrosion, security of attachments, and sealant condition.

(6) Check ladder assembly retainer brackets (7) for cracks, rust, corrosion, security of attachment, and sealant condition.

b. Replace. (See Figure 4-23.)

(1) Unlatch ladder assembly retaining strap (4).

(2) Remove ladder (1).

(3) Remove screws (3) and retaining strap fastener loops (2).

(4) Remove retaining strap (4).

(5) Remove upper mounting bracket bolts (8), backing plate (9), lockwashers (10), and nuts (11).

(6) Remove upper mounting bracket (6).

4-27. LADDER ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-23.)

(7) Remove retainer bracket bolts (12) and lockwashers (13).

(8) Remove retainer bracket (7).

(9) Install retainer bracket (7) bolts (12) and lockwashers (13). Seal bracket to shelter wall with RTV sealant (2, Appendix E).

(10) Install upper mounting bracket (6) bolts (8), backing plate (9), lockwashers (10), flat washers (14), and nuts (11). Seal bracket to exterior shelter wall with RTV sealant (2, Appendix E).

(11) Install retainer strap (4).

(12) Install retaining strap fastener loops (2) and screws (3).

(13) Install ladder (1) on brackets (6) and (7).

(14) Secure ladder assembly retaining strap (4).

4-27. LADDER ASSEMBLY. - Continued

b. Replace. (See Figure 4-23.) - Continued

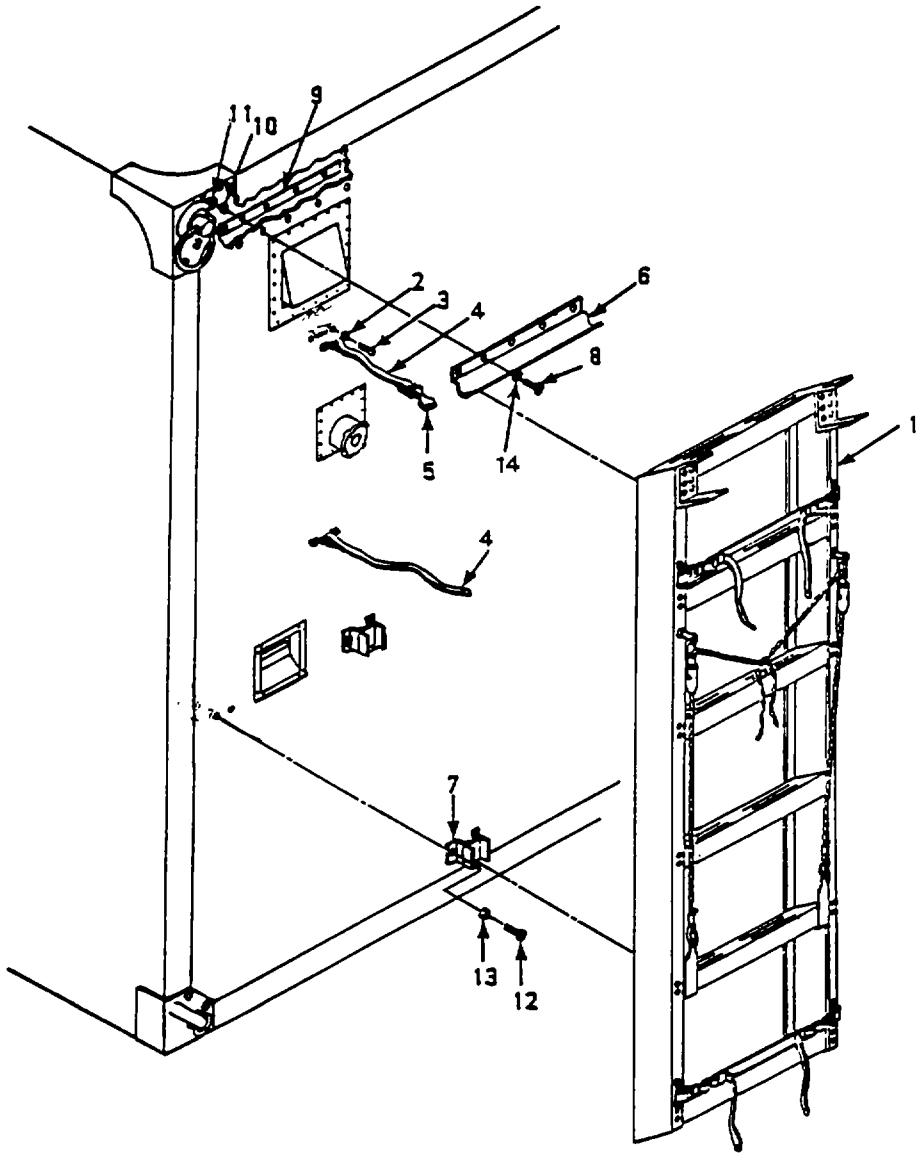


Figure 4-23. Ladder Assembly

c. Repair. (See Figure 4-23.)

Repair ladder assembly by replacing parts. Refer to paragraph b. above.

4-28. TELEPHONE BINDING POST ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
RTV Sealant (2, Appendix E)

a. Inspect.

(1) Inspect binding post assembly hinged cover (6) on rear wall roadside for damage and ease of movement.

(2) Inspect binding posts (1) for freedom of movement and correct return to the spring loaded OUT position.

(3) Inspect binding post assembly for cracks and security of mounting.

b. Replace. (See Figure 4-24.)

(1) Unscrew exterior posts (1) from interior post studs (2), and insulating washers (3 and 4) and remove posts and washers. Removal procedures are identical for each binding post assembly.

(2) Remove screws (5) and hinged cover (6).

(3) Remove rivets (7) of nomenclature plate (8) by drilling or chiseling off heads and remove plate.

(4) Remove rivets (9) by drilling or chiseling off heads.

(5) Remove RTV sealant and receptacle frame (10) from shelter wall.

(6) Apply RTV sealant (2, Appendix E) to frame lip and install receptacle frame (10) and secure with rivets (9).

(7) Install nomenclature plate (8) and secure with rivets (7).

(8) Install hinged cover (6) and secure with screws (5).

4-28. TELEPHONE BINDING POST ASSEMBLY. - Continued

b. Replace. (See Figure 4-24.) - Continued

(9) Install interior binding posts (2) from inside through insulating washer (4), then through shelter wall.

(10) Thread exterior binding posts (1) onto interior post studs (2) using insulating washer (3) between shelter wall and exterior binding post. Modify a new interior post by cutting off the threaded stud. Locate center and drill a No. 21 size hole 0.5 in. (1.27 cm) deep. Tap hole with 10-32 U.N.F. bottom tap.

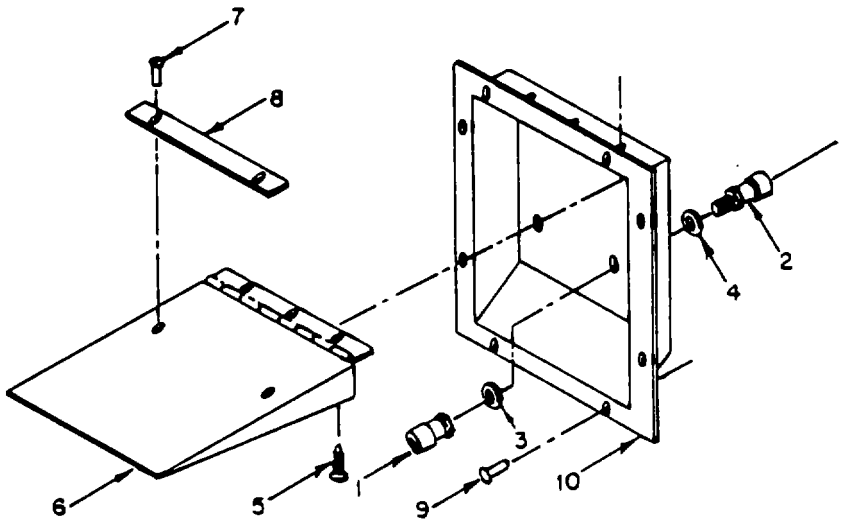


Figure 4-24. Telephone Binding Post Assembly

4-28. TELEPHONE BINDING POST ASSEMBLY. - Continued

c. Repair. (See Figure 4-24.)

Repair of the telephone binding post assembly consists of replacement of binding posts. Refer to paragraph b. above.

4-29. LEVEL INDICATOR ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect.

Check level indicator assembly on outer roadside wall and outer rear wall for breakage, completeness, and security.

b. Replace. (See Figure 4-25.)

(1) Remove screws (1), and lockwashers (2) from receptacle frame. Removal procedures are identical for both assemblies.

(2) Remove nuts (3), lockwashers (4), flat washers (5), screws (6), and level (7) from bracket (8).

(3) Remove rivets (9) from receptacle frame (10) by drilling or chiseling off heads.

(4) Remove RTV sealant and receptacle frame (10) from shelter wall.

4-29. LEVEL INDICATOR ASSEMBLY. - Continued

b. Replace. - Continued. (See Figure 4-25.)

(5) Install receptacle frame (10) to shelter wall and secure with rivets (9). Installation procedures are identical for both assemblies. Seal between receptacle frame and shelter wall with RTV sealant (item 2, Appendix E).

(6) Install level (7), screws (6), flat washers (5), lockwashers (4), and nuts (3) to bracket (8).

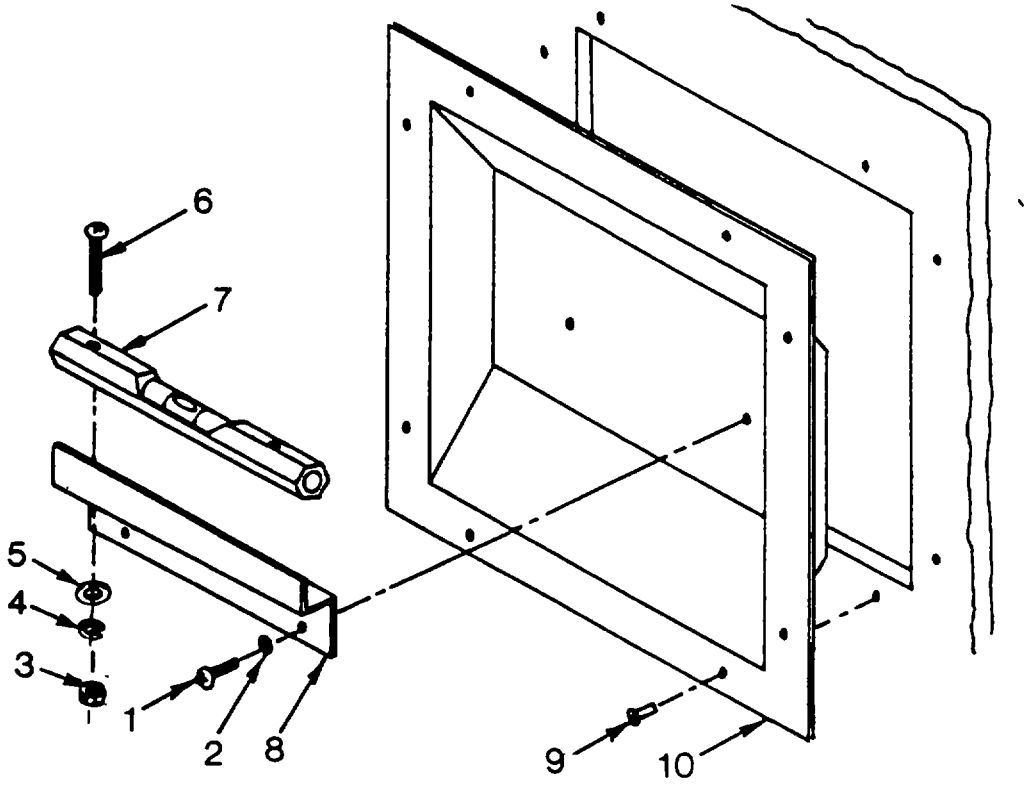


Figure 4-25. Level Indicator Assembly

4-29. LEVEL INDICATOR ASSEMBLY. - Continued

b. Replace. - Continued. (See Figure 4-25.)

(7) Install level bracket (8), screws (1), and lockwashers (2) to receptacle frame (10).

c. Repair. (See Figure 4-25.)

Repair of level indicator assembly is limited to replacement of the gage. Refer to paragraph b. above.

4-30. CEILING LAMP ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Material
None

a. Inspect. (See Figure 4-26.)

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cable are unplugged/disconnected and that circuit breakers are set to OFF. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

4-30. CEILING LAMP ASSEMBLY. - Continued

a. Inspect. - Continued (See Figure 4-26.)

(1) Inspect ceiling lamp assemblies for security of mounting and for corrosion.

(2) Inspect lamp assemblies fluorescent tubes (1) for discoloration or failure.

(3) Inspect lamp assemblies tube sockets for damage and inability to hold the tube securely.

(4) Inspect lamp assemblies starter (2) for proper operation.

(5) Inspect lamp assemblies toggle switch for proper operation and for security of mounting.

b. Replace. (See Figure 4-26.)

(1) Set circuit breaker on power distribution panel to OFF.

(2) Grasp lamp assemblies fluorescent lamp tube (1), rotate 90°, and lower from tube sockets.

(3) Rotate lamp assemblies starter (2) counterclockwise and remove from socket.

NOTE

Support the lower half of fixture to prevent it from falling.

(4) Remove lamp assemblies screws (3) from fixture.

(5) Remove lamp assemblies wire nuts (4). Tag and disconnect the wires from the fixture components.

CAUTION

Lower the bottom half of fixture slowly to prevent damage to the connecting wires.

4-30. CEILING LAMP ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-26.)

(6) Remove bottom half of light fixture (5).

(7) Remove rivets (7) on upper half of light fixture (6) by drilling or chiseling off heads.

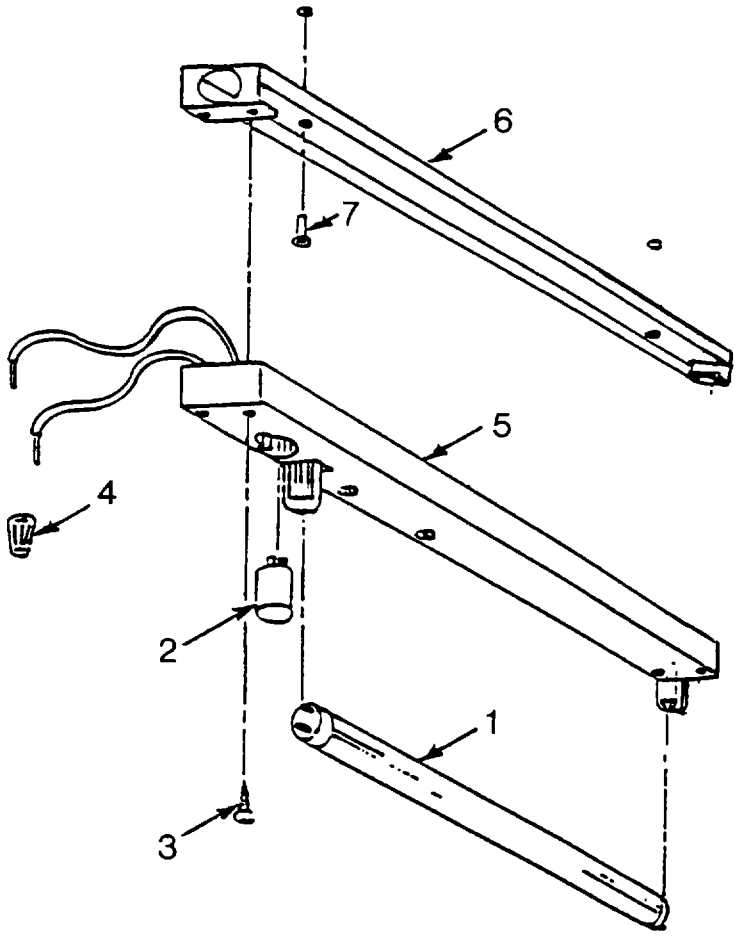


Figure 4-26. Ceiling Lamp Assembly

4-30. CEILING LAMP ASSEMBLY. - Continued

b. Replace. - Continued. (See Figure 4-26).

(8) Install upper half of light fixture (6) with rivets (7).

(9) Connect lamp assemblies to electrical supply wires, remove tags, and secure with wire nuts (4).

CAUTION

Use care not to trap or pinch any electrical wires between the two fixture halves.

(10) Position lower half of light fixture (5) to upper half of fixture (6) and secure with screws (3).

(11) Position starter (2) in socket and carefully rotate clockwise until it locks.

(12) Position lamp tube (1) below socket receptacles with pins vertical. Insert lamp into sockets and twist until pins lock.

(13) Set circuit breaker on power distribution panel to ON and test by operation.

c. Repair. (See Figure 4-26.)

NOTE

Substitute a questionable component with a new one to isolate the cause of malfunction.

Repair of the fluorescent lamp assemblies consists of replacement of the lamp and starter only. Refer to paragraph b. above.

4-31. LAMP SWITCHES AND WATERPUMP SWITCH ASSEMBLIES.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-27.)

(1) Inspect lamp switches on rear wall of interior shelter for proper operation, loose connections, and excessive wear.

(2) Inspect lamp switches cover on rear wall of interior shelter for secure mounting.

b. Replace. (See Figure 4-27.)

(1) Set lamp circuit breakers and/or roadside equipment receptacle breaker in main power service box to OFF.

(2) Remove lamp switch screw (1) and cover (2).

(3) Remove lamp switch screws (3).

(4) Pull switch (6) from switchbox (7).

(5) Loosen screws (4).

(6) Tag and disconnect wires (5).

(7) Remove lamp switch (6).

(8) Loosen screws (4) on replacement switch.

(9) Connect wires (5) to replacement switch (6) and tighten screws (4). Remove tags.

(10) Position switch (6) in box (7).

(11) Install screws (3) and tighten.

4-31. LAMP SWITCHES AND WATERPUMP SWITCH ASSEMBLIES. - Continued

b. Replace. (See Figure 4-27.)

(12) Position cover (2) on box (7).

(13) Install screws (1) and tighten.

(14) Set lamp circuit breakers and/or roadside equipment receptacle breaker in main power service box to ON.

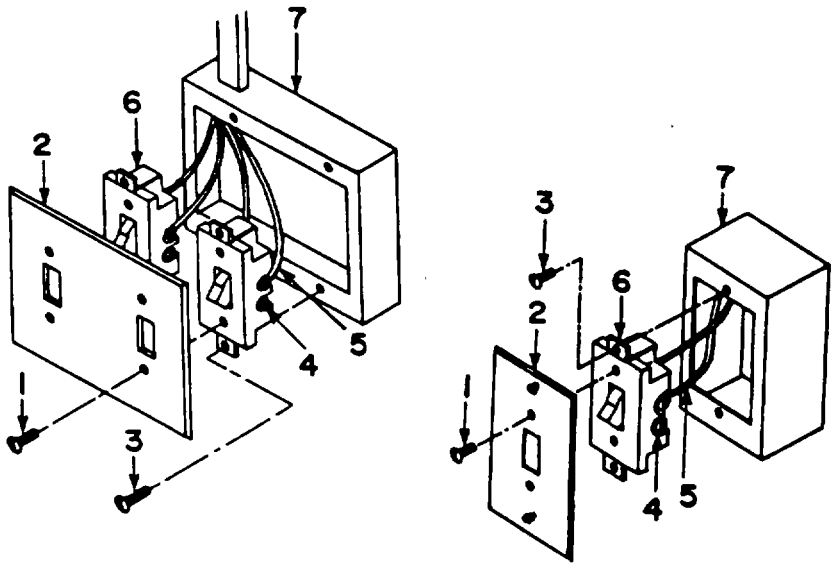


Figure 4-27. Lamp Switches

4-32. EQUIPMENT RECEPTACLES ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools
Electrical equipment tool kit

Materials
None

4-32. EQUIPMENT RECEPTACLES ASSEMBLY. - Continued

a. Inspect. (See Figures 4-28 and 4-29.)

(1) Check shelter wall equipment receptacles for loose connections and excessive wear.

(2) Inspect equipment receptacles covers for secure mounting.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that circuit breakers are set to OFF. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

b. Replace.

(1) Wall Receptacles (Double). (See Figure 4-28.)

(a) Remove equipment receptacle screw (1) and cover (2).

(b) Remove equipment receptacle screws (3).

(c) Pull receptacle (4) from conduit.

(d) Tag wall receptacle wires (5) and disconnect.

(e) Remove receptacle (4).

(f) Connect wires (5) to equipment receptacles (4) and remove tags. Position in conduit.

(g) Install screws (3) in equipment receptacle.

(h) Install cover (2) on equipment receptacle and secure with screw (1).

4-32. EQUIPMENT RECEPTACLES ASSEMBLY. - Continued

b. Replace. - Continued

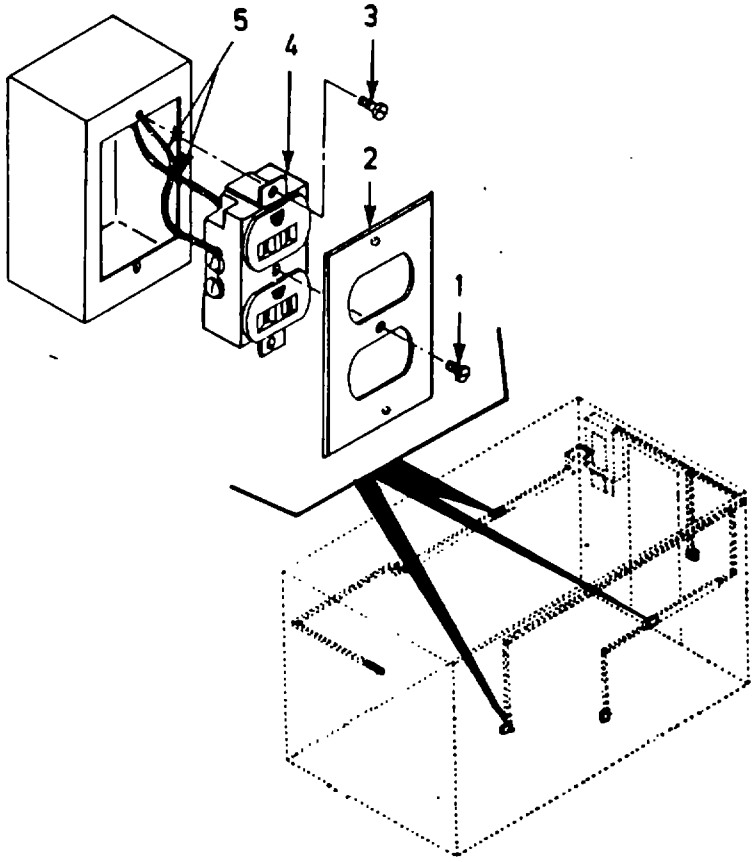


Figure 4-28. Wall Receptacles (Double)

(2) 110 Volt, 3 Prong Air Conditioner Receptacle. (See Figure 4-29.)

(a) Remove receptacle screws (1) and cover (2).

(b) Remove receptacle screws (3).

(c) Pull receptacles (4) from conduit.

(d) Tag receptacle wires (5) and disconnect.

4-32. EQUIPMENT RECEPTACLES ASSEMBLY. - Continued

b. Replace. - Continued

(e) Remove receptacle (4).

(f) Connect wires (5) and receptacle (4) and remove tags. Position in conduit.

(g) Install screws (3) in receptacle.

(h) Install cover (2) on receptacle and secure with screws (1).

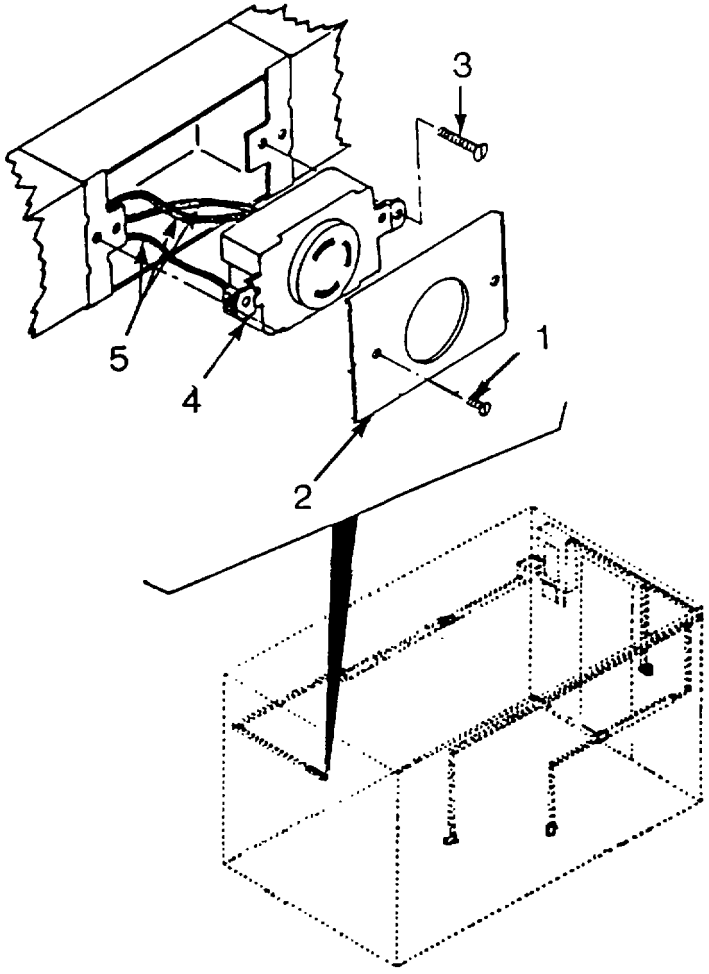


Figure 4-29. 110 Volt, 3 Prong Air Conditioner Receptacle

4-33. GUN RACK ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect. (See Figure 4-30.)

Inspect gun rack assembly for completeness and security of mounting.

b. Replace. (See Figure 4-30.)

(1) Remove bolts (2) from wall gun support (1) and remove support.

(2) Remove bolts (3), flat washers (4), lockwashers (5) and nuts (6) from wall gun support assembly (1), and separate support (7) from mounting bracket (8).

(3) Remove bolts (10), lockwashers (11) and flat washers (12) from floor gun support assembly (9).

(4) Remove bolts (13), flat washers (14), lockwashers (15) and nuts (16), and separate gun support (17) and mounting bracket (18).

(5) Secure mounting bracket (18) to replacement gun support (17) with bolts (13), flat washers (14), lockwashers (15) and nuts (16).

(6) Place floor gun support assembly (9) in position and install bolts (10), lockwashers (11) and flat washers (12).

(7) Secure mounting bracket (8) to replacement gun support (7) with bolts (3), flat washers (4), lockwashers (5) and nuts (6).

(8) Place wall gun support assembly (1) in position and install bolts (2).

c. Repair. (See Figure 4-30.)

Repair of the gun rack assembly consists of replacing damaged or missing components. Refer to paragraph b. above.

4-33. GUN RACK ASSEMBLY. - Continued

c. Repair. (See Figure 4-30.) - Continued

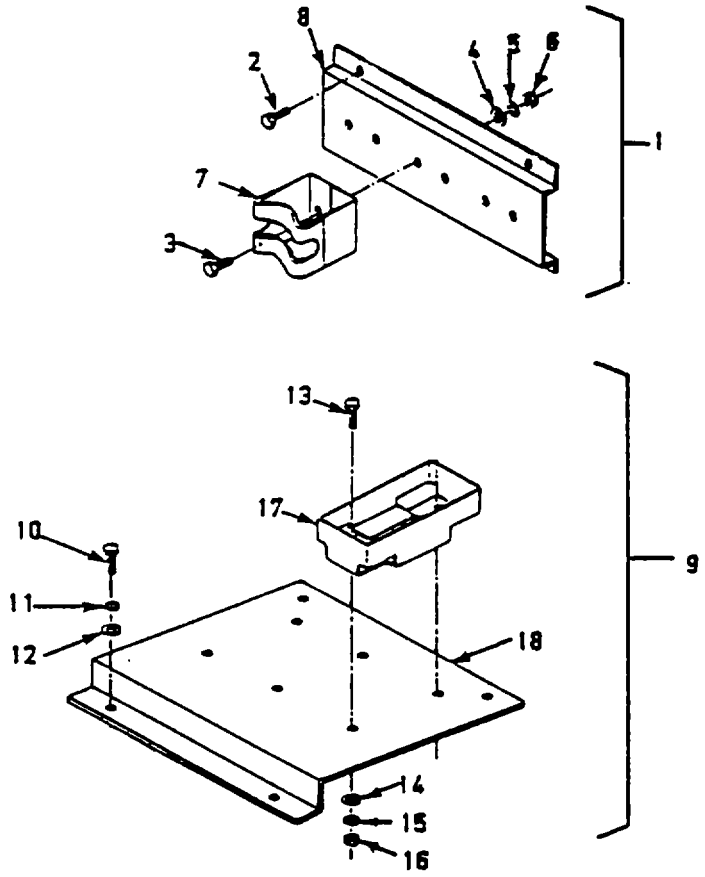


Figure 4-30. Gun Rack Assembly

4-34. TELEPHONE BRACKET ASSEMBLY.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
Electrical equipment tool kit

Materials
None

4-34. TELEPHONE BRACKET ASSEMBLY. - Continued

a. Inspect. (See Figure 4-31.)

Check telephone bracket for completeness and security of mounting.

b. Replace. (See Figure 4-31.)

(1) Remove wingnut (1), lockwasher (2), flat washer (3), and bracket (4) from telephone bracket (5).

(2) Remove screw (6), rubber backing (7), and plate (8).

(3) Remove screws (9) and bracket (5).

(4) If necessary, remove rubber padding (10 and 11).

(5) If removed, install rubber padding (10 and 11) by gluing to brackets (5 and 4).

(6) Install screws (9) and bracket (5).

(7) Install plate (8), rubber backing (7) and screw (6).

(8) Install bracket (4), flat washer (3), lockwasher (2), and wingnut (1).

c. Repair. (See Figure 4-31.)

Repair of the telephone bracket assembly consists of replacing damaged or missing components. Refer to paragraph b. above.

4-34. TELEPHONE BRACKET ASSEMBLY. - Continued

c. Repair. - Continued (See Figure 4-31.)

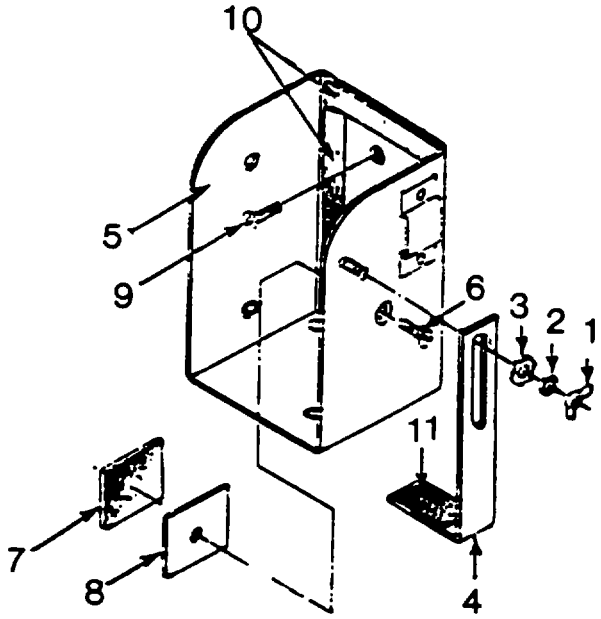


Figure 4-31. Telephone Bracket Assembly

4-35. **ROLLER RACK ASSEMBLY**.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools
General mechanics automotive tool kit

Materials
None

a. Inspect.

(1) Inspect roller rack located on interior curbside wall of shelter for cracks, breaks, and security of mounting.

(2) Inspect roller rack thumbscrews for condition and ease of movement.

b. Replace.

(1) Loosen thumbscrews (1) and remove rollers (2) if present from roller rack.

(2) Remove screws (3), lockwashers (4), and flat washers (5) from roller rack.

(3) Remove rack (6).

(4) Remove blind nut rivets (7) from wall if necessary. Remove only if damaged.

(5) Install blind nut rivets (7) on curbside wall of shelter if necessary.

(6) Align rack with existing holes in curbside wall of shelter.

(7) Install roller rack (6), flat washers (5), lockwashers (4), and screws (3).

4-35. **ROLLER RACK ASSEMBLY**. - Continued

b. Replace. - Continued

(8) Install rollers (2) on roller rack (6).

(9) Tighten thumbscrews (1).

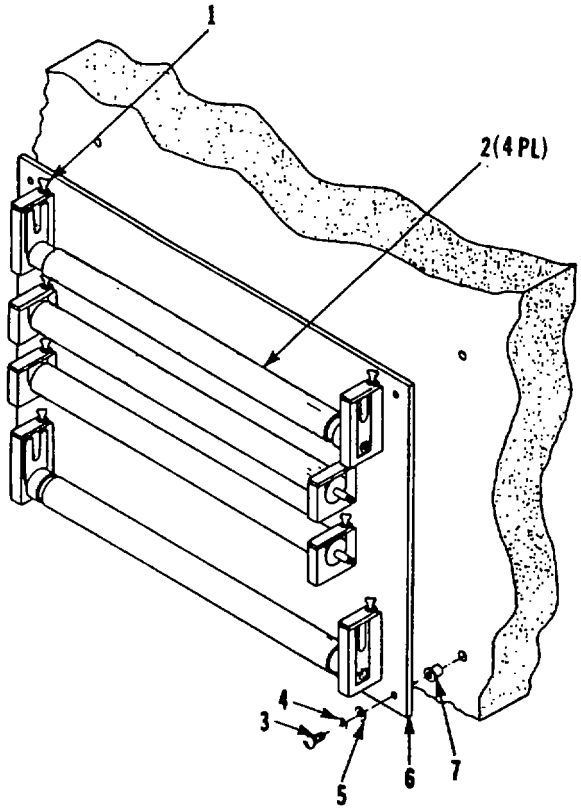


Figure 4-32. Roller Rack

SECTION VII. PREPARATION FOR STORAGE OR SHIPMENT

4-36. **GENERAL**. Refer to Chapter 2, Section II for detailed procedures for preparing the press shelter for storage or shipment.

CHAPTER 5. DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

SECTION I. REPAIR PARTS, SPECIAL TOOLS, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) AND SUPPORT EQUIPMENT

5-1. **COMMON TOOLS AND EQUIPMENT**. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

5-2. **SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT**. No special tools, TMDE, or support equipment are required by Direct Support Maintenance for the maintenance of the Press Shelter.

5-3. **REPAIR PARTS.** Repair parts are listed and illustrated in Appendix F of this manual. Repair parts required for maintenance of this equipment which form a part of the shelter system are defined in the applicable commercial manual supplied with each unit.

5-4. **FABRICATED TOOLS AND EQUIPMENT**. No fabrication of special tools and equipment is necessary for maintenance of the press shelter.

SECTION II. SERVICE UPON RECEIPT, STORAGE, OR SIHIPMENT

5-5. **SERVICE UPON RECEIPT**. Refer to Chapter 2, Section II for service upon receipt of material.

5-6. **PREPARATION FOR STORAGE OR SHIPMENT**. Refer to Chapter 2, section II, for preparation for storage or shipment.

SECTION III. DIRECT SUPPORT TROUBLESHOOTING

5-7. **GENERAL.** This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the press unit of the special warfare printing plant. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions in this manual, then refer to commercial manual. If at this point you cannot correct the malfunction, notify your supervisor.

5-8. **DIRECT SUPPORT TROUBLESHOOTING**. Refer to table 5-1 for troubleshooting information and procedures applicable to the press shelter system and components.

Table 5-1. Direct Support Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
1. NO ELECTRICAL POWER TO SHELTER SYSTEM.
Step 1. Check generator. Start the generator set in accordance with the applicable Department of the Army Technical Manual.
Step 2. Check circuit breakers. Position applicable circuit breakers to ON.
Step 3. Check that main power cable is correctly connected at main power receptacle.
WARNING **DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged or disconnected, that circuit breakers are set to OFF and that generator cables are unplugged/disconnected. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.**

5-8. **DIRECT SUPPORT TROUBLESHOOTING**. - Continued

Table 5-1. Direct Support Troubleshooting

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

1. NO ELECTRICAL POWER TO SHELTER SYSTEM. - CONT.

Connect the primary power cable to the input power receptacle located near the door of the shelter.

NOTE

The cable connector and the receptacles are keyed to ensure proper connection.
The leads of the power cable are color coded as follows:

L1 - black - Pin 1
L2 - red - Pin 3
Ground - green - Pin 4 (marked with blue band)
LO - white - Pin 2

Step 4. Inspect main power cable for continuity as follows:

Disconnect power cable from shelter receptacle and generator.

Using a suitable test meter, check for continuity across power cable leads.

If necessary, repair/replace defective power cable as described in paragraph 5-10.

Step 5. Inspect main power receptacle for pin damage or faulty wiring as necessary.

If necessary, repair or replace main power receptacle as described in paragraph 5-11**.**

5-8. **DIRECT SUPPORT TROUBLESHOOTING**. - Continued

Table 5-1. Direct Support Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
2. CIRCUIT BREAKER WILL NOT REMAIN IN ON POSITION.
Step 1. Inspect the component served by the circuit breaker concerned for electrical defects in accordance with the applicable commercial manual. If necessary, rectify any defects in accordance with the applicable commercial manual.
Step 2. Inspect breaker involved for failure. If necessary, replace circuit breaker as described in paragraph 5-12.

SECTION IV. DIRECT SUPPORT MAINTENANCE PROCEDURES

5-9. **GENERAL**. The instructions contained in this section are for the use of direct support maintenance personnel responsible for maintenance of the press shelter unit of the special warfare printing plant. Procedures for general repair and maintenance are defined where they occur during the performance of maintenance activity covered by the various paragraphs of this section. Maintenance procedures for the items of equipment which form a part of the shelter system are included in the various commercial manuals supplied with the equipment.

Refer to TM 5-4120-378-14, Operator's, Organizational, Direct Support, and General Support Maintenance Manual, Air Conditioner for direct support maintenance and repair procedure pertaining to the air conditioners.

Refer to TM 10-5411-207-14 Maintenance and Repair Procedures for Shelter, Electrical Equipment for direct support maintenance and repair procedures pertaining to the shelter itself.

5-10. **MAIN POWER CABLE ASSEMBLY**.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools

Electrical equipment tool kit

Materials

None

a. Inspect. (See Figure 5-1.)

WARNING

DEATH or serious injury could result if electrical precautions are not taken when disconnecting this cable. Use extreme caution during the disconnect process. Disconnect the power source from power cable and disconnect cable.

(1) Inspect main power cable assembly of outside rear wall of shelter for deterioration of rubber insulation.

5-10. **MAIN POWER CABLE ASSEMBLY**. - Continued

a. Inspect. - Continued (See Figure 5-1.)

(2) Inspect main power cable assembly for general condition of insert, barrel, cable adapter, and protective cap.

(3) Inspect metal parts of main power cable assembly for corrosion.

b. Repair. (See Figure 5-1.)

(1) Loosen the connection on the main power cable assembly between the female barrel (1) and cable adapter (2) and separate unit.

(2) Separate the female barrel (1) and female insert (3) on the main power cable assembly.

(3) Install female barrel (1) and female insert (3) of the main power cable assembly in the threaded portion of the cable adapter (2) and tighten.

5-10. **MAIN POWER CABLE ASSEMBLY**. - Continued

b. Repair. - Continued (See Figure 5-1.)

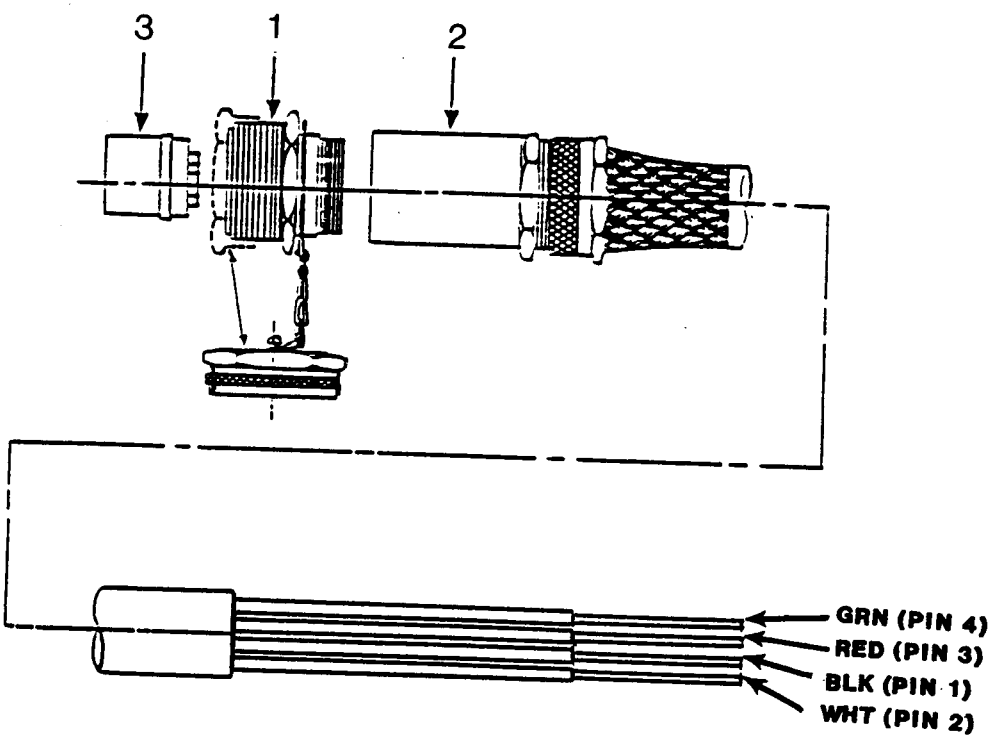


Figure 5-1. Main Power Cable Assembly

5-11. **MAIN POWER RECEPTACLE ASSEMBLY**.

This task covers: a. Inspect b. Replace c. Repair

INITIAL SETUP

Tools

Electrical equipment tool kit

Materials

None

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Use extreme caution during the disconnect process. Disconnect the power source from power cable and disconnect cable.

a. Inspect. (See Figure 5-2.)

(1) Inspect main power receptacle of outside rear wall of shelter for general condition and security of mounting.

(2) Inspect electrical connector pins of outside rear wall of shelter for damage and corrosion.

(3) Inspect knurled, threaded female portion of outside rear wall of shelter for thread damage and corrosion.

(4) Inspect protective cap and chain of outside rear wall of shelter for damage and security of chain attachment.

(5) Inspect electrical shield and mounting screws of outside rear wall of shelter for damage, security, and correct sealing.

b. Replace.

(1) Remove receptacle access plate (1, Figure 5-2) from receptacle box (2) (inside shelter) by removing attaching screws (3).

5-11. **MAIN POWER RECEPTACLE ASSEMBLY**. - Continued

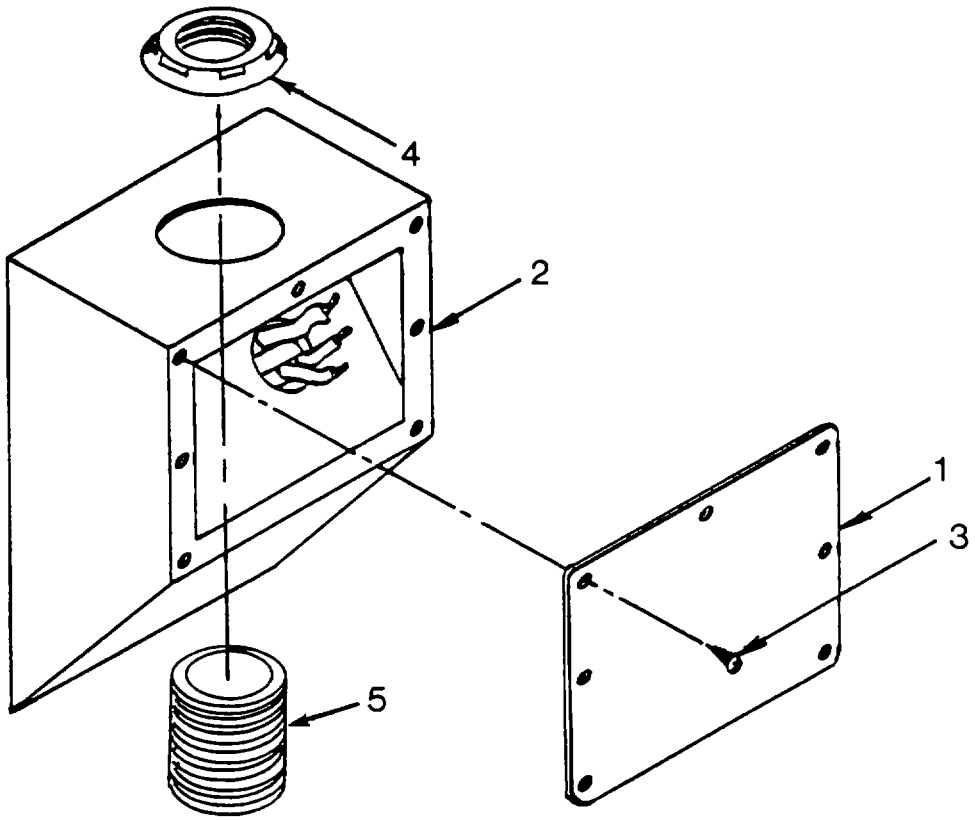


Figure 5-2. Main Power Cable Receptacle Assembly (Inside Shelter)

5-11. **MAIN POWER RECEPTACLE ASSEMBLY**. - Continued

b. Replace. - Continued

(2) Remove door and cover assembly (2) from main power service assembly by removing attaching screws (1). (See Figure 5-4.)

(3) Tag and unsolder four main electrical wires of main power service assembly from terminals. Remove conduit nut (4, Figure 5-2), conduit bushing (5) and wiring clamps as necessary.

(4) Remove nuts (1, Figure 5-3), lockwashers (2), flat washers (3), and screws (4) from main power receptacle.

(5) Remove cap (5), receptacle (6), and gasket (7) from recessed receptacle box.

(6) Remove rivets (8) from recessed receptacle box by drilling or chiseling off heads.

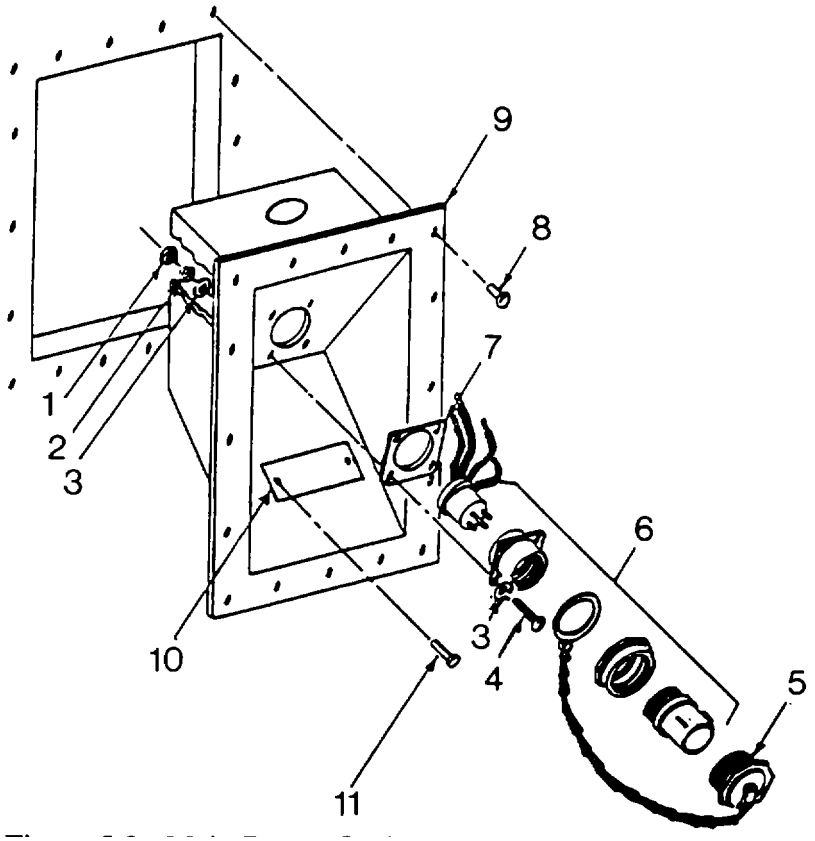


Figure 5-3. Main Power Cable Receptacle Assembly (Outside Shelter)

5-11. **MAIN POWER RECEPTACLE ASSEMBLY**. - Continued

b. Replace. - Continued

(7) Remove receptacle box (9) from shelter wall.

(8) Remove data plate (10) (power requirements) from receptacle box by drilling out rivets (11).

(9) Position data plate (10) (power requirements) on receptacle box (9), match drill holes, and secure with rivets (11).

(10) Position receptacle box (9) in shelter wall opening and secure with rivets (8).

(11) Install gasket (7), main power receptacle (6), and cap (5).

(12) Install screws (4), flat washers (3), lockwashers (2), and nuts (1).

(13) Install conduit bushing (5, Figure 5-2) and conduit nut (4).

(14) Solder four main electrical wires to terminals in the main service assembly. Install tie wraps as necessary.

(15) Position receptacle access plate on receptacle box (2) and secure with screws (3).

(16) Position door and cover assembly (2, Figure 5-4) on service box and secure with screws (1).

c. Repair. (See Figure 5-2 and figure 5-3.)

Repair of the main power receptacle consists of replacement of receptacle and cap, gasket, and wiring as necessary.

5-12. **MAIN POWER SERVICE ASSEMBLY**.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools

Electrical equipment tool kit

Materials

None

a. Inspect. (See Figure 5-4.)

(1) Inspect main power service box assembly of curbside of rear wall for dents, corrosion, and security of mounting.

(2) Inspect door and hinge on main power service box assembly for ease of movement, complete closure, proper latching, and legible circuit decals.

(3) Inspect circuit breaker aperture blanks for presence and security of mounting.

(4) Inspect circuit breakers for proper operation and security of mounting.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are unplugged/ disconnected, that circuit breakers are set to OFF, and that generator cables are unplugged/disconnected. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

5-12. **MAIN POWER SERVICE ASSEMBLY. -** Continued

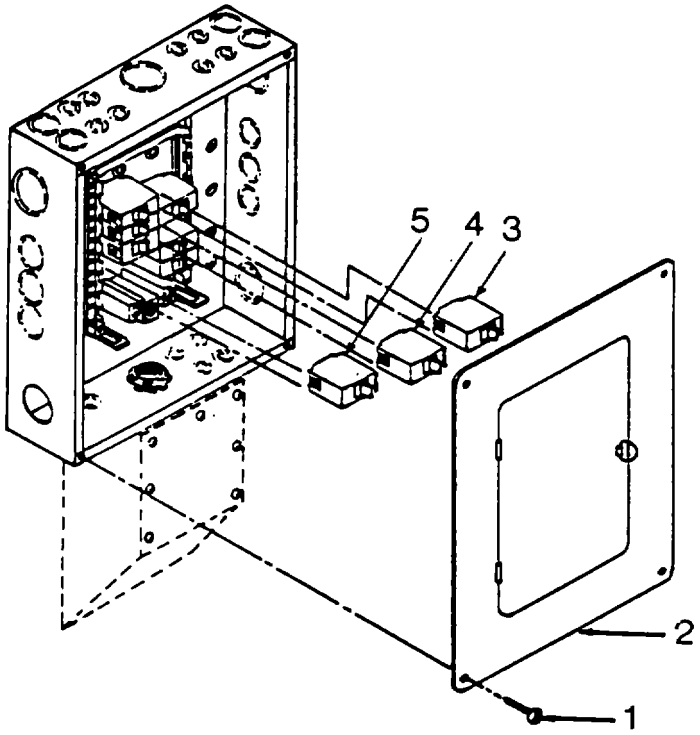


Figure 5-4. Main Power Service Assembly

b. Repair. (See Figure 5-4.) - Continued

(1) Remove circuit breaker panel cover (1) by removing cover attachment screws (2).

(2) Tag and disconnect circuit breaker wires.

(3) Pull circuit breakers (3, 4, 5) from mounting and contact bars. Repair of circuit breakers consists of replacement.

5-12. **MAIN POWER SERVICE ASSEMBLY**. - Continued

b. Repair. (See Figure 5-4.) - Continued

(4) Position replacement of circuit breaker (3, 4, 5) and push onto mounting and contact bars.

(5) Connect circuit breaker wire to circuit breaker terminal and remove tag.

(6) Position panel cover (1) on service box and secure with cover attachment screws (2).

5-13. **RIGID CONDUIT ASSEMBLY**.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools
Electrical equipment tool kit

Materials
None

a. Inspect. (See Figure 5-5.)

(1) Inspect conduit channels, channel covers and clips on shelter walls and ceiling for bends, breaks and sharp edges.

(2) Inspect conduit channels, channel covers and clips for corrosion and security of installation.

b. Repair. Repair of the rigid conduit assembly consists of replacing components as follows:

(1) Replace conduit.

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are disconnected and that circuit breakers are set to OFF. Be sure that equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

NOTE

Remove conduit as necessary. Complete removal of all conduit is not shown.

(a) Remove conduit bushings (1, Figure 5-5.)

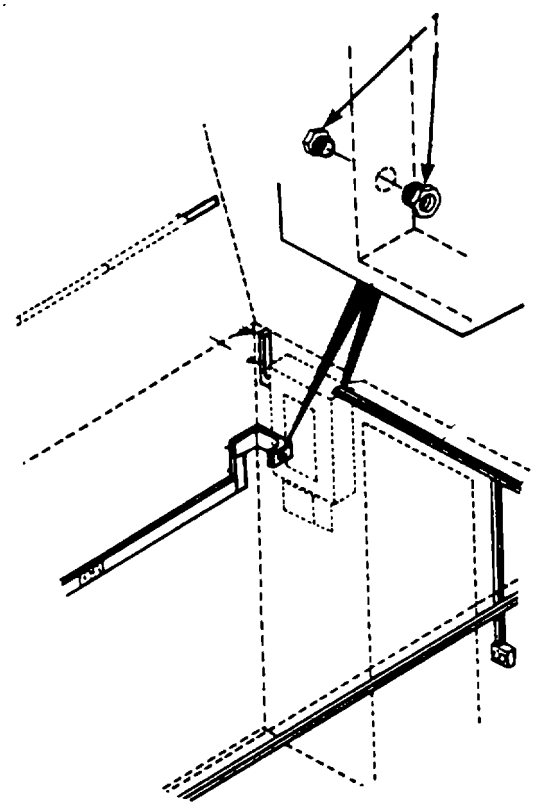


Figure 5-5. Conduit Bushings

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued

(b) Remove clips (1, Figure 5-6) and cover (2).

(c) Remove electrical wiring. (See paragraph 5-14).

(d) Remove screws (3) and rivets (4).

(e) Remove corner bracket (5) and channel (6).

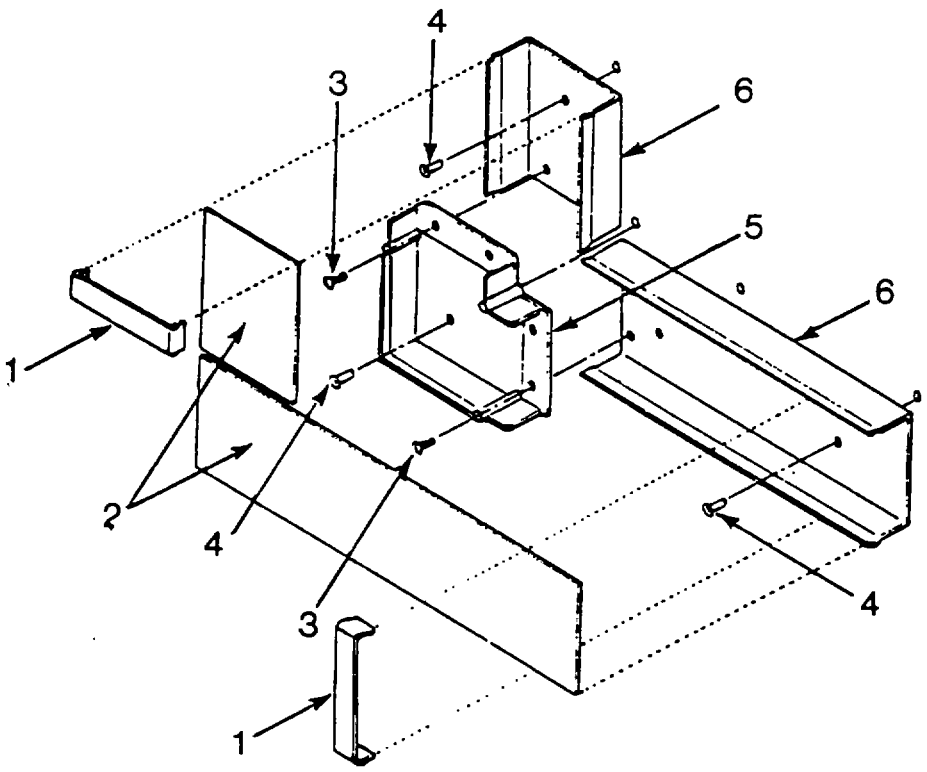


Figure 5-6. Rigid Conduit Assembly

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued

(f) Remove receptacle clips (1, Figure 5-7).

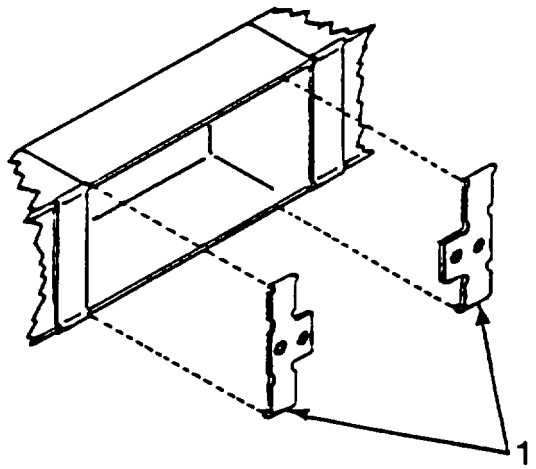


Figure 5-7. Receptacle Clips

(g) Install and secure conduit channel (6, Figure 5-6) with rivets (4).

(h) Install and secure corner bracket (5) with screws (3) and rivets (4).

(i) Install receptacle clips (1, Figure 5-7), cover (2, Figure 5-6), and conduit bushings (1, Figure 5-5).

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued.

(2) Replace Right Angle Corner Conduit. (See Figure 5-8.)

(a) Remove screws (1) and remove right angle bracket (2).

(b) Chisel off rivets (3) and remove channels (4).

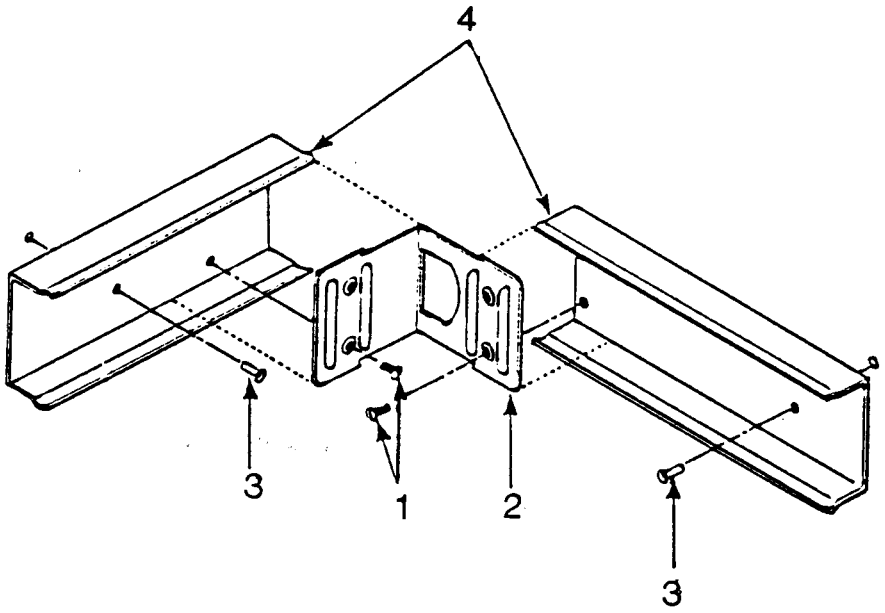


Figure 5-8. Right Angle Corner Conduit

(c) Install and secure channels (4) with rivets (3).

(d) Install and secure right angle bracket (2) with screws (1).

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued.

(3) Replace Entrance End Fitting. (See Figure 5-9.)

(a) Remove clip (1) from entrance end fitting.

(b) Remove screw (2) and fitting cover (3).

(c) Remove cover (4).

(d) Remove screws (5) and bracket (6).

(e) Remove rivets (7) and channel (8).

(f) Remove rubber grommet (9) and end fitting (10).

(g) Install and secure entrance end fitting channel (8) with rivets (7).

(h) Install and secure end fitting (10) and brackets (6) with screws (5).

(i) Install rubber grommet (9).

(j) Install cover (4) and clip (1).

(k) Install and secure fitting cover (3) with screws (2).

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued

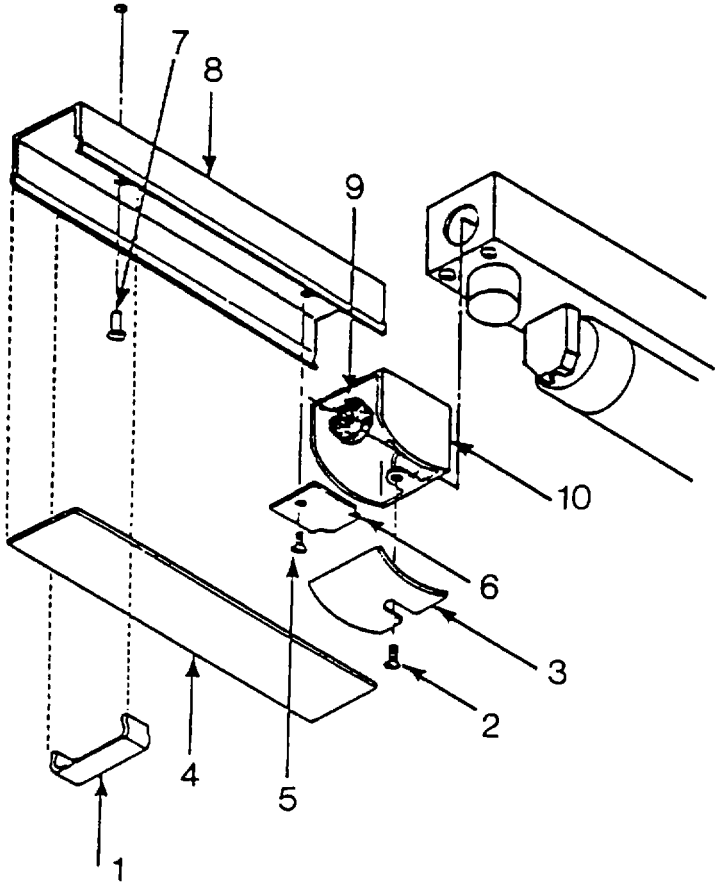


Figure 5-9. Entrance End Fitting

(4) Replace Utility Boxes. (See Figure 5-10.)

(a) Remove clip (1) and cover (2).

(b) Remove screws (3) and box (4).

(c) Remove rivets (5), channel (6) and box mounting plate (7).

(d) Install and secure mounting plate (7) and channel (6) with rivets (5).

5-13. **RIGID CONDUIT ASSEMBLY**. - Continued

b. Repair. - Continued.

(e) Secure box (4) to mounting plate (7) with screws (3).

(f) Install cover (2) and clip (1).

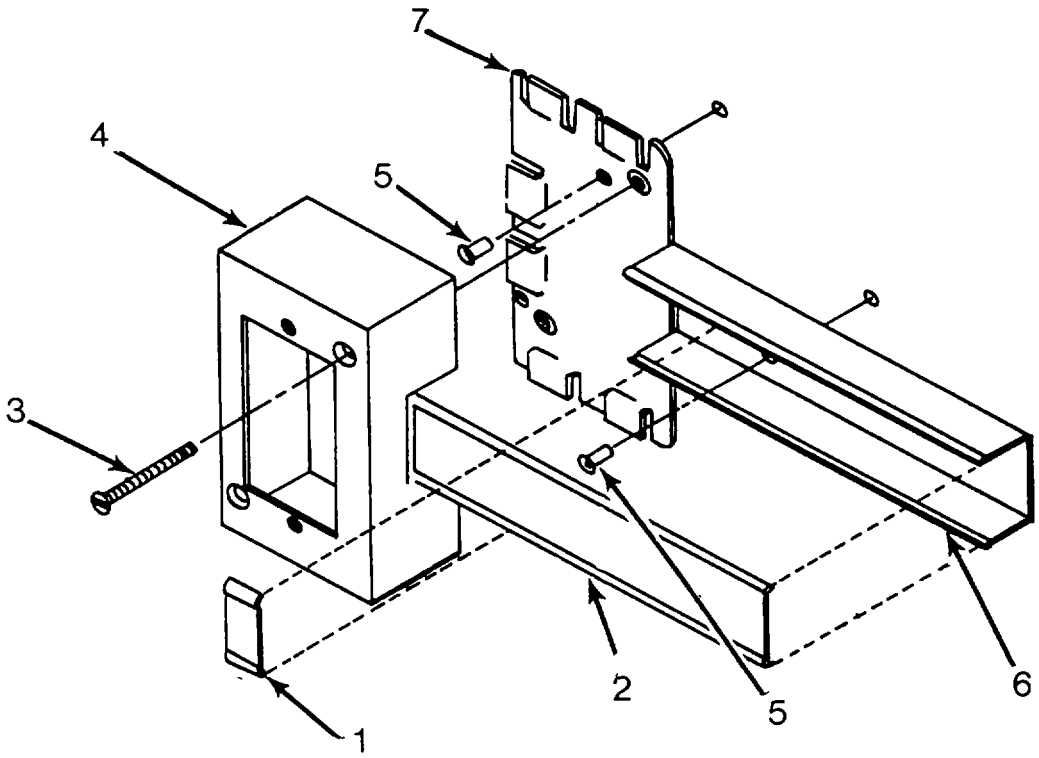


Figure 5-10. Utility Boxes

5-14. **ELECTRICAL WIRING ASSEMBLY**.

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools
Electrical equipment tool kit

Materials
None

a. Inspect.

WARNING

DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that power cables are disconnected and that circuit breakers are set to OFF. Be sure that equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

(1) Inspect electrical wires inside rigid conduit for burnt, cracked or missing insulation.

(2) Inspect electrical wires for frayed, broken, corroded or exposed conductors.

(3) Inspect electrical wires for loose or improper connection.

(4) Inspect electrical wires for security of mounting (safely held inside conduit with wire clips).

b. Repair. Electrical wiring repair consists of replacing components. (See Figure 5-11).

(1) Remove conduit cover clips, cover and wire clips as required. Refer to paragraph 5-13.

(2) Tag electrical wires, disconnect from terminals and remove from conduit, as necessary.

(3) Install electrical wires (cut to length) in conduit, connect to terminals and remove tags. (See Figure 5-11. Electrical Wiring Diagram for proper connections).

5-14. **ELECTRICAL WIRING ASSEMBLY**. - Continued

b. Repair. - Continued.

(4) Install conduit wire clips, channel cover and cover clips. Refer to paragraph 5-13.

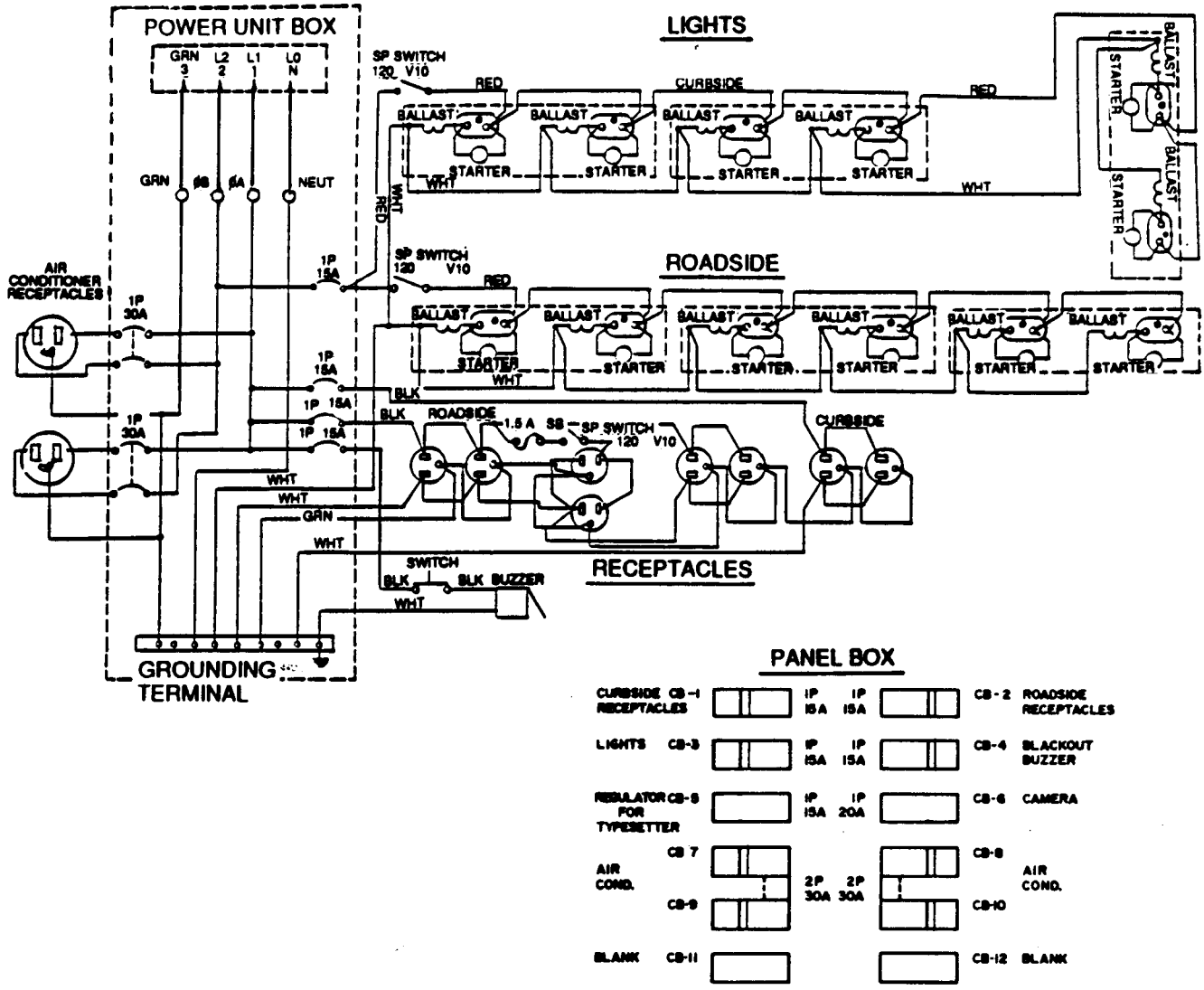


Figure 5-11. Electrical Wiring Diagram

APPENDIX A

REFERENCES

A-1. **SCOPE.**

This appendix lists all forms, field manuals, technical bulletins, technical manuals and miscellaneous publication referenced in this manual.

A-2. **FORMS**.

Equipment Daily or Monthly Log..... DA Form 2408-1
Equipment Inspection and Maintenance
Work Sheet..... DA Form 2404
Maintenance Request..... DA Form 2407
Quality Deficiency Report..... SF 368
Packaging Improvement Report..... DD Form 6
Recommended Changes to DA Publications ..... DA Form 2028-2
Uncorrected Fault Record ..... DA Form 2408-14

A-3. **TECHNICAL MANUALS.**

Printing Plant, Light Weight;
Module A, NSN 3610-01-106-2276..... TM 5-3610-295-13&P

Air Conditioner
NSN 4120-01-136-2214..... TM 5-4120-378-14/24P

Generator, 15 KW (PU405A/M)..... TM 5-6115-594-14&P/HR
6115-00-394-9577..... TM 5-6115-464-12/34
. ..... TM 5-6115-625-14&P

Trailer for Generator, 2 1/2 Ton..... TM 9-2330-205-14&P

Truck, Cargo; 2 1/2 ton..... LO 9-2320-209-12-1
2320-00-926-0873..... TB 9-2320-209-14
..... TB 43-0213
..... TM 9-2300-422-23&P
..... TM 9-2320-209-10-1
..... TM 9-2320-209-10-2
..... TM 9-2320-209-10-3
..... TM 9-2320-209-10-4
..... TM 9-2320-209-20-1
..... TM 9-2320-209-20-2-1
..... TM 9-2320-209-20-2-2
..... TM 9-2320-209-20-3-1
..... TM 9-2320-209-20-3-2

A-3. **TECHNICAL MANUALS**. - Continued

Truck, Cargo; 2 1/2 ton - Continued
..... TM 9-2320-209-20-3-3
..... TM 9-2320-209-20-3-4
..... TM 9-2320-209-20P
..... TM 9-2320-209-34-1
..... TM 9-2320-209-34-2-1
..... TM 9-2320-209-34-2-2
..... TM 9-2320-209-34-2-3
..... TM 9-2320-209-34P
..... TM 43-0001-31
..... TM 55-2320-209-15-1

Shelter, Electrical; S-280C/G ..... TM 10-5411-207-14
..... TM 10-5411-207-24P

Papercutter, 20 inch ..... TM 5-3610-300-12&P

Procedures for Destruction of Equipment ..... TB 750-244-3
to Prevent Enemy Use

Duplicating Machine ..... TM 5-3610-298-12&P

A-4. **MISCELLANEOUS PUBLICATIONS**.

The Army Maintenance Management System ..... DA PAM 738-750

APPENDIX B

MAINTENANCE ALLOCATION CHART

SECTION I. INTRODUCTION

B-1. **GENERAL**.

a. This section provides a general explanation of all maintenance and repair functions 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 or 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 I 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. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

B-2. **MAINTENANCE FUNCTIONS**. - Continued

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. 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 equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, or replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) 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.

j. Overhaul. That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) 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.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

B-3. **COLUMN ENTRIES USED IN THE MAC**.

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 Functions. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see paragraph B-2.)

B-3. **COLUMN ENTRIES USED IN THE MAC**. - Continued

d. Column 4, Maintenance Level. Column 4 specifies (by listing of a work time figure in the appropriate subcolumn(s)), the level of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that 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 work time 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 (including any necessary disassembly/assembly time), troubleshooting/fault location 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 maintenance allocation chart.
The symbol designations for the various maintenance levels are as follows:

The symbol designations for the various maintenance levels are as follows:

Code	Explanation
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, and support equipment required to perform the designated function.

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

B-4. **COLUMN ENTRIES USED IN TOOL AND TEST EQUIPMENT REQUIREMENTS**.

a. Column 1, Tool or Test Equipment Reference Code. The tool and test equipment reference code correlates with a maintenance function on the identified end item or component.

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 or NATO stock number of the tool or test equipment.

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

B-5. **EXPLANATION OF COLUMNS IN SECTION IV**

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

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

SECTION II. MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP.	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Press Shelter								
01	Duplicating Machine	Inspect Replace	0.2	0.5			4.0		A
	Modifications	Inspect Replace		0.1 0.4				1	
02	Plunger Can Assembly	Inspect Replace	0.1	0.1 0.5				1	
03	Cabinet, Assembly, Storage	Inspect Replace	0.2	1.0				1	
04	Paper cutter Assembly	Inspect Replace	0.2	0.2			6.0		B
05	Stool Holddown Assembly	Inspect Replace	0.1	1.0				1	
06	Storage Bench Cabinet Assembly	Inspect Replace Repair	0.2	1.5 0.7				1 1	
07	Water Supply Cabinet Assembly	Inspect Repair Replace	0.2	2.2			8.0	1	
08	Water Tank and Mounting Assembly	Inspect Repair	0.2	2.0				1, 4	
09	Counter Top and Sink Assembly	Inspect Repair	0.2	0.2 1.5				1, 4	
10	Wall, Cabinet Assembly	Inspect Replace Repair	0.2	0.5 1.0				1 1	
11	Air Conditioner Assembly	Inspect Replace	0.5	2.0				1, 2	C
12	Fire Extinguisher Assembly	Inspect Replace	0.1	0.2				1	

SECTION II. MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP.	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
13	First Aid Kit Assembly	Inspect	0.1						
		Replace		0.2				1	
14	Blackout Warning Assembly	Inspect	0.1						
		Replace		0.5				2, 3	
		Repair		0.5				2, 3	
15	Door Blackout Lockpin Assembly	Inspect	0.1						
		Replace		0.3				1, 4	
16	Door Fresh Air Filter Assembly	Inspect	0.1						
		Service	0.5					1	
		Replace		0.3				1	
17	Ladder Assembly	Inspect	0.1					1	
		Replace		0.3				1	
18	Telephone Binding Post Assembly	Inspect	0.1						
		Replace		1.0				1	
		Repair		0.5				1	
19	Level Indicator Assembly	Inspect	0.1	0.1					
	Replace			2.0				1	
20	Lamp Assembly, Ceiling	Inspect	0.2						
	Replace			1.0				2	
	Repair		0.2						
21	Lamp and Water Pump Switches	Inspect	0.1	0.1					
		Replace		0.5				2, 3	
22	Equipment Receptacles	Inspect	0.1						
	Replace			0.5				2, 3	
23	Gun Rack	Inspect	0.2						
		Replace		0.5				1	
24	Telephone Bracket	Inspect	0.2						
		Replace		0.5				2	
25	Roller Rack	Inspect	0.2						
		Replace		0.5				1	

SECTION II. MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP.	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
26	Main Power Cable Assembly	Inspect	0.2	0.2					
		Repair			1.0			2	
27	Main Power Receptacle	Inspect	0.2	0.2					
		Replace			1.0			2	
		Repair			1.0			2	
28	Main Power Service Box Assembly	Inspect	0.2	0.2					
		Repair			0.5			2	
29	Conduit, Rigid	Inspect		0.2					
		Repair			2.0			2	
30	Electrical Wiring Assembly	Inspect		0.2					
		Repair			2.0			2, 3	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS
MODULAR PRINTING SYSTEM, PRESS SHELTER

REFERENCE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	O	General Mechanics Automotive Tool Kit	5180-00-177-7033	SC5180-90-CL-N26
2	O	Electrical Equipment Tool Kit	5180-00-876-9336	7550526 (19204)
3	O	Multimeter, Digital	6625-01-139-2512	T00377 (55026)
4	O	Wrench, Pipe	5120-01-192-9385	PW18B (55719)
5	O	Hand Blind Riveter	5120-00-017-2849	98 (61957)

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	Consult TM 5-3610-298-12&P for maintenance instructions and repair parts.
B	Consult TM 5-3610-300-12&P for maintenance instructions and repair parts.
C	Consult TM S-4I20-378-14/24P for maintenance instructions and repair parts.

APPENDIX C
COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

SECTION I. INTRODUCTION

C-1. **SCOPE.** This appendix lists components of end item and basic issue items for the press shelter to help you inventory items required for safe and efficient operation.

C-2. **GENERAL.** The Components of End Item and Basic Issue Items lists are divided into the following sections:

a. Section II. Components of End Item. This listing is for information purposes only, and is not authority to requisition replacements. These items are connected, coupled, linked, affixed, mounted, or combined with other components to form the end item. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the press shelter in operation, to operate it, and to perform emergency repairs. Although packaged separately BII must be with the press shelter during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorized of the end item.

C-3. **EXPLANATION OF COLUMNS.** The following provides an explanation of column found in the tabular listings:

a. Column (1) - Illustration Number (Illus Number). This column indicates the number of the illustration in which the item is shown.

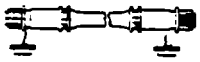
b. Column (2) - National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning purposes.

c. Column (3) - Description. Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the CAGE (in parentheses) followed by the part number.

d. Column (4) - Unit of Measure (U/M). Indicates the measure used in performing the actual operation/maintenance function. This measure is expressed by a two character alphabetical abbreviation (e.g., ea. in, pr).

e. Column (5) - Quantity Required (Qty Rqr). Indicates the quantity of the item authorized to be used with/on the equipment.

SECTION II. COMPONENTS OF END ITEM



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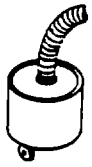
2

3



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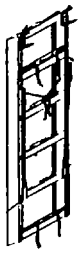

5

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7

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
1	Not Assigned	CABLE ASSEMBLY, POWER, MALE/FEMALE 50 ft., (81337) 5-4-6728		EA	2
2	Not Assigned	CABLE ASSEMBLY, POWER FEMALE 6 ft., (81337) 5-4-6727		EA	1
3	3610-00-690-7152	PLUNGER CAN AND HOLDER		EA	1
4	7910-00-267-1205	CLEANER, VACUUM		EA	1
5	2540-00-892-6243	LADDER, STEEL, BOARDING		EA	1
6	5975-00-878-3971	ROD, GROUND, COPPER		EA	1
7	5120-01-013-1676	SLIDE HAMMER, GROUND ROD		EA	1

SECTION II. COMPONENTS OF END ITEM

8

9

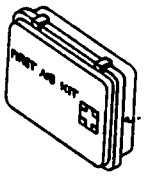
10

11

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
8	3940-00-846-9858	SLING, MULTIPLE LEG LIFTING AND TIEDOWN		EA	1
9	7110-00-634-8596	STOOL, REVOLVING		EA	2
10	4730-00-360-0944	COUPLING HALF, QUICK DISCONNECT (82995) PLN-5-15-129-11		EA	1
11	4720-00-882-1379	HOSE, NONMETALLIC		FT	7

SECTION III. BASIC ISSUE ITEMS

1



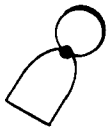
2

3

4

5

6



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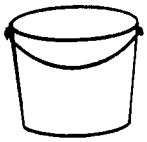


10

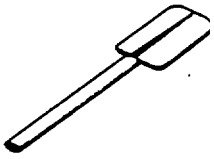
(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
1	4210-00-165-4703	EXTINGUISHER, FIRE		EA	1
2	6545-00-922-1200	FIRST AID KIT		EA	1
3	3610-00-733-2467	FUNNEL, STEEL		EA	1
4	3610-00-843-5747	GAGE, TYPE		EA	1
5	4240-00-052-3776	GOGGLES, INDUSTRIAL		PR	2
6	4930-00-253-2478	LUBRICATING GUN, HAND		EA	1
7	6650-00-255-8268	MAGNIFIER, MONOCULAR		EA	1
8	7240-00-889-3765	MEASURE, GRADUATED		EA	1
9	4930-00-141-8703	OILER, HAND		EA	1
10	7240-00-246-1097	PAIL, UTILITY		EA	1

SECTION III. BASIC ISSUE ITEMS

11

12

13



14

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
11	6685-00-826-1662	PSYCHROMETER		EA	1
12	3610-00-843-5797	ROD, STIRRING		EA	2
13	7510-00-224-7242	SHIELD, ERASING		EA	2
14	6640-00-140-7031	SPATULA, LABORATORY		EA	2

APPENDIX D

ADDITIONAL AUTHORIZED LIST ITEMS

SECTION I. INTRODUCTION

D-1. **SCOPE.**

This appendix lists additional items you are authorized for the support of the Press Section.

D-2. **GENERAL.**

This list identifies items that do not have to accompany the Press Section and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

D-3. **EXPLANATION OF LISTING.**

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

SECTION II. ADDITIONAL AUTHORIZATION LIST.

NSN	DESCRIPTION	QTY
4120-01-136-2214	AIR CONDITIONER	4 EA
6115-00-394-9577	GENERATOR, 15 KW	2 EA
2320-00-926-0873	TRUCK, CARGO; 2 1/2 TON	2 EA

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST

SECTION I. INTRODUCTION

E-1. **SCOPE.**

This appendix lists expendable supplies and materials you will need to operate and maintain the press shelter. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

E-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 dry cleaning solvent (item 10, app E)").

b. Column 2 - Category. This column identifies the lowest category of maintenance that requires the listed item.

C- Operator/Crew
O - Unit Maintenance
F - Intermediate Direct Support Maintenance
H - Intermediate General Support Maintenance

c. Column 3 - National Stock Number. This is the National stock number 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 of each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses, followed by the part number.

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 alphabetic abbreviation (e.g., ea. in, pr). A "V" in this column indicates that the amount used will vary. If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II. EXPENDABLE/DURIBLE SUPPLIES AND MATERIAL LIST

(1) ITEM NUMBER.	(2) CATEGORY	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	O	8040-00-843-0802	ADHESIVE/SEALER: silicone, clear, Type 1 (81349) MILA-46106	OZ
2	O	8040-00-865-8991	ADHESIVE/SEALANT, Silicone RTV, General, Purpose Black, 12 oz	CA
3	O	8040-00-225-4548	ADHESIVE/SEALANT, Silicone RTV, General Purpose, White, 12 oz	CA
4	C	8135-00-753-4661	BARRIER MATERIAL: grease-proofed, waterproofed, flexible (81349) MIL-B-121	V
5	C	8305-00-205-3496	CHEESECLOTH, BLEACHED: 95 oz to sq yd, cotton fiber basic, 10 yd C12 and Type 2 (81348) CCC-C440	PG
6	C	6850-01-123-8892	CLEANER, CONDITIONER, LITHOGRAPHIC PLATE; 1 qt size (76381) 77-9800-7222-5	BT
7	C	3610-01-063-1191	CLEANER, SHEET, OFFSET PRINTING PRESS: 1 1x18 in., 20 sheets per pack (00494) 50-2503A	PG
8	C	4130-00-860-0042	COATER, FILTER: A/C, pint can (80009) 006-0580-00	PT
9	C	8030-00-526-1605	COMPOUND, CORROSION PREVENTIVE: grade 4 (80244) MIL-C-16173	GL
10	C	8030-40-285-1570	COMPOUND, CORROSION PREVENTIVE: petroleum (81349) MIL-C-11796	LB
11	C	8030-04-058-5398	COMPOUND, LOCKING AND RETAINING (81349) MIL-S-22473	LB
12	C	8030-00-576-8371	COMPOUND, FIXTURE SETTING (77628) G236	OZ
13	C	8030-00-209-8005	COMPOUND, SEALING, PIPE JOINT AND THREAD (81348) TT-S-1732	PT
14	C	8320-00-299-8625	COTTON, NON-STERILE	PG
15	C	3610-01-294-5520	COVER, TRANSFER, ROLLER	PG

SECTION II. EXPENDABLE/DURIBLE SUPPLIES AND MATERIAL LIST

(1) ITEM NUMBER.	(2) CATEGORY	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
16	C	7510-01-125-4668	DELETION FLUID: 4 oz. (52942) 77-9800-7205-0	BX
17	C	6750-01-290-5176	DELETION FLUID PMT II: (19139) 348-8715	EA
18	C	3610-00-066-6629	DISPENSER, SOLUTION: I pt (00494) 200-849	PT
19	O	6850-00-281-1985	DRYCLEANER SOLVENT: SDII (81348) P-D-680	GL
20	C	7510 00-582-3756	ERASERS, IMAGE: Type 7 (81349) ZZ-E-00661	DZ
21	C	3610-00-843-5447	GARLAND, STATIC ELIMINATOR (95320) C42	EA
22	C	8415-00-248-3228	GLOVES,DISPOSABLE (12901) 1R100	BX
23	C	Not Assigned	GUM, CLEAR SUBTRACTIVE: For use with 3m Viking offset plates, I qt size, (52942) 77-9801-6645-6	QT
24	C	8520-00-527-9942	HAND CLEANER: Liquid for removing duplicating ink, 1 pt can, Type I, Class I (81348) P-H-31	PT
			INK, DUPLICATING, LITHOGRAPHIC PROCESS: PMS oil base, 1 lb can, Van Son Ink Corp. Issue in following colors: (55629)	
25	C	Not Assigned	Yellow, VS-701	CN
26	C	Not Assigned	Warm Red, VS-702	CN
27	C	Not Assigned	Rubine Red, VS-703	CN
28	C	Not Assigned	Rhodamine Red, VS-704	CN
29	C	Not Assigned	Purple, VS-705	CN
30	C	Not Assigned	Reflex Blue, VS-706	CN
31	C	Not Assigned	Process Blue,VS-707	CN

SECTION II. EXPENDABLE/DURIBLE SUPPLIES AND MATERIAL LIST

(1) ITEM NUMBER.	(2) CATEGORY	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
35	C	6240-00-152-2982	LAMP, FLUORESCENT: 15w	EA
36	C	6850-00-291-0963	LITHOGRAPHIC BLANKET ROLLER WASH: Multilith (00494) O-L-298	GL
37	C	6850-01-253- 1097	LITHOGRAPHIC FOUNTAIN CONCENTRATE: 1 qt size, (28174) 77-9803-1874-3	GL
38	C	9150-00-252-6173	LUBRICATING OIL, GENERAL PURPOSE: Non-corrosive, low viscosity, 4 oz can (81348) VV-L-820	CM
39	C	3610 00 243-3697	OFFSET BLANKET: Black, multilith (09177) 200W1017-9A	EA
40	C	9310-00-555 4969	PAPER, BOOK: llX17 in. white grain long, 50 lb, 5 sub, Type II, 500 per ream (81348) UU-P-465	BX
41	C	3610-00-943-0439	PARTS KIT, OFFSET: Dampener set consisting of: 1 ea Form Cover F2 1 ea Ductor Cover D2 1 ea Hylton F2 Tube 1 ea Hylton D2 Tube (75271) D2Fs (00494)	KT
42	C	5350 00	161-9034 PUMICE, TECHNICAL: Pulverized, 5 lb can	CN
43	C	3610-00-843-5369	REJUVENATOR,BLANKET (23953) NYl21	GL
44	C	6850-01-293-7736	ROLLER CLEANER: 12 oz size, (55269) V2082	CN
45	C	6850-01-293-0608	SCRATCH REMOVER, LITHOGRAPHIC PLATE: for use with 3m Viking offset plates, 3m Viking offset plates, (52942) 77-9801-0712-0	BT
46		7920-00-240-2555	SPONGE, CELLULOSE	EA

SECTION II. EXPENDABLE/DURIBLE SUPPLIES AND MATERIAL LIST

(1) ITEM NUMBER.	(2) CATEGORY	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
47	C	6850-01-293-7735	SPRAY, ANTI-SKIN: 16 oz size can,	EA
48	C	6250-00-299-2884	STARTERS, FLUORESCENT BULB: Glow starter, lamp watt 14-20, lamp volt 110 nom (04655) FS2NA	EA
49	C	8030-00-889-3535	TAPE, THREAD SEAL, ANTI-SEIZING; 1/2 x 610 inch roll	EA
50	C	7510-01-293-2988	VARNISH, LITHOGRAPHIC: 1 lb can, (55269) V2159	CN

APPENDIX F

UNIT AND DIRECT SUPPORT MAINTENANCE

(INCLUDING DEPOT MAINTENANCE)

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. **SCOPE**. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit and Direct Support maintenance of the Press Shelter. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. **GENERAL**. In addition to this section, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

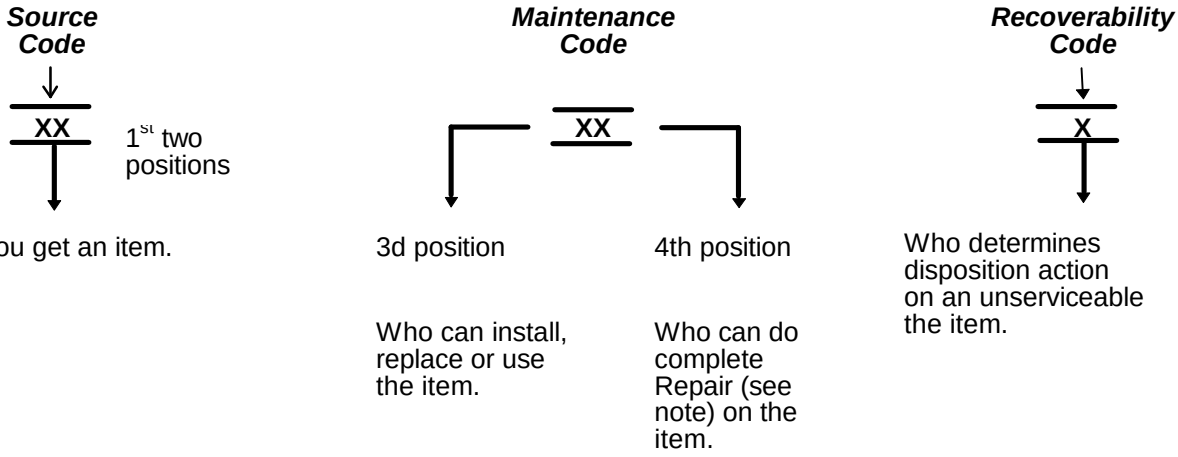
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-references Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item number in alphanumeric sequence and cross references NSN, CAGEC and part number.

3. **EXPLANATION OF COLUMNS (SECTIONS II AND III).**

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

b. SMR Code (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



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

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

Code	Explanation
PA, PB, PC**, PD, PE, PF, PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD, KF, KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.

	Explanation
MO - (Made at org AVUM Level) MF - (Made at DS/AVUM Level) MH - (Made at GS Level) ML - (Made at Specialized Repair Activity(SRA)) MD - (Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION and USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

Code	Explanation Explanation
AO - (Assembled at org AVUM Level) AF - (Assembled by DS/AVIM Level AH - (Assembled by GS Category) AL - (Assembled by SRA) AD - (Assembled by Depot)	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the items are assembled at a higher level, order the item from the higher level of maintenance.

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

NOTE

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

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

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

Code Application/Explanation

C - Crew or operator maintenance done within organizational or aviation unit maintenance.

O - Organizational or aviation unit category can remove, replace, and use the item.

F - Direct support or aviation intermediate level can remove, replace, and use the item.

H - General support level can remove, replace, and use the item.

L - Specialized repair activity can remove, replace, and use the item.

D - Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e. , perform all authorized repair functions.) NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes. This position will contain one of the following maintenance codes.

Code Application/Explanation

O - Organizational or (aviation unit) is the lowest level that can do complete repair of the item.

F - Direct support or aviation intermediate is the lowest level that can do complete repair of the item.

H - General Support is the lowest level that can do complete repair of the item.

L — Specialized repair activity is the lowest level that can do complete repair of the item

D — Depot is the lowest level that can do complete repair of the item

Z — Nonreparable. No repair is authorized

B — No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubricating, etc. , at the user level

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

Recoverability Codes	Application/Explanation

Z — Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code

O — Reparable item. When not economically reparable, condemn and dispose of the item at organizational or aviation unit level

F — Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level

H — Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level

D — Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level

L — Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA)

A — Item requires special handling or condemnation procedures because of specific reasons (e. g. , precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions

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

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

NOTE

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

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item

(2) The physical security classification of the item is indicated by the parenthetical entry, e. g. ,PhySec C1 Confidential, Phy Sec C1 (S) Secret, Phy Sec C1 (T) Top Secret

(3) Items that are included in kits and sets are listed below the name of the kit or set

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC)

(7) The usable on code, when applicable (see paragraph 5, Special Information)

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III

(10) The indenture, shown as dots appearing before the repair part, indicates that the item is a repair part of the next higher assembly

f. QTY (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and may vary from application to application

4. EXPLANATION OF COLUMNS (SECTION IV)

a. NATIONAL STOCK NUMBER (NSN) INDEX

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN, i. e

NSN
5305-01-574-1467
NIIN

When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III

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

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i e. , vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order)

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

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGEC columns to the left

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

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

c. FIGURE AND ITEM NUMBER INDEX

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

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

(3) STOCK NUMBER column. This column lists the NSN for the item

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

(5) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items

5. SPECIAL INFORMATION

a. USABLE ON CODE. The usable on code appears in the lower corner of the Description column heading. Usable on codes are shown as "UOC:....." in the Description Column (justified left) on the last line applicable item description/nomenclature. Uncoded items are applicable to all models

b. ASSOCIATED PUBLICATIONS. Refer to Appendix A, References

6. HOW TO LOCATE REPAIR PARTS

a. When National Stock Number or Part Number is NOT Known

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

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

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

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

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

b. When National Stock Number or Part Number is Known

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see c-a. (1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph c4. b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for

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

7. ABBREVIATIONS. Abbreviations used in this manual are listed in MIL-STD-12

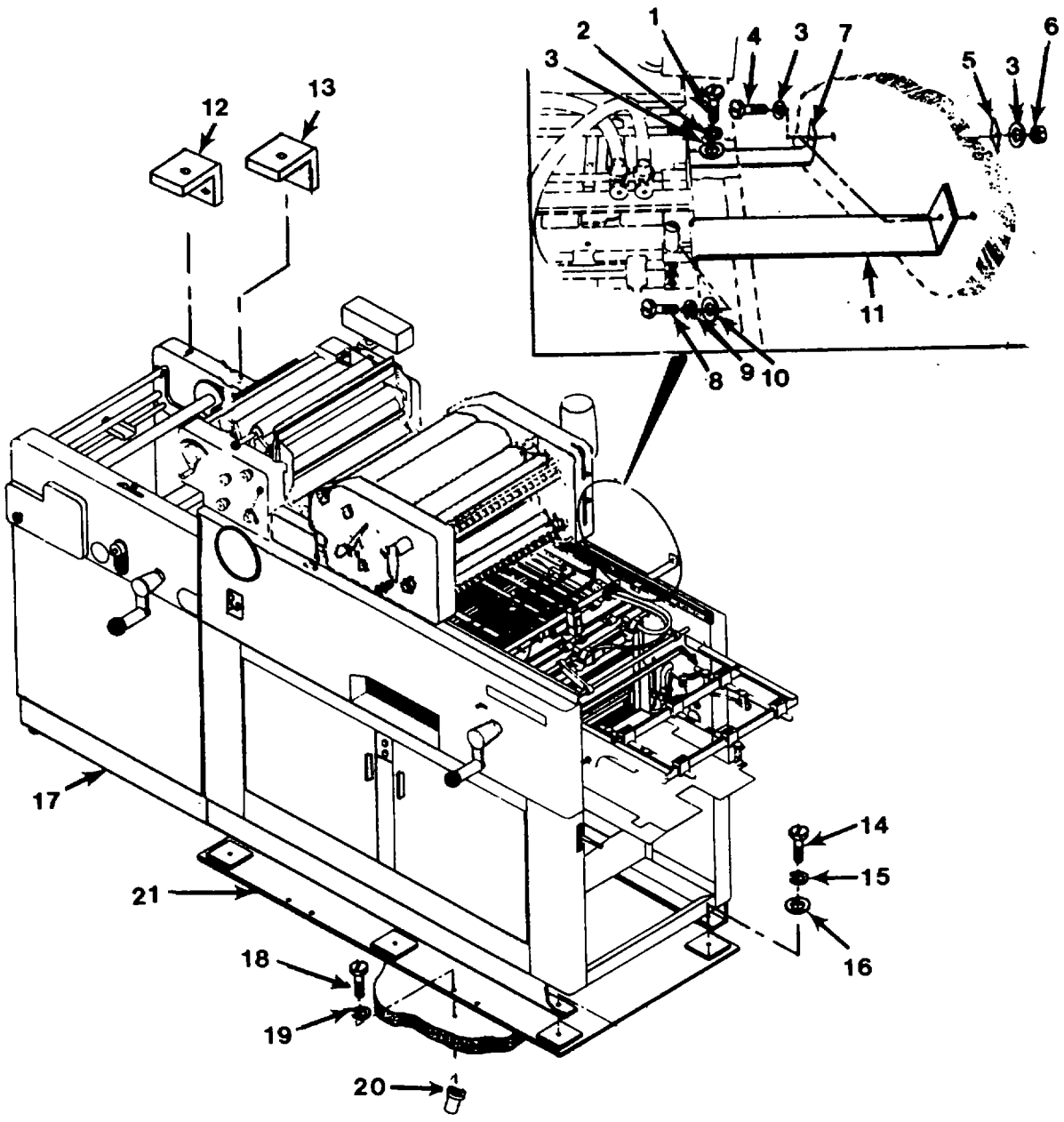


Figure 1. Duplicating Machine Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01 DUPLICATING MACHINE	
				FIG. 1 DUPLICATING MACHINE INSTALLATION	
1	XDOZZ	96906	MS90726-3	.SCREW,CAP,HEX HD	1
2	XDOZZ	96906	MS35338-44	.WASHER,LOCK	3
3	XDOZZ	96906	MS27183-10	WASHER,FLAT	3
4	XDOZZ	96906	MS90725-18	.SCREW,CAP,HEXAGON H	2
5	XDOZZ	81337	6-1-7547-6	.PLATE,WASHER,EXT	2
6	XDOZZ	96906	MS35649-2252	.NUT,PLAIN,HEXAGON	2
7	XDOZZ	81337	6-1-7547-7	.BRACKET,MOUNTING	1
8	XDOZZ	96906	MS35267-63	.SCREW,FILLSTER HD 10X1/2	1
9	XDOZZ	96906	MS16213-60	.WASHER,EXT.TOOTH	1
10	XDOZZ	96906	MS27183-9	.WASHER,FLAT	1
11	XDOZZ	81337	6-1-7547-4	.BRACKET,MOUNTING	1
12	XDOZZ	81337	6-1-7547-10	.MOUNT,STACKER	1
13	XDOZZ	81337	6-1-7547-11	.MOUNT,STACKER	10
14	XDOZZ	96906	MS90726-82	.SCREW,CAP,HEXAGON H	6
15	XDOZZ	96906	MS35338-47	.WASHER,LOCK	6
16	XDOZZ	96906	MS27183-15	.WASHER,FLAT	6
17	PDDDD	09177	1250/T-51	.DUPLICATING MACHINE	1
18	XDOZZ	96906	MS90726-35	.SCREW,CAP,HEX HD 5/16 X 1-1/8	8
19	XDOZZ	96906	MS35338-45	.WASHER,LOCK	8
20	XDOZZ	96906	MS27130-A51	.NUT,BLIND RIVET FLAT HD	8
21	XDDZZ	81337	6-1-7547-1	.PLATE,FLOOR,DUP	1
				END OF FIGURE	

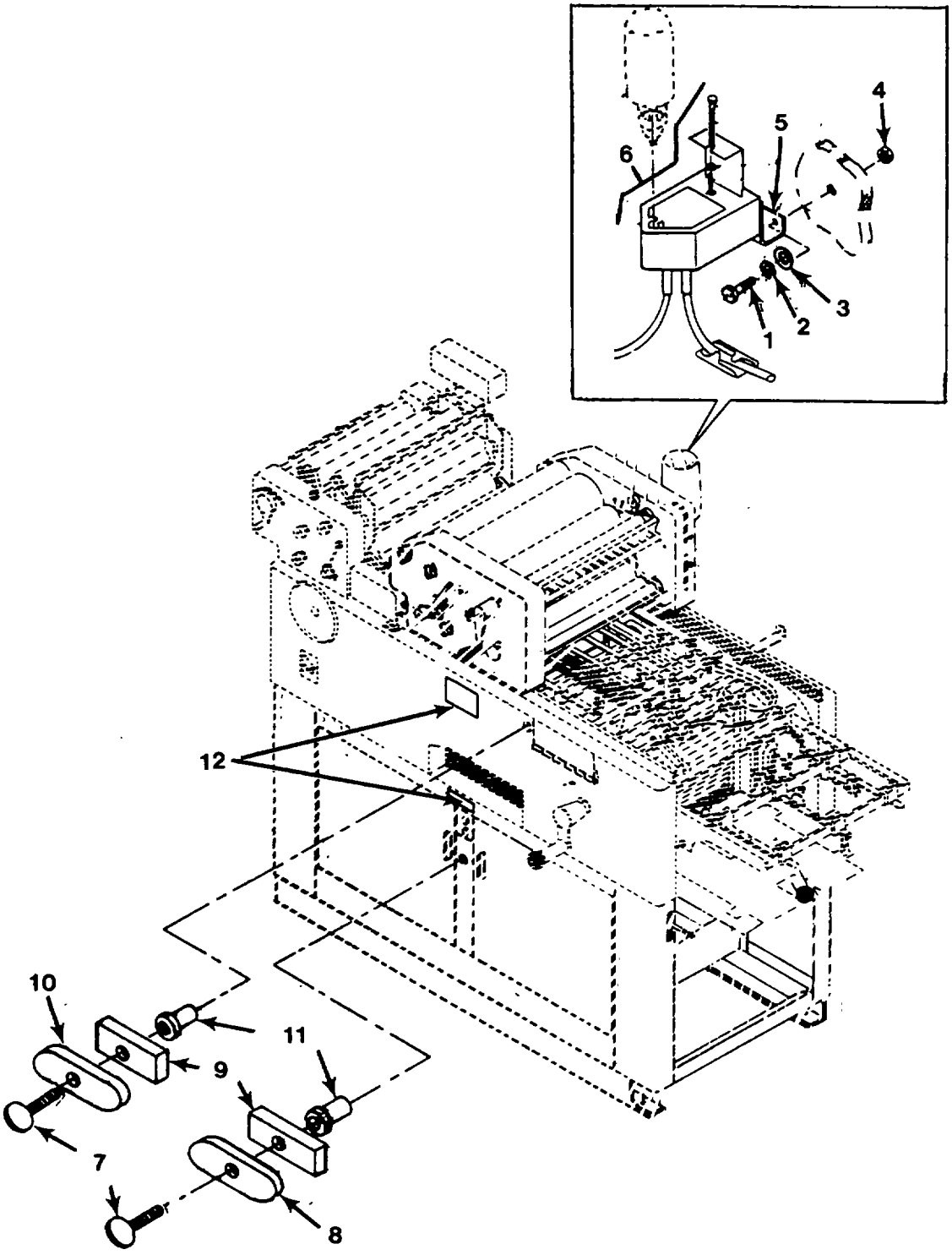


Figure 2. Duplicator Modifications

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01 DUPLICATING MACHINE	
				FIG. 2 DUPLICATOR MODIFICATIONS	
	XCOOO	81337	1-6-6156	DUPLICATOR MODIFICA	1
1	XDOZZ	96906	MS35206-262	.SCREW,MACHINE	2
2	XDOZZ	96906	MS35338-43	.WASHER,LOCK	2
3	XDOZZ	96906	MS27183-42	.WASHER,FLAT	2
4	XDOZZ	96906	MS35649-202	.NUT,PLAIN,HEXAGON	2
5	XDOZZ	81337	1-6-6139	.BRACKET,ANGLE	1
6	XDOZZ	81337	1-6-6139	.BRACKET,BOTTLE	1
7	XDOZZ	96906	MS21316-13	.THUMBSCREW #8-32X.50	2
8	XDOZZ	81337	1-6-6155-2	.BRACKET,LOCKING	1
9	XDOZZ	81337	1-6-6156-5	.PAD,RUBBER.....	2
10	XDOZZ	81337	1-6-6155-1	.BRACKET,LOCKING	1
11	XDOZZ	96906	MS27130-A13	.NUT,PLAIN,BLIND RIV	2
12	XDOZZ	97403	13226E4557-2	.DECAL,1IN	2
				END OF FIGURE	

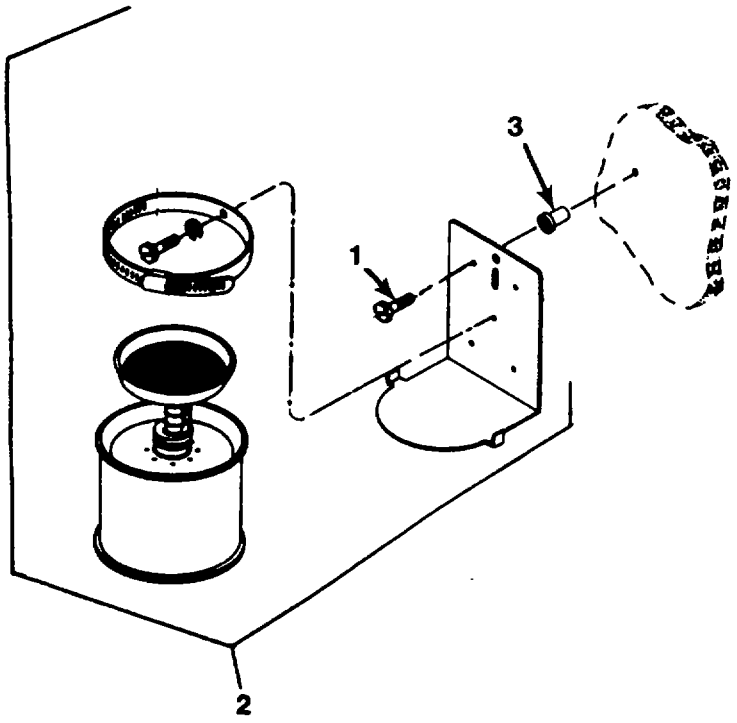


Figure 3. Plunger Can Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 02 PLUNGER CAN ASSEMBLY	
				FIG. 3 PLUNGER CAN ASSEMBLY	
1	XDOZZ	96906	MS35207-263	.SCREW,MACHINE #10-32X1/2.....	3
2	PAOZZ	09177	120-6400-AS	.PLUNGER CAN AND HOL.....	1
3	XDOZZ	96906	MS27130-A28	.NUT,BLIND RIVET.....	3
				END OF FIGURE	

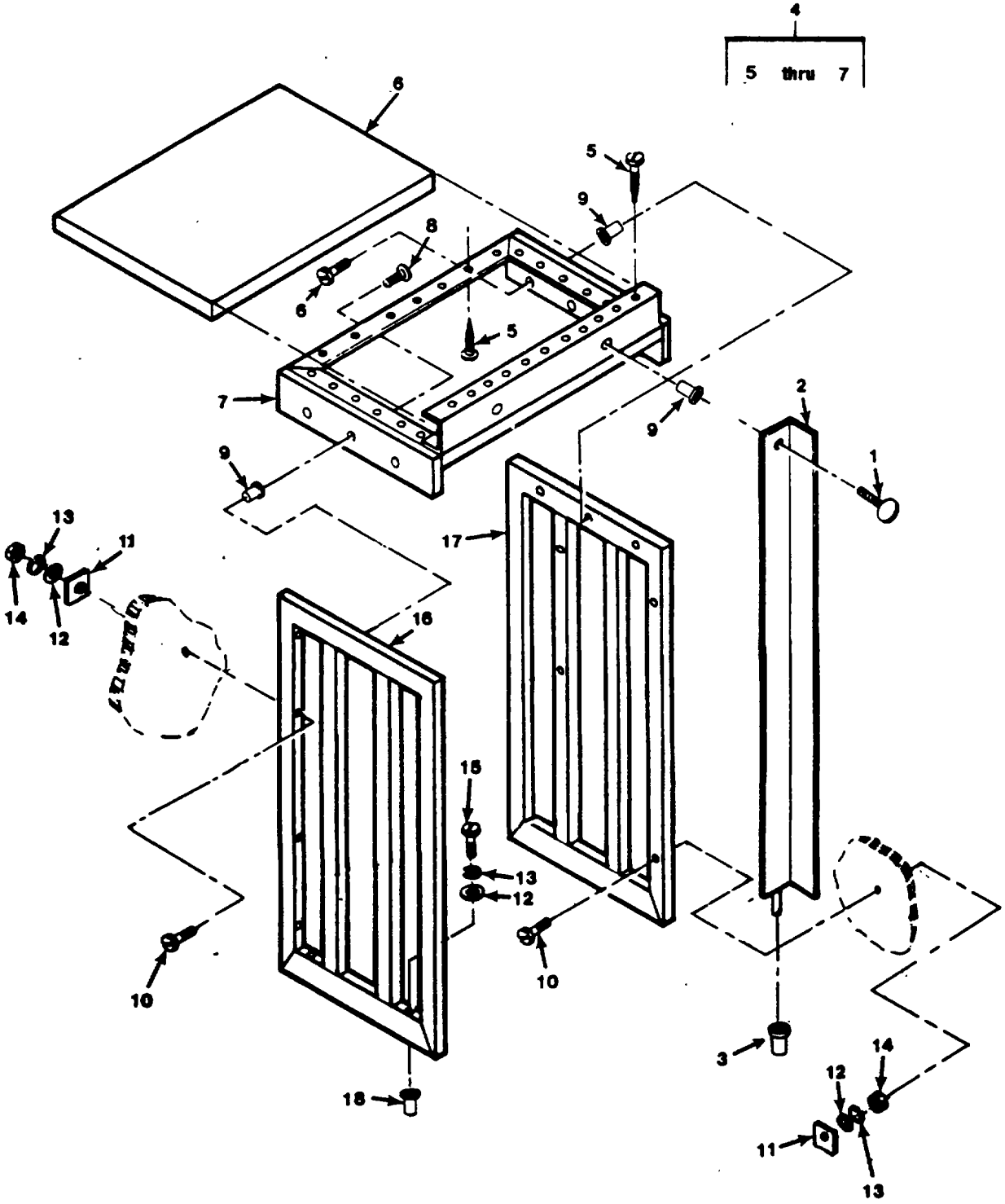


Figure 4. Large Paper Storage Rack Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 03 CABINET, ASSEMBLY, STORAGE	
				FIG. 4 LARGE PAPER STORAGE RACK INSTALLATION	
	XDOOO	81337	1-6-6154	INSTL,RACK,LARGE	1
1	XDOZZ	97403	13226E4498	.SCREW,THUMB 25-20X1.00	2
2	XDOZZ	81337	1-6-6140-2	.BRACKET,SUPPORT	2
3	XDOZZ	96906	MS27130-A62	.NUT,PLAIN,BLIND RIV 3/8-24UNF-3B	2
4	XDOOO	81337	1-6-6149	.TOP,ASSY,RACK,PAPER	1
5	XDOZZ	96906	MS35492-28	.SCREW,WOOD	32
6	XDOZZ	81337	1-6-6147	.TOP,PAPER STORAGE R	1
7	XDOOO	81337	1-6-6148	.FRAME,TOP SUPPORT	1
8	XDOZZ	96906	MS35207-265	.SCREW,MACHINE *10-32X.75	7
9	XDOZZ	96906	MS27130-A27	.NUT,RIVET,#10-32	7
10	XDOZZ	96906	MS90725-18	.SCREW,CAP,HEXAGON H 1/4-20 X 3 IN	6
11	XDOZZ	81337	6-1-7547-6	.PLATE,WASHER,EXT 2INCH SQUARE	6
12	XDOZZ	96906	MS27183-10	.WASHER,FLAT	20
13	XDOZZ	96906	MS35338-44	.WASHER,LOCK	14
14	XDOZZ	96906	MS35649-2252	.NUT,PLAIN,HEXAGON 1/4-20 UNC-2B	6
15	XDOZZ	96906	MS90728-8	.SCREW,CAP,HEXAGON H 1/4X20X1	2
16	XDOZZ	81337	1-6-6152	.LEFT SIDE,RACK,PAPE	1
17	XDOZZ	81337	1-6-6153	.RIGHT SIDE,RACK,PAP	1
18	XDOZZ	96906	MS27130-A33	.NUT,BLIND RIVET 1/4X20	2
				END OF FIGURE	

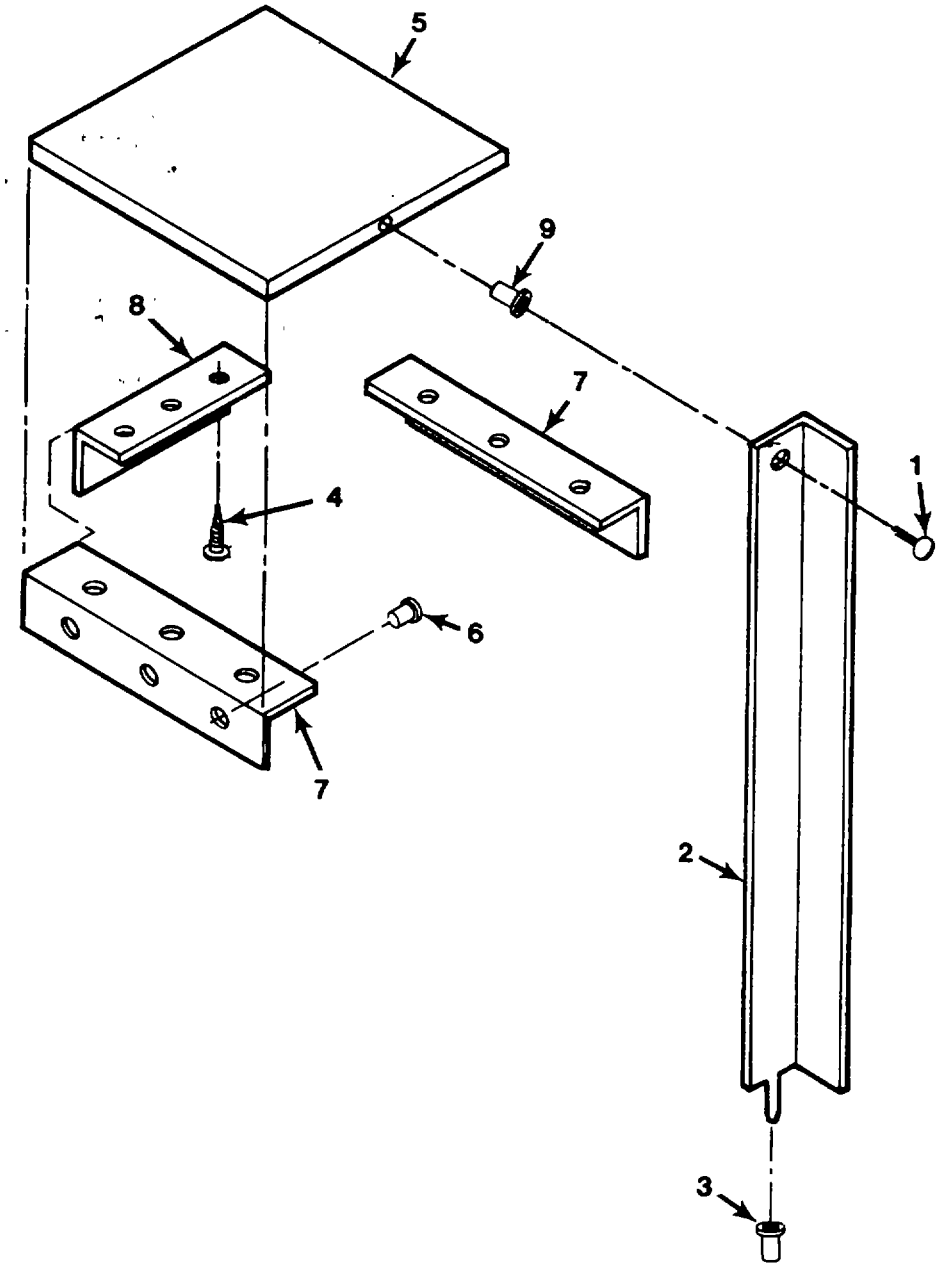


Figure 5. Small Paper Storage Rack Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 03 CABINET, ASSEMBLY, STORAGE	
				FIG. 5 SMALL PAPER STORAGE RACK INSTALLATION	
	XDOOO	81337	1-6-6143	INSTL, RACK, SMALL	1
1	XDOZZ	97403	13226E4498	.SCREW, THUMB 25-20X1.00	1
2	XDOZZ	81337	1-6-6140	.BAR, SUPPORT	1
3	XDOZZ	96906	MS27130-A33	.NUT, BLIND RIVET 25-20UNC	1
4	XDOZZ	96906	MS35493-78	.SCREW, WOOD PAN HD, 10OX1.00	9
5	XDOZZ	81337	1-6-6142	.TOP, TABLE	1
6	XDOZZ	81349	M24243/6-604H	.RIVET, BLIND, 3/16	6
7	XDOZZ	81337	1-6-6141-1	.BRACKET, SUPPORT	
8	XDOZZ	81337	1-6-6141-2	.BRACKET, SUPPORT	1
9	XDOZZ	96906	MS27130-A44	.NUT, BLIND RIVET 312-18	1
				END OF FIGURE	

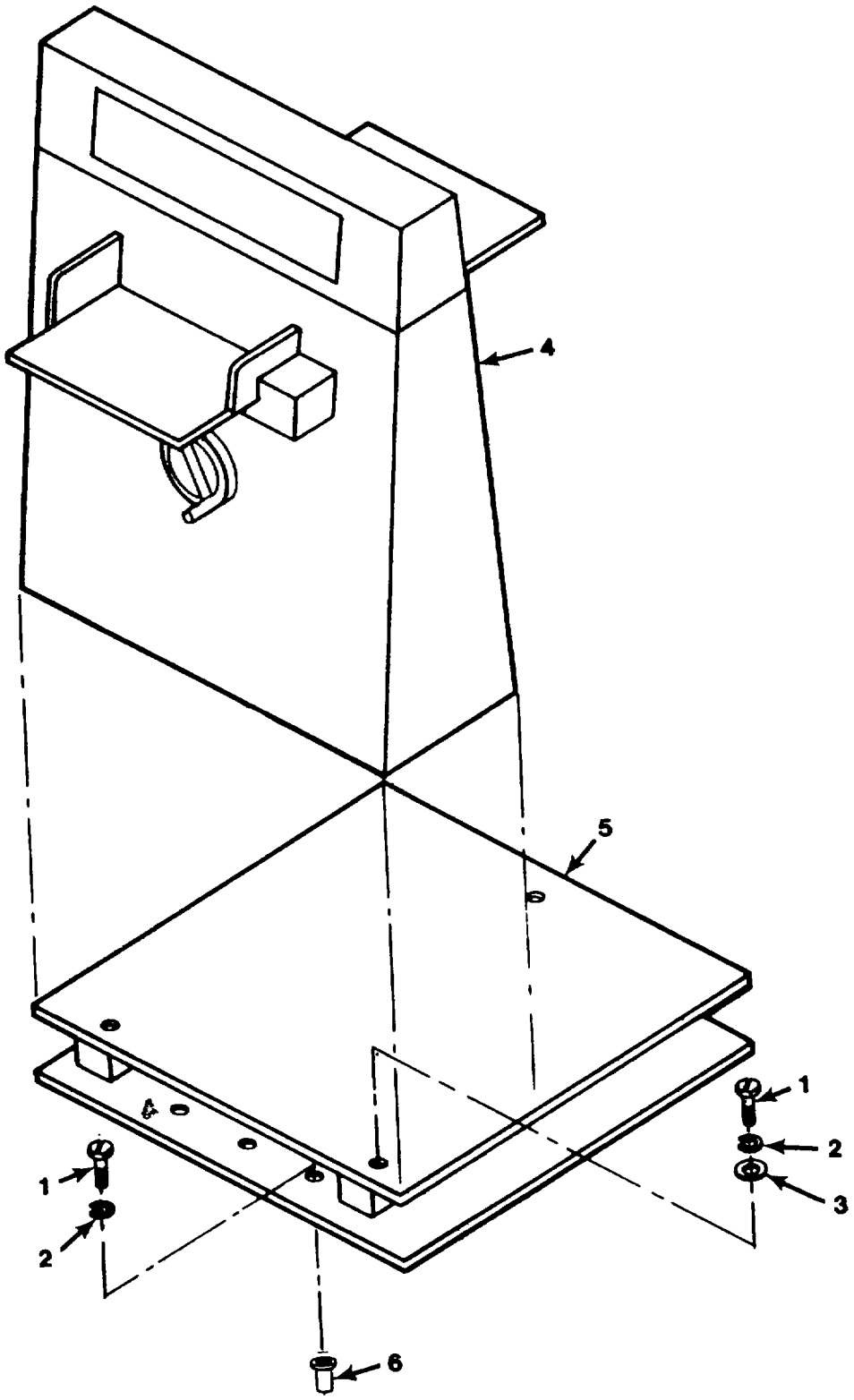


Figure 6. Paper Cutter Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 04 PAPERCUTTER ASSEMBLY	
				FIG. 6 PAPER CUTTER INSTALLATION	
	XCDDD	81337	1-6-6138	INSTL, PAPER CUTTER	1
1	XDOZZ	96906	MS90727-60	.SCREW, CAP, HEXAGON H 3/8X1 IN NC.....	9
2	XDOZZ	96906	MS35338-46	.WASHER, LOCK, SPRING 3/8 IN	9
3	XDOZZ	96906	MS27183-13	.WASHER, FLAT, 3/8 3/8 IN	3
4	PDDDD	11444	CMC-142-11	.CUTTER, PAPER, GUILLO	1
5	XDOZZ	81337	1-6-6137	.PLATE, FLOOR MOUNTIN.....	1
6	XDOZZ	96906	MS27130-S56	.NUT, BLIND RIVET 3/8-16UNC	6
				END OF FIGURE	

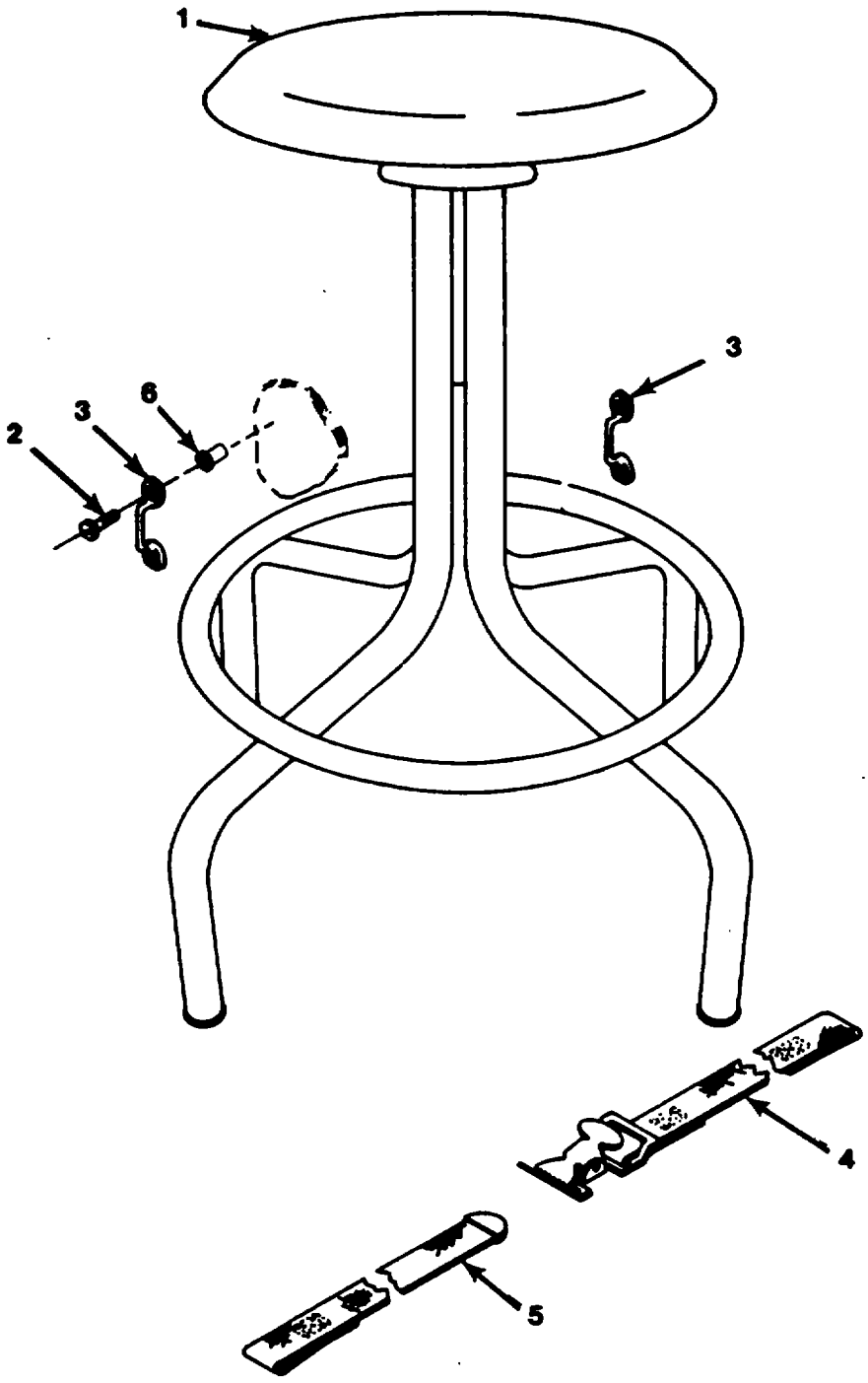


Figure 7. Stool and Holddown Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 05 STOOL HOLDDOWN ASSEMBLY	
				FIG. 7 STOOL AND HOLDDOWN ASSEMBLY	
1	XDOZZ	81348	AAS700TYPE2SIZE1	.STOOL, REVOLVING GRAY	1
2	XDOZZ	96906	MS35191-274	.SCREW, MACHINE	4
3	XDOZZ	76786	662	.LOOP, FOOTMAN	2
4	XDOZZ	81337	6-1-5877-1	.CHAPE ASSEMBLY	1
5	XDOZZ	81337	6-1-5877-3	.STRAP ASSEMBLY, LONG 37INCHES	1
6	XDOZZ	96906	MS27130-A28	.NUT, BLIND RIVET	4
				END OF FIGURE	

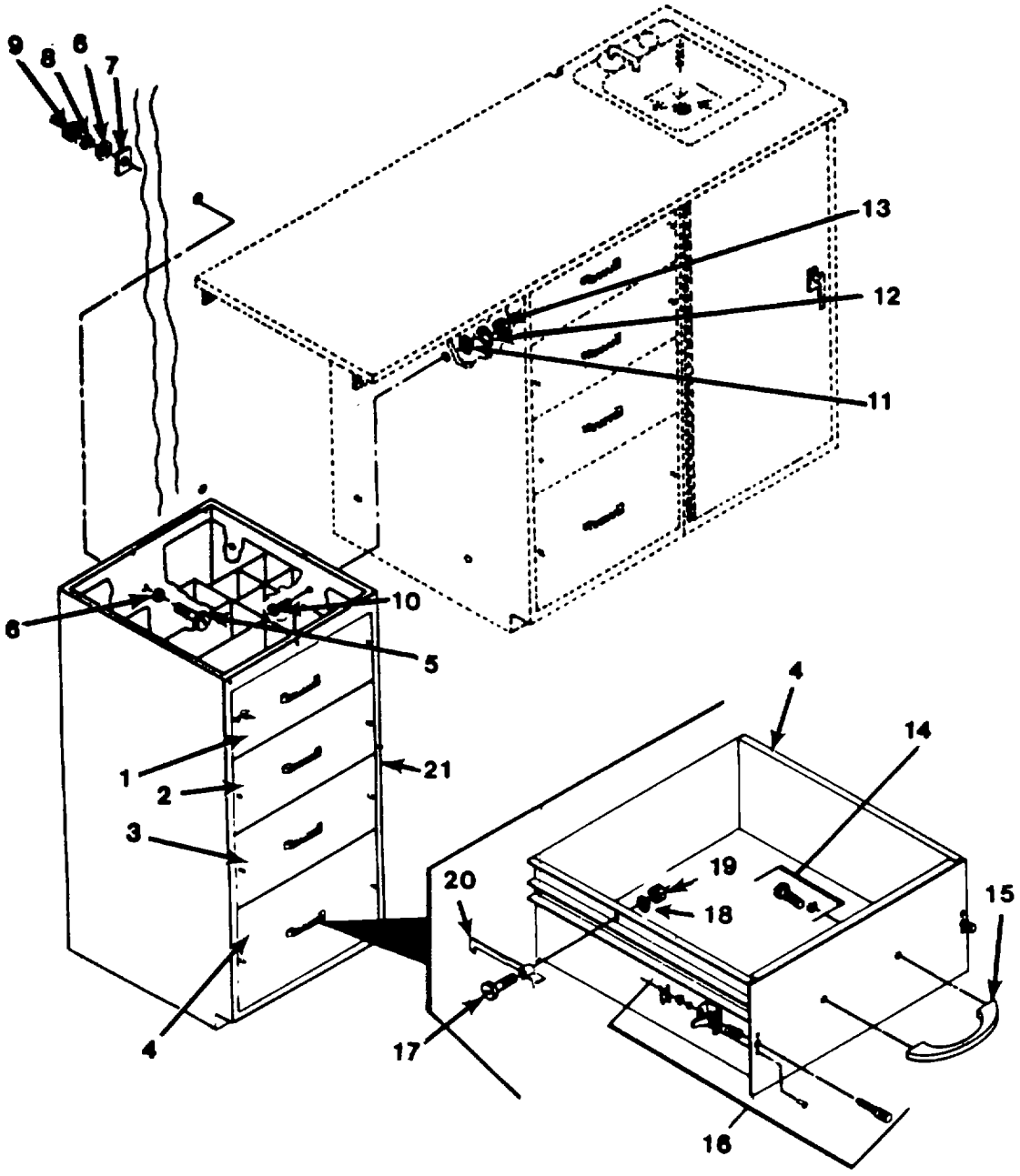


Figure 8. Storage Bench Cabinet Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 06 STORAGE BENCH CABINET ASSEMBLY	
				FIG. 8 STORAGE BENCH CABINET ASSEMBLY	
1	XDOZZ	81337	6-1-5887-23	.DRAWER	1
2	XDOZZ	81337	6-1-5887-22	.DRAWER	1
3	XDOZZ	81337	6-1-5887-21	.DRAWER	1
4	XDOZZ	81337	6-1-5887-24	.DRAWER	1
5	XDOZZ	96906	MS90725-18	.SCREW, CAP, HEXAGON H 10-32X5/8LG	4
6	XDOZZ	96906	MS27183-10	.WASHER, FLAT	4
7	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT	4
8	XDOZZ	96906	MS35338-44	.WASHER, LOCK	4
9	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON	4
10	XDOZZ	96906	MS35207-264	.SCREW, MACHINE	4
11	XDOZZ	96906	MS27183-8	.WASHER, FLAT	4
12	XDOZZ	96906	MS35338-138	.WASHER, LOCK	4
13	XDOZZ	96906	MS35650-302	.NUT, PLAIN, HEXAGON	4
14	XDOZZ	42689	61-289-3	.SCREW, SCH, NO.8-32 UNC-2A	8
15	XDOZZ	42689	61-394	.PULL, DRAWER	4
16	XDOZZ	94222	43-1-3-0	.FASTENER, PAWL	8
17	XDOZZ	96906	MS35206-263	.SCREW, MACHINE 10-24UNC-2A X 1/2 LG	8
18	XDOZZ	96906	MS35338-43	.WASHER, LOCK	8
19	XDOZZ	96906	MS35649-202	.NUT, PLAIN, HEXAGON 24UNC-2B	8
20	XDOZZ	81337	6-1-7533-30	.LATCH, STOP	8
21	XDOZZ	81337	6-1-7533-NO.1	.CABINET, STORAGE BEN	1
				END OF FIGURE	

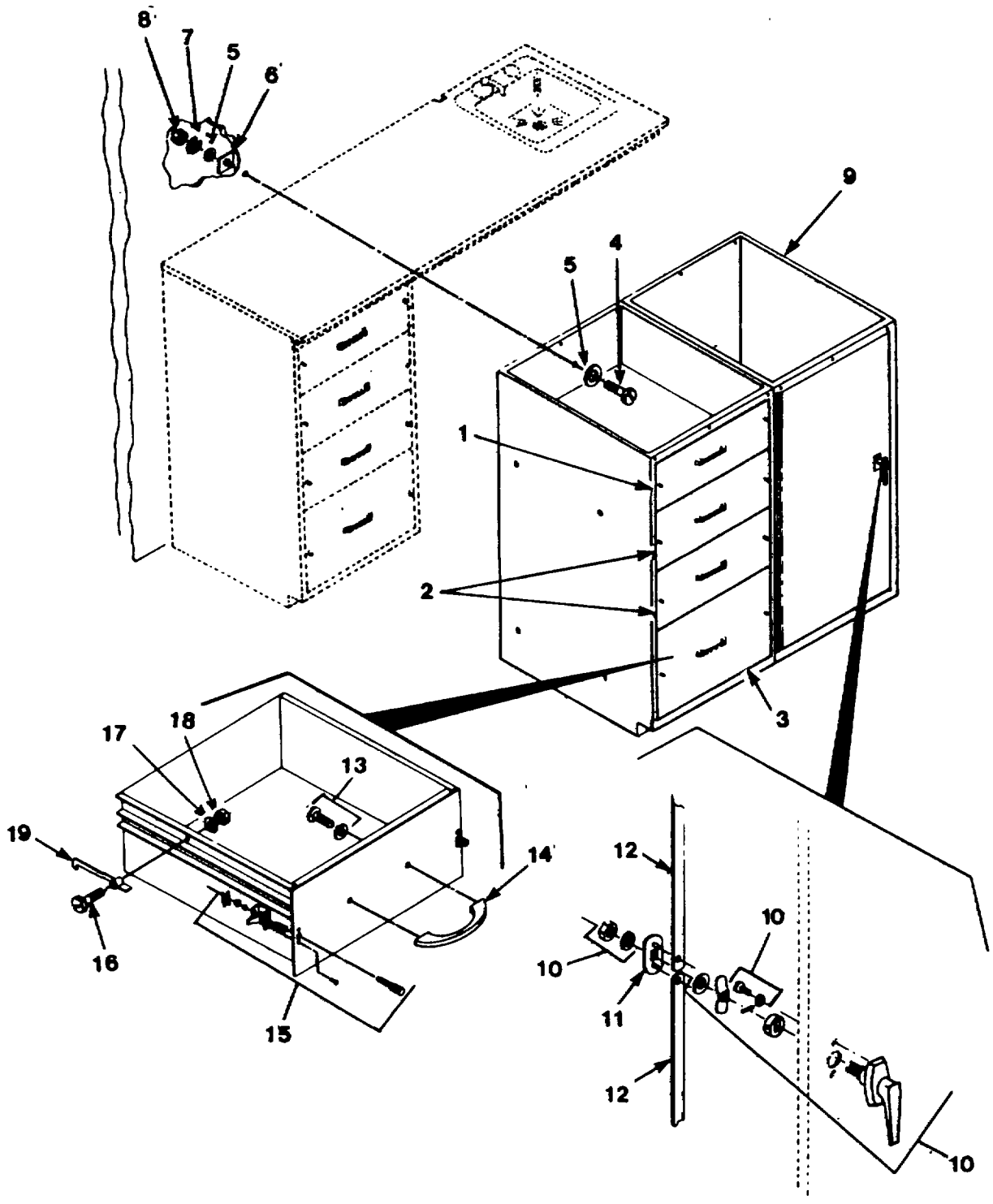


Figure 9. Work Storage Table Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 07 WATER SUPPLY CABINET ASSEMBLY	
				FIG. 9 WORK STORAGE TABLE ASSEMBLY	
1	XDOZZ	81337	6-1-5887-20	.DRAWER	1
2	XDOZZ	81337	6-1-5887-21	.DRAWER	2
3	XDOZZ	81337	6-1-5887-24	.DRAWER	1
4	XDOZZ	96906	MS90725-18	.SCREW, CAP, HEXAGON H 10-32X5/8LG	4
5	XDOZZ	96906	MS27183-10	.WASHER, FLAT	4
6	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT	4
7	XDOZZ	96906	MS35338-44	.WASHER, LOCK	4
8	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON	4
9	XDOZZ	81337	6-1-7533 NO.2	.TABLE, WORK STORAGE	1
10	XDOZZ	42689	69-090	.LATCH, DOOR	1
11	XDOZZ	42689	68-01624 TYF	.PLATE, LATCH	1
12	XDOZZ	81337	6-1-7533-16	.ARM, LATCH	2
13	XDOZZ	42689	61-289-3	.SCREW, SCH, NO.8-32 UNC-2A	8
14	XDOZZ	42689	61-394	.PULL, DRAWER	4
15	XDOZZ	94222	43-1-3-0	.FASTENER, PAWL	8
16	XDOZZ	96906	MS35206-263	.SCREW, MACHINE 10-24UNC-2AX1/2LG	8
17	XDOZZ	96906	MS35338-43	.WASHER, LOCK MED NO.10	8
18	XDOZZ	96906	MS35649-202	.NUT, PLAIN, HEXAGON 10-24UNC-2B	8
19	XDOZZ	81337	6-1-7533-30	.LATCH, STOP	8

END OF FIGURE

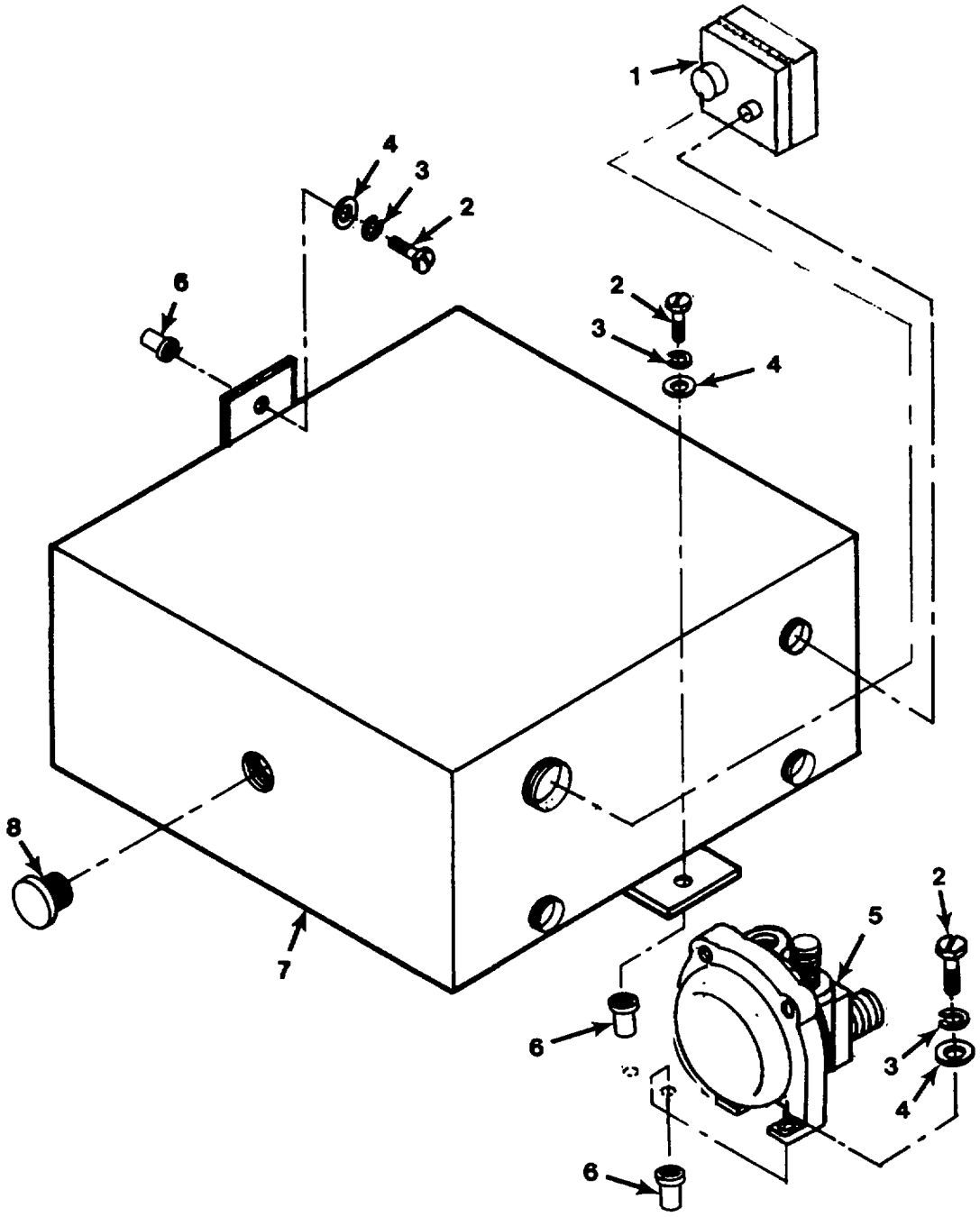


Figure 10. Water Tank Assembly Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 08 WATER TANK AND MOUNTING ASSEMBLY	
				FIG. 10 WATER TANK ASSEMBLY INSTALLATION	
1	XDOZZ	34784	P505-T1414	.FILLER, WATER	1
2	XDOZZ	96906	MS90725-6	.SCREW, CAP, HEXAGON H	2
3	XDOZZ	96906	MS35338-44	.WASHER, LOCK	2
4	XDOZZ	96906	MS27183-10	.WASHER, FLAT	2
5	PAOZZ	16327	1P805A	.PUMP UNIT, CENTRIFUG .75A	1
6	XDOZZ	96906	MS27130-A33	.NUT, BLIND RIVET .25-20	2
7	XDOZZ	81337	6-1-6090	.WATER TANK	1
8	XDOZZ	96906	MS14304-7P16	.PLUG, 1INCH NPT 08STAINLESS STEEL	1
				END OF FIGURE	

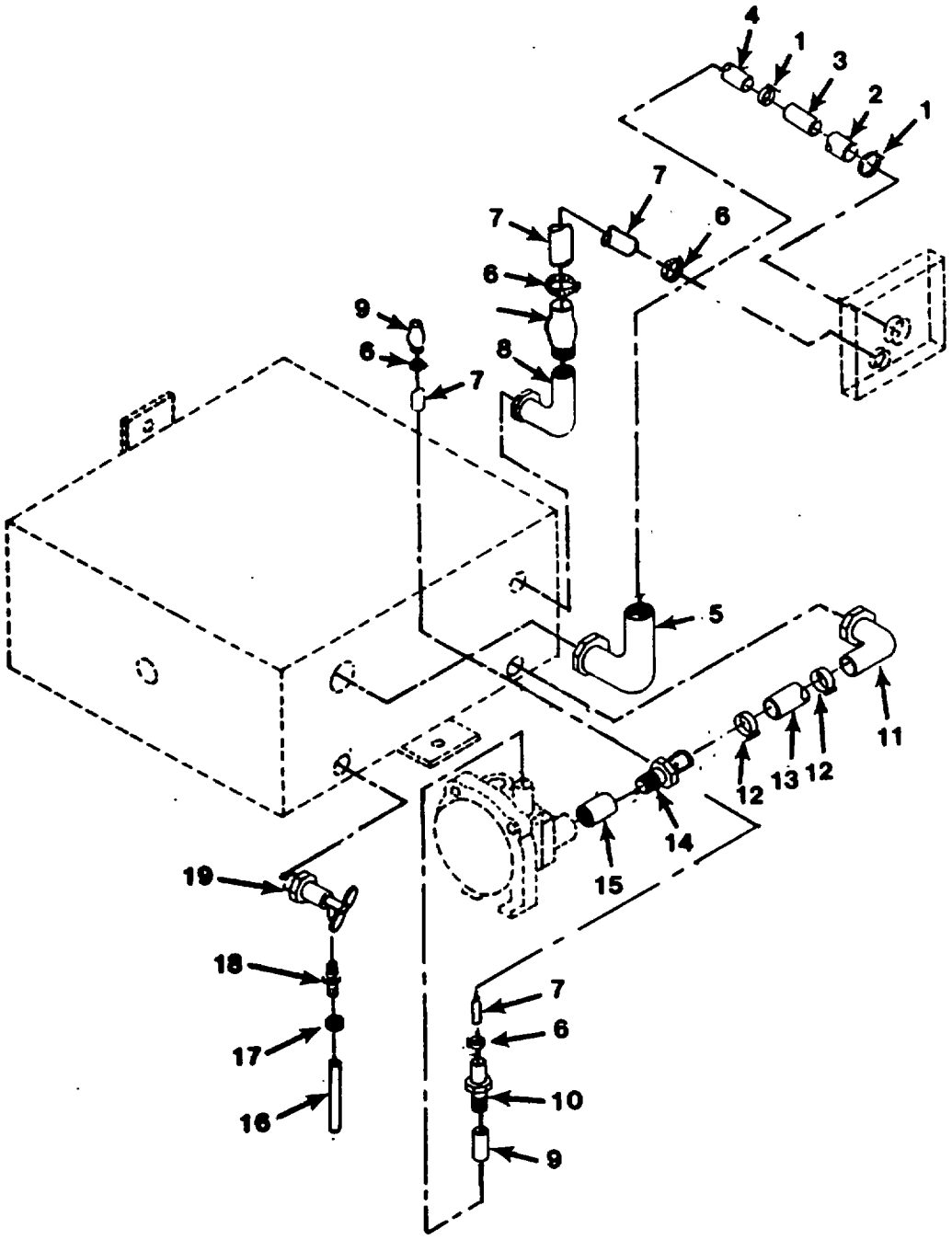


Figure 11. Water Tank Plumbing Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 08 WATER TANK AND MOUNTING ASSEMBLY	
				FIG. 11 WATER TANK PLUMBING INSTALLATION	
	XCOOO	81337	1-6-6091	.PLUMBING, WATER TANK	1
1	XDOZZ	96906	MS35842-12	..CLAMP, HOSE	3
2	XDOZZ	39428	5233K34	..TUBING 1-1/4ID, PLAS	V
3	XDOZZ	39428	4880K12	..PIPE, .75PVC-40	1
4	XDOZZ	39428	5231K24	..TUBING, 1INCH PLASTI	V
5	XDOZZ	39428	5373K35	..ELBOW, 1IN NPT TO 1IN HOSE, NYLON..	1
6	XDOZZ	96906	MS35842-8	..CLAMP, HOSE	3
7	XDOZZ	39428	5231K17	..TUBING, .38ID, PLAST	V
8	XDOZZ	39428	5373K18	..ELBOW, MALE, 90DEG 3/8NPT-3/8HOSE, NYLON	1
9	XDOZZ	39428	4547K11	..COUPLING, 1/4" NPT BRASS	1
10	XDOZZ	39428	5372K17	..COUPLING, 1/4 IN NPT TO 3/8 IN HOSE	1
11	XDOZZ	39428	5373K24	..ELBOW, 3/8NPT TO 1/2 HOSE	1
12	XDOZZ	96906	MS35842-11	..CLAMP, HOSE	2
13	XDOZZ	39428	5231K19	..TUBING, 1/2INCH PLAS	V
14	XDOZZ	39428	5372K25	..NIPPLE, 1/2" NPT TO 1/2" HOSE	1
15	XDOZZ	39428	4596K52	..COUPLING, 1/2NPT, PVC	1
16	XDOZZ	81337	6-1-7506-20	..TUBE, THREADED CU 0.625 OD	1
17	XDOZZ	96906	MS35650-3402	..NUT, HEXAGON, 5/8-18	1
18	XDOZZ	96906	MS51847-2	..BUSHING, PIPE NPT, BRASS	1
19	XDOZZ	30327	0303E	..SPIGOT, 1/4NPT, BRASS	1

END OF FIGURE

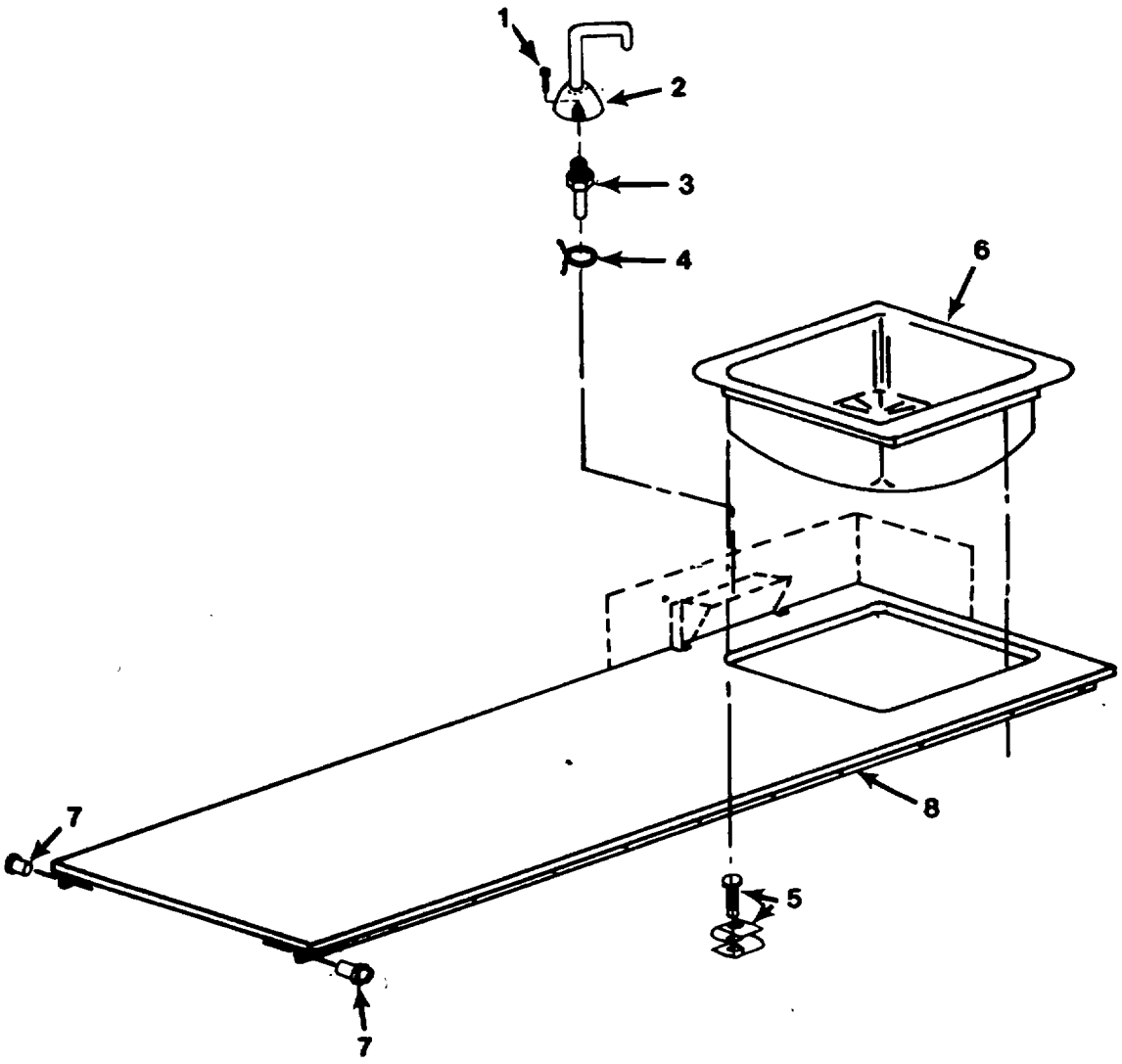


Figure 12. Counter Top and Sink Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 09 COUNTER TOP AND SINK ASSEMBLY	
				FIG. 12 COUNTER TOP AND SINK ASSEMBLY	
1	XDOZZ	88044	AN117006	.SCREW, MACHINE	2
2	XDOZZ	66607	150-019	.FAUCET	1
3	XDOZZ	23050	2100	.FITTING, PIPE TO TUB	1
4	XDOZZ	96906	MS35842-8	.CLAMP, HOSE	1
5	XDOZZ	35550	HF18S	.FASTENER, SINK MOUNT	8
6	XDOZZ	35550	S135N61/2	.SINK, STAINLESS STEE	1
7	XDOZZ	96906	MS20600-B6W4	.RIVET, BLIND, PULL	44
8	XDOZZ	81337	6-1-7533-1	.COUNTER TOP	1
				END OF FIGURE	

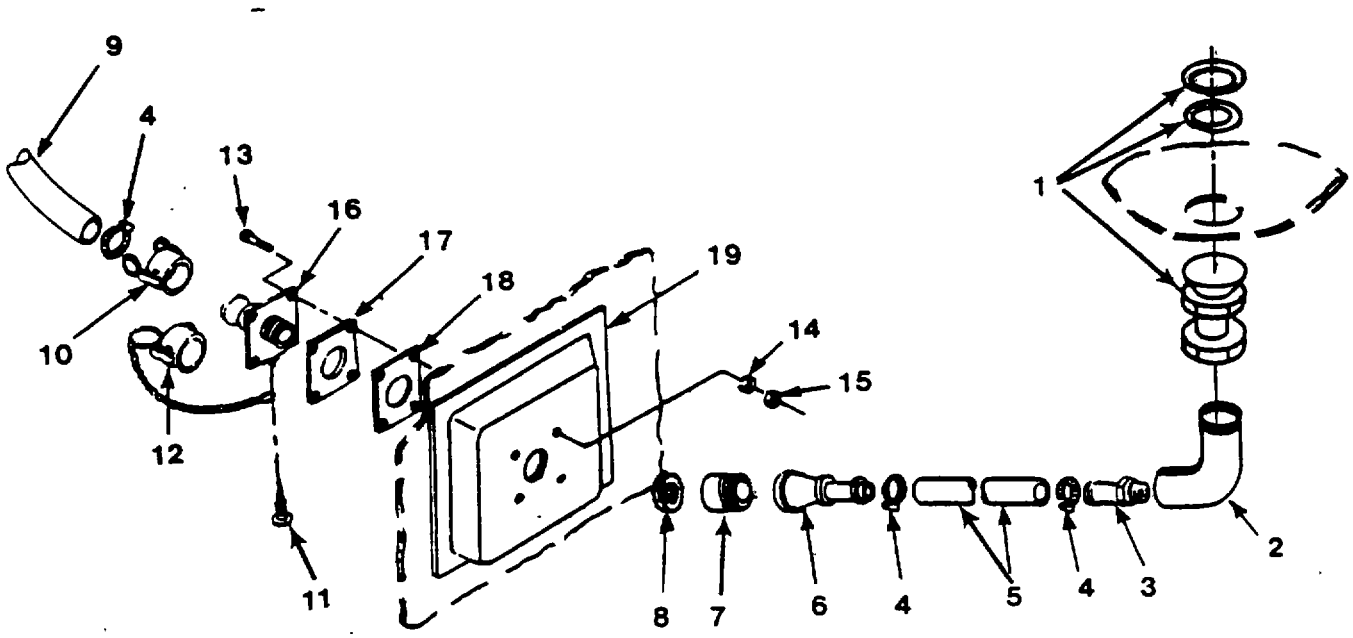


Figure 13. Sink Plumbing Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 09 COUNTER TOP AND SINK ASSEMBLY	
				FIG. 13 SINK PLUMBING ASSEMBLY	
	XCOOO	81337	6-1-5856	.PIPING ASSY, SINK	1
1	XDOZZ	39428	2672K13	..STRAINER, SINK	1
2	XDOZZ	39428	5373K35	..ELBOW, 1IN NPT TO 1IN HOSE, NYLON..	1
3	XDOZZ	39428	5372K35	..NIPPLE, MALE 1IN NPT TO 1IN HOSE, NYLON	2
4	XDOZZ	66295	C16P	..CLAMP, HOSE	3
5	XDOZZ	39428	5108K68	..HOSE, 1 IN ID, 12IN LONG	1
6	XDOZZ	39428	4823K16	..COUPLING, 1.5IN STAINLESS STEEL	1
7	XDOZZ	39428	6809K16	..COUPLING, 1IN NPT	1
8	XDOZZ	62531	439-211	..BUSHING, 1.5IN NPT 1IN NPT	1
9	PAOZZ	81343	SAEIOOR4-16	..HOSE, NONMETALLIC EXTERNAL DRAIN, 72 INCHES LONG	6
10	PBOZZ	96906	MS27025-5	..COUPLING HALF, QUICK	1
11	XDOZZ	96906	MS51861-24	..SCREW, TAPPING, THREA #6X3/8LG	1
12	XDOZZ	96906	MS27028-5	..CAP, QUICK DISCONNEC	1
13	XDOZZ	96906	MS35206-263	..SCREW, MACHINE 10-24UNC2A, 1/2IN LG	4
14	XDOZZ	96906	MS35338-43	..WASHER, LOCK	4
15	XDOZZ	96906	MS35649-202	..NUT, PLAIN, HEXAGON	4
16	XDOZZ	96906	MS27022-5	..COUPLING HALF, QUICK 1IN, MALE	1
17	XDOZZ	81337	6-1-5856-6	..PLATE ADAPTER	1
18	XDOZZ	81337	6-1-5856-14	..GASKET, PLATE EXT DR	1
19	XDOZZ	81337	6-1-5856-3	..RECEPTACLE, DRAIN	1
				END OF FIGURE	

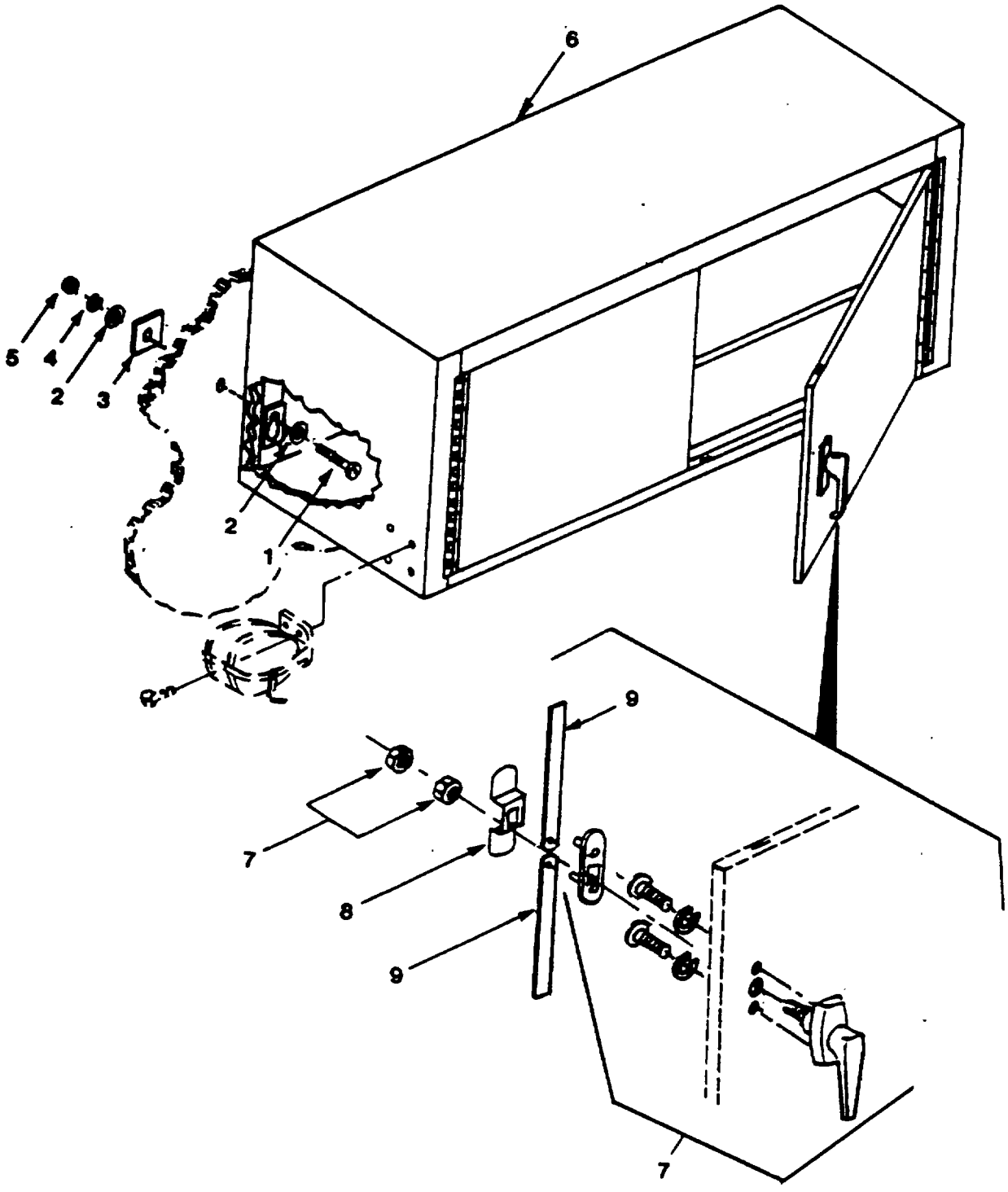


Figure 14. Wall Cabinet Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 10 WALL, CABINET ASSEMBLY	
				FIG. 14 WALL CABINET ASSEMBLY	
1	XDOZZ	96906	MS90725-18	.SCREW, CAP, HEXAGON H.....	8
2	XDOZZ	96906	MS27183-10	.WASHER, FLAT	16
3	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT	8
4	XDOZZ	96906	MS35338-44	.WASHER, LOCK	8
5	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON	8
6	PDOOO	81337	6-1-7539	.CABINET, STORAGE	2
7	XDOZZ	42689	68-090	..LATCH, DOOR	1
8	XDOZZ	42689	60-016-24TYPEF	..PLATE, LATCH	1
9	XDOZZ	81337	6-1-7503-17	..ARM, CATCH	2
				END OF FIGURE	

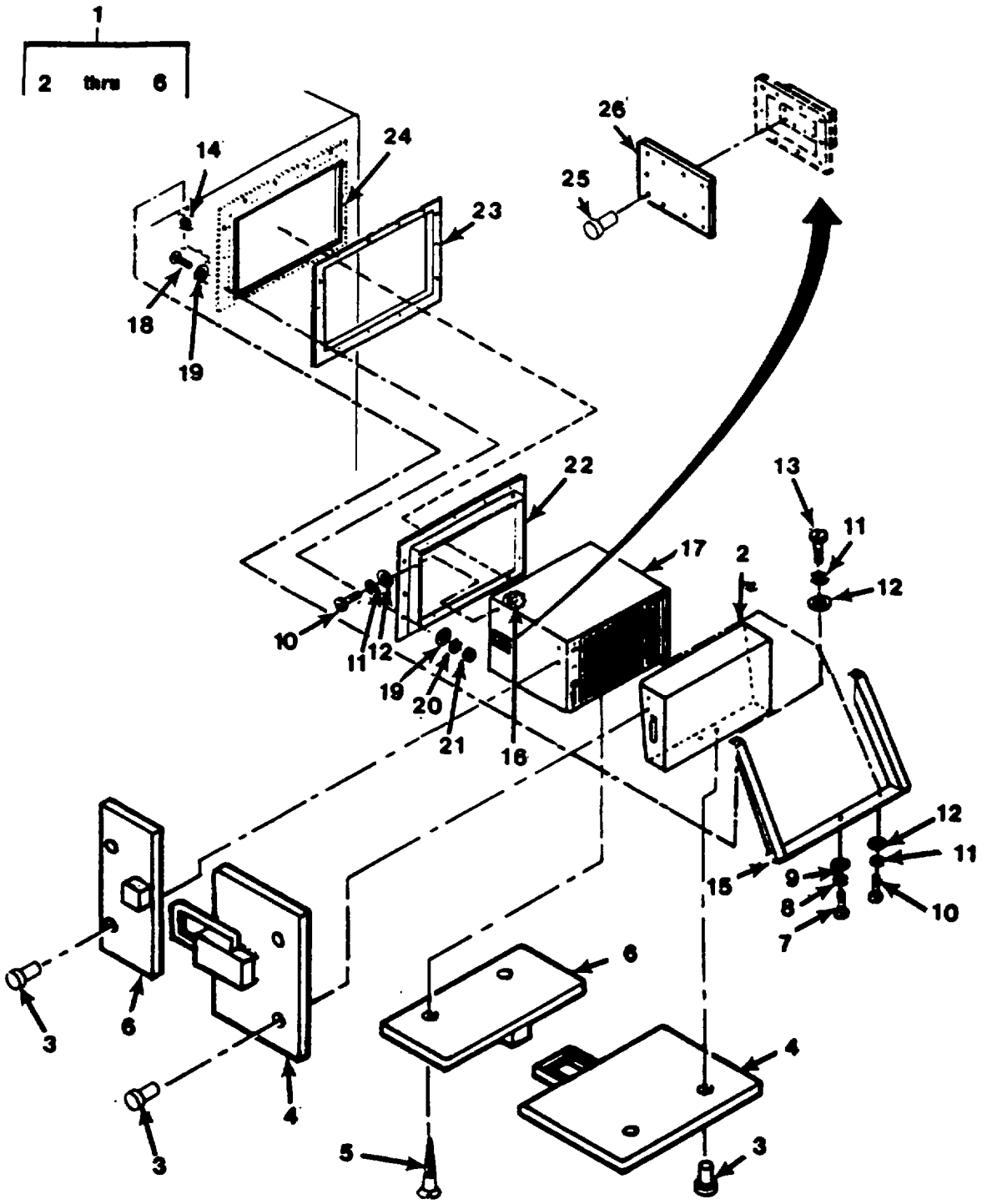


Figure 15. Air Conditioner Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 11 AIR CONDITIONER ASSEMBLY	
				FIG. 15 AIR CONDITIONER INSTALLATION	
	XCOOO	81337	6-1-7540	.INSTALLATION, AIR CONDITIONER	1
1	XDOZZ	81337	6-1-7541	.COVER, CONDENSER, A/C	2
2	XDOZZ	81337	6-1-7541-1	..COVER, A/C	1
3	XDOZZ	96906	MS16535-116	..RIVET	10
4	XDOZZ	71286	51L-1-1-AA	..LATCH, CLAMPING	3
5	XDOZZ	96906	MS51850-34	..SCREW, TAPPING	2
6	XDOZZ	71286	51L71AA	..STRIKE, LATCH	3
7	XDOZZ	96906	MS9786-13	..SCREW, CAP, HEX HD 3/8 X 1 IN	4
8	XDOZZ	96906	MS35335-63	..WASHER, LOCK	4
9	XDOZZ	96906	MS27183-13	..WASHER, FLAT, 3/8	4
10	XDOZZ	96906	MS9785-13	..BOLT, MACHINE 5/16-24 X 1 IN LG	16
11	XDOZZ	96906	MS35335-62	..WASHER, LOCK	24
12	XDOZZ	96906	MS27183-11	..WASHER, FLAT	24
13	XDOZZ	96906	MS35307-337	..SCREW, CAP, HEX HD 5/16-18 X 1-3/8 LG	4
14	XDOZZ	96906	MS27130-A45	..NUT, BLIND RIVET 5/16-18UNC-3B	4
15	XDOZZ	81337	6-1-7540-5	..FRAME, SUPPORT	2
16	XDOZZ	96906	MS27130-A50	..NUT, BLIND, RIVET 5/16-24	16
17	MDODD	81337	1-6-6162	..A/C, 9K BTU, MODIFIED MODIFIED NSN 412-01-136-2214	2
18	XDOZZ	96906	MS35307-319	..SCREW, CAP, HEX HD 1/4-20 UNC X ¾	28
19	XDOZZ	96906	MS27183-9	..WASHER, FLAT	28
20	XDOZZ	96906	MS35335-61	..WASHER, LOCK	28
21	XDOZF	96906	MS35649-2254	..NUT, PLAIN, HEXAGON	28
22	XDOZZ	81337	6-1-7540-1	..COLLAR	2
23	XDOZZ	81337	6-1-7540-4	..FRAME ASSY, OUTER	2
24	XDOZZ	81337	6-1-7540-2	..FRAME ASSY, INNER	2
25	XDOZZ	96906	MS20600-B4W3	..RIVET, BLIND	48
26	XDOZZ	81337	6-1-7540-6	..PLATE, COVER	4

END OF FIGURE

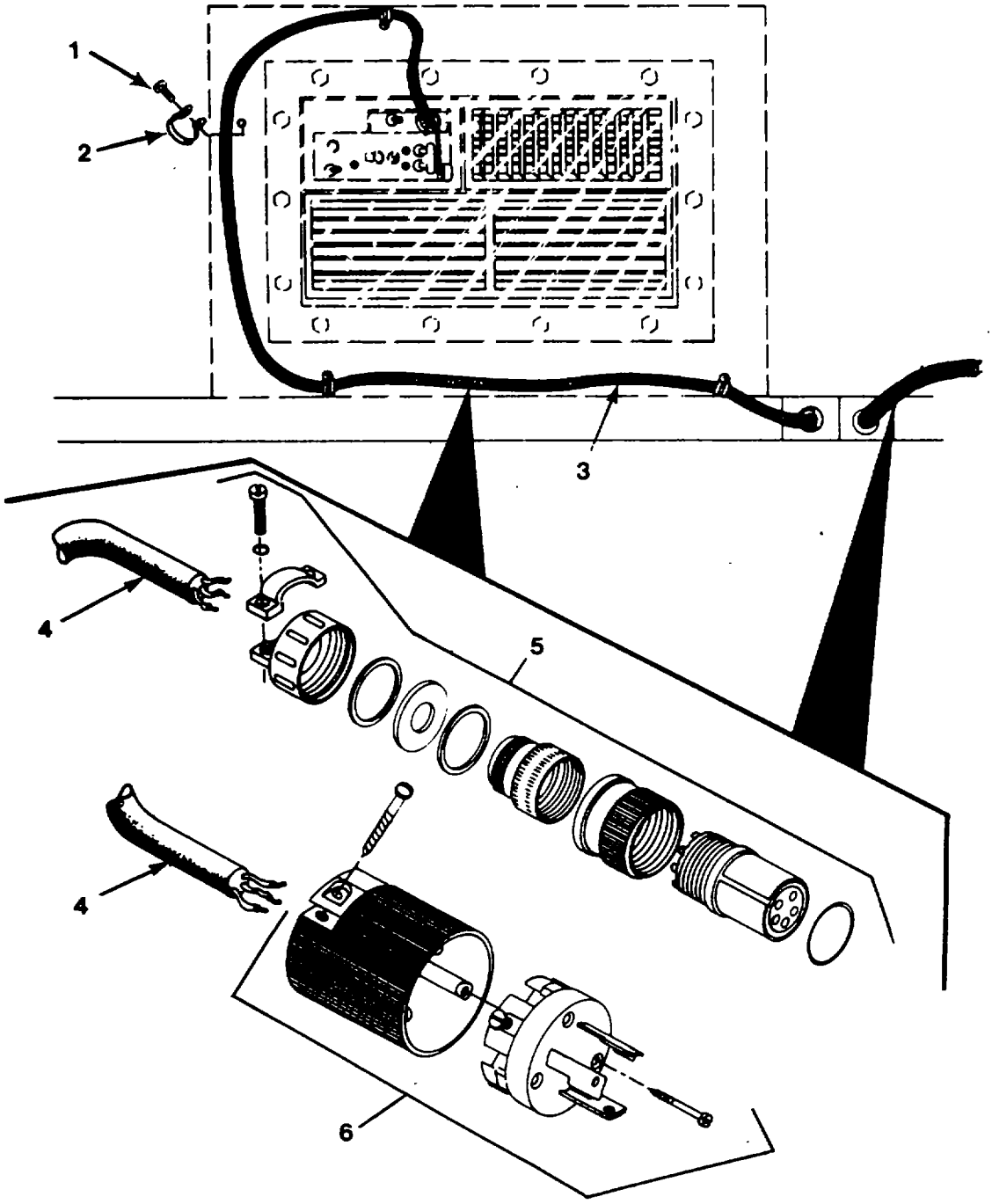


Figure 16. Air Conditioner Power Cable Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 11 AIR CONDITIONER ASSEMBLY	
				FIG. 16 AIR CONDITIONER POWER CABLE INSTALLATION	
	XCOOO	81337	6-1-7544	.INSTALLATION, CABLE AC.....	1
1	XDOZZ	96906	MS51861-45C	..SCREW, TAPPING, THREA	10
2	XDOZZ	96906	MS21919-D12	..CLAMP, ELEC CABLE	10
3	XDOOO	81337	6-1-7544-1	..ASSY, CABLE, AC, 7FT	1
4	XDOZZ	81348	J-C-580ST6CK3/12 TTJ	...CABLE, POWER, TYPE50 3COND, NO.12.....	7
5	XDOZZ	96906	MS3106R18-11S	...CONNECTOR	1
6	XDOZZ	74545	3331C	...PLUG, REG, INSUL GRIP NYLON.....	1
				END OF FIGURE	

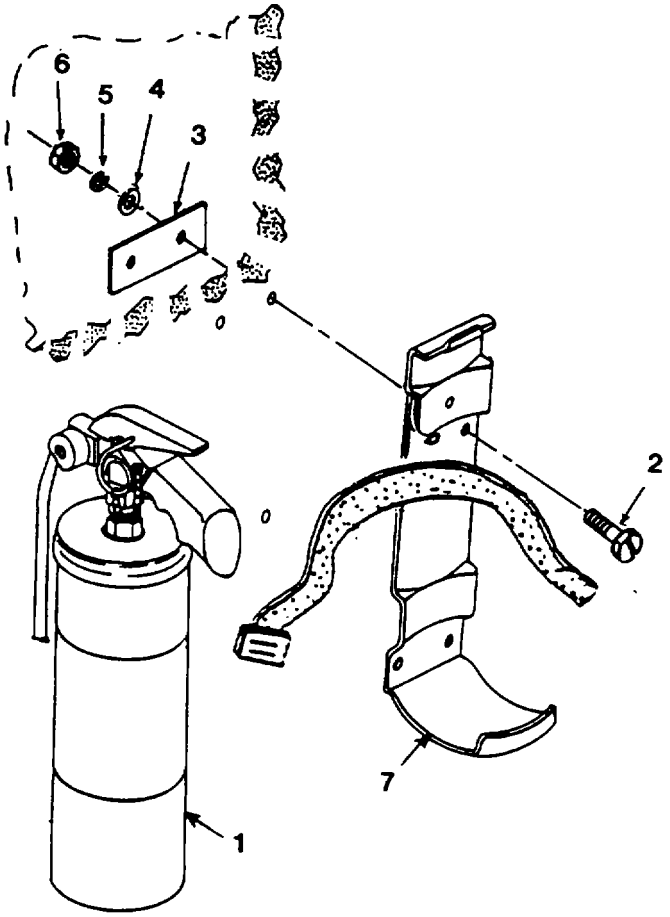


Figure 17. Fire Extinguisher Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 12 FIRE EXTINGUISHER ASSEMBLY	
				FIG. 17 FIRE EXTINGUISHER ASSEMBLY	
1	PAOZZ	58536	A-A-393	.EXTINGUISHER, FIRE, D	1
2	XDOZZ	96906	MS90725-18	.SCREW, CAP, HEXAGON H X.316	4
3	XDOZZ	81337	6-1-7547-5	.PLATE, BACKING, FIRE	2
4	XDOZZ	96906	MS27183-10	.WASHER, FLAT	4
5	XDOZZ	96906	MS35338-44	.WASHER, LOCK	4
6	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON 1/4-20UNC-2B	4
7	XDOZZ	93510	OMB5	.BRACKET, FIRE EXT	1
				END OF FIGURE	

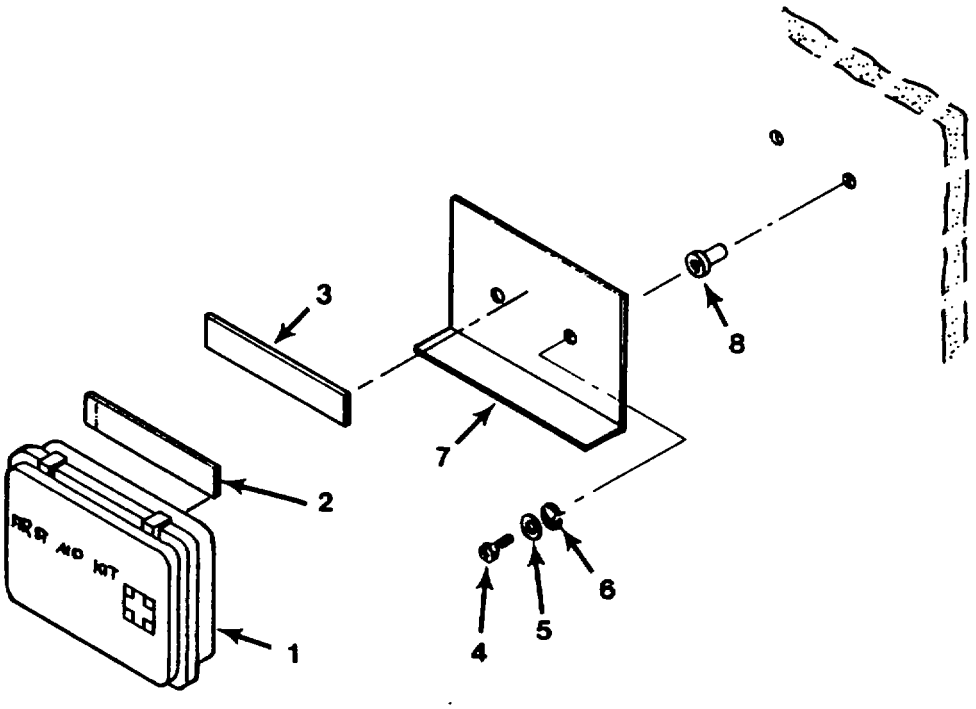


Figure 18. First Aid Kit Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 13 FIRST AID KIT ASSEMBLY	
				FIG. 18 FIRST AID KIT ASSEMBLY	
1	PAOZZ	19207	11677011	.FIRST AID KIT, GENER	1
2	XDOZZ	81349	MIL-F-21840 CL I I, TY 1	.FASTENER, PILE	1
3	XDOZZ	81349	MIL-F-21840 CL I I, TY 2	.FASTENER, HOOK	1
4	XDOZZ	96906	MS35191-274	.SCREW, MACHINE	2
5	XDOZZ	96906	MS35338-43	.WASHER, LOCK	2
6	XDOZZ	96906	MS15795-442	.WASHER, FLAT	2
7	XDOZZ	81337	6-1-7546-1	.BRACKET, MOUNTING, FI	1
8	XDOZZ	96906	MS20600-B6W3	.NUT, BLIND RIVET	2
				END OF FIGURE	

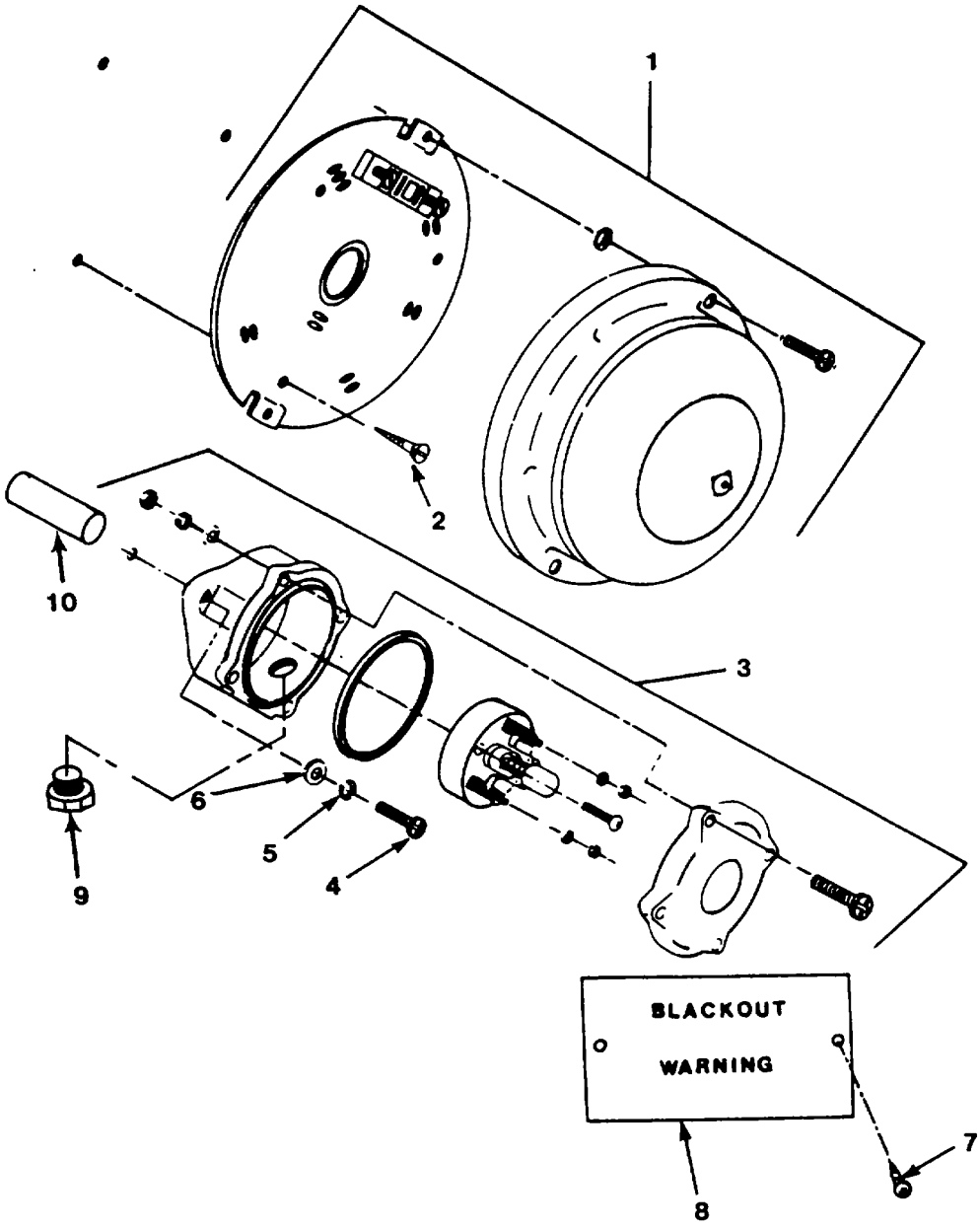


Figure 19. Blackout Warning Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 14 BLACKOUT WARNING ASSEMBLY	
				FIG. 19 BLACKOUT WARNING ASSEMBLY	
1	PAOZZ	19557	340-4N5	.BELL, ELECTRICAL	1
2	XDOZZ	96906	MS24629-50	.SCREW, TAPPING, THREA	2
3	PAOZZ	1G601	1785	.SWITCH, PUSH	1
4	XDOZZ	96906	MS51861-65	.SCREW, THREAD FORMIN	2
5	XDOZZ	96906	MS35338-44	.WASHER, LOCK	2
6	XDOZZ	96906	MS27183-10	.WASHER, FLAT	2
7	XDOZZ	96906	MS51861-24C	.SCREW, TAPPING, THREA	2
8	XDOZZ	81337	6-1-7532-6	.PLATE, ID	1
9	XDOZZ	64392	A-10050	.PLUG, PIPE 1/2 NPT	1
10	XDOZZ	81337	6-1-7532-8	.SLEEVE, TUBING	1
				END OF FIGURE	

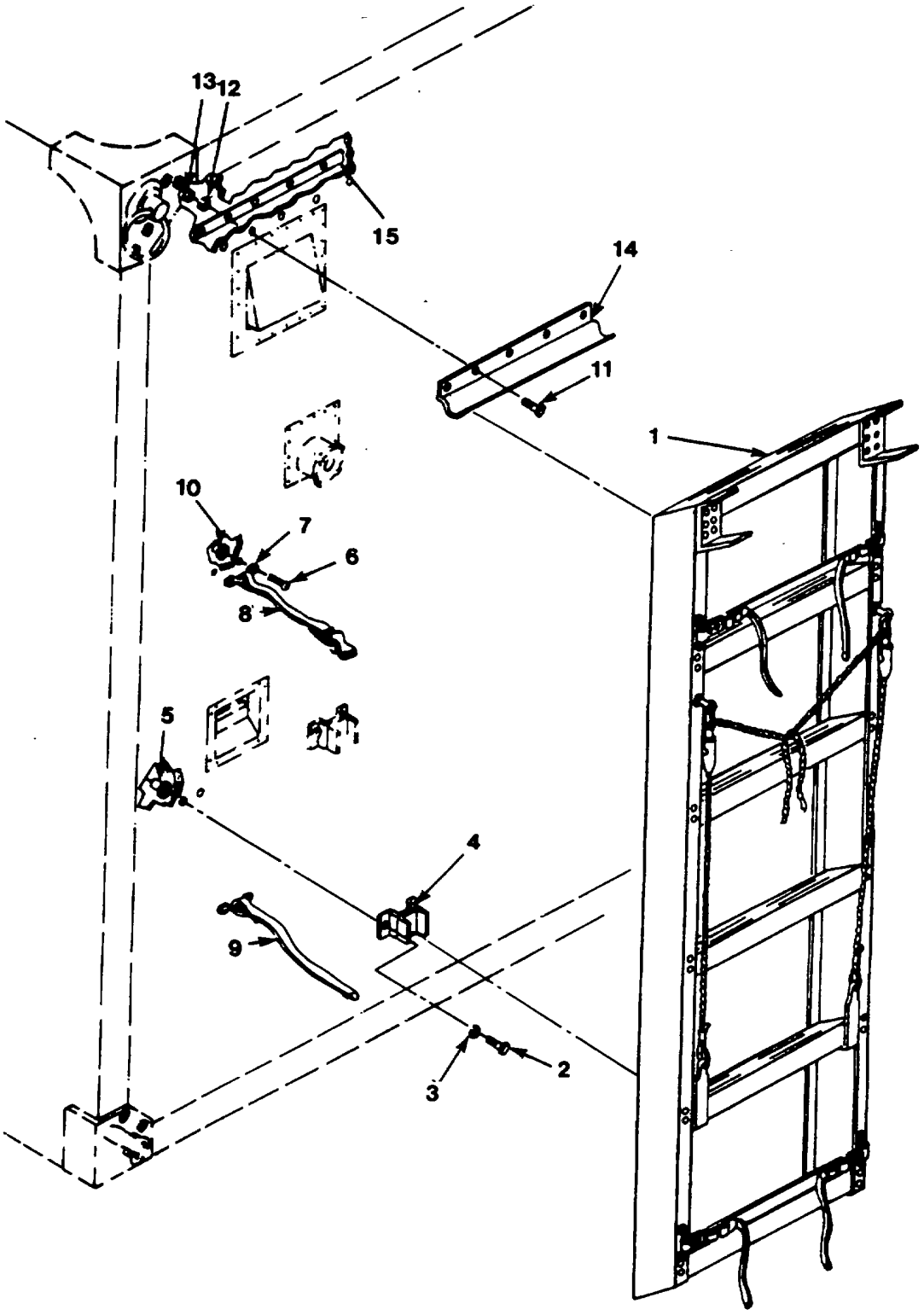


Figure 20. Ladder Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 17 LADDER ASSEMBLY	
				FIG. 20 LADDER ASSEMBLY	
1	XDOZZ	22585	MX3319G	LADDER	1
2	XDOZZ	96906	MS90725-6	SCREW, CAP, HEXAGON H	4
3	XDOZZ	96906	MS35338-44	WASHER, LOCK	12
4	XDOZZ	81337	6-1-5878-3	MOUNT, LADDER	2
5	XDOZZ	96906	MS27130-A28	NUT, BLIND RIVET	4
6	XDOZZ	96906	MS35191-274	SCREW, MACHINE	4
7	XDOZZ	76786	662R1	LOOP, STRAP FASTENER	2
8	XDOZZ	81337	6-1-5877-1	CHAPE ASSEMBLY	1
9	XDOZZ	81337	6-1-5877-2	STRAP ASSY LADDER	1
10	XDOZZ	96906	MS27130-A33	NUT, BLIND RIVET	4
11	XDOZZ	96906	MS90725-17	SCREW, CAP HEX HD	5
12	XDOZZ	96906	MS35338-44	WASHER, LOCK	9
13	XDOZZ	96906	MS35649-2252	NUT, PLAIN, HEXAGON	5
14	XDOZZ	81337	6-1-5878-1	BRACKET, UPPER LADDE	1
15	XDOZZ	81337	6-1-5878-2	BACKING PLATE	1
				END OF FIGURE	

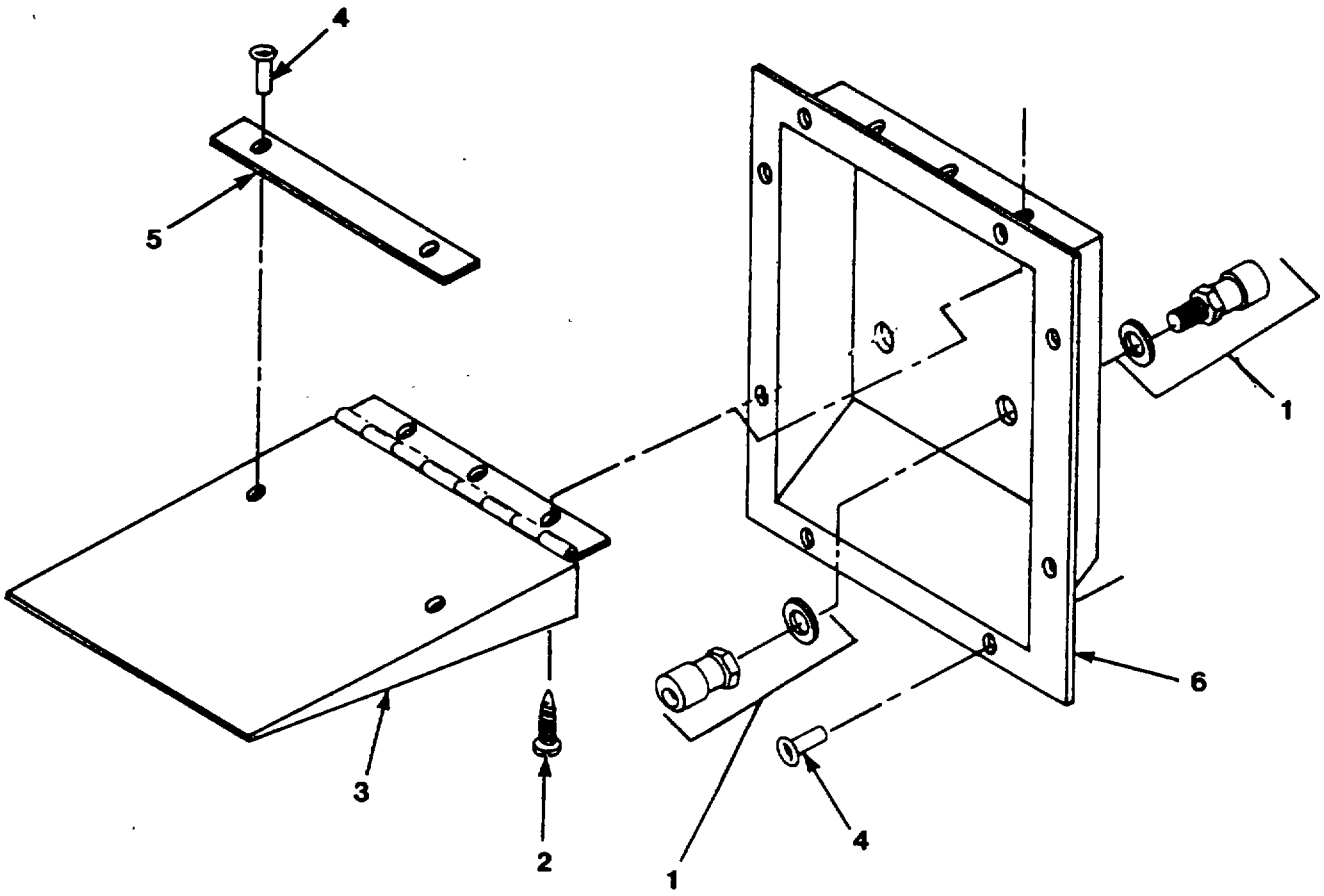


Figure 21. Telephone Binding Post Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 18 TELEPHONE BINDING POST ASSEMBLY	
				FIG. 21 TELEPHONE BINDING PO ST ASSEMBLY	
1	PAOZZ	81349	PB08NA01	.POST, BINDING, ELECTR	2
2	XDOZZ	96906	MS51861-24C	.SCREW, TAPPING, THREA	3
3	XDOZZ	81337	6-1-7502-4	.COVER, FRAME, TEL JAC	1
4	XDOZZ	96906	MS20600-B6W4	.RIVET, BLIND, PULL	8
5	XDOZZ	81337	6-1-7532-7	.PLATE, ID, TELEPHONE JACK	1
6	XDOZZ	81337	6-1-7532-3	.FRAME RECEPTACLE	1
				END OF FIGURE	

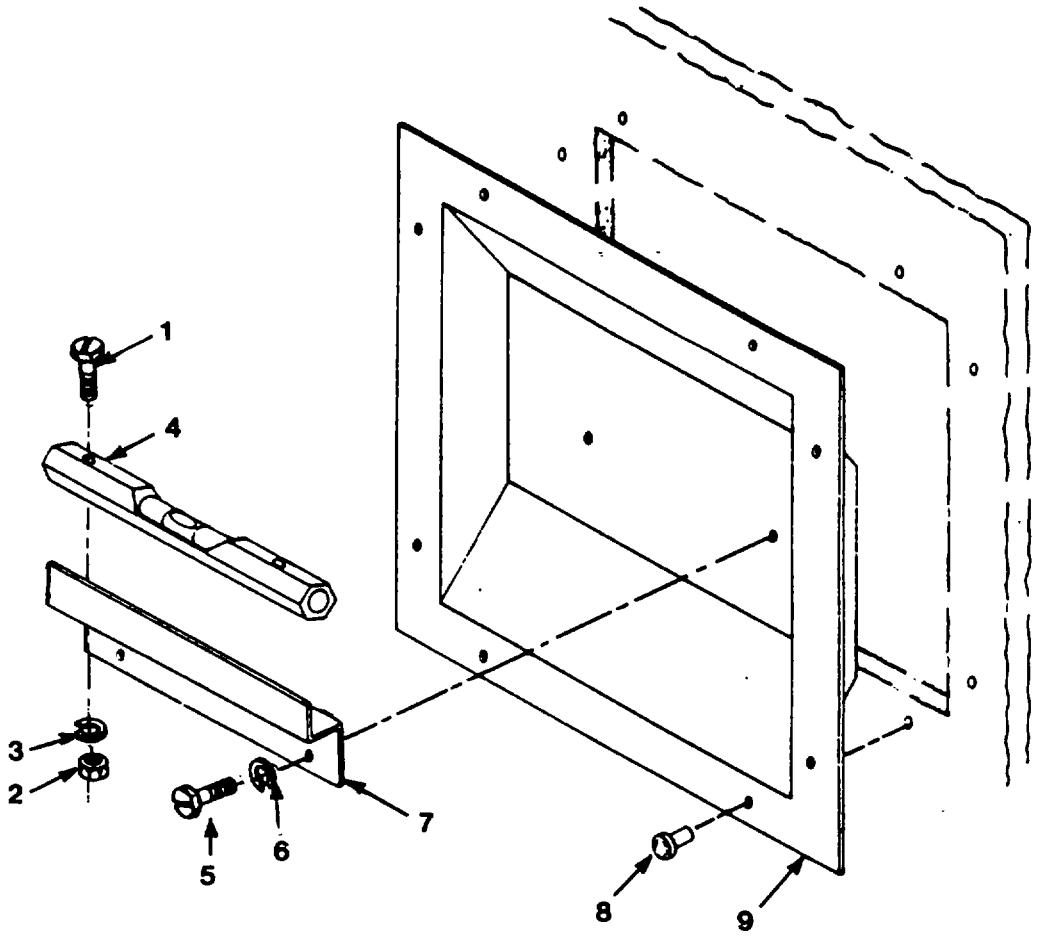


Figure 22. Level Indicator Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 19 LEVEL INDICATOR ASSEMBLY	
				FIG. 22 LEVEL INDICATOR ASSEMBLY	
	XDOOO	81337	6-1-5859	.ASSY, LEVEL IND	2
1	XDOZZ	96906	MS35206-247	.SCREW, MACHINE NO.8-32UNC-2A X 3/4 PLATED	2
2	XDOZZ	96906	MS35338-42	.WASHER, LOCK	2
3	XDOZZ	96906	MS35649-282	.NUT, PLAIN, HEXAGON	2
4	XDOZZ	85002	42-313	.LEVEL, POCKET	1
5	XDOZZ	96906	MS51861-24C	.SCREW, TAPPING, THREA	2
6	XDOZZ	96906	MS35338-41	.WASHER, LOCK	2
7	XDOZZ	81337	6-1-5859-2	.BRACKET, LEVEL	1
8	XDOZZ	96906	MS20600-B6W4	.RIVET, BLIND PULL	8
9	XDOZZ	81337	6-1-5859-1	.FRAME, RECEPTACLE	1
				END OF FIGURE	

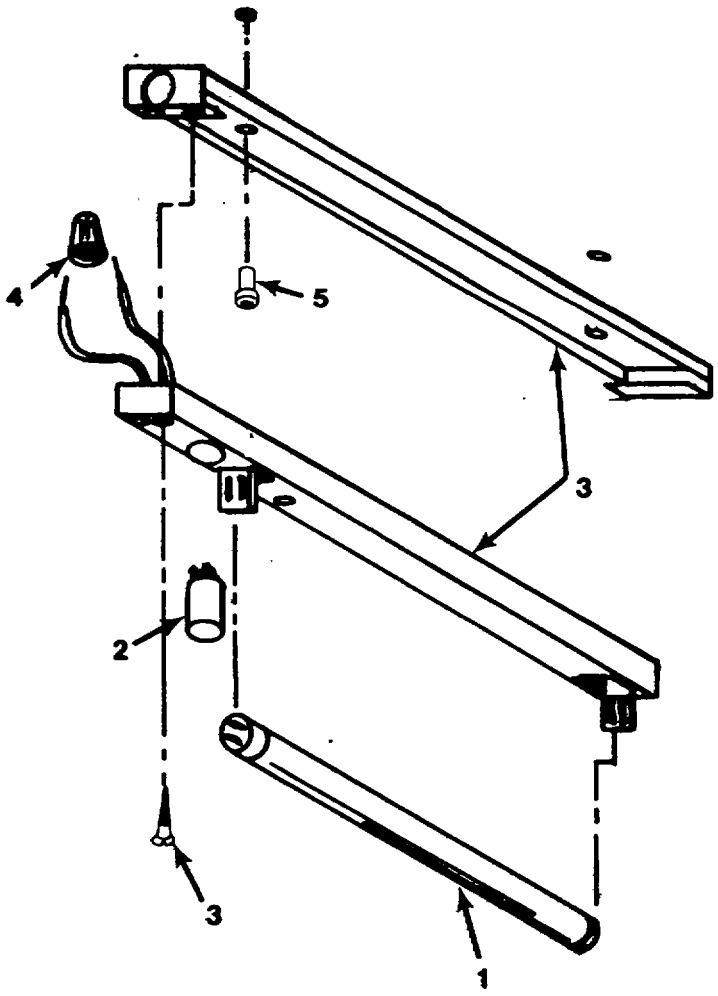


Figure 23. Ceiling Lamp Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 20 LAMP ASSEMBLY, CEILING	
				FIG. 23 CEILING LAMP ASSEMBLY	
1	PAOZZ	08108	F15T8/CW	.LAMP, FLUORESCENT	11
2	PAOZZ	04655	FS2	.STARTER, FLUORESCENT	11
3	XDOOO	11855	20A-10	.FIXTURE, LIGHTING 15W	11
4	PAOZZ	30119	30-078	.SPLICE, CONDUCTOR	22
5	XDOZZ	96906	MS20600-B6W5	.RIVET, BLIND 3/16	24
				END OF FIGURE	

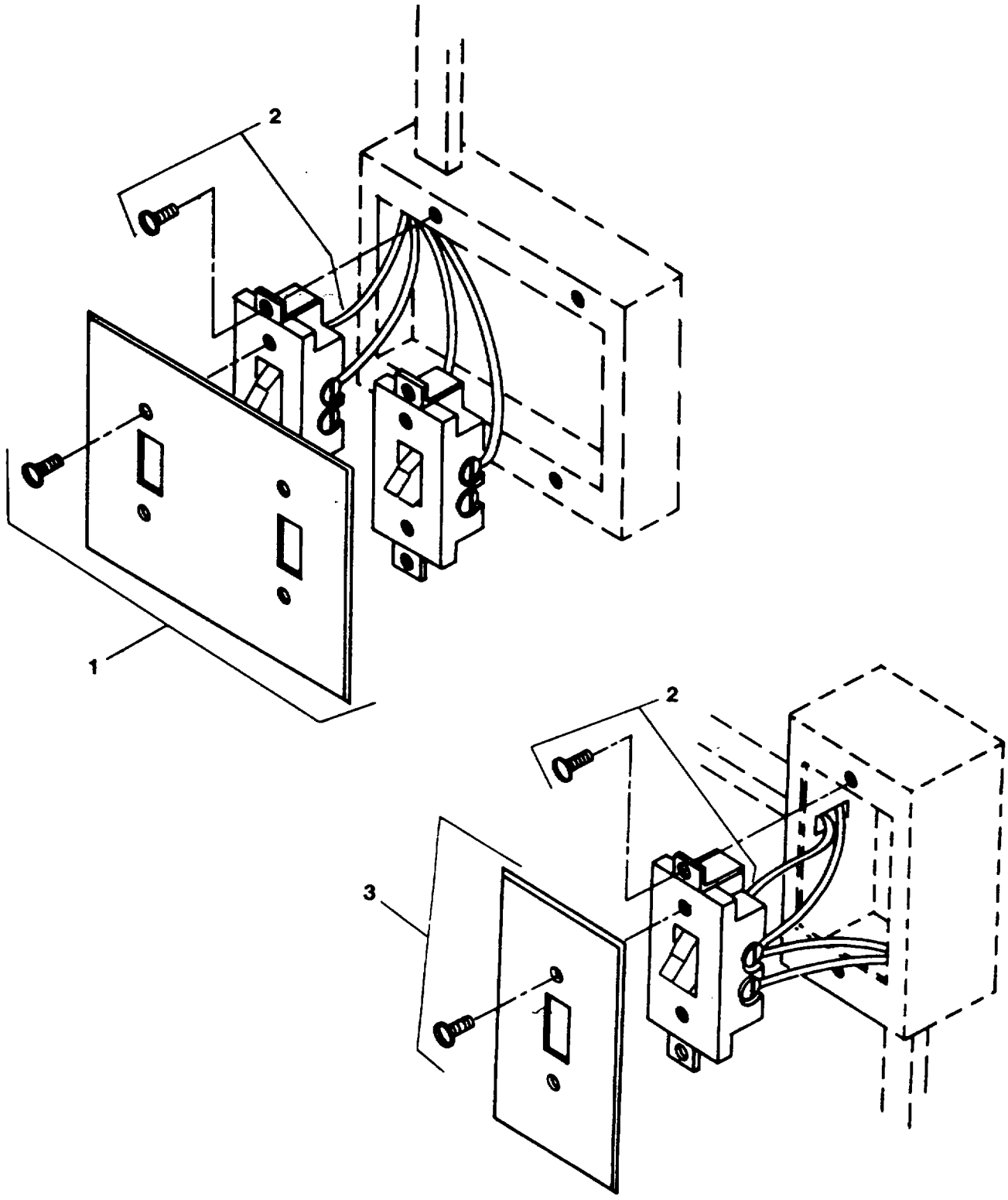


Figure 24. Lamp and Water Pump Switches

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 21 LAMP AND WATER PUMP SWITCHES	
				FIG. 24 LAMP AND WATER PUMP SWITCHES	
1	XDOZZ	74545	97072	PLATE, COVER, 2 GANG	1
2	PAOZZ	81348	WS896/2-03A	SWITCH, TOGGLE	3
3	XDOZZ	74545	97071	PLATE, WALL, ELECTRIC	1
				END OF FIGURE	

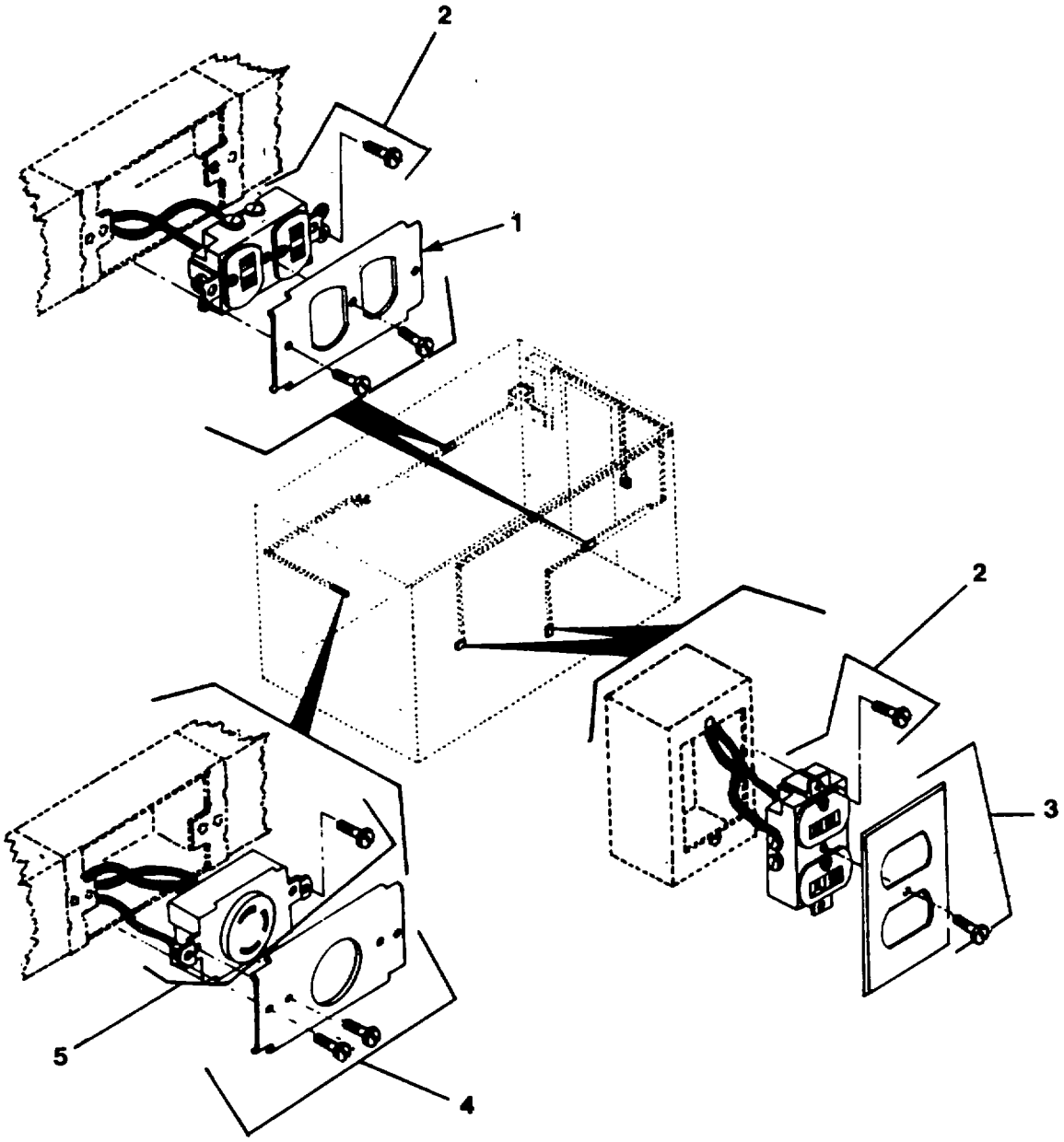


Figure 25. Equipment Receptacles Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 22 EQUIPMENT RECEPTACLES	
				FIG. 25 EQUIPMENT RECEPTACLES INSTALLATION	
1	XDOZZ	79725	G3046B	COVER, RECEPTACLEPDU	2
2	XDOZZ	74545	5252	OUTLET, TWIN, 3 POLE, 15A, 125V	5
3	XDOZZ	74545	97101	COVER, RECPTACLE, DUP	2
4	XDOZZ	79725	G3046A	COVER, RECEPTACLE, DU	2
5	XDOZZ	74545	3030	OUTLET, TWIST LOCK 30A, 250V	2
				END OF FIGURE	

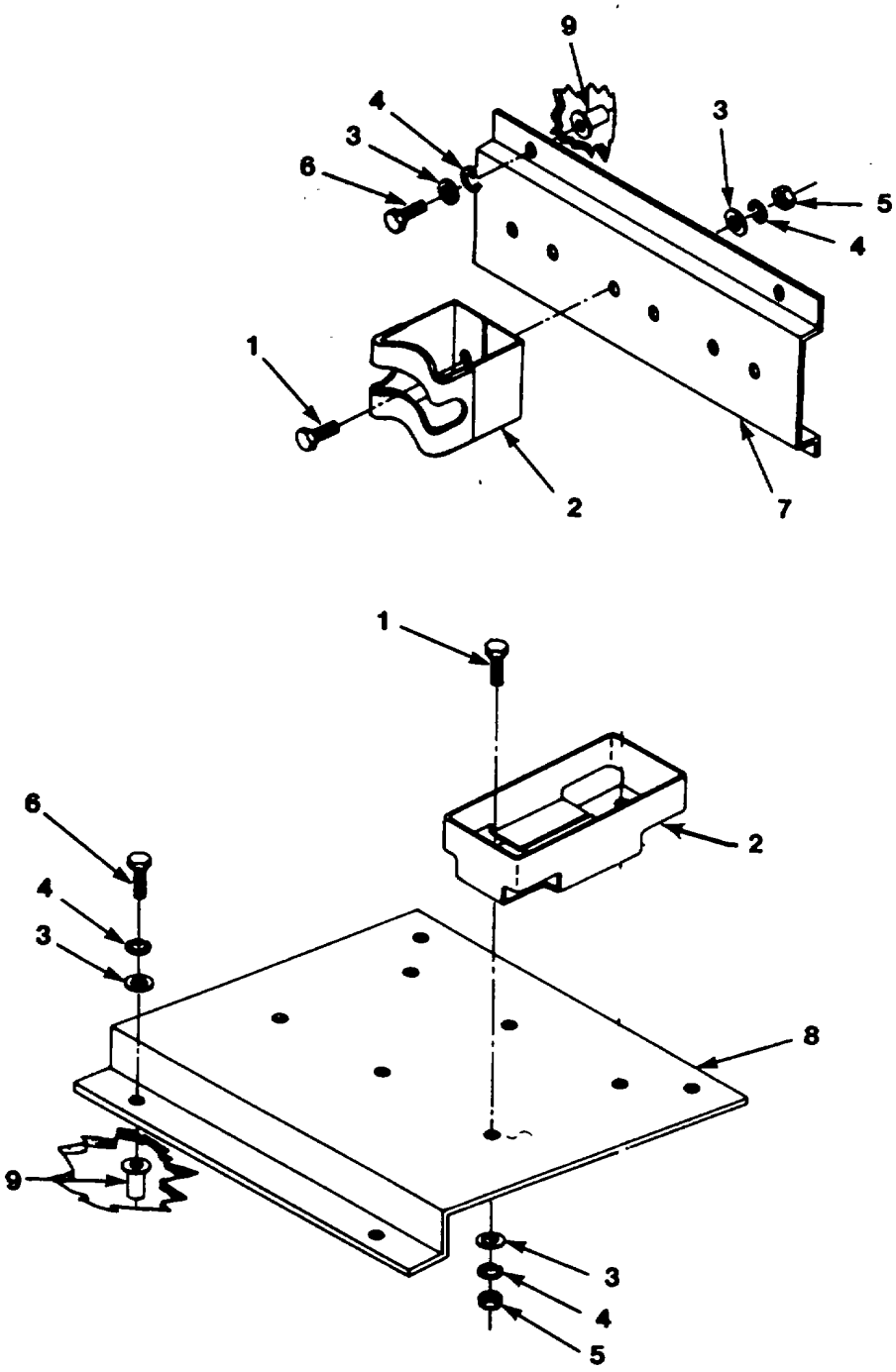


Figure 26. Rifle Rack Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 23 GUN RACK	
				FIG. 26 RIFLE RACK INSTALLATION	
	XCOOO	81337	6-1-7542	INSTL, RIFLE RACK	1
1	XDOZZ	96906	MS90725-3	SCREW, CAP, HEXAGON H	12
2	PDOZZ	19207	11630529	RACK, STORAGE, SMALL	3
3	XDOZZ	96906	MS27183-10	WASHER, FLAT	20
4	XDOZZ	96906	MS35338-44	WASHER, LOCK	20
5	XDOZZ	96906	MS35649-2252	NUT, PLAIN, HEXAGON	12
6	XDOZZ	96906	MS90728-8	SCREW, CAP, HEXAGON H 1/4X20X1	8
7	XDOZZ	81337	6-1-7542-1	PLATE, GUN RACK WALL	1
8	XDOZZ	81337	6-1-7542-2	PLATE, GUN RACK FLOO	1
9	XDOZZ	03481	A25K140	NUT, RIVET	8
				END OF FIGURE	

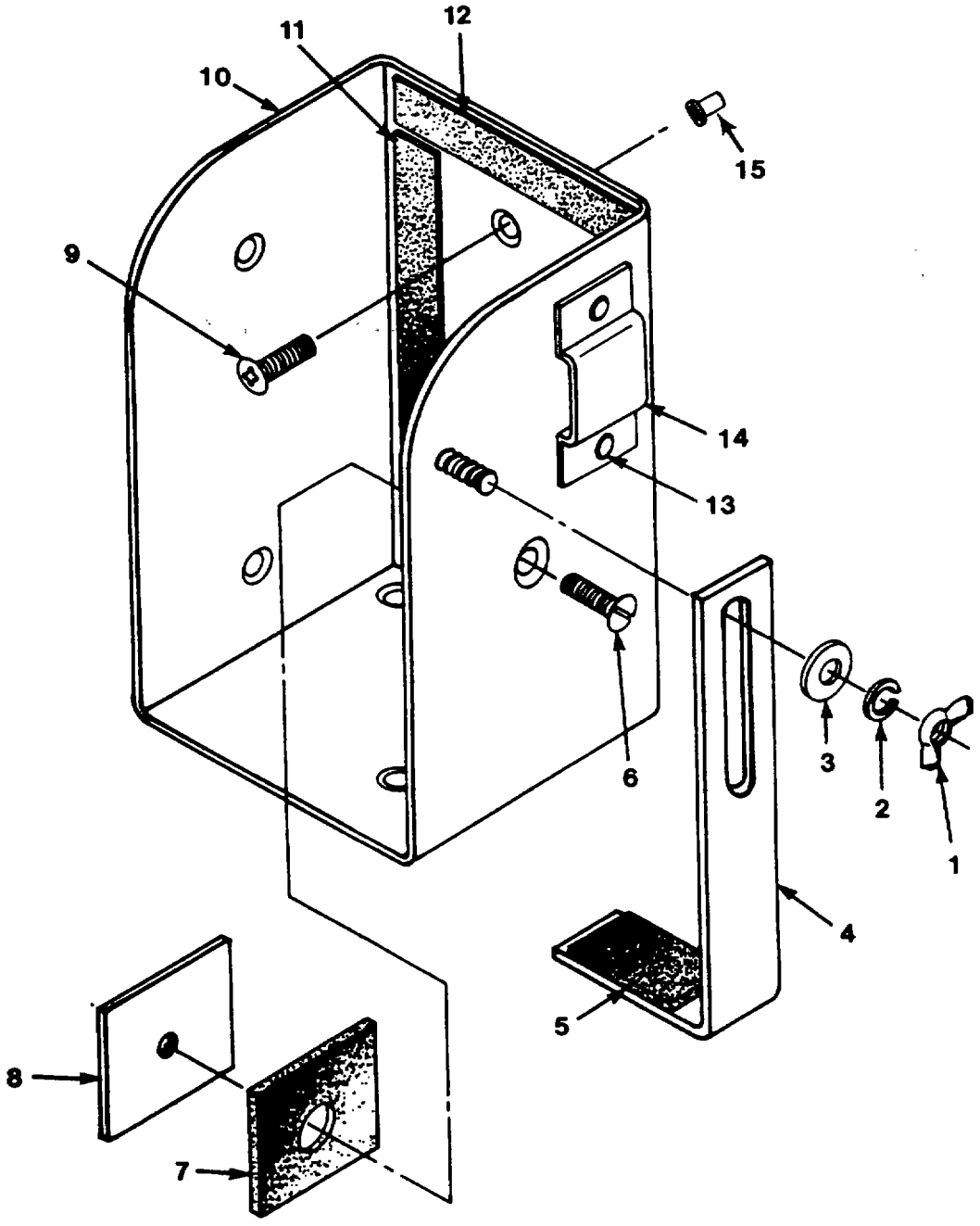


Figure 27. Telephone Bracket Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 24 TELEPHONE BRACKET	
				FIG. 27 TELEPHONE BRACKET INSTALLATION	
	XCOOO	81337	6-1-7543	INSTL, TELEPHONE BRA	1
1	XDOZZ	96906	MS34525-70	.NUT, PLAIN, WING	1
2	XDOZZ	96906	MS35338-44	.WASHER, LOCK	1
3	XDOZZ	96906	MS27183-10	.WASHER, FLAT	1
4	XDOZZ	81337	6-1-7543-2	.SLIDE	1
5	XDOZZ	81337	6-1-7543-8	.PAD, SLIDE	1
6	XDOZZ	96906	MS35191-294	.SCREW, MACHINE	1
7	XDOZZ	81337	6-1-7543-5	.PAD, PLATE	1
8	XDOZZ	81337	6-1-7543-4	.PLATE	1
9	XDOZZ	96906	MS35191-291	.SCREW, MACHINE	2
10	PDOZZ	80063	SC-C-539507	.TELEPHONE TERMINAL	1
11	XDOZZ	81337	6-1-7543-6	.PAD, BOX	2
12	XDOZZ	81337	6-1-7543-7	.PAD, BOX	2
13	XDOZZ	96906	MS20470-AD6-8	.RIVET, SOLID	2
14	XDOZZ	81337	6-1-7543-3	.RETAINER	1
15	XDOZZ	96906	MS27130-A40	.NUT, BLIND, RIVET	2
				END OF FIGURE	

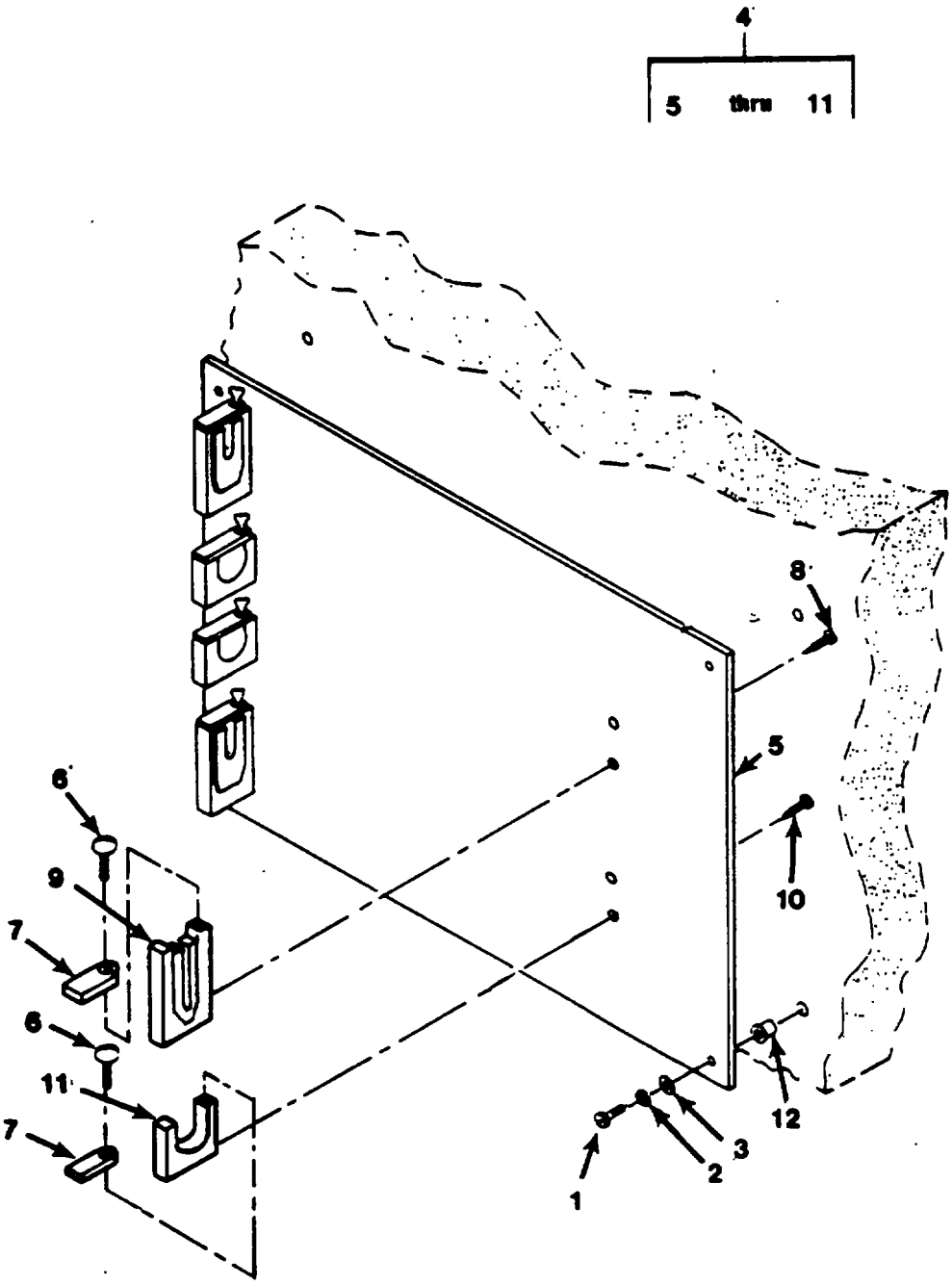


Figure 28. Roller Rack Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 25 ROLLER RACK	
				FIG. 28 ROLLER RACK ASSEMBLY	
1	XDOZZ	96906	MS35206-281	.SCREW, MACHINE	4
2	XDOZZ	96906	MS35338-44	.WASHER, LOCK	4
3	XDOZZ	96906	MS27183-10	.WASHER, FLAT	4
4	XBOZZ	81337	6-1-7538	.RACK, ROLLER	1
5	XDOZZ	81337	6-1-7538-1	..PLATE, MTG, ROLLER	1
6	XDOZZ	96906	MS21316-1	..THUM SCREW NO.6X1/4	8
7	XDOZZ	81337	6-1-7538-4	..CLIP, ROLLER	8
8	XDOZZ	96906	MS35202-40	..SCREW, CSHK #8 X 3/8	8
9	XDOZZ	81337	6-1-7538-2	..MOUNT, ROLLER, GUIDED	4
10	XDOZZ	96906	MS35202-38	..SCREW, CSHK 18 X ¼	8
11	XDOZZ	81337	6-1-7538-3	..MOUNT, ROLLER	4
12	XDOZZ	96906	MS27130-A31	.NUT, PLAIN, BLIND RIV	4
				END OF FIGURE	

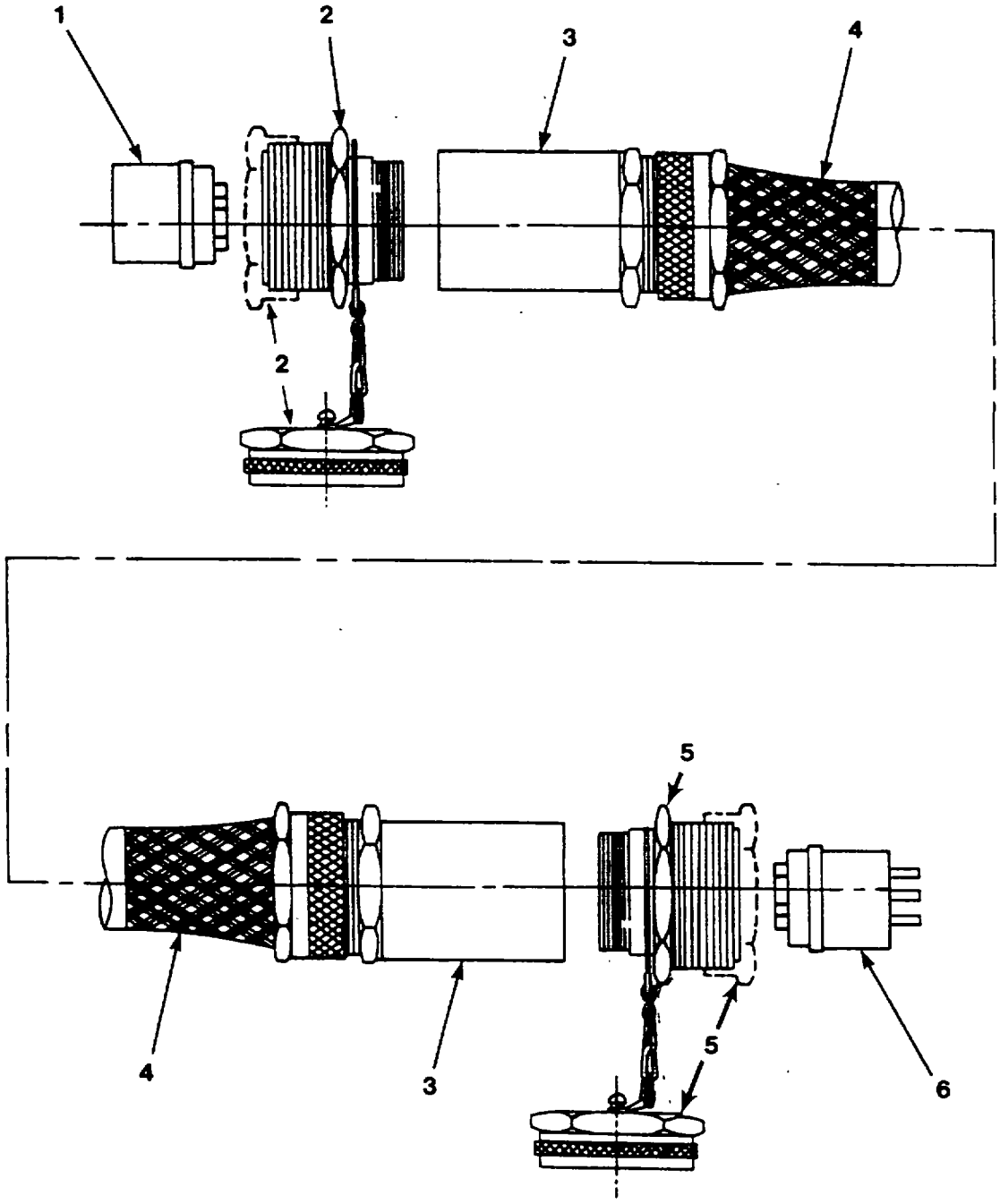


Figure 29. Male/Female Cable Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 26 MAIN POWER CABLE ASSEMBLY	
				FIG. 29 MALE/FEMALE CABLE ASSEMBLY	
	PDOFF	81337	5-4-6728	CABLE ASSEMBLY, POWE ALE, 50 FT.....	2
1	XDOZZ	49367	ZZM-16-23S	.INSERT, FEMALE.....	1
2	XDOZZ	49367	ZZM-WB-1516	.BARREL, FEMALE 60AMP	1
3	XDOZZ	49367	ZZM-W-2016-2050	.ADAPTER, CABLE CLAMP.....	2
4	XDOZZ	81349	MIL-C-3432	.CABLE, POWER, TYPESO.....	50
5	XDOZZ	49367	ZZM-WB-1116	.BARREL, MALE	1
6	XDOZA	49367	ZZM-16-23P	.INSERT, ELECTRICAL C.....	1
				END OF FIGURE	

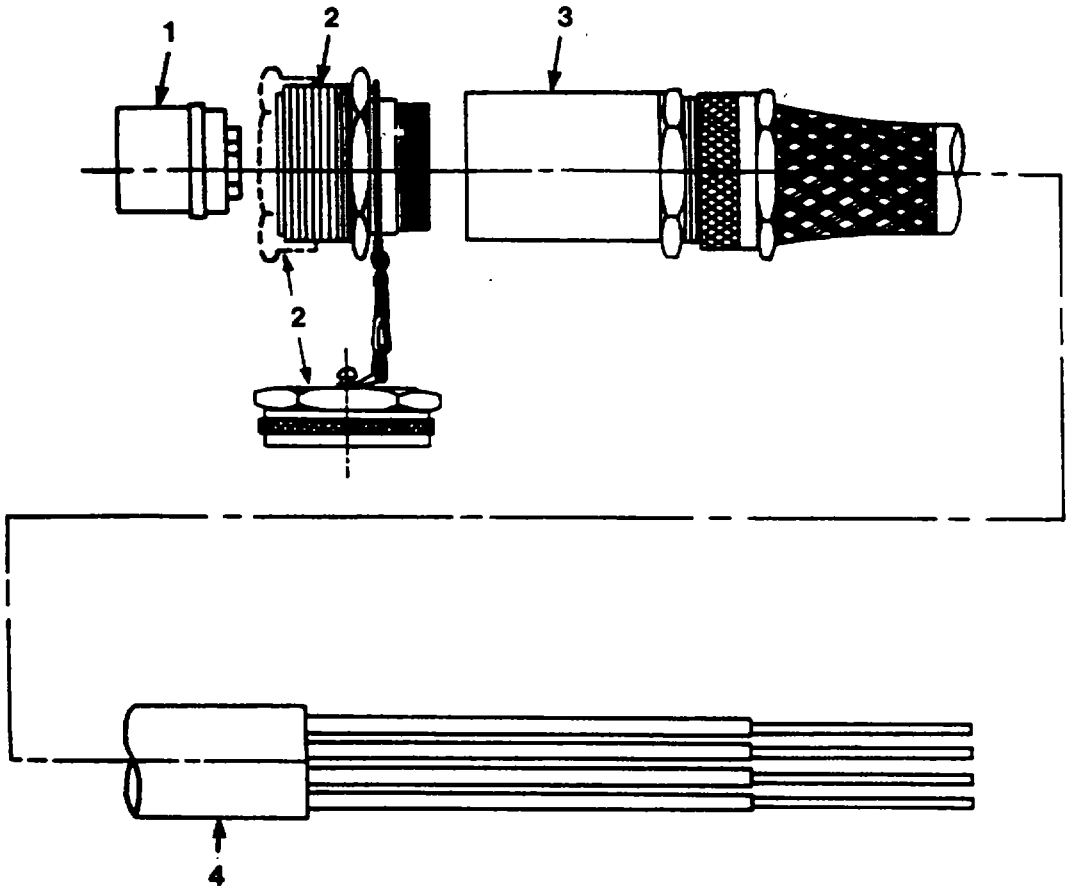


Figure 30. Female Cable Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 26 MAIN POWER CABLE ASSEMBLY	
				FIG. 30 FEMALE CABLE ASSEMBLY	
	PDOFF	81337	5-4-6727	CABLE ASSEMBLY, POWE 6 FT	1
1	XDOZZ	49367	ZZM-16-23S	.INSERT, FEMALE	1
2	XDOZZ	49367	ZZM-WB-1516	.BARREL, FEMALE 60AMP	1
3	XDOZZ	49367	ZZM-W-2016-2050	.ADAPTER, CABLE CLAMP.....	1
4	XDOZZ	81349	MIL-C-3432	.CABLE, POWER, TYPESO.....	6
				END OF FIGURE	

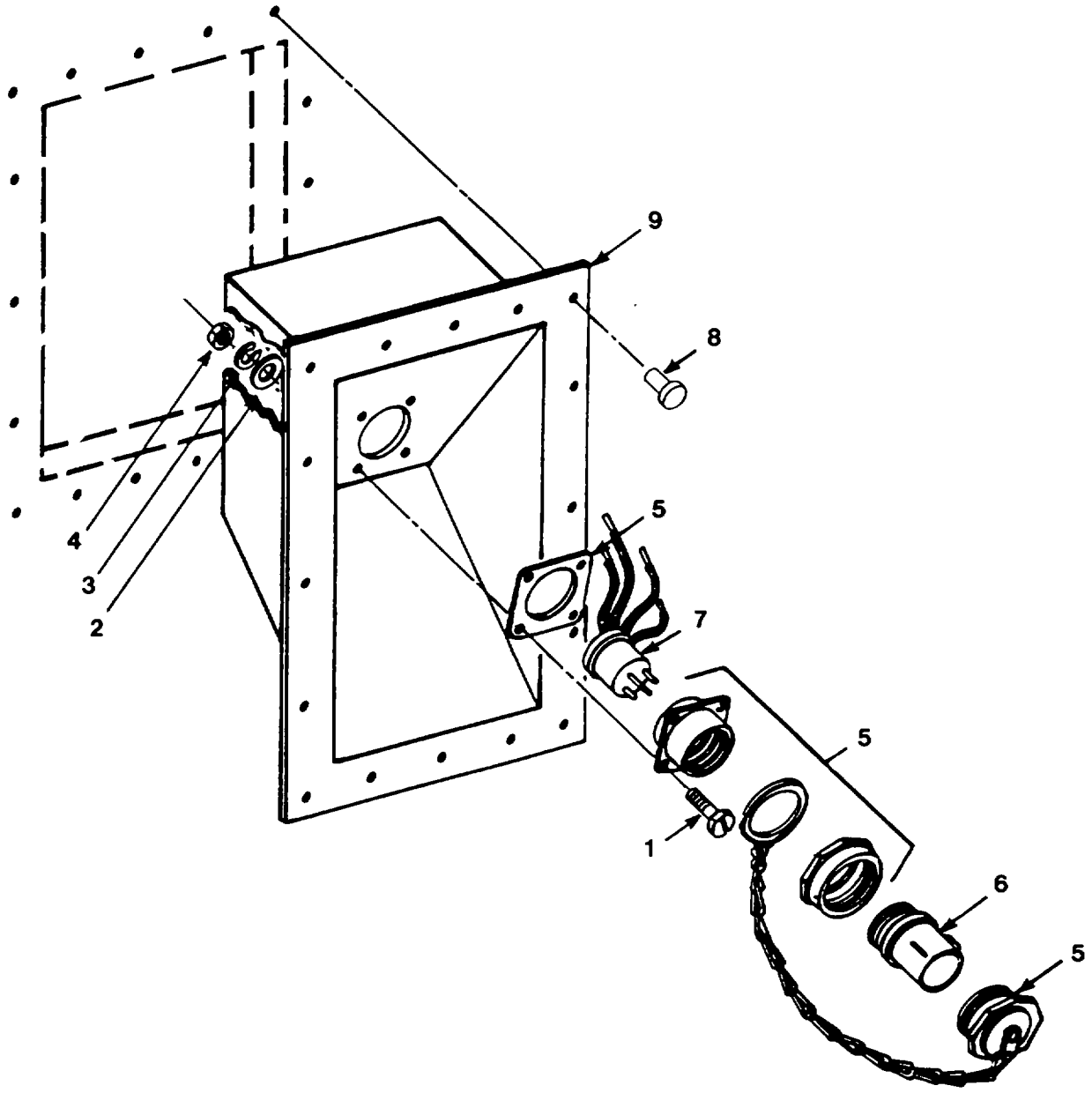


Figure 31. Main Power Receptacle Assembly (Sheet 1 of 2)

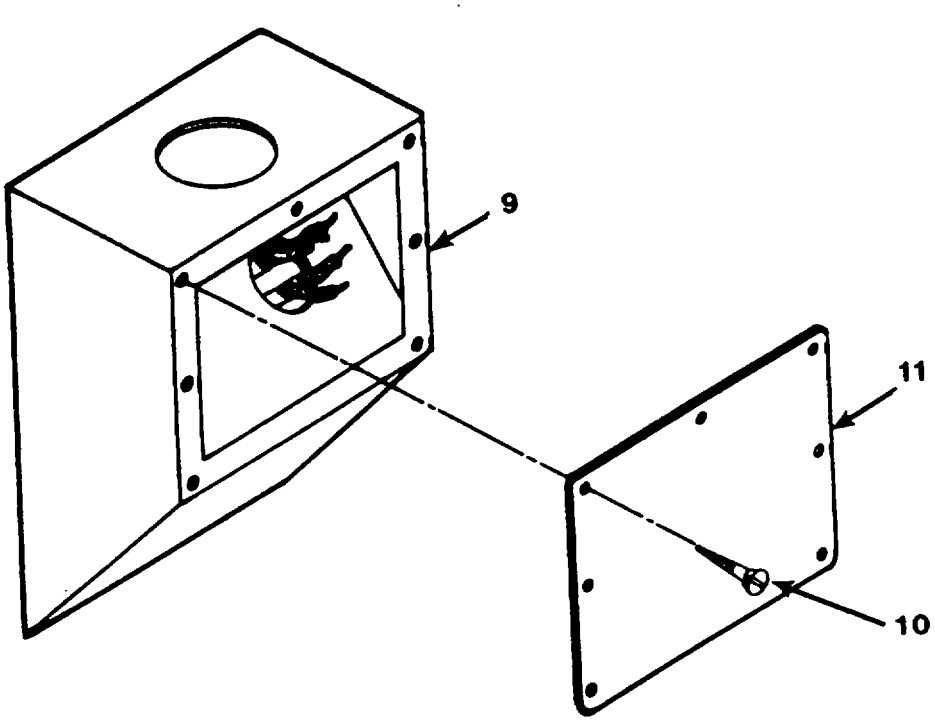


Figure 31. Main Power Receptacle Assembly (Sheet 2 of 2)

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 27 MAIN POWER RECEPTACLE	
				FIG. 31 MAIN POWER RECEPTACLE ASSEMBLY	
1	XDFZZ	96906	MS35214-59	.SCREW, MACHINE	4
2	XDFZZ	96906	MS15795-908	.WASHER, FLAT	4
3	XDFZZ	96906	MS35338-100	.WASHER, LOCK	4
4	XDFZZ	96906	MS35649-202	.NUT, PLAIN, HEXAGON	4
5	XDFZZ	49367	ZZM-W-2116	.ADAPTER, MALE 60AMP	1
6	XDFZZ	49367	ZZM-WB-1016	.BARREL MALE 60AMP	1
7	XDFZA	49367	ZZM-16-23P	.INSERT, ELECTRICAL C	1
8	XDFZZ	96906	MS20600-B6W4	.RIVET, BLIND PULL	16
9	XDFZZ	81337	6-1-7532-1	.RECEPTACLE BOX, CABLE ENTRANCE	1
10	XDFZZ	96906	MS51861-24C	.SCREW, TAPPING, THREA	7
11	XDFZZ	81337	6-1-7532-2	.COVER, RECEPTACLE	1

END OF FIGURE

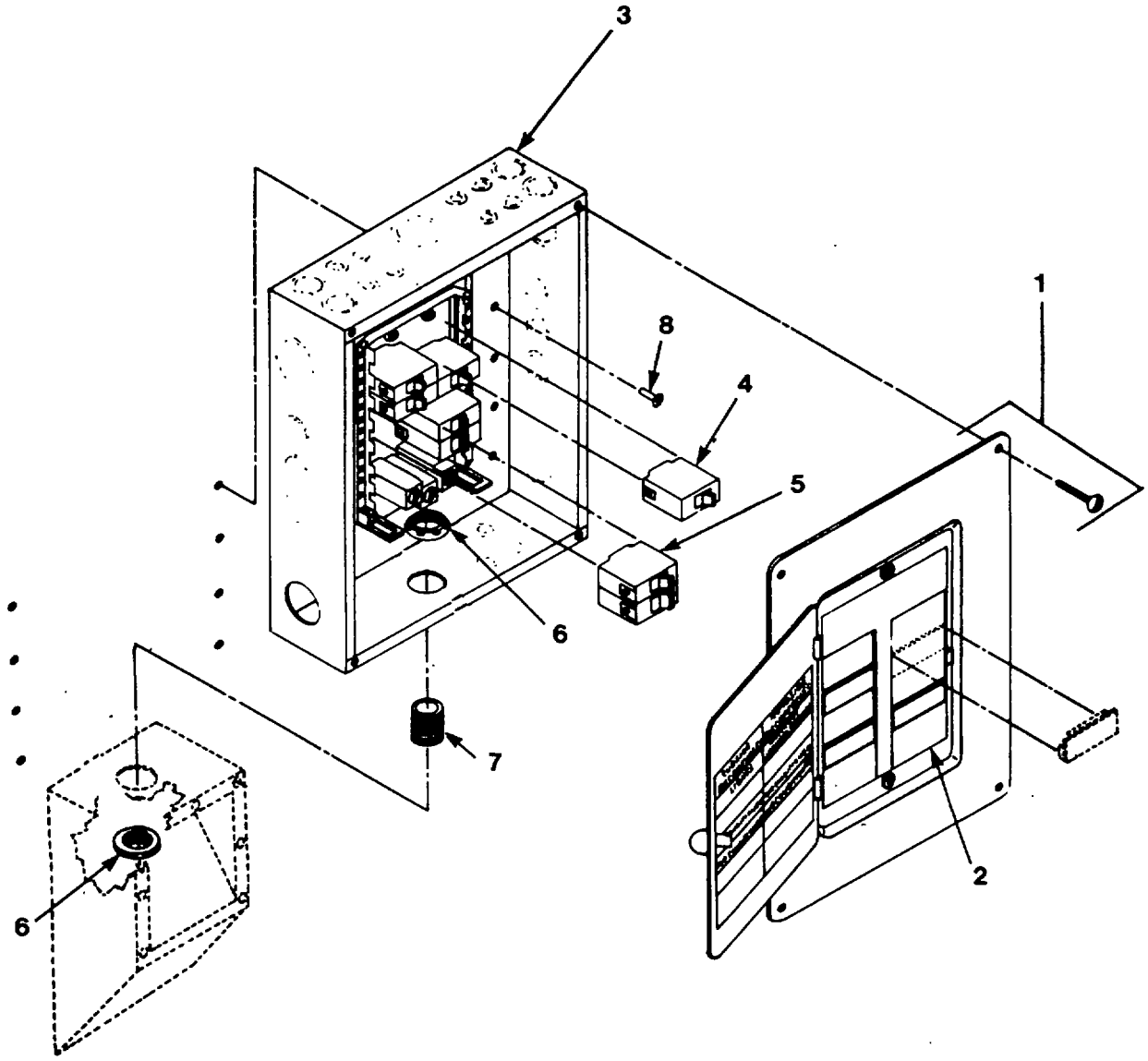


Figure 32. Main Power Service Box Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 28 MAIN POWER SERVICE BOX ASSEMBLY	
				FIG. 32 MAIN POWER SERVICE BOX ASSEMBLY	
1	XDFZZ	96906	MS51861-24	.SCREW, TAPPING, THREA THREAD FORM, NO.6X3/8LG	1
2	XDFZZ	30086	SU-150	.SURFACE TRIM	1
3	XDFZZ	30086	ITE-B150	.BOX, INDOOR	1
4	PAOZZ	30086	Q115	.CIRCUIT BREAKER 1 POLE, 15 AMP	4
5	PAOZZ	30086	Q130	.CIRCUIT BREAKER	2
6	XDFZZ	03350	PES-6	.BUSHING, INSULATING 1.5 INCH	2
7	XDFZZ	83879	7-150T	.NIPPLE, CLOSE 1.5NPT 1.75LG	1
8	XDFZZ	96906	MS20600-B6W4	.RIVET, BLIND, PULL	4
				END OF FIGURE	

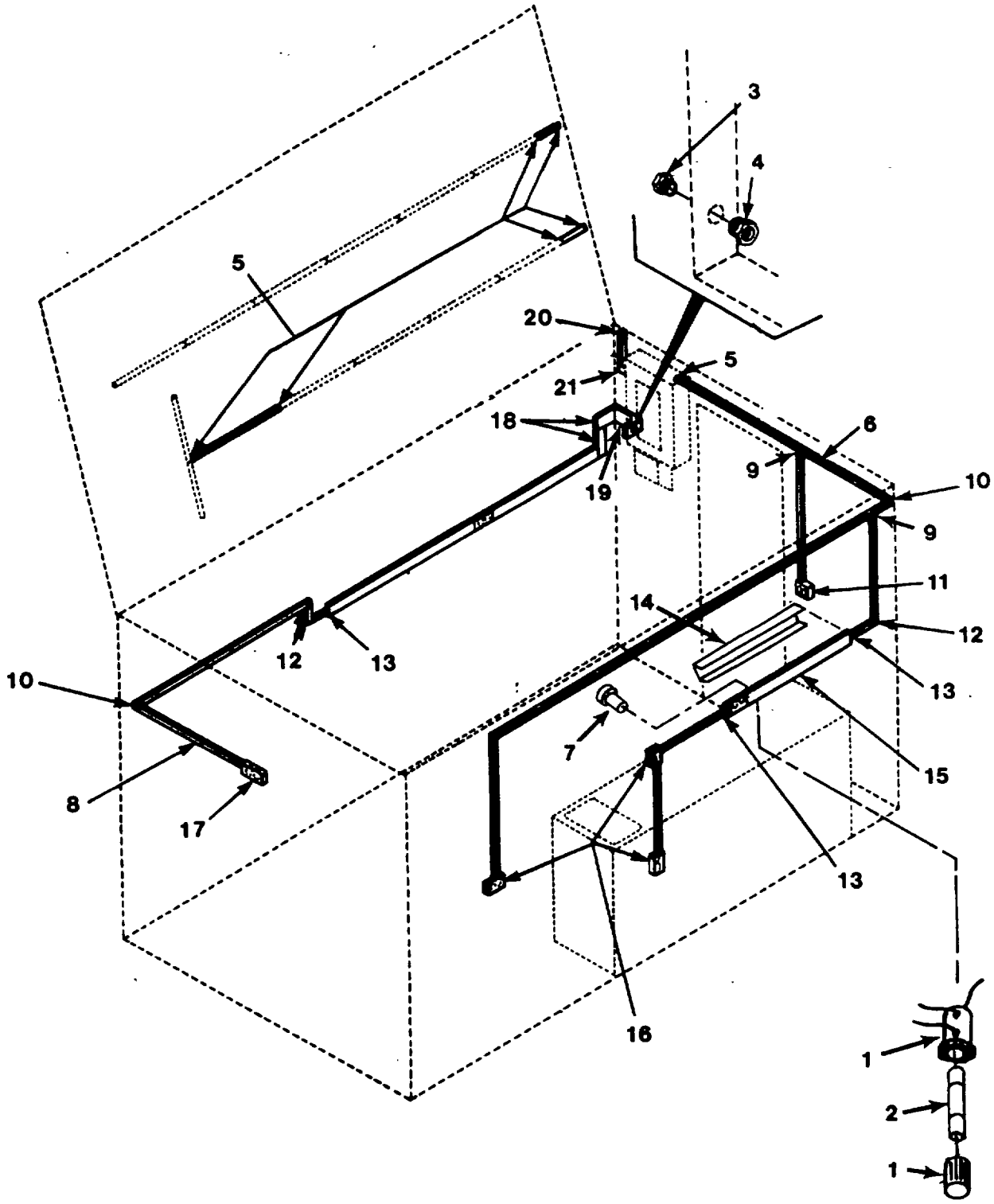


Figure 33. Rigid Conduit Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 29 CONDUIT, RIGID	
				FIG. 33 RIGID CONDUIT ASSEMBLY	
1	PAOZZ	81349	FHN28WB	.FUSEHOLDER, EXTRACTO	1
2	PAOZZ	81349	F02B250V1-1/2A	.FUSE, CARTRIDGE	1
3	XDFZZ	79725	BB-125	.BUSH, INSUL.1.25NPT,	1
4	XDFZZ	79725	PES-5	.BUSH, INSULAT.1.25 N	1
5	XDFZZ	79725	2110A	.FITTING, ENTRANCE, EN	8
6	XDFZZ	79725	2100C	.COVER, RACEWAY 1.25	V
7	XDFZZ	96906	MS20600-B6W4	.RIVET, BLIND, PULL	V
8	XDFZZ	79725	2100B	.CHANNEL, RACEWAY 1.2	V
9	XDFZZ	79725	2115	.TEE	2
10	XDFZZ	79725	2117TC	.COUPLING, ELBOW, RACE	2
11	XDFZZ	79725	2151-2	JUNCTION BOX	1
12	XDFZZ	79725	2111	.ELBOW, FLAT	4
13	XDFZZ	79725	G3089E	.CONNECT, REDUCING EN	4
14	XDFZZ	79725	G3000C	.COVER, RACEWAY	V
15	XDFZZ	79725	G3000B	.CHANNEL, RACEWAY	V
16	XDFZZ	79725	2141	.BOX, 1 GANG	3
17	XDFZZ	79725	G3010B	.BOX, INDOOR CKT BKR	1
18	XDFZZ	79725	G3011	.ELBOW, 90 DEG 2.75	2
19	XDFZZ	79725	G3086	.CONNECTOR, RACEWAY A	1
20	XDFZZ	79725	200	.RACEWAY, .50	V
21	XDFZZ	79725	2011	.ELBOW, 90DEG .50	1
				END OF FIGURE	

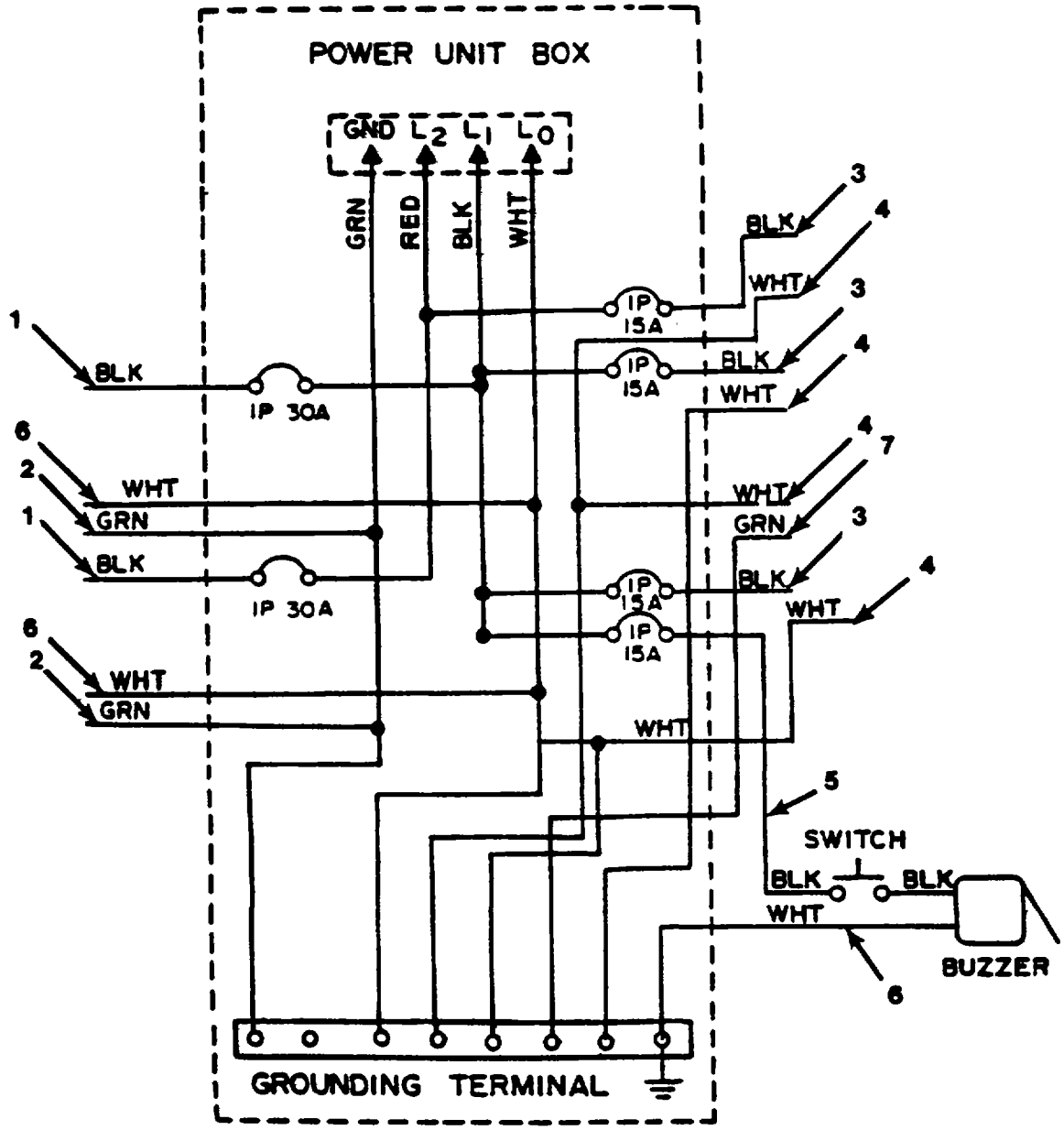


Figure 34. Electrical Wiring Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 30 ELECTRICAL WIRING ASSEMBLY	
				FIG. 34 ELECTRICAL WIRING ASSEMBLY	
1	XDFZZ	81349	THW06CF1/lOTUJO	..WIRE, 600V NO.10 STRANDED, BLACK.....	V
2	XDFZZ	81349	THW06CF1/10TUJ5	..WIRE, 600V NO.10 STRANDED, GREEN.....	V
3	XDFZZ	81349	THW06CF1/14TUJO	..WIRE, 600V NO.14 STRANDED, BLACK.....	V
4	XDFZZ	81349	THW06CF1/14TUJ9	..WIRE, 600V NO.14 STRANDED, WHITE.....	V
5	XDFZZ	81347	THW06CF1/12TUJO	..WIRE, 600V NO.12 STRANDED, BLACK.....	V
6	XDFZZ	81349	THW06CF1/12TUJ9	..WIRE, 600V NO.12 STRANDED, WHITE.....	V
7	XDFZZ	81349	THW06CF1/12TUJ5	..WIRE, 600V NO.12 STRANDED, GREEN.....	V
				END OF FIGURE	

Section III. SPECIAL TOOLS LIST

(Not Applicable)

CROSS-REFERENCE INDEXES

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5930-00-051-4448	24	2			
6240-00-152-2982	23	1			
5805-00-189-6123	27	10			
5920-00-227-6179	33	2			
6250-00-299-2884	23	2			
6350-00-383-1189	19	1			
3610-00-690-7152	3	2			
1095-00-763-7348	26	2			
5925-00-850-6432	32	5			
4720-00-882-1379	13	9			
4210-00-889-2491	17	1			
6545-00-922-1200	18	1			
5940-00-937-5237	21	1			
5920-00-964-4384	33	1			
5940-01-069-8914	23	4			
5925-01-107-8786	32	4			
5930-01-212-9579	19	3			
4730-01-223-4931	13	10			
3610-01-256-0613	6	4			
3610-01-256-0615	1	17			
7125-01-318-9056	14	6			
4320-01-321-9961	10	5			
6150-01-326-6572	29				
6150-01-326-6573	30				

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
58536	A-A-393	4210-00-889-2491	17	1
64392	A-10050		19	9
81348	AAS700TYPE2SIZE1		7	1
88044	AN117006		12	1
03481	A25K140		26	9
79725	BB-125		33	3
11444	CMC-142-11	3610-01-256-0613	6	4
66295	C16P		13	4
81349	FHN28WB	5920-00-964-4384	33	1
04655	FS2	6250-00-299-2884	23	2
81349	F02B250J1-1/2A	5920-00-227-6179	33	2
08108	F15T8/CW	6240-00-152-2982	23	1
79725	G3000B		33	15
79725	G3000C		33	14
79725	G3010B		33	17
79725	G3011		33	18
79725	G3046A		25	4
79725	G3046B		25	1
79725	G3086		33	19
79725	G3089E		33	13
35550	HF18S		12	5
30086	ITE-B150		32	3
81348	J-C-580ST6CK3/12 TTJ		16	4
81349	MIL-C-3432		29	4
			30	4
81349	MIL-F-21840 CL I I,TY 1		18	2
81349	MIL-F-21840 CL I I,TY 2		18	3
96906	MS14304-7P16		10	8
96906	MS15795-442		18	6
96906	MS15795-908		31	2
96906	MS16213-60		1	9
96906	MS16535-116		15	3
96906	MS20470-AD6-8		27	13
96906	MS20600-B4W3		15	25
96906	MS20600-B6W3		18	8
96906	MS20600-B6W4		12	7
			21	4
			22	8
			31	8
			32	8
			33	7
96906	MS20600-B6W5		23	5
96906	MS21316-1		28	6
96906	MS21316-13		2	7
96906	MS21919-D12		16	2
96906	MS24629-50		19	2
96906	MS27022-5		13	16
96906	MS27025-5	4730-01-223-4931	13	10

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS27028-5		13	12
96906	MS27130-A13		2	11
96906	MS27130-A27		4	9
96906	MS27130-A28		3	3
			7	6
			20	5
96906	MS27130-A31		28	12
96906	MS27130-A33		4	18
			5	3
			10	6
			20	10
96906	MS27130-A40		27	15
96906	MS27130-A44		5	9
96906	MS27130-A45		15	14
96906	MS27130-A50		15	16
96906	MS27130-A51		1	20
96906	MS27130-A62		4	3
96906	MS27130-S56		6	6
96906	MS27183-10		1	3
			4	12
			8	6
			9	5
			10	4
			14	2
			17	4
			19	6
			26	3
			27	3
			28	3
96906	MS27183-11		15	12
96906	MS27183-13		6	3
			15	9
96906	MS27183-15		1	16
96906	MS527183-42		2	3
96906	MS527183-8		8	11
96906	MS27183-9		1	10
			15	19
96906	MS3106R18-115		16	5
96906	MS34525-70		27	1
96906	MS35191-274		7	2
			18	4
			20	6
96906	MS35191-291		27	9
96906	MS35191-294		27	6
96906	MS35202-38		28	10
96906	MS35202-40		28	8
96906	MS35206-247		22	1
96906	MS35206-262		2	1
96906	MS35206-263		8	17
			9	16
			13	13

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS35206-281		28	1
96906	MS35207-263		3	1
96906	MS35207-264		8	10
96906	MS35207-265		4	8
96906	MS35214-59		31	1
96906	MS35267-63		1	8
96906	MS35307-319		15	18
96906	MS35307-337		15	13
96906	M535335-61		15	20
96906	MS35335-62		15	11
96906	MS35335-63		15	8
96906	MS35338-100		31	3
96906	MS35338-138		8	12
96906	MS35338-41		22	6
96906	M5S35338-42		22	2
96906	MS35338-43		2	2
			8	18
			9	17
			13	14
			18	5
96906	MS35338-44		1	2
			4	13
			8	8
			9	7
			10	3
			14	4
			17	5
			19	5
			20	3
			20	12
			26	4
			27	2
			28	2
96906	MS35338-45		1	19
96906	MS35338-46		6	2
96906	MS35338-47		1	15
96906	MS35492-28		4	5
96906	MS35493-78		5	4
96906	MS35649-202		2	4
			8	19
			9	18
			13	15
			31	4
96906	MS35649-2252		1	6
			4	14
			8	9
			9	8
			14	5
			17	6
			20	13
			26	5

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS35649-2.254		15	21
96906	MS35649-282		22	3
96906	MS35650-302		8	13
96906	MS35650-3402		11	17
96906	MS35842-11		11	12
96906	MS35842-12		11	1
96906	MS35842-8		11	6
			12	4
96906	MS51847-2		11	18
96906	MS51850-34		15	5
96906	MS51861-24		13	11
			32	1
96906	MS51861-24C		19	7
			21	2
			22	5
			31	10
96906	MS51861-45C		16	1
96906	MS51861-65		19	4
96906	MS90725-17		20	11
96906	MS90725-18		1	4
			4	10
			8	5
			9	4
			14	1
			17	2
96906	MS90725-3		26	1
96906	MS90725-6		10	2
			20	2
96906	MS90726-3		1	1
96906	MS90726-35		1	18
96906	MS90726-82		1	14
96906	MS90727-60		6	1
96906	MS90728-8		4	15
			26	6
96906	MS9785-13		15	10
96906	MS9786-13		15	7
22585	MX3319G		20	1
81349	M24243/6-604H		5	6
93510	OMB5		17	7
81349	PB08NA01	5940-00-937-5237	21	1
79725	PES-5		33	4
03350	PES-6		32	6
34784	P505-T1414		10	1
30086	Q115	5925-01-107-8786	32	4
30086	Q130	5925-00-850-6432	32	5
81343	SAE100R4-16	4720-00-882-1379	13	9
80063	SC-C-539507	5805-00-189-6123	27	10
30086	SU-150		32	2
35550	S135N61/2		12	6
81349	THW06CF1/10TUJ0		34	1
81349	THW06CF1/10TUJ5		34	2

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
81347	THW06CF1/12TUJ0		34	5
81349	THW06CF1/12TUJ5		34	7
81349	THW06CF1/12TUJ9		34	6
81349	THW06CF1/14TUJ0		34	3
81349	THW06CF1/14TUJ9		34	4
81348	WS896/2-03A	5930-00-051-4448	24	2
49367	ZZM-W-2016-2050		29	3
			30	3
49367	ZZM-W-2116		31	5
49367	ZZM-WB-1016		31	6
49367	ZZM-WB-1116		29	5
49367	ZZM-WB-1516		29	2
			30	2
49367	ZZM-16-23P		29	6
			31	7
49367	ZZM-16-23S		29	1
			30	1
30327	0303E		11	19
81337	1-6-6091		11	
81337	1-6-6137		6	5
81337	1-6-6138		6	
81337	1-6-6139		2	5
			2	6
81337	1-6-6140		5	2
81337	1-6-6140-2		4	2
81337	1-6-6141-1		5	7
81337	1-6-6141-2		5	8
81337	1-6-6142		5	5
81337	1-6-6143		5	
81337	1-6-6147		4	6
81337	1-6-6148		4	7
81337	1-6-6149		4	4
81337	1-6-6152		4	16
81337	1-6-6153		4	17
81337	1-6-6154		4	
81337	1-6-6155-1		2	10
81337	1-6-6155-2		2	8
81337	1-6-6156		2	
81337	1-6-6156-5		2	9
81337	1-6-6162		15	17
16327	1P805A	4320-01-321-9961	10	5
19207	11630529	1095-00-763-7348	26	2
19207	11677011	6545-00-922-1200	18	1
09177	120-6400-AS	3610-00-690-7152	3	2
09177	1250/T-51	3610-01-256-0615	1	17
97403	13226E4498		4	1
			5	1
97403	13226E4557-2		2	12
66607	150-019		12	2
1G601	1785	5930-01-212-9579	19	3
11855	20A-10		23	3

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
79725	200		33	20
79725	2011		33	21
23050	2100		12	3
79725	2100B		33	8
79725	2100C		33	6
79725	2110A		33	5
79725	2111		33	12
79725	2115		33	9
79725	2117TC		33	10
79725	2141		33	16
79725	2151-2		33	11
39428	2672K13		13	1
30119	30-078	5940-01-069-8914	23	4
74545	3030		25	5
74545	3331C		16	6
19557	340-4N5	6350-00-383-1189	19	1
85002	42-313		22	4
94222	43-1-3-0		8	16
			9	15
62531	439-211		13	8
39428	4547K11		11	9
39428	4596K52		11	15
39428	4823K16		13	6
39428	4880K12		11	3
81337	5-4-6727	6150-01-326-6573	30	
81337	5-4-6728	6150-01-326-6572	29	
71286	51L-l-1-AA		15	4
71286	51L71AA		15	6
39428	5108K68		13	5
39428	5231K17		11	7
39428	5231K19		11	13
39428	5231K24		11	4
39428	5233K34 -		11	2
74545	5252		25	2
39428	5372K17		11	10
39428	5372K25		11	14
39428	5372K35		13	3
39428	5373K18		11	8
39428	5373K24		11	11
39428	5373K35		11	5
			13	2
81337	6-1-5856		13	
81337	6-1-5856-14		13	18
81337	6-1-5856-3		13	19
81337	6-1-5856-6		13	17
81337	6-1-5859		22	
81337	6-1-5859-1		22	9
81337	6-1-5859-2		22	7
81337	6-1-5877-1		7	4
			20	8
81337	6-1-5877-2		20	9

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
81337	6-1-5877-3		7	5
81337	6-1-5878-1		20	14
81337	6-1-5878-2		20	15
81337	6-1-5878-3		20	4
81337	6-1-5887-20		9	1
81337	6-1-5887-21		8	3
			9	2
81337	6-1-5887-22		8	2
81337	6-1-5887-23		8	1
81337	6-1-5887-24		8	4
			9	3
81337	6-1-6090		10	7
81337	6-1-7502-4		21	3
81337	6-1-7503-17		14	9
81337	6-1-7506-20		11	16
81337	6-1-7532-1		31	9
81337	6-1-7532-2		31	11
81337	6-1-7532-3		21	6
81337	6-1-7532-6		19	8
81337	6-1-7532-7		21	5
81337	6-1-7532-8		19	10
81337	6-1-7533 NO. 2		9	9
81337	6-1-7533-NO. 1		8	21
81337	6-1-7533-1		12	8
81337	6-1-7533-16		9	12
81337	6-1-7533-30		8	20
			9	19
81337	6-1-7538		28	4
81337	6-1-7538-1		28	5
81337	6-1-7538-2		28	9
81337	6-1-7538-3		28	11
81337	6-1-7538-4		28	7
81337	6-1-7539	7125-01-318-9056	14	6
81337	6-1-7540		15	
81337	6-1-7540-1		15	22
81337	6-1-7540-2		15	24
81337	6-1-75.40-4		15	23
81337	6-1-7540-5		15	15
81337	6-1-7540-6		15	26
81337	6-1-7541		15	1
81337	6-1-7541-1		15	2
81337	6-1-7542		26	
81337	6-1-7542-1		26	7
81337	6-1-7542-2		26	8
81337	6-1-7543		27	
81337	6-1-7543-2		27	4
81337	6-1-7543-3		27	14
81337	6-1-7543-4		27	8
81337	6-1-7543-5		27	7
81337	6-1-7543-6		27	11
81337	6-1-7543-7		27	12

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CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
81337	6-1-7543-8		27	5
81337	6-1-7544		16	
81337	6-1-7544-1		16	3
81337	6-1-7546-1		18	7
81337	6-1-7547-1		1	21
81337	6-1-7547-10		1	12
81337	6-1-7547-11		1	13
81337	6-1-7547-4		1	11
81337	6-1-7547-5		17	3
81337	6-1-7547-6		1	5
			4	11
			8	7
			9	6
			14	3
81337	6-1-7547-7		1	7
42689	60-016-24TYPEF		14	8
42689	61-289-3		8	14
			9	13
42689	61-394		8	15
			9	14
76786	662		7	3
76786	662R1		20	7
42689	68-01624 TYF		9	11
42689	68-090		14	7
39428	6809K16		13	7
42689	69-090		9	10
83879	7-150T		32	7
74545	97071		24	3
74545	97072		24	1
74545	97101		25	3

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
1	1		96906	MS90726-3
1	2		96906	MS35338-44
1	3		96906	MS27183-10
1	4		96906	MS90725-18
1	5		81337	6-1-7547-6
1	6		96906	MS35649-2252
1	7		81337	6-1-7547-7
1	8		96906	MS35267-63
1	9		96906	MS16213-60
1	10		96906	MS27183-9
1	11		81337	6-1-7547-4
1	12		81337	6-1-7547-10
1	13		81337	6-1-7547-11
1	14		96906	MS90726-82
1	15		96906	MS35338-47
1	16		96906	MS27183-15
1	17	3610-01-256-0615	09177	1250/T-51
1	18		96906	MS90726-35
1	19		96906	MS35338-45
1	20		96906	MS27130-A51
1	21		81337	6-1-7547-1
2			81337	1-6-6156
2	1		96906	MS35206-262
2	2		96906	MS35338-43
2	3		96906	MS27183-42
2	4		96906	MS35649-202
2	5		81337	1-6-6139
2	6		81337	1-6-6139
2	7		96906	MS21316-13
2	8		81337	1-6-6155-2
2	9		81337	1-6-6156-5
2	10		81337	1-6-6155-1
2	11		96906	MS27130-A13
2	12		97403	13226E4557-2
3	1		96906	MS35207-263
3	2	3610-00-690-7152	09177	120-6400-AS
3	3		96906	MS27130-A28
4			81337	1-6-6154
4	1		97403	13226E4498
4	2		81337	1-6-6140-2
4	3		96906	MS27130-A62
4	4		81337	1-6-6149
4	5		96906	MS35492-28
4	6		81337	1-6-6147
4	7		81337	1-6-6148
4	8		96906	MS35207-265
4	9		96906	MS27130-A27
4	10		96906	MS90725-18
4	11		81337	6-1-7547-6
4	12		96906	MS27183-10
4	13		96906	MS35338-44

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
4	14		96906	MS35649-2252
4	15		96906	MS90728-8
4	16		81337	1-6-6152
4	17		81337	1-6-6153
4	18		96906	MS27130-A33
5			81337	1-6-6143
5	1		97403	13226E4498
5	2		81337	1-6-6140
5	3		96906	MS27130-A33
5	4		96906	M5S35493-78
5	5		81337	1-6-6142
5	6		81349	M24243/6-604H
5	7		81337	1-6-6141-1
5	8		81337	1-6-6141-2
5	9		96906	MS27130-A44
6			81337	1-6-6138
6	1		96906	MS90727-60
6	2		96906	MS35338-46
6	3		96906	MS27183-13
6	4	3610-01-256-0613	11444	CMC-142-11
6	5		81337	1-6-6137
6	6		96906	MS27130-S56
7	1		81348	AAS700TYPE2SIZE1
7	2		96906	MS35191-274
7	3		76786	662
7	4		81337	6-1-5877-1
7	5		81337	6-1-5877-3
7	6		96906	MS27130-A28
8	1		81337	6-1-5887-23
8	2		81337	6-1-5887-22
8	3		81337	6-1-5887-21
8	4		81337	6-1-5887-24
8	5		96906	MS90725-18
8	6		96906	MS27183-10
8	7		81337	6-1-7547-6
8	8		96906	MS35338-44
8	9		96906	MS35649-2252
8	10		96906	MS35207-264
8	11		96906	MS27183-8
8	12		96906	M535338-138
8	13		96906	MS35650-302
8	14		42689	61-289-3
8	15		42689	61-394
8	16		94222	43-1-3-0
8	17		96906	MS35206-263
8	18		96906	MS35338-43
8	19		96906	M5S35649-202
8	20		81337	6-1-7533-30
8	21		81337	6-1-7533-NO. 1
9	1		81337	6-1-5887-20
9	2		81337	6-1-5887-21

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
9	3		81337	6-1-5887-24
9	4		96906	MS90725-18
9	.5		96906	MS27183-10
9	6		81337	6-1-7547-6
9	7		96906	MS35338-44
9	8		96906	MS35649-2252
9	9		81337	6-1-7533 NO. 2
9	10		42689	69-090
9	11		42689	68-01624 TYF
9	12		81337	6-1-7533-16
9	13		42689	61-289-3
9	14		42689	61-394
9	15		94222	43-1-3-0
9	16		96906	MS35206-263
9	17		96906	MS35338-43
9	18		96906	MS35649-202
9	19		81337	6-1-7533-30
10	1		34784	P505-T1414
10	2		96906	MS90725-6
10	3		96906	MS35338-44
10	4		96906	MS27183-10
10	5	4320-01-321-9961	16327	lP805A
10	6		96906	MS27130-A33
10	7		81337	6-1-6090
10	8		96906	MS14304-7P16
11			81337	1-6-6091
11	1		96906	MS35842-12
11	2		39428	5233K34
11	3		39428	4880K12
11	4		39428	5231K24
11	5		39428	5373K35
11	6		96906	MS35842-8
11	7		39428	5231K17
11	8		39428	5373K18
11	9		39428	4547K11
11	10		39428	5372K17
11	11		39428	5373K24
11	12		96906	MS35842-11
11	13		39428	5231K19
11	14		39428	5372K25
11	15		39428	4596K52
11	16		81337	6-1-7506-20
11	17		96906	MS35650-3402
11	18		96906	MS51847-2
11	19		30327	0303E
12	1		88044	AN117006
12	2		66607	150-019
12	3		23050	2100
12	4		96906	MS35842-8
12	5		35550	HF18S
12	6		35550	S135N61/2

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
12	7		96906	MS20600-B6W4
12	8		81337	6-1-7533-1
13			81337	6-1-5856
13	1		39428	2672K13
13	2		39428	5373K35
13	3		39428	5372K35
13	4		66295	C16P
13	5		39428	5108K68
13	6		39428	4823K16
13	7		39428	6809K16
13	8		62531	439-211
13	9	4720-00-882-1379	81343	SAE100R4-16
13	10	4730-01-223-4931	96906	M527025-5
13	11		96906	MS51861-24
13	12		96906	MS27028-5
13	13		96906	MS35206-263
13	14		96906	MS35338-43
13	15		96906	MS35649-202
13	16		96906	MS27022-5
13	17		81337	6-1-5856-6
13	18		81337	6-1-5856-14
13	19		81337	6-1-5856-3
14	1		96906	MS90725-18
14	2		96906	MS27183-10
14	3		81337	6-1-7547-6
14	4		96906	MS35338-44
14	5		96906	MS35649-2252
14	6	7125-01-318-9056	81337	6-1-7539
14	7		42689	68-090
14	8		42689	60-016-24TYPEF
14	9		81337	6-1-7503-17
15			81337	6-1-7540
15	1		81337	6-1-7541
15	2		81337	6-1-7541-1
15	3		96906	MS16535-116
15	4		71286	51L-1-1-AA
15	5		96906	MS51850-34
15	6		71286	51L71AA
15	7		96906	MS9786-13
15	8		96906	M535335-63
15	9		96906	MS27183-13
15	10		96906	MS9785-13
15	11		96906	MS35335-62
15	12		96906	MS27183-11
15	13		96906	MS35307-337
15	14		96906	MS27130-A45
15	15		81337	6-1-7540-5
15	16		96906	MS27130-A50
15	17		81337	1-6-6162
15	18		96906	MS35307-319
15	19		96906	MS27183-9

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
15	20		96906	MS35335-61
15	21		96906	MS35649-2254
15	22		81337	6-1-7540-1
15	23		81337	6-1-7540-4
15	24		81337	6-1-7540-2
15	25		96906	MS20600-B4W3
15	26		81337	6-1-7540-6
16			81337	6-1-7544
16	1		96906	MS51861-45C
16	2		96906	MS21919-D12
16	3		81337	6-1-7544-1
16	4		81348	J-C-580ST6CK3/12 TTJ
16	5		96906	MS3106R18-11S
16	6		74545	3331C
17	1	4210-00-889-2491	58536	A-A-393
17	2		96906	MS90725-18
17	3		81337	6-1-7547-5
17	4		96906	MS27183-10
17	5		96906	MS35338-44
17	6		96906	MS35649-2252
17	7		93510	OMB5
18	1	6545-00-922-1200	19207	11677011
18	2		81349	MIL-F-21840 CL I I, TY 1
18	3		81349	MIL-F-21840 CL I I, TY 2
18	4		96906	MS35191-274
18	5		96906	M535338-43
18	6		96906	M5S15795-442
18	7		81337	6-1-7546-1
18	8		96906	MS20600-B6W3
19	1	6350-00-383-1189	19557	340-4N5
19	2		96906	MS24629-50
19	3	5930-01-212-9579	1G601	1785
19	4		96906	MS51861-65
19	5		96906	MS35338-44
19	6		96906	MS27183-10
19	7		96906	MS51861-24C
19	8		81337	6-1-7532-6
19	9		64392	A-10050
19	10		81337	6-1-7532-8
20	1		22585	MX3319G
20	2		96906	MS90725-6
20	3		96906	MS35338-44
20	4		81337	6-1-5878-3
20	5		96906	MS27130-A28
20	6		96906	MS35191-274
20	7		76786	662R1
20	8		81337	6-1-5877-1
20	9		81337	6-1-5877-2

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
20	10		96906	MS27130-A33
20	11		96906	MS90725-17
20	12		96906	MS35338-44
20	13		96906	MS35649-2252
20	14		81337	6-1-5878-1
20	15		81337	6-1-5878-2
21	1	5940-00-937-5237	81349	PB08NA01
21	2		96906	MS51861-24C
21	3		81337	6-1-7502-4
21	4		96906	MS20600-B6W4
21	5		81337	6-1-7532-7
21	6		81337	6-1-7532-3
22			81337	6-1-5859
22	1		96906	MS35206-247
22	2		96906	MS35338-42
22	3		96906	MS35649-282
22	4		85002	42-313
22	5		96906	MS51861-24C
22	6		96906	MS35338-41
22	7		81337	6-1-5859-2
22	8		96906	MS20600-B6W4
22	9		81337	6-1-5859-1
23	1	6240-00-152-2982	08108	F15T8/CW
23	2	6250-00-299-2884	04655	FS2
23	3		11855	20A-10
23	4	5940-01-069-8914	30119	30-078
23	5		96906	MS20600-B6W5
24	1		74545	97072
24	2	5930-00-051-4448	81348	WS896/2-03A
24	3		74545	97071
25	1		79725	G3046B
25	2		74545	5252
25	3		74545	97101
25	4		79725	G3046A
25	5		74545	3030
26			81337	6-1-7542
26	1		96906	MS90725-3
26	2	1095-00-763-7348	19207	11630529
26	3		96906	MS27183-10
26	4		96906	MS35338-44
26	5		96906	MS35649-2252
26	6		96906	MS90728-8
26	7		81337	6-1-7542-1
26	8		81337	6-1-7542-2
26	9		03481	A25K140
27			81337	6-1-7543
27	1		96906	MS34525-70
27	2		96906	MS35338-44
27	3		96906	M527183-10
27	4		81337	6-1-7543-2
27	5		81337	6-1-7543-8

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
27	6		96906	M5S35191-294
27	7		81337	6-1-7543-5
27	8		81337	6-1-7543-4
27	9		96906	MS35191-291
27	10	5805-00-189-6123	80063	SC-C-539507
27	11		81337	6-1-7543-6
27	12		81337	6-1-7543-7
27	13		96906	MS20470-AD6-8
27	14		81337	6-1-7543-3
27	15		96906	MS27130-A40
28	1		96906	MS35206-281
28	2		96906	MS35338-44
28	3		96906	MS27183-10
28	4		81337	6-1-7538
28	5		81337	6-1-7538-1
28	6		96906	MS21316-1
28	7		81337	6-1-7538-4
28	8		96906	MS35202-40
28	9		81337	6-1-7538-2
28	10		96906	MS35202-38
28	11		81337	6-1-7538-3
28	12		96906	MS27130-A31
29		6150-01-326-6572	81337	5-4-6728
29	1		49367	ZZM-16-23S
29	2		49367	ZZM-WB-1516
29	3		49367	ZZM-W-2016-2050
29	4		81349	MIL-C-3432
29	5		49367	ZZM-WB-1116
29	6		49367	ZZM-16-23P
30		6150-01-326-6573	81337	5-4-6727
30	1		49367	ZZM-16-23S
30	2		49367	ZZM-WB-1516
30	3		49367	ZZM-W-2016-2050
30	4		81349	MIL-C-3432
31	1		96906	MS35214-59
31	2		96906	MS15795-908
31	3		96906	MS35338-100
31	4		96906	MS35649-202
31	5		49367	ZZM-W-2116
31	6		49367	ZZM-WB-1016
31	7		49367	ZZM-16-23P
31	8		96906	MS20600-B6W4
31	9		81337	6-1-7532-1
31	10		96906	MS51861-24C
31	11		81337	6-1-7532-2
32	1		96906	MS51861-24
32	2		30086	SU-150
32	3		30086	ITE-B150
32	4	5925-01-107-8786	30086	Q115
32	5	5925-00-850-6432	30086	Q130
32	6		03350	PES-6

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CAGEC	FIG	STOCK NUMBER	CAGEC	PART NUMBER
32	7		83879	7-150T
32	8		96906	MS20600-B6W4
33	1	5920-00-964-4384	81349	FHN28WB
33	2	5920-00-227-6179	81349	F02B250V1-1/2A
33	3		79725	BB-125
33	4		79725	PES-5
33	5		79725	2110A
33	6		79725	2100C
33	7		96906	MS20600-B6W4
33	8		79725	2100B
33	9		79725	2115
33	10		79725	2117TC
33	11		79725	2151-2
33	12		79725	2111
33	13		79725	G3089E
33	14		79725	G3000C
33	15		79725	G3000B
33	16		79725	2141
33	17		79725	G3010B
33	18		79725	G3011
33	19		79725	G3086
33	20		79725	200
33	21		79725	2011
34	1		81349	THW06CF1/10TUJ0
34	2		81349	THW06CF1/10TUJ5
34	3		81349	THW06CF1/14TUJ0
34	4		81349	THW06CF1/14TUJ9
34	5		81347	THW06CF1/12TUJ0
34	6		81349	THW06CF1/12TUJ9
34	7		81349	THW06CF1/12TUJ5

*U.S. GOVERNMENT PRINTING OFFICE : 1992-654-028/60071

APPENDIX G

ILLUSTRATED LIST OF MANUFACTURED ITEMS

There are no manufactured parts listed for the Press Shelter

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

THOMAS F. SIKORA
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

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* U.S. GOVERNMENT PRINTING OFFICE: 1990 754-124/20004

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PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

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

The Metric System and Equivalents

Linear Measure

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

Weights

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

Liquid Measure

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

Square Measure

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

Cubic Measure

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

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

PIN: 045061-001