

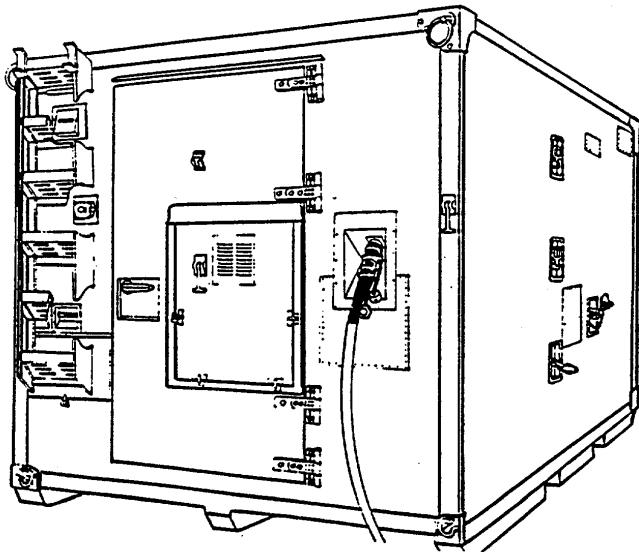
**TECHNICAL MANUAL**  
**OPERATOR'S, UNIT AND**  
**DIRECT SUPPORT**  
**MAINTENANCE MANUAL INCLUDING**  
**REPAIR PARTS AND SPECIAL TOOLS LIST**

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

**APPLICABLE TO SERIAL NUMBERS**  
**0013 THROUGH 0032 ONLY**

**EDITORIAL AND**  
**PHOTOMECHANICAL SHELTER**  
**NSN: 3610-01-165-5688**  
**VOLUME 1**

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 unlimited



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**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 liquid skin contact of dry cleaning 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).

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.

Change

No. 3

**Operator's, Unit, and Direct Support  
Maintenance Manual  
(Including Repair Parts and Special Tools List)  
for  
Printing Plant, Special Warfare, Transportable  
(NSN 3610-01-106-2276) (EIC: YHV)  
Applicable to Serial Numbers 0013 through 0032 Only  
Editorial and Photomechanical Shelter (NSN 3610-01-165-5688) (EIC: N/A)  
Volume I**

**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. We'd prefer that you submit your recommended changes electronically, either by e-mail (AMSEL-LC-LEO-PUBS-CHG@mail1.monmouth.army.mil) or online (<http://edm.monmouth.army.mil/pubs/2028.html>). Alternatively, you may mail or fax your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in back of this manual to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LEO-E-ED, Fort Monmouth, NJ 07703-5006. The fax number is 732-532-3421, DSN 992-3421.

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TM 5-3610-293-13&P-1, dated 22 August 1990, is changed as follows:

1. Title of manual is changed as shown above.
2. Appendix B., Maintenance Allocation Chart, has been revised to implement Army Maintenance Transformation and changes the Maintenance Allocation Chart (MAC) to support Field and Sustainment Maintenance. Because the entire Appendix is revised, no change bars/hands are used.

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WASHINGTON, D.C., 27 APRIL 1992

NO. 2

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

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

**APPLICABLE TO SERIAL NUMBERS 0013  
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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.

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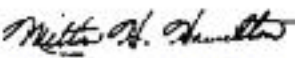
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Operator's, Unit and Direct Support Maintenance Manual  
Including Repair Parts and Special Tools List  
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**PRINTING PLANT, SPECIAL WARFARE, TRANSPORTABLE  
(NSN: 3610-01-106-2276)**

**APPLICABLE TO SERIAL NUMBERS 0013  
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TECHNICAL MANUAL  
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**OPERATOR, UNIT AND DIRECT SUPPORT  
MAINTENANCE MANUAL  
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FOR  
PRINTING PLANT, SPECIAL WARFARE, TRANSPORTABLE  
(NSN: 3610-01-106-2276)  
APPLICABLE TO SERIAL NUMBERS 0013 THROUGH 0032 ONLY  
EDITORIAL AND PHOTOMECHANICAL SHELTER  
(NSN: 3610-01-i65-5688)**

**Volume 1**

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Current as of 28 July 1990

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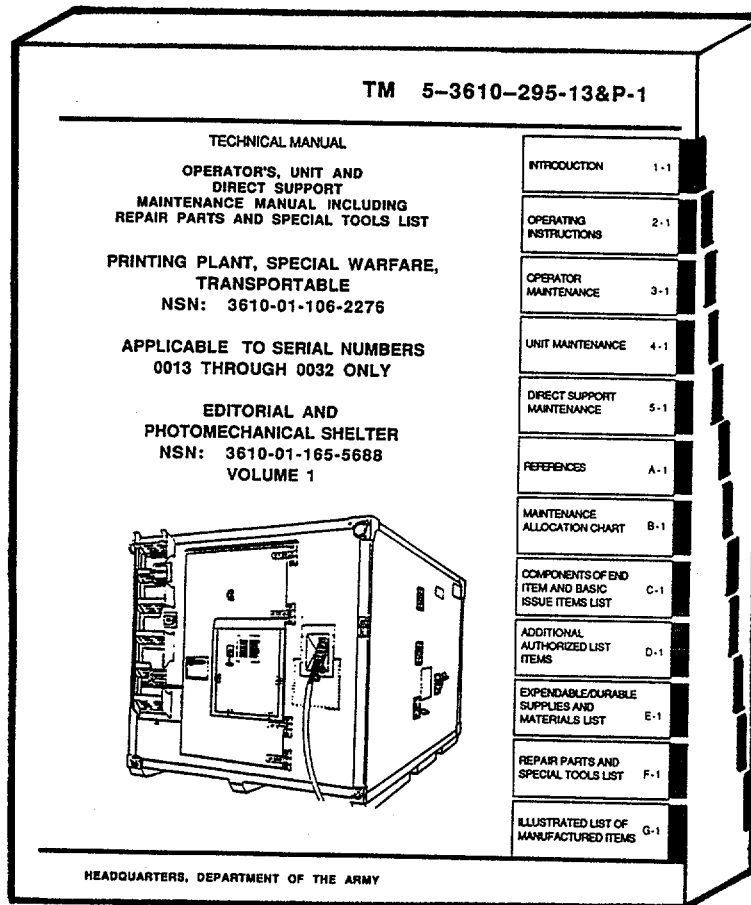
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**HOW TO USE THIS MANUAL**

This manual is used by the Army for operation and maintenance of the Editorial and Photomechanical Shelter. Use front cover index and black tabs at the edge to quickly find the chapters and appendices 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.
- b. Model Number and Equipment Name. Editorial and Photomechanical Shelter.
- c. Purpose of Equipment. Composing of master copies to be used in producing special warfare leaflets.
- d. Supplementing Manuals. TM 5-3610-295-13&P-2 contains operating and maintenance instructions for the 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 Editorial Shelter needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at U. S. Army Troop Support Command, ATTN: AMSTR-MOF, 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 750-244-3 for information and instructions covering destruction of Army Material.

**1-6. PREPARATION FOR STORAGE OR SHIPMENT.** Refer to Chapter 2, Section III, paragraph 2-16 for information pertaining to the preparation for storage and 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 Command, Directorate for Maintenance, ATTN: AMSTR-MMD, 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 practices 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
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
-----	---------------------------

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

KW	Kilowatt
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**M**

MAC	Maintenance Allocation Chart
MPS	Modular Printing System
MTOE	Modification Table of Organization and Equipment

**N**

NSN	National Stock Number
-----	-----------------------

PAM	Pamphlet
PMCS	Preventive Maintenance Checks and Services
PSYOPS	Psychological Operations

**Q**

QA/QC	Quality Assurance/Quality Control
-------	-----------------------------------

**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
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## SECTION II. EQUIPMENT DESCRIPTION AND DATA

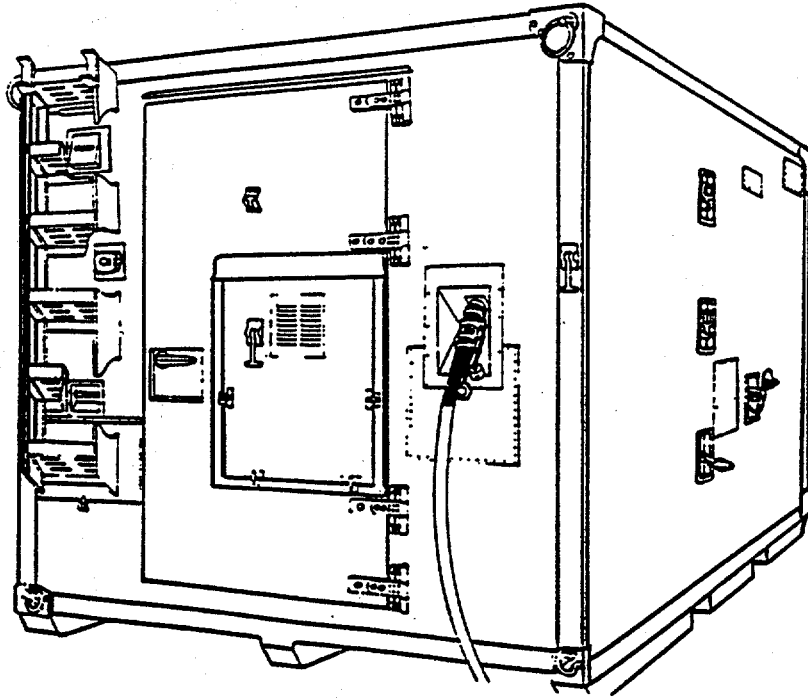
## 1-10. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

- a. Equipment Characteristics. A vehicular transportable reproduction facility, used in conjunction with the press shelter to make up the printing plant.
- b. Equipment Capabilities. Capable of composing a master copy to be used in producing special warfare leaflets.
- c. Equipment Features. Including the following:
  - (1) Phototypesetter
  - (2) Camera
  - (3) Vertical Vacuum frame
  - (4) Light tables
  - (5) Storage Cabinets
  - (6) Air conditioner units
  - (7) Level indicator gages

**1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.** Left and right orientation is determined by facing the shelter personnel door. Paragraph numbers below correspond to callouts in Figure 1-2 and 1-3. All equipment is located in its operational position.

- a. Editorial Shelter Exterior. Refer to Figure 1-2 for location of major components.
  - (1) Condenser Cover (1). Protects the air conditioner when not in use and during transit of the shelter.
  - (2) Air Conditioner (2). Provides temperature control for the shelter.
  - (3) Roadside Level Indicator (3). Roadside bubble gage-type level used to level shelter.
  - (4) Main Power Receptacle (4). Permits supply of power to interior main power service box when power cable is connected.
  - (5) Sink Drain (5). Provides a means of draining darkroom sink.
  - (6) Water Tank Filler (6). Provides an outside means of filling water tank.
  - (7) Folding Steps (7). Allows access to roof of shelter.
  - (8) Main Power Cable (8). Used to supply shelter with power from power source.

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

a. Editorial Shelter Exterior. - Continued

**Figure 1-1. Print Plant, Special Warfare, Transportable**

- (9) Air Filter Weather Cover (9). Provides access to the removable foam-type air filter.
- (10) Drop-Off Box Assembly (10). Provides a means of receiving or sending copy material without opening the shelter door.
- (11) Ladder Assembly (11). Provides a means of entry to shelter when truck mounted.
- (12) Level Indicator (12). Rear bubble gage-type level used to level shelter.
- (13) Blackout Warning Switch (13). Activates an interior blackout buzzer to warn personnel in the shelter to turn off interior lights before opening door during blackout.
- (14) Telephone Binding Post (14). Used to facilitate connection of field telephone between units of printing plant.



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

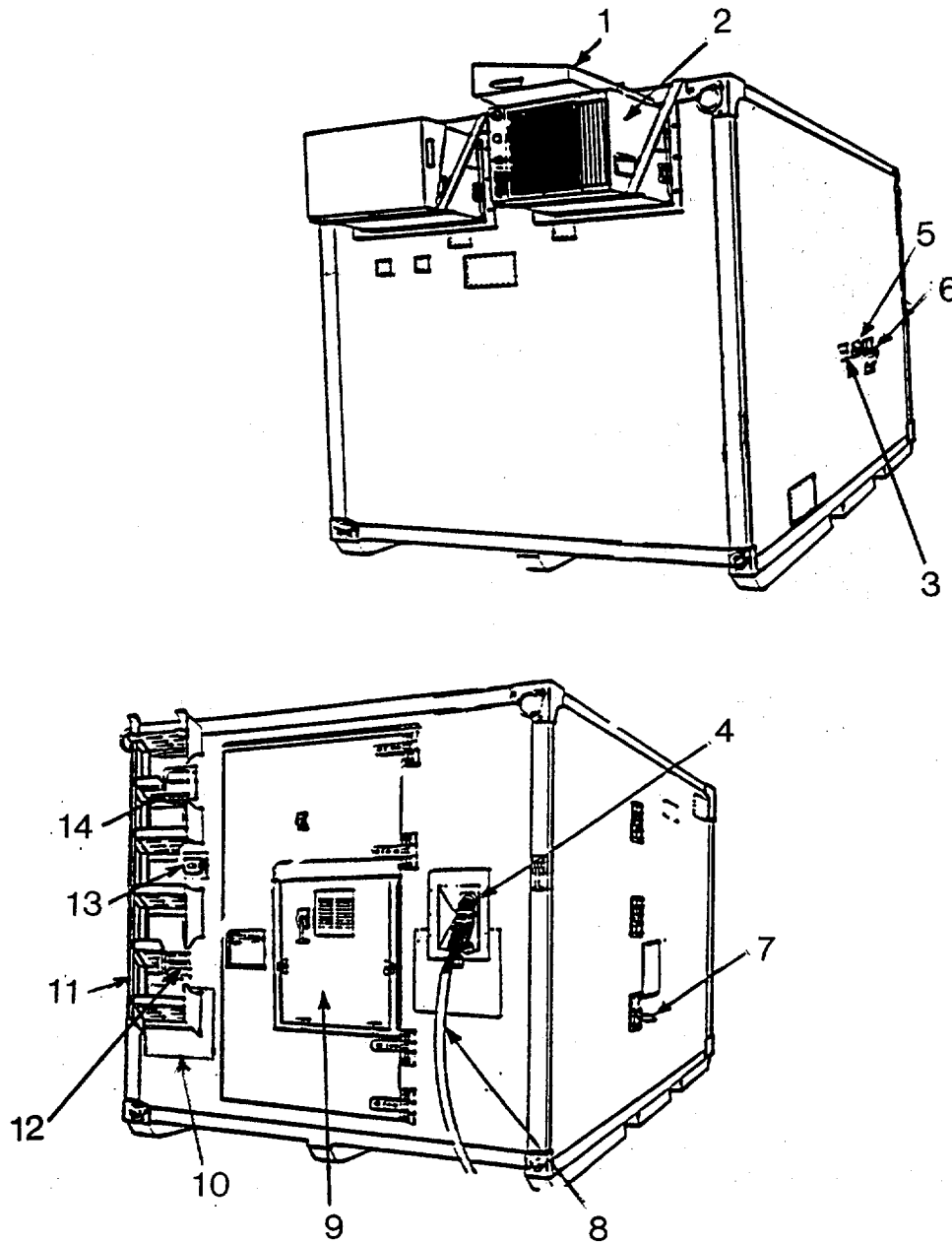


Figure 1-2. Location and Description of Major Components, Editorial Shelter, Exterior

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

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

- (1) Wall Cabinet (1). Used to store paper and other supplies.
- (2) Main Power Receptacle Assembly (2). Provides connection between main power cable and main power service box.
- (3) Blackout Warning Buzzer (3). Along with exterior blackout switch provides a blackout warning system.
- (4) Main Power Service Box (4). Contains circuit breakers and distribution terminals for shelter electrical system.
- (5) Fresh Air Filter (5). A foam-type air filter permits filtered outside air to enter shelter when door is closed and exterior weather cover is open.
- (6) Drop-Off Box Assembly (6). Provides a means of receiving or sending copy material without opening the shelter door.
- (7) Stool (7). Used in conjunction with the light table.
- (8) Tilt Top Light Table (8). Provides a surface for preparing copy for making printing plates.
- (9) First Aid Kit (9). A general purpose 12 unit first aid kit.
- (10) Fire Extinguisher (10). A class 2-BC dry chemical type extinguisher suitable for all types of fire, with the exception of LO (liquid oxygen) generating equipment.
- (11) Lamp Assemblies (11). Provides fluorescent light for shelter.
- (12) Historical File Cabinet (12). Used to store paper and other supplies.
- (13) Artist Supply Cabinet (13). Used to store artist supplies.
- (14) Safelight (14). Used for light when working with material sensitive to light.
- (15) Pin-Point Light Source (15). Provides pin point light for use with the vacuum frame.
- (16) PMT Processor (16). Processes PMT material for use in preparing copy.
- (17) Gun Rack (17). Provides storage of weapons.
- (18) Air Conditioner (18). A combination heating and cooling unit, thermostatically controlled for correct temperature control.

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

- (19) Viewing Light (19). Provides quick inspection of negatives.
- (20) Timer (20). Part of the pin-point light source assembly.
- (21) Paper Towel Dispenser (21). Provides convenient access to paper towels.
- (22) Composing Table (22). Used for the production of display typography.
- (23) Vacuum Pump (23). Used with the camera.
- (24) Camera (24). Provides a negative or positive of camera copy prepared for printing.
- (25) Folding Chair (25). Used with the phototypesetter.
- (26) Darkroom Wall (26). Provides a separation between the editorial room and darkroom.
- (27) Rub-Up Board (27). A rubber topped board used to develop metal plates.
- (28) Darkroom Curtains (28). A rubberized material used to prevent light from entering the darkroom.
- (29) Sink (29). Used to contain and/or eliminate discarded water and other liquids.
- (30) Film Dryer (30). Provides quick film drying.
- (31) Water Supply Cabinet (31). Houses the water, tank, water pump, and vacuum frame vacuum pump.
- (32) Storage Cabinet, Supply (32). Used for storing various supplies.
- (33) Countertop (33). Provides a convenient working space.
- (34) Vacuum Frame (34). Used to expose plates.
- (35) Phototypesetter (35). Used to provide different style and size of lettering for preparing copy.
- (36) Phototypesetter Processor (36). Used to process material from the phototypesetter.

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

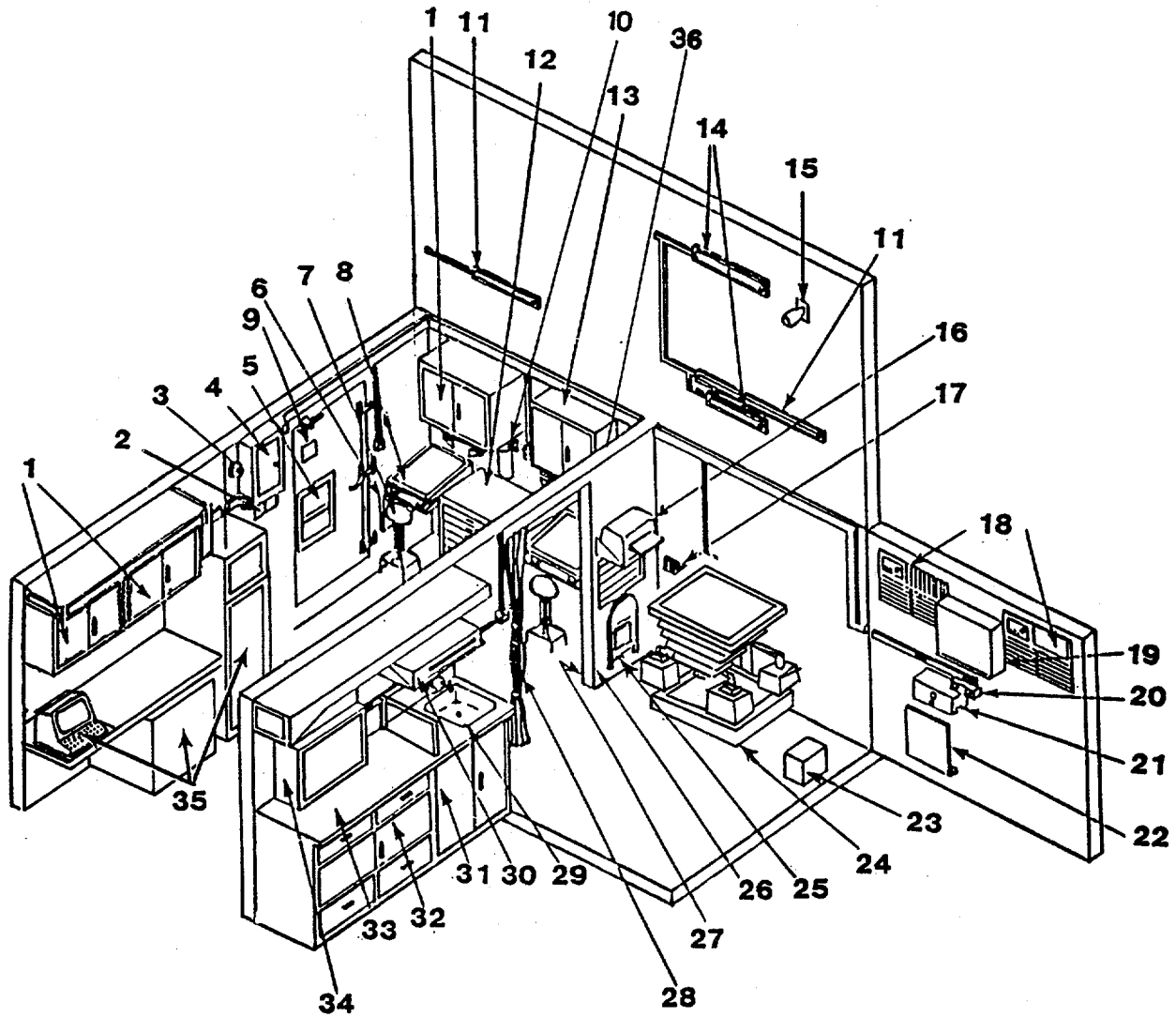


Figure 1-3. Location and Description of Major components, Editorial Shelter, Interior

**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 m<sup>3</sup>)
- c. Dimensions.
  - Length 147 in. (373 cm)
  - Width 87 in. (221 cm)
  - Height 83 in. (211 cm)
  - Weight 4130 lb (1873 kg)
- d. Light Table.
  - Manufacturer NUARC
  - Model VLT18T
  - Dimensions
    - Length 23 in. (58 cm)
    - Width 21 in. (53 cm)
    - Height 9 in. (23 cm)
- e. Pmt Processor.
  - Manufacturer NUARC
  - Model P1400
  - Dimensions
    - Length 20 in. (51 cm)
    - Width 21 in. (53 cm)
    - Height 9 in. (23 cm)
    - Weight 30 lb (13.6 kg)
  - Power Requirements 115 V, 60 Hz  
115 V, 50 Hz  
0.5 amp
- f. Camera.
  - Manufacturer NUARC
  - Model VVE1418-3LM
  - Dimensions
    - Length 53 in. (134.5 cm)
    - Width 31.5 in. (80 cm)
    - Height 53.5 in. (136 cm)
    - Weight 436 lb. (194.9 kg)
  - Power Requirements 115 V, 60 Hz, 19 amps

1-12. EQUIPMENT DATA. - Continued

g. Film Dryer.

Manufacturer	DECCO
Model	1418
Dimensions	
Length	16 in. (41 cm)
Width	26 in. (66 cm)
Height	8 in. (20 cm)
Weight	30 lb (13.6 kg)
Power Requirements	115 V, 60 Hz, 7 amps

h. Water Tank.

Manufacturer	Tooele Army Depot
Model	1-6-6090
Material	Stainless Steel
Capacity	10 gal (37.85 L)
Dimensions	
Length	17 in. (43 cm)
Width	14.5 in. (37 cm)
Height	10 in. (25 cm)

i. Water Pump.

Manufacturer	Shure-Flo, Inc.
Model	1P805
Dimensions	
Length	6 in. (152 mm)
Width	4 in. (102 mm)
Height	5 in. (127 mm)
Power Requirements	115 V, 60 Hz, 1.2 amps

j. Platemaker, Vacuum Frame.

Manufacturer	ROCONEX
Model	BVL-1617
Dimensions	
Length	27 in. (69 cm)
Width	10 in. (25 cm)
Height	25 in. (64 cm)
Power Requirements	115 - 130 V, 60 Hz, 8 amp

**1-12. EQUIPMENT DATA.** - Continued

k. Viewing Light, Wall Mounted.

Manufacturer	NUARC
Model	DLV20
Dimensions	
Length	20.5 in. (52 cm)
Width	8 in. (20 cm)
Height	18.5 in. (47 cm)
Power Requirements	118 V, 60 Hz, 0.5 amp

l. Pin-point Light Source Assembly.

Manufacturer	NUARC
Model	CP25
Power Requirements	115 V, 50/60 Hz, 1.0 amp

m. Phototypesetter Processor.

Manufacturer	AM VARITYPER
Model	766W
Dimensions	
Length	21.75 in. (55 cm)
Width	12 in. (30 cm)
Height	7.25 in. (18 cm)
Power Requirements	115 V, 60 Hz, 5 amps

n. Phototypesetter.

Manufacturer	AM VARITYPER
Model	6818/6810
Dimensions	
Length	54 in. (137.2 cm)
Width	18 in. (45.7 cm)
Height	42 in. (106.7 cm)
Power Requirements	115 V, $\pm 10\%$ , 60 Hz, 8 amps

**1-12. EQUIPMENT DATA.** - Continued

o. Air Conditioner.

Manufacturer	A.R.E. Manufacturing Co., Inc.
Model	A9KH-115P
Capacity	
Cooling	9,000 BTUHR (9503 kJ/hr)
Heating	7,000 BTUHR (7391 kJ/hr)
Volume	5.1 cu ft (0.14 m <sup>3</sup> )
Dimensions	
Length	26 in. (66.04 cm)
Width	23 3/4 in. (60.33 cm)
Height	16 in. (41 cm)
Weight	200 lb (90.7 kg)
Power Requirements	115 V, 50/60 Hz, single phase

p. Blackout Warning Buzzer.

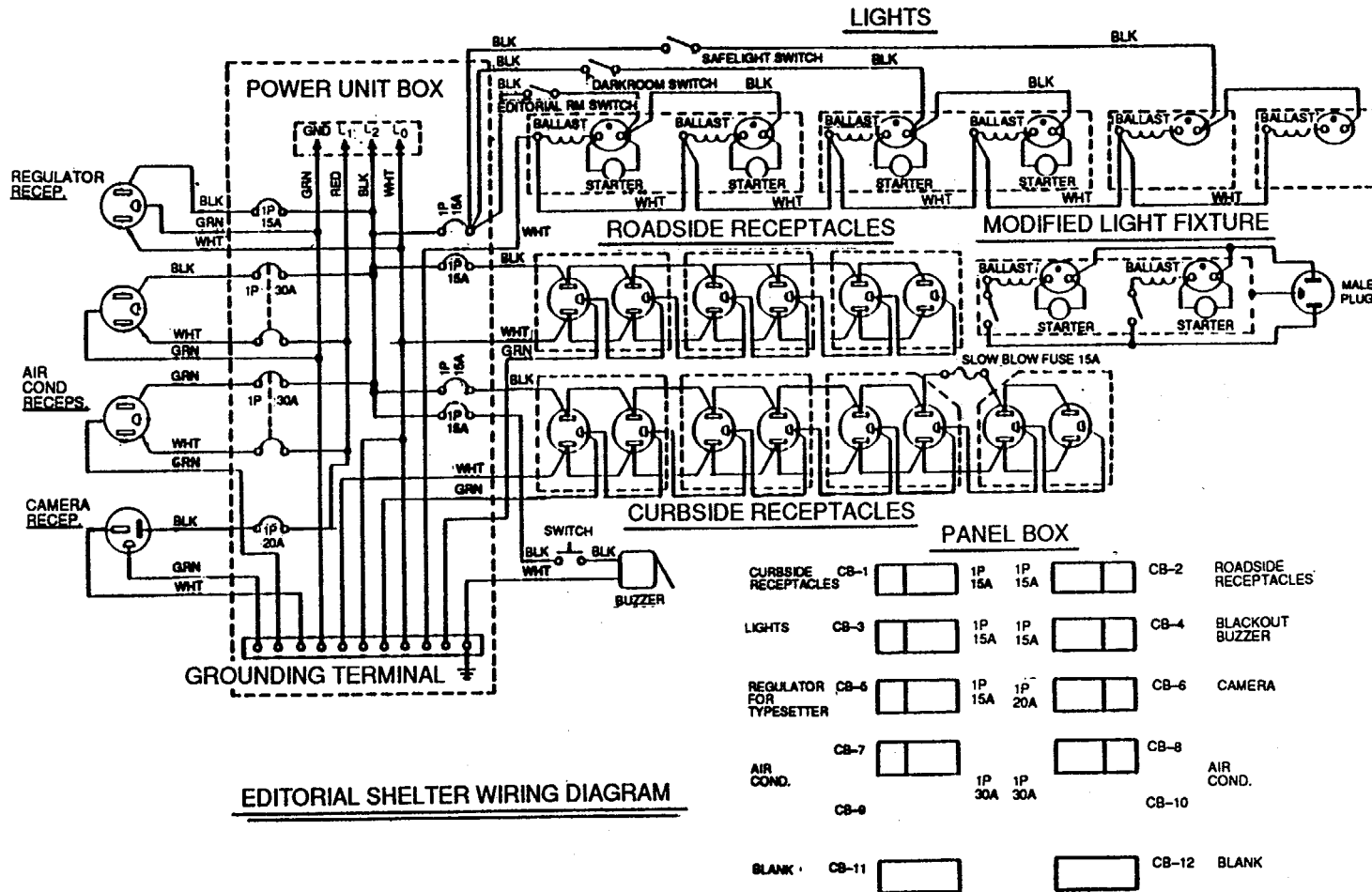
Manufacturer	EDWARDS COMPANY INC.
Model	340-A
Power Requirements	120 V, 60 Hz, 0.04 amp

**1-13. ELECTRICAL DATA.**

The total electric demand load for the shelter components is 7 KW. Refer to Figure 1-4 for the editorial shelter wiring diagram.



1-13. ELECTRICAL DATA. - Continued



EDITORIAL SHELTER WIRING DIAGRAM

Figure 1-4. Editorial Shelter Wiring Diagram  
1-15/(1-16 Blank)

### SECTION III. TECHNICAL PRINCIPLES OF OPERATION

**1-14. PRINCIPLES OF OPERATION.** The Printing Plant, Special Warfare, Transportable, is comprised of two S-280 shelters, each mounted on a 2 1/2 ton truck. The Editorial Photomechanical Shelter contains typesetting, art work preparation, darkroom and plate making capabilities. The Press Shelter contains limited capacity printing and paper cutting 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 5-3610-302-10 for phototypesetter operating principles.

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.

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 hydraulic 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 power plant. When operated in a stand-alone configuration without Module B and C, the Printing Plant, Special Warfare, Transportable has its own power source of two 15 KW generators that are part of the standard configuration. When the Printing Plant, Special Warfare, Transportable 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.

**1-15. ADDITIONAL REFERENCE MATERIAL.** Detailed information relating to commercial equipment used in the shelter is available in the respective commercial technical manual 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. TILT TOP LIGHT TABLE CONTROL AND INDICATORS.

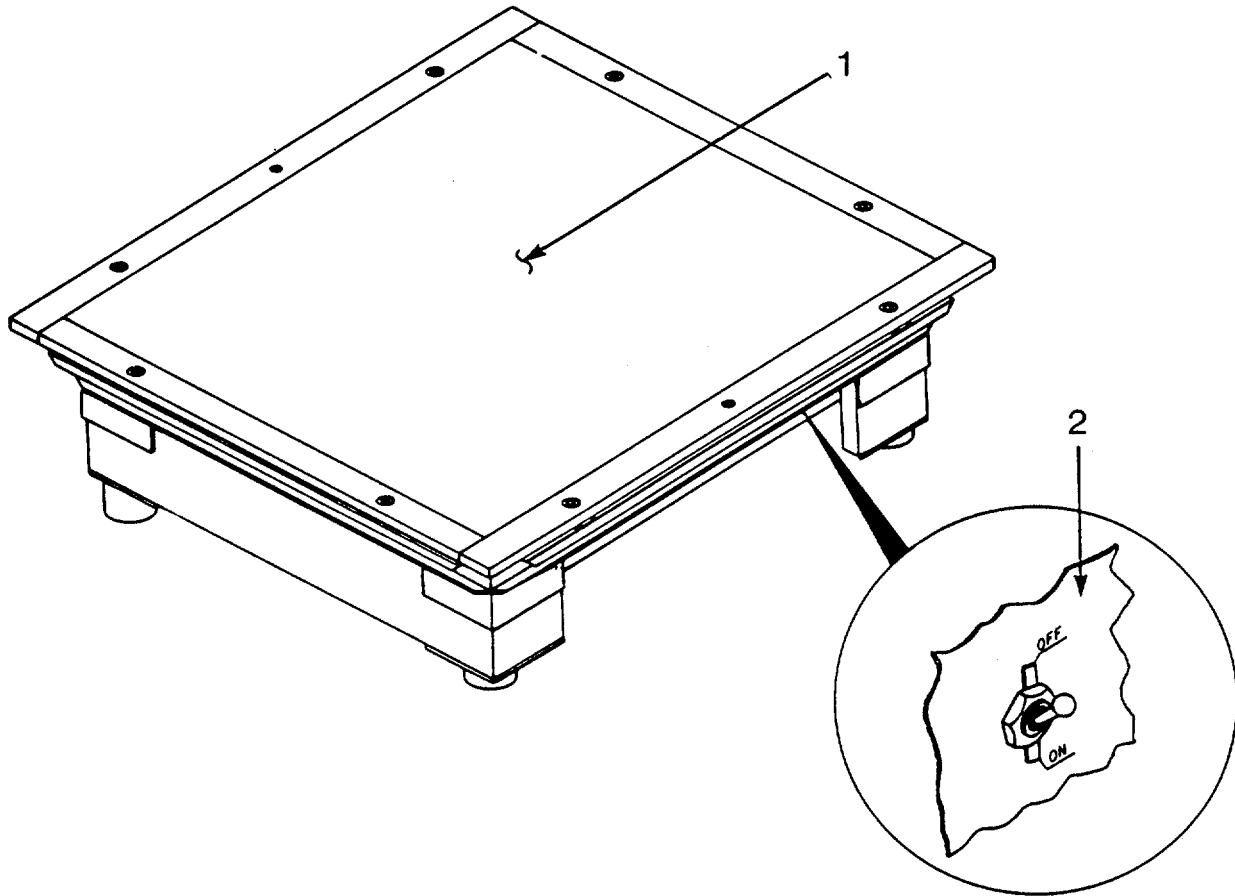
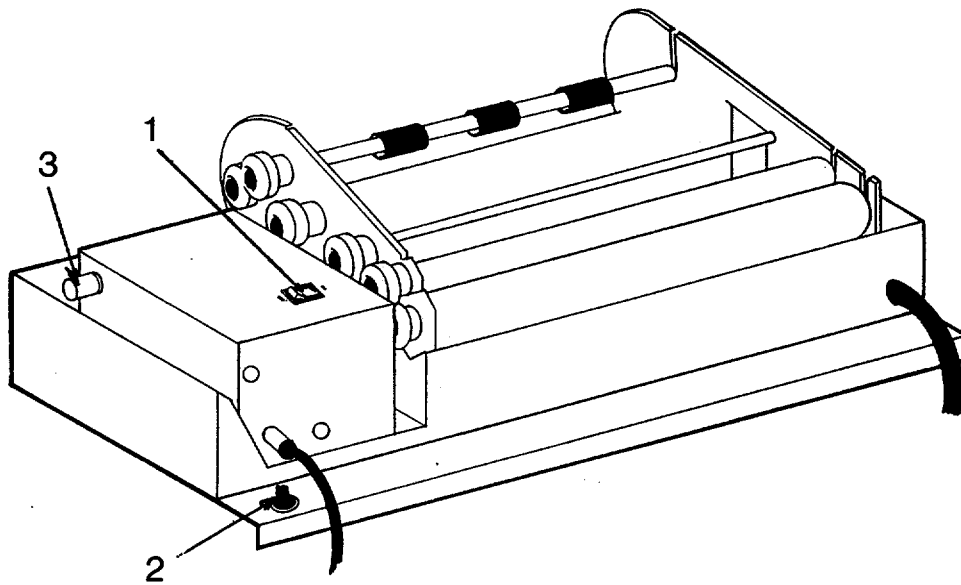


Figure 2-1. Tilt Top Light Table

- a. Illuminated Glass (1) - Used for tracing, artwork, and opaquing negatives.
- b. On-Off Switch (2) - Used to turn the light table lights on and off.

**2-2. PMT PROCESSOR CONTROLS AND INDICATORS.****Figure 2-2. PMT Processor**

- a. On-Off Switch (1) - Used to turn processor on and off.
- b. Timer Light (2) - Indicates when timer is operating.
- c. Timer Actuator (3) - Turns the internal timer and the timer light to on.

2-3. **CAMERA CONTROLS AND INDICATORS.** Refer to TM 5-3610-303-12&P for location and description of camera controls and indicators.

2-4. **FILM DRYER CONTROLS AND INDICATORS.**

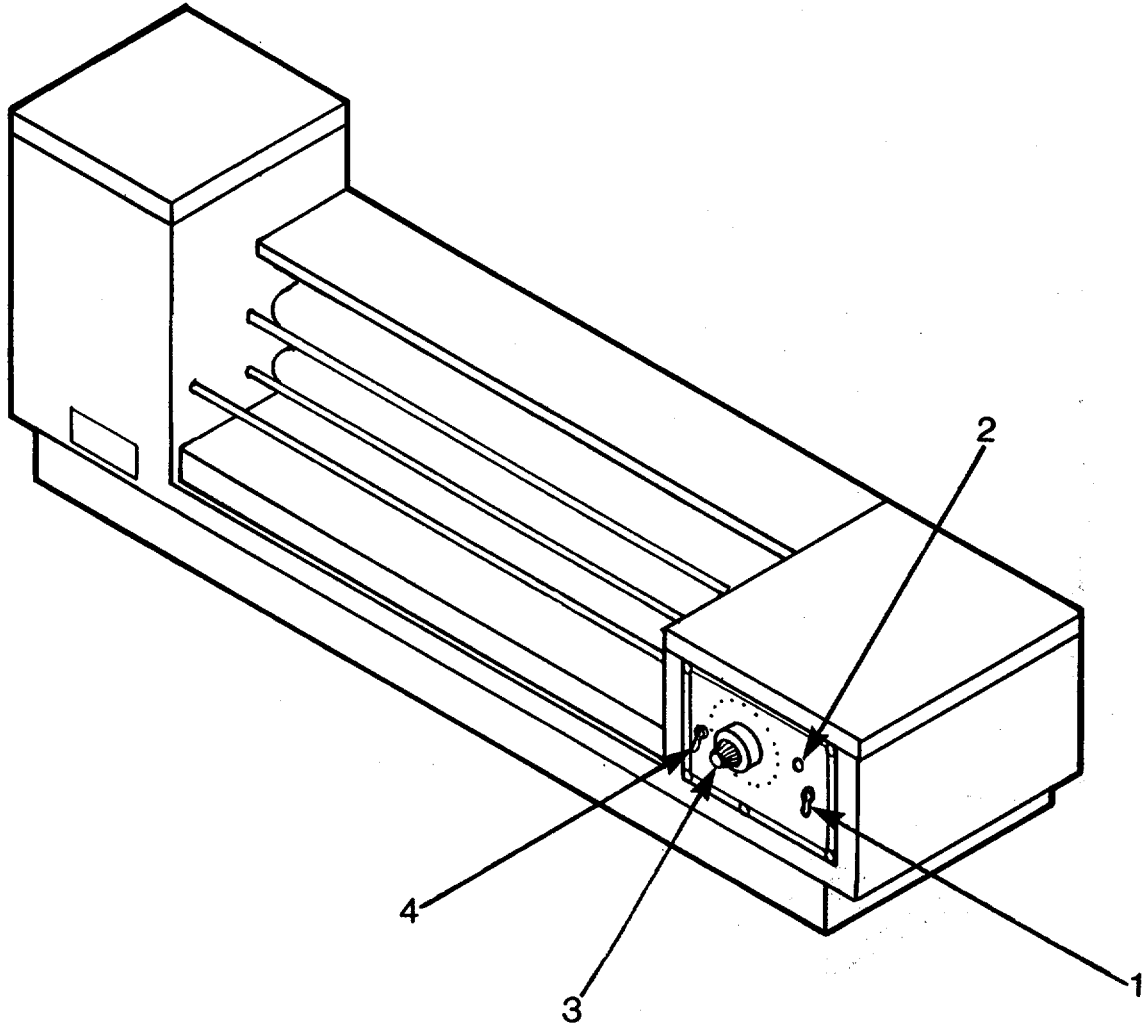


Figure 2-3. Film Dryer

- a. On-Off Switch (1) - Turns dryer on and off.
- b. Fuse Indicator Light (2) - Indicates if fuse is bad.
- c. Motor Speed Control (3) - Controls speed of motor.
- d. Forward/Reverse Switch (4) - Changes direction of film.

2-5. **PLATEMAKER, VERTICAL VACUUM FRAME CONTROLS AND INDICATORS.** Refer to TM 5-3610-301-12&P for location and description of controls and indicators.

2-6. **WALL MOUNTED VIEWING LIGHT CONTROLS AND INDICATORS.**

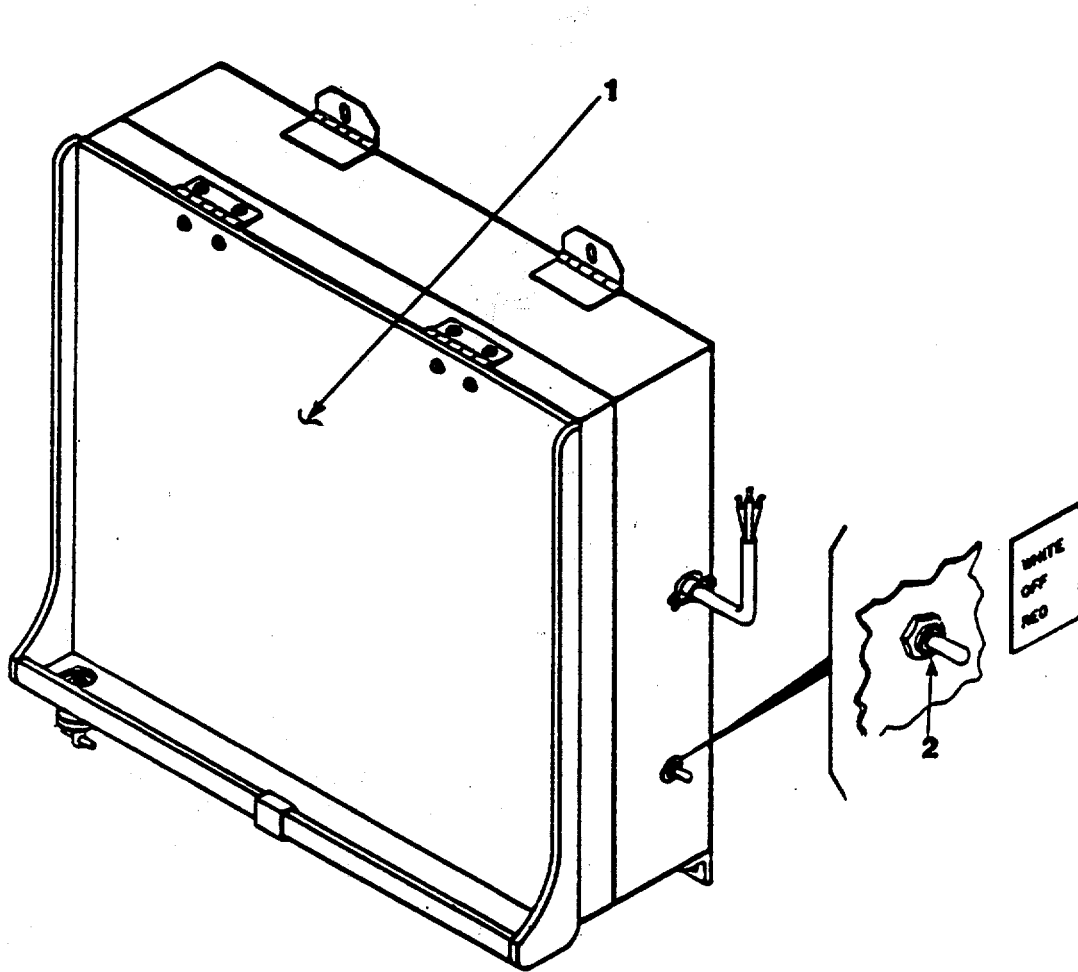


Figure 2-4. Wall Mounted Light Controls

- a. Screen (1) - For viewing negatives.
- b. Light Control Switch (2) - For controlling illumination of screen. RED position is for darkroom illumination and WHITE position is for normal illumination.

## 2-7. PIN-POINT LIGHT SOURCE ASSEMBLY CONTROLS AND INDICATORS.

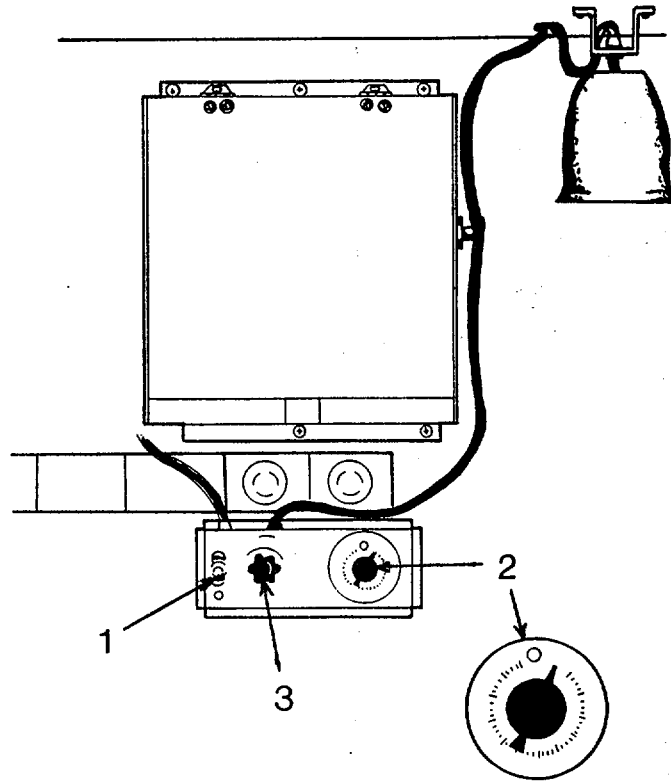


Figure 2-5. Pin Point Light Source Assembly

- a. On-Off Switch (1) - Turns light source and timer on and off.
- b. 60 Second Time Control (2) - Regulates the time the light is on.
- c. Illumination Control (3) - Determines the strength of the light source illumination.

2-8. PHOTOTYPESETTER PROCESSOR CONTROLS AND INDICATORS.

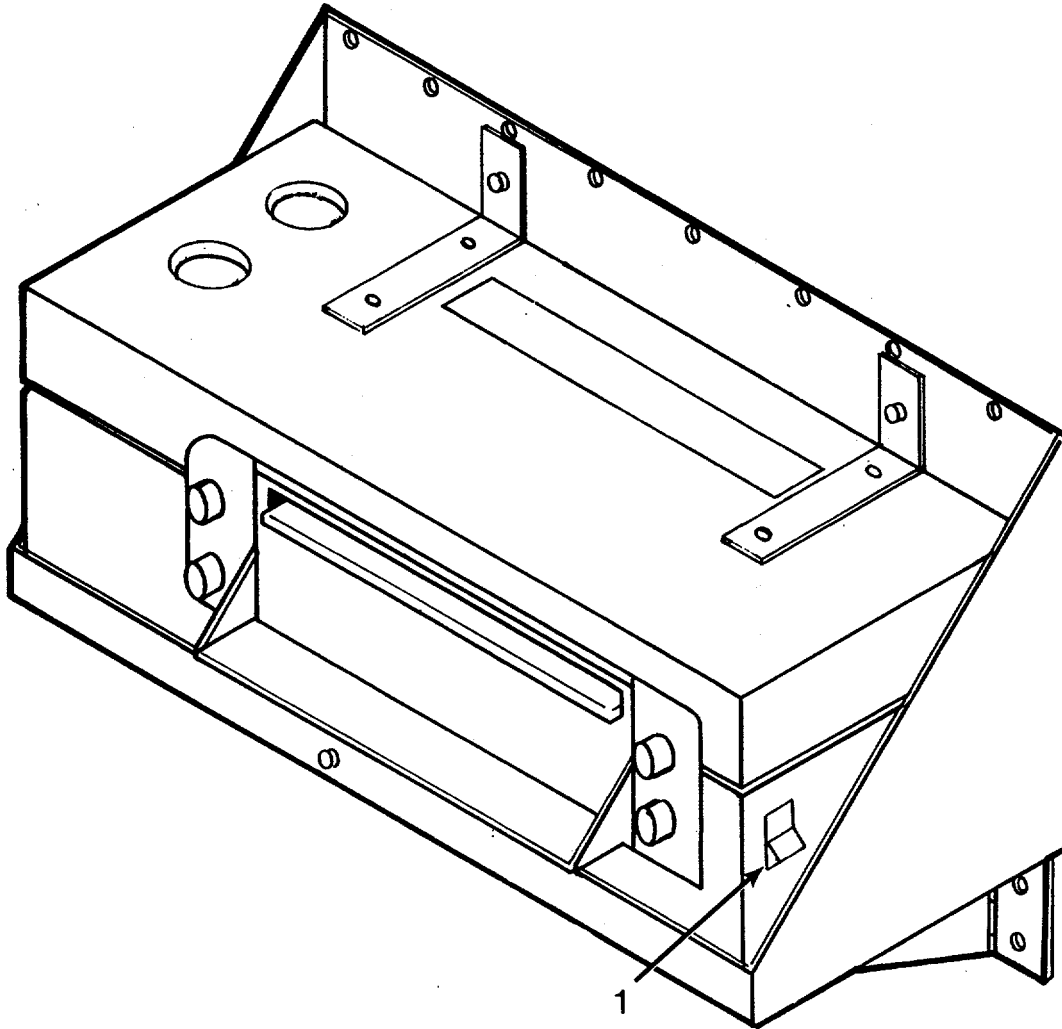


Figure 2-6. Phototypesetter Processor

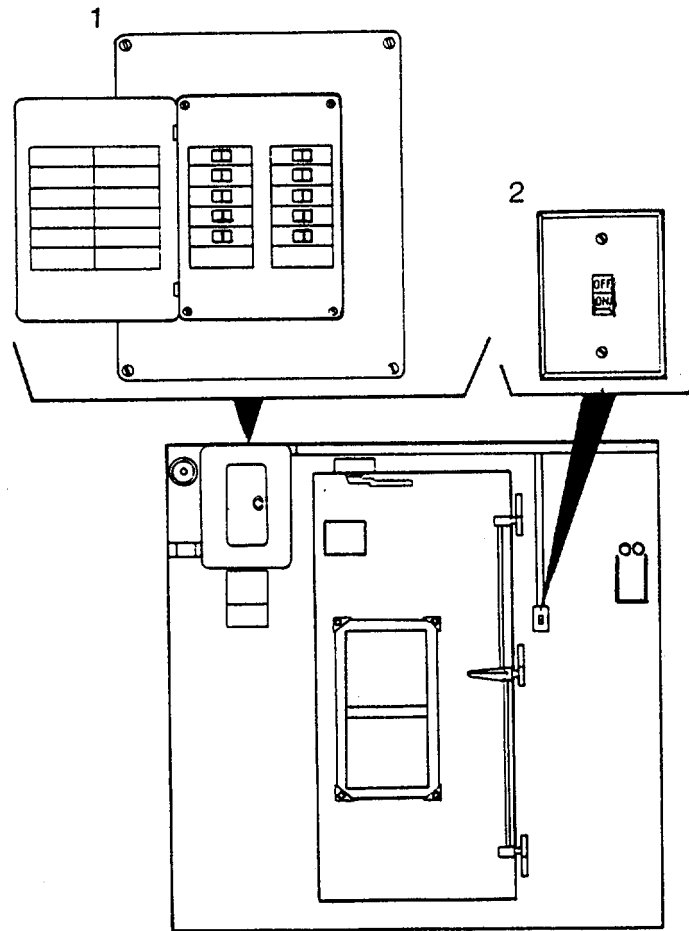
On-Off Switch (1) - Turns processor on and off.



2-9. **PHOTOTYPESETTER CONTROLS AND INDICATORS.** Refer to TM 5-3610-302-10 for location and description of phototypesetter controls and indicators.

2-10 **AIR CONDITIONER CONTROLS AND INDICATORS.** Refer to TM 5-4120-378-14 for location and description of air conditioner controls and indicators.

2-11. **INTERIOR SHELTER CONTROLS AND INDICATORS.**



**Figure 2-7. Interior Shelter Controls**

- a. Main Power Service Box (1) - Switches control voltage to everything in the shelter. The switches or circuit breakers are safety devices and open when an overload occurs.
- b. Wall Lamp Switch (2) - Turns the lamps in the editorial part of shelter on and off.

## 2-11. INTERIOR SHELTER CONTROLS AND INDICATORS. - Continued

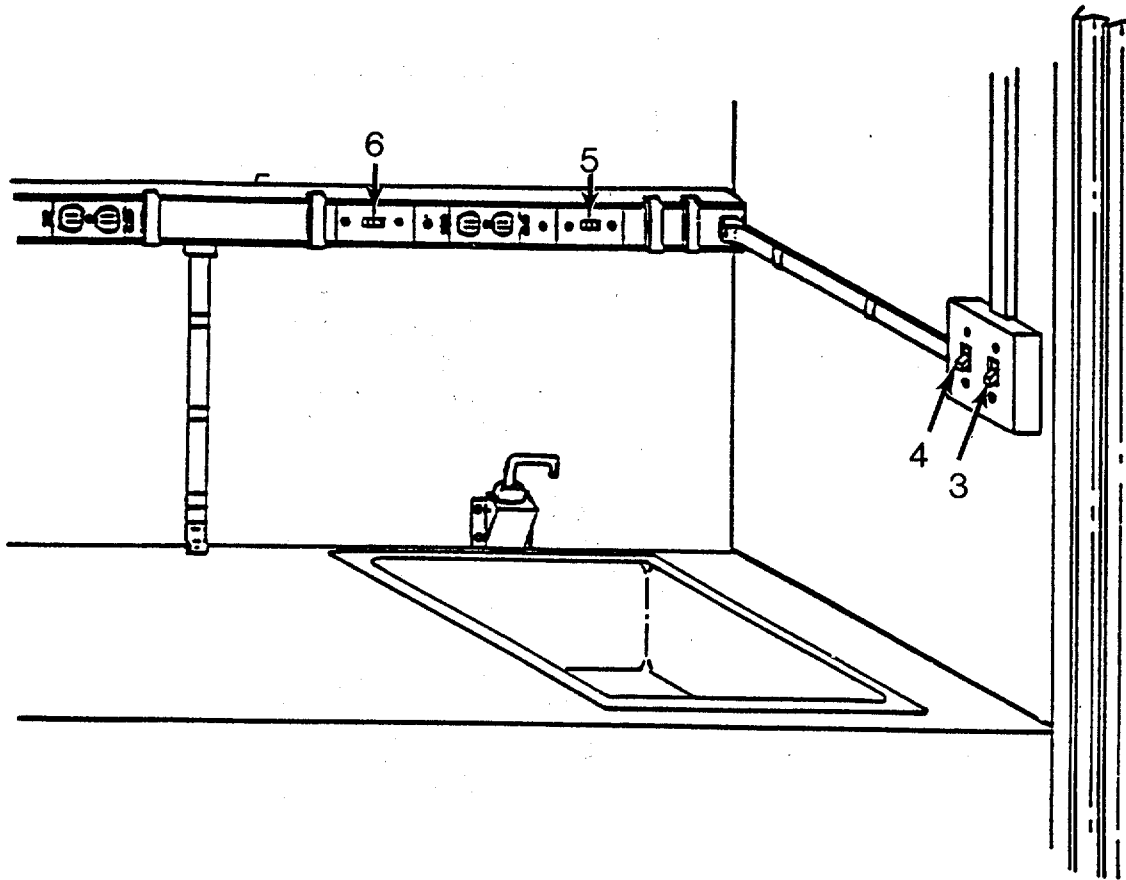


Figure 2-8. Interior Shelter Controls

- c. Wall Lamp Switch (3) - Turns the lamps in the darkroom part of shelter on and off.
- d. Wall Lamp Switch (4) - Turns the safelights on and off.
- e. Water Heater Switch (5) - Turns the water heater on and off.
- f. Water Pump Switch (6) - Turns the water pump on and off.

## 2-12. EXTERIOR SHELTER CONTROLS AND INDICATORS.

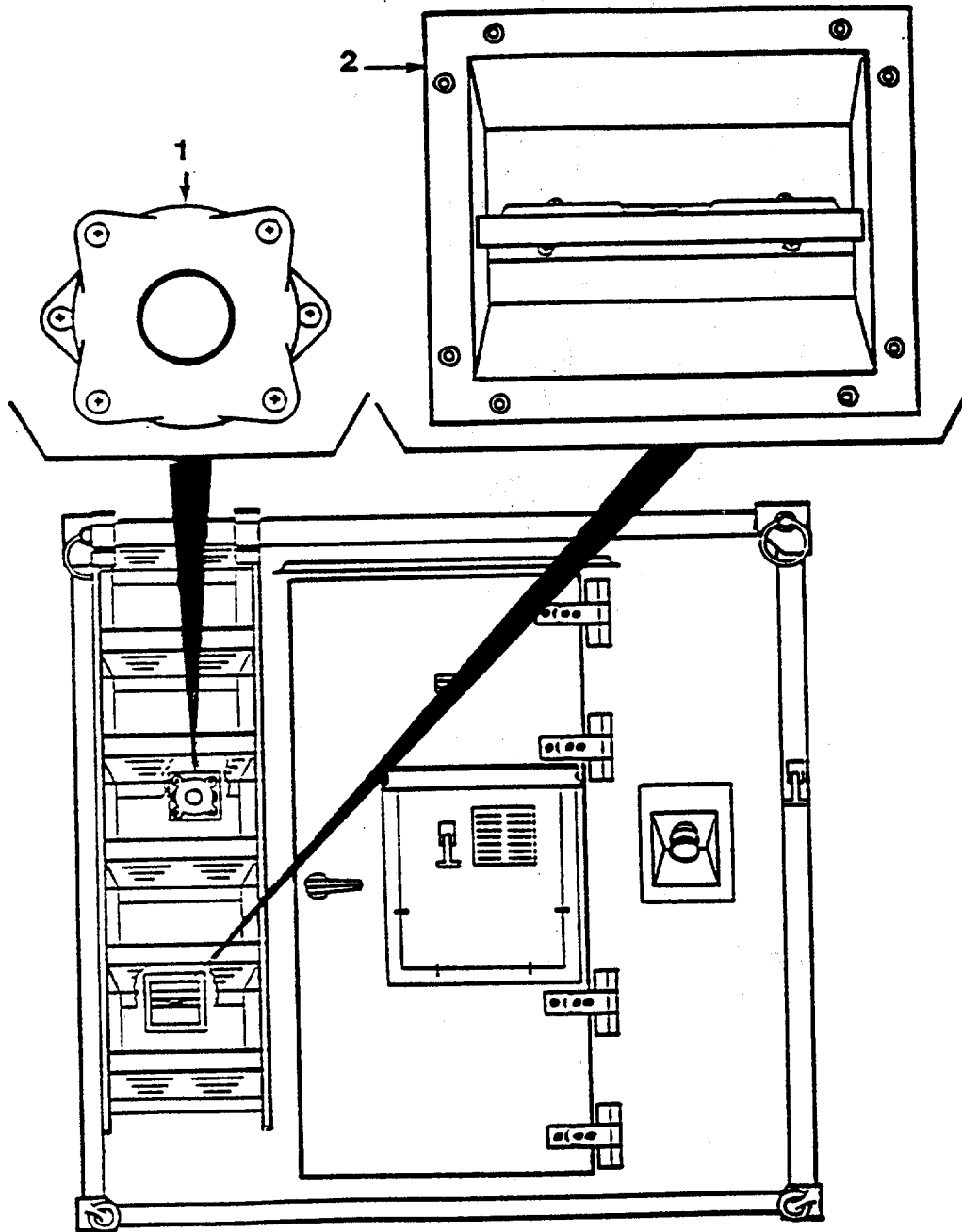


Figure 2-9. Exterior Shelter Controls

- a. Blackout Warning Buzzer Switch (1) - When depressed, activates a warning buzzer inside the shelter.
- b. Level Indicator (2) - Used to level the shelters. Another level indicator is located on the roadside of shelter.

**SECTION II. OPERATOR'S PREVENTIVE MAINTENANCE**  
**CHECKS AND SERVICES (PMCS)**

**2-13. 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 during your (B) PMCS.

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

(3) After you operate. Be sure to perform after your (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.

2-13. **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.

2-13. INTRODUCTION. - Continued

**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.

**Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS)**  
 B - Before    D - During    A - After

Item No.	Interval			Item to be Inspected Procedure	Equipment is Not Ready /Available If:
	B	D	A		
1		•	•	<b>Light Table Assembly.</b> Check that both fluorescent tubes are illuminated. If necessary, refer to Unit Maintenance for service/repair.	Fluorescent lights not operating.
2		•	•	<b>PMT Processor</b> Be sure that there are proper levels of chemicals. Check for correct and smooth operation. If necessary, service unit in accordance with commercial manual instructions.	Unit does not operate.
3		•	•	<b>Vertical Camera</b> Check for correct lens calibration. Check for correct operation of vacuum pumps and smooth operation of lens and copyboard system. Check for leaks in vacuum system. If necessary, service unit in accordance with TM 5-3610-303-12&P.	Leaks in vacuum system.

2-13. **INTRODUCTION.** - Continued

**Table 2-1. Operator/Crew 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		•	•	<b>Film Dryer.</b> Check correct and smooth operation of the unit and cleanliness of filter intake pads and drive and air mechanism. If necessary, service unit in accordance with commercial manual instructions.	Unit does not operate.
5	•			<b>Phototray Assembly</b> Check for cracks or breaks.	Unit cracked or broken
6	•	•		<b>Water System.</b> Check that water tank is filled and for a smooth and leak-free operation of faucet. Check for proper operation.	Leaks in system. Water pump does not operate.
7	•	•	•	<b>Vertical vacuum frame.</b> Check for correct operation of vacuum pump and the 8 fluorescent lamps and smooth operation of flip top release knob and frame. Service unit in accordance with TM 5-3610-301-12&P.	Vacuum leaks. Pump will not operate.
8			•	<b>Wall mounted viewing light.</b> Check for proper operation. Service unit in accordance with paragraph 4-27.	Unit does not operate properly.
9		•	•	<b>Phototypesetter processor.</b> Check correct and smooth operation of the unit. Service unit in accordance with TM 5-3610-302-10/20.	Processor does not operate.
10		•	•	<b>Phototypesetter.</b> Check for proper operation. Service unit in accordance with TM 5-3610-302-10/20.	Unit does not operate.

**SECTION III. OPERATION UNDER USUAL CONDITIONS****2-14. ASSEMBLY AND PREPARATION FOR USE.****a. Site Selection.**

- (1) Select a site where ground is firm, dry and has good drainage.
- (2) Level ground on which truck containing the Editorial Shelter will be parked.
- (3) For site selection for the complete MPS, refer to TM 5-3610-294-13&P.

**b. Unloading Shelter.**

- (1) Loosen tiedown turnbuckles and remove sling hooks from transporter and tiedown rings.
- (2) Remove any blocking between shelter and transporter.
- (3) Install sling assembly to lifting eyes and lifting hook.
- (4) Tie a 1/2 inch (13 mm) rope at least 15 feet (4.6 meters) long to each rear shelter towing eye.
- (5) Position a man on each rope to assist in positioning shelter during lifting operation.



2-14. ASSEMBLY AND PREPARATION FOR USE. - Continued

b. Unloading Shelter. - Continued

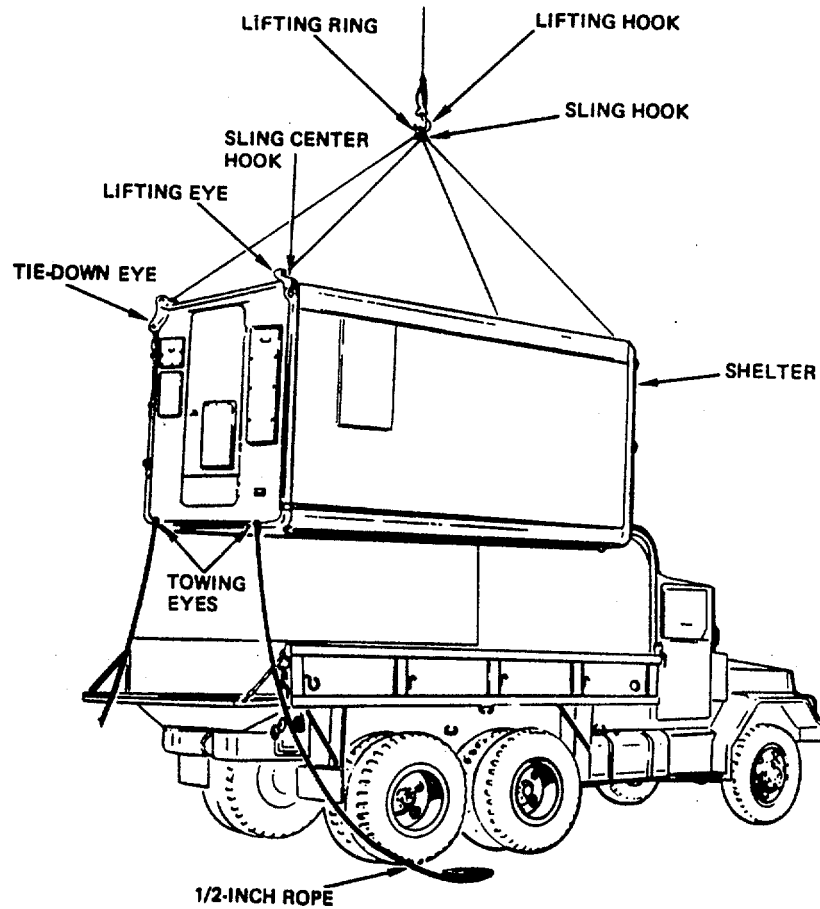


Figure 2-10. Unloading Shelter

**WARNING**

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.

2-14. **ASSEMBLY AND PREPARATION FOR USE.** - Continuedb. Unloading Shelter. - Continued**CAUTION**

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

**CAUTION**

**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.**

- (6) Lift the shelter slowly with a crane or helicopter, just high enough to clear the body of the transporter.

**CAUTION**

**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.**

(7) Move the transporter vehicle clear of the area and carefully lower the shelter to the previously prepared area of ground.

(8) Check the levels at the rear and side of the shelter. Make any adjustment necessary to level the shelter. Be sure the center of shelter is adequately supported.

- (9) Remove sling assemblies from the shelter, and 1/2 inch (13 mm) ropes from towing eyes.

c. Grounding the Shelter. The editorial 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 Editorial Shelter.
- (2) Remove tape seals which secure doors and other apertures.

2-14. **ASSEMBLY AND PREPARATION FOR USE.** - Continuedd. Unpacking. - Continued**NOTE**

**Many pieces of equipment are modified to include shipping brackets, holddown brackets, or thumbscrews. These devices are used to secure fragile or loosely mounted items such as the glass tops of the light tables. These devices are painted bright red and are not to be discarded during unpacking. These devices will be used each time the shelter is moved to a new work site.**

- (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 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 °F - 138 °F (38 °C - 59 °C).**

- (5) Remove preservative compound from all unfinished metal surfaces with drycleaning solvent (item 17, app 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) 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 718-750.

f. Installation Instructions. The Editorial Shelter is installed for operation on the bed of a 2 1/2 ton cargo truck. The interior items of equipment in the Editorial Shelter are usually transported intact in their operating positions and no installation procedures are deemed necessary. Several exterior items must be installed as described below.

## 2-14. ASSEMBLY AND PREPARATION FOR USE. - Continued

f. Installation Instructions. - Continued

## (1) Installing Drain Hose.

- (a) Remove exterior drain cap (quick disconnect) (1).
- (b) Attach drainage hose (quick connect) (2).

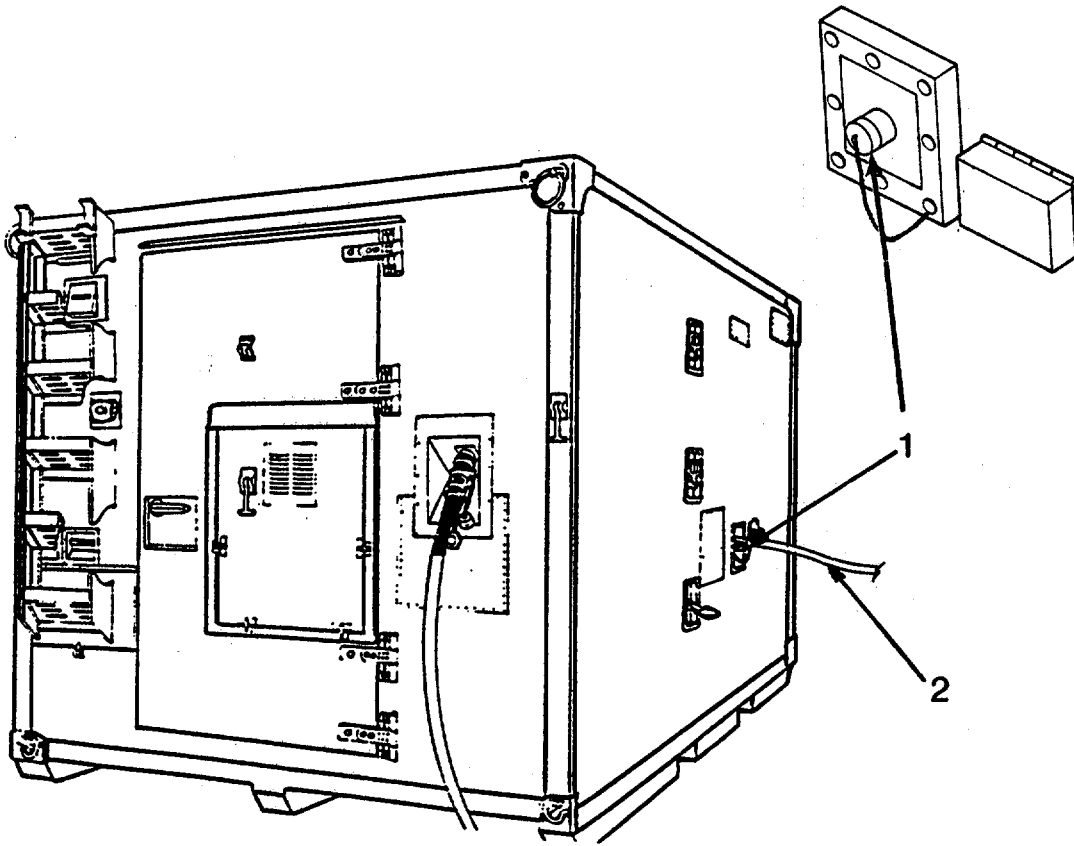


Figure 2-11. Installing Drain Hose.

## 2-14. ASSEMBLY AND PREPARATION FOR USE. - Continued

f. Installation Instructions. - Continued

- (2) Filling Water Tank.
  - (a) Lift exterior wall tank cover (1).
  - (b) Insert water hose (2) from water source.

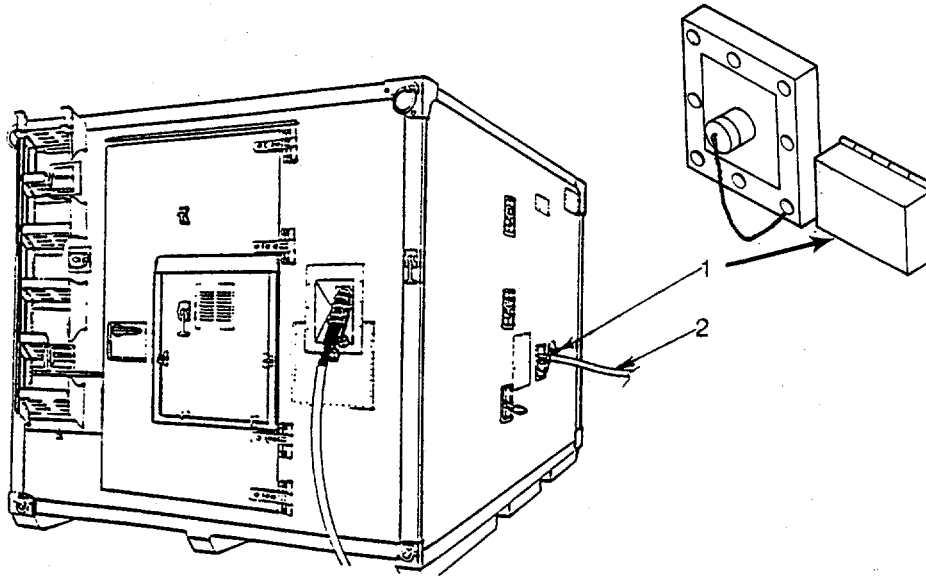


Figure 2-12. Filling Water Tank

- (3) Installing Step Ladder.

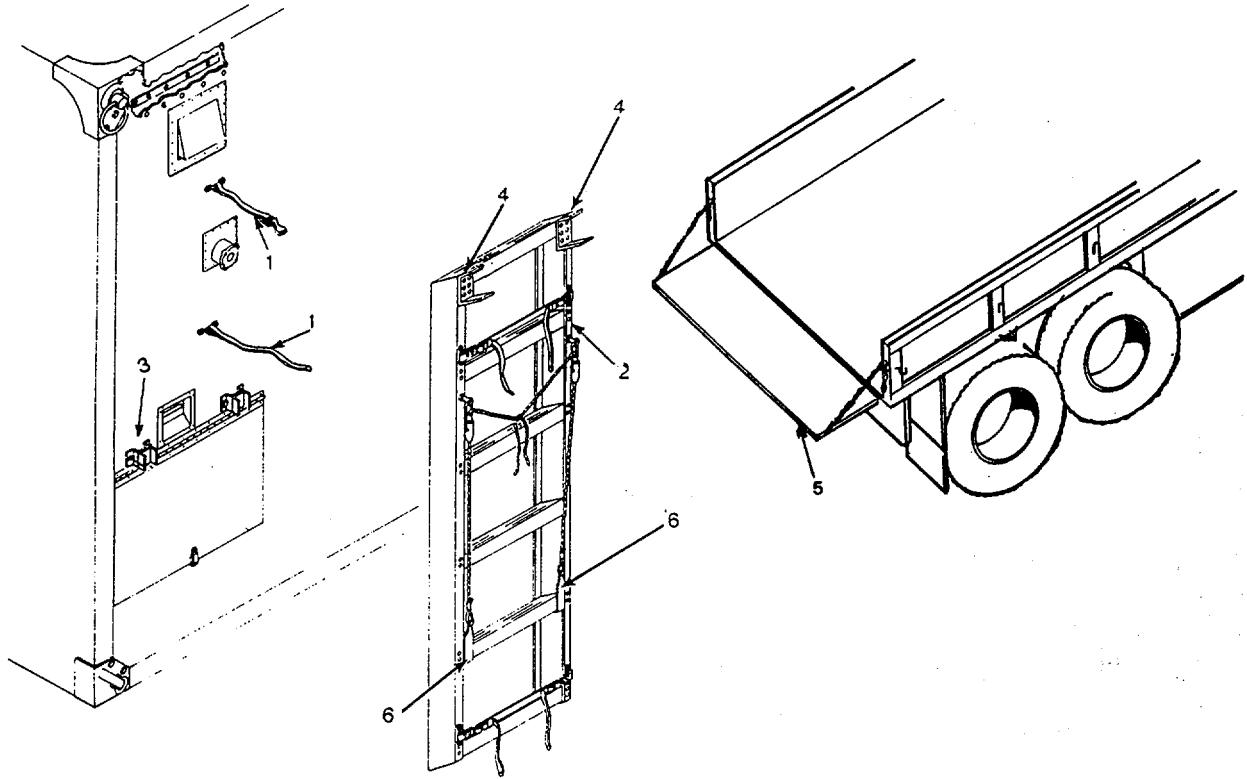
**NOTE**

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

- (a) Unbuckle ladder mounting strap (1).
- (b) Lift ladder (2) from mounting (3) on exterior wall.
- (c) Insert holding brackets (4) on edge of tailgate (5).
- (d) Attach hooks (6) of ladder stabilizers to underside lip of truck bed.

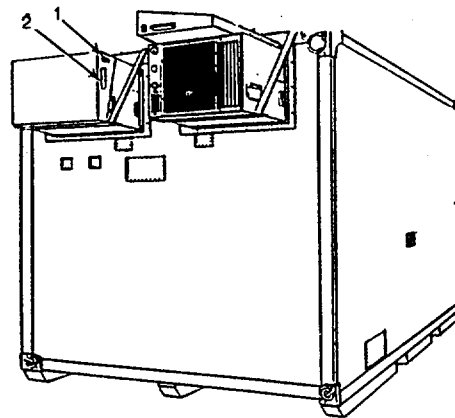
2-14. **ASSEMBLY AND PREPARATION FOR USE.** - Continued

f. Installation Instructions. - Continued.



**Figure 2-13. Installing Step Ladder**

- (4) Removing air conditioner covers.
  - (a) Release quick disconnect latches (1).
  - (b) Grasp handles (2) and remove covers.



**Figure 2-14. Removing Air Conditioner Covers**

2-14. **ASSEMBLY AND PREPARATION FOR USE.** - Continued

- g. 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 technical manual 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 Module 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.

2-14. **ASSEMBLY AND PREPARATION FOR USE.** - Continued

g. 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

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

i. 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 properly 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 Editorial 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.



2-14 **ASSEMBLY AND PREPARATION FOR USE.** - Continued

- j. Start Procedure. Starting the System.

**NOTE**

**When used in conjunction with Modular Print System, to ensure safety of operator, power to circuit breaker is controlled by Module C supervisor.**

- 594-14&P.
- (1) Set commercial power breaker to ON or start the 60 kW power plant in accordance with TM 5-6115-
  - (2) Set all circuit breakers in the main power service box to ON.
  - (3) Set fluorescent light switches to on.
  - (4) Set the air conditioner controls for the desired mode of operation temperature setting.

2-15. **PREPARATION FOR MOVEMENT AND STORAGE.**

- a. Preparing Shelter for Movement.

- (1) Secure all expendable materials and supplies. Stow all loose supplies.
- (2) Secure telephone in telephone bracket with shipping clamp.
- (3) Secure red shipping bracket to top of light table.
- (4) Be sure lock bar is installed in historical file cabinet.
- (5) Secure folding artist shelves in upright position with red shipping brackets.
- (6) Close and secure wall cabinet and artist supply cabinet doors.
- (7) Secure stools under light table shelves with straps.
- (8) Prepare camera for shipping by doing the following:
  - (a) Install red holddown bars on copyboard.
  - (b) Move lenseboard up with bellows compressed.
  - (c) Close and secure top of camera.

2-15. **PREPARATION FOR MOVEMENT AND STORAGE.** - Continueda. Preparing Shelter for Movement. - Continued

- (9) Secure cover on PMT processor with red thumbscrews. Secure base of processor to shelf with red thumbscrews.
- (10) Secure folding chair and rub-up board to darkroom wall with strap.
- (11) Be sure no weapons are in the weapon rack or shelter.
- (12) Secure light table to front wall with strap.
- (13) Secure viewing light lens with holddown bracket.
- (14) Secure vacuum frame in the upright position with red shipping bracket.
- (15) Secure the film dryer cover with red thumbscrews.
- (16) Drain sink water tank and water lines by opening petcock. Close petcock after draining.
- (17) Secure storage cabinet and water supply cabinet doors.
- (18) Close and lock storage cabinet drawers.
- (19) Secure red shipping bracket to phototypesetter diskette cover.
- (20) Secure rowshift bracket to phototypesetter main frame.
- (21) Secure cover of phototypesetter processor with red thumbscrews. Secure base of processor to shelf with red thumbscrews.
- (22) Set all circuit breakers to OFF.
- (23) Close and secure the film drop off box.
- (24) Close the field phone cover.
- (25) Close and secure the fresh air vent.
- (26) Disconnect, cap, and stow the main power cable. Cap main power receptacle.
- (27) Disconnect and stow the sink drain hose. Secure cap to sink drain and water filler.

2-15. **PREPARATION FOR MOVEMENT AND STORAGE.** - Continued

a. Preparing Shelter for Movement. - Continued

(28) Install and secure the air conditioner covers.

(29) Close and secure shelter door.

(30) Cover all shelter apertures with pressure sensitive tape.

(31) Stow and secure ladder.

(32) Apply a preservative compound (item 29, app E) to all unfinished metal surfaces of the various pieces of equipment when shelter is to be stored for an extended period of time.

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.

**NOTE**

**When used in conjunction with Modular Print System, to ensure safety of operator, power to circuit breaker is controlled by Module C supervisor.**

(3) Set commercial power breaker to OFF or shut down the 60 kW power plant in accordance with TM 5-6115-594-14&P or TM 5-6115-625-14&P.

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

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

2-15. **PREPARATION FOR MOVEMENT AND STORAGE.** - Continuedb. Shutdown Procedures. - Continued

- (6) Coil and correctly stow main power cable.
- (7) Disconnect ground rod and wire from shelter and stow in proper location.

c. Loading Shelter. (See figure 2-15.)

- (1) Connect sling assembly to lifting eyes and lifting hook.
- (2) Tie a 1/2 inch (13 mm) rope at least 15 feet (4.6 meters) long to rear towing eyes.
- (3) Position a man on each rope.
- (4) Lower truck tailgate.

**WARNING**

**Injury to personnel or damage to equipment could result if unauthorized or unnecessary individuals are nearby when lifting or 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.**

**CAUTION**

**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.**

- (5) Slowly lift shelter with suitable lifting device.

2-15. PREPARATION FOR MOVEMENT AND STORAGE. - Continued

c. Loading Shelter. - Continued

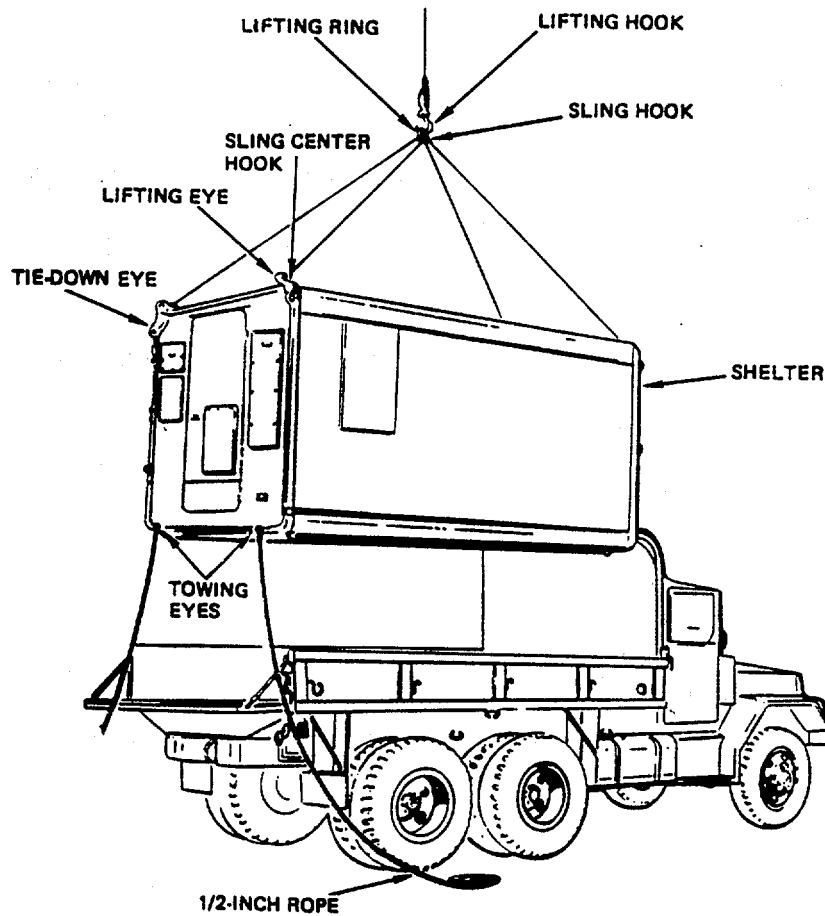


Figure 2-15. Loading Shelter

**NOTE**

The unit may be transported to new operating site by helicopter if necessary.

**CAUTION**

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.

2-15. **PREPARATION FOR MOVEMENT AND STORAGE.** - Continuedc. Loading Shelter. - Continued

(6) Position truck under shelter and slowly lower it onto truck using towing eye rope to help guide it into position.

(7) Remove lifting ring from lifting hook., Disassemble lifting ring and sling hooks. Remove sling center hooks from the lifting eyes. Remove rope from rear towing eyes.

d. Securing Shelter. (See figure 2-16.)

(1) Install tiedown ring assembly above the center support on the cargo bed siderail of the truck.

(2) Use the hook at the farthest end from turnbuckle and hook each end of the sling assemblies to a tiedown eye of the shelter.

(3) Secure sling hooks to tiedown ring.

**CAUTION**

**Lifting eye assemblies can be damaged if turnbuckles are over tightened.**

(4) Tighten turnbuckles hand tight, then turn each turnbuckle an additional one-half turn using a bar or rod inserted in the turnbuckle slot.

(5) Insert wooden blocks between shelter skids and side of truck bed.

(6) Insert wooden blocks between shelter skids and cab wall.

2-15. PREPARATION FOR MOVEMENT AND STORAGE. - Continued

d. Securing Shelter. - Continued

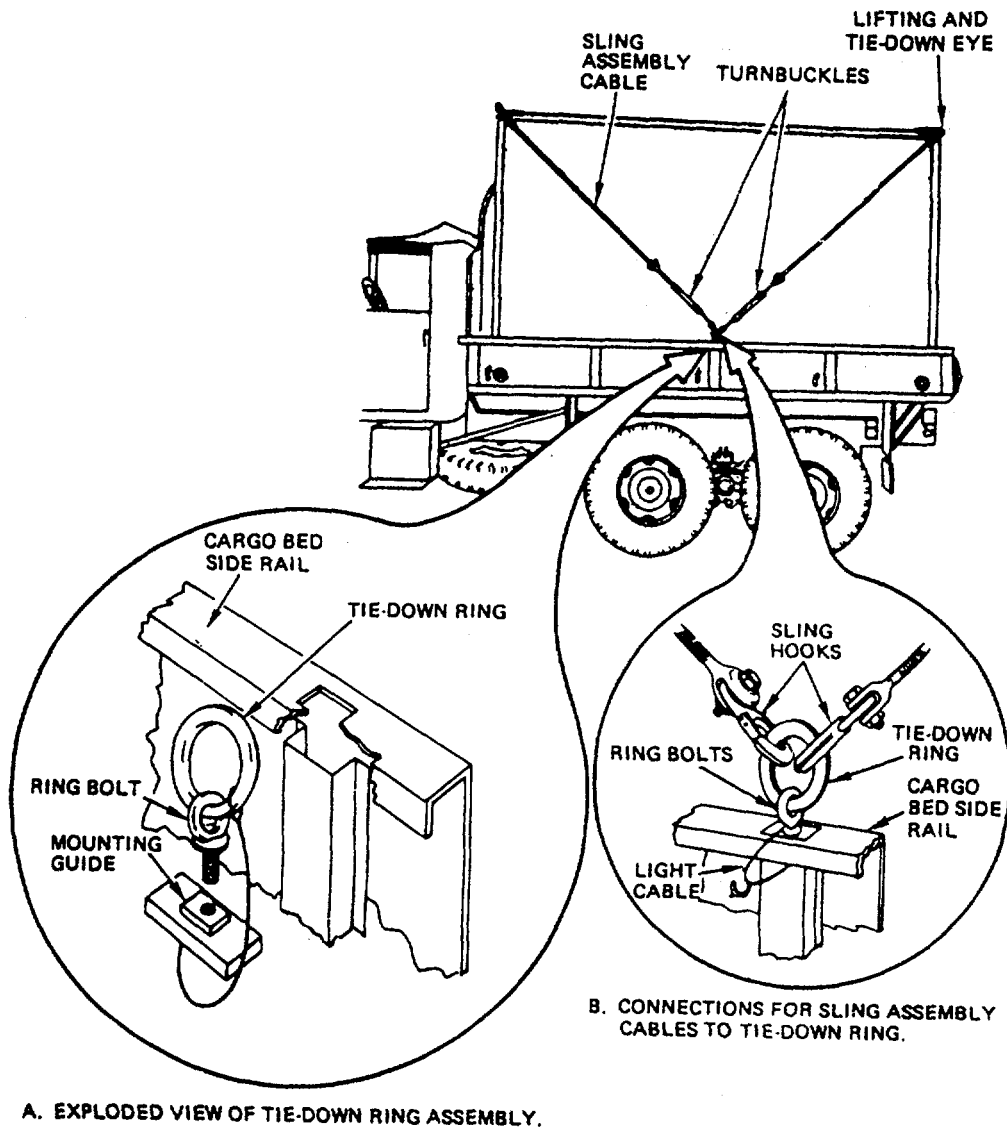


Figure 2-16. Securing Shelter

2-16. **OPERATING INSTRUCTIONS ON DECALS.** Figures 2-17 and 2-18 below identify warnings, cautions and operating instructions on decals or data plates for the Editorial Shelter.

(a) Exterior Decals and Data Plates. Figure 2-17 identifies exterior decals and data plates.

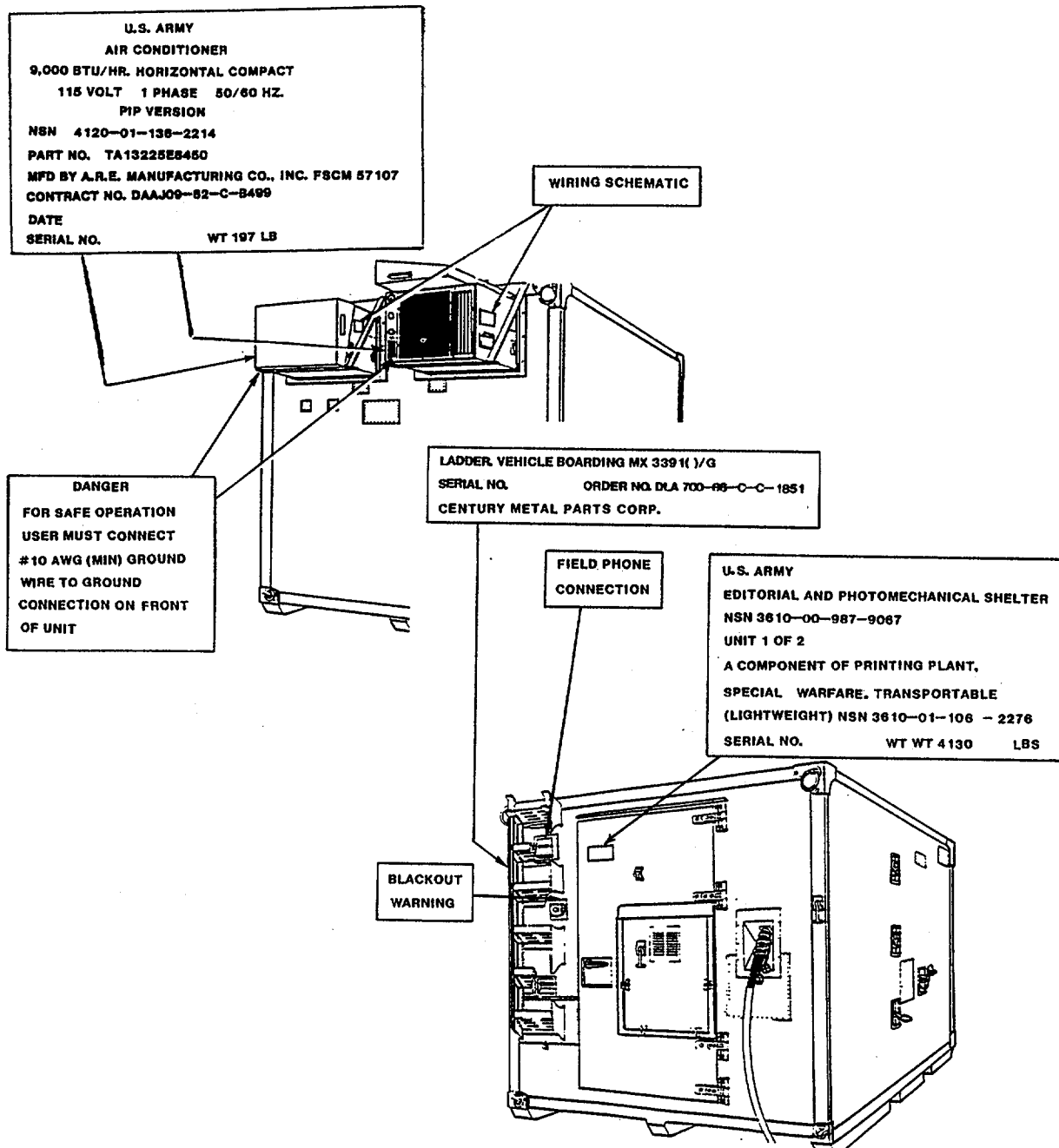


Figure 2-17. Exterior Decals and Data Plates



2-16. OPERATING INSTRUCTIONS ON DECALS. - Continued

(b) Interior Decals and Data Plates. Figure 2-18 identifies interior decals and data plates.

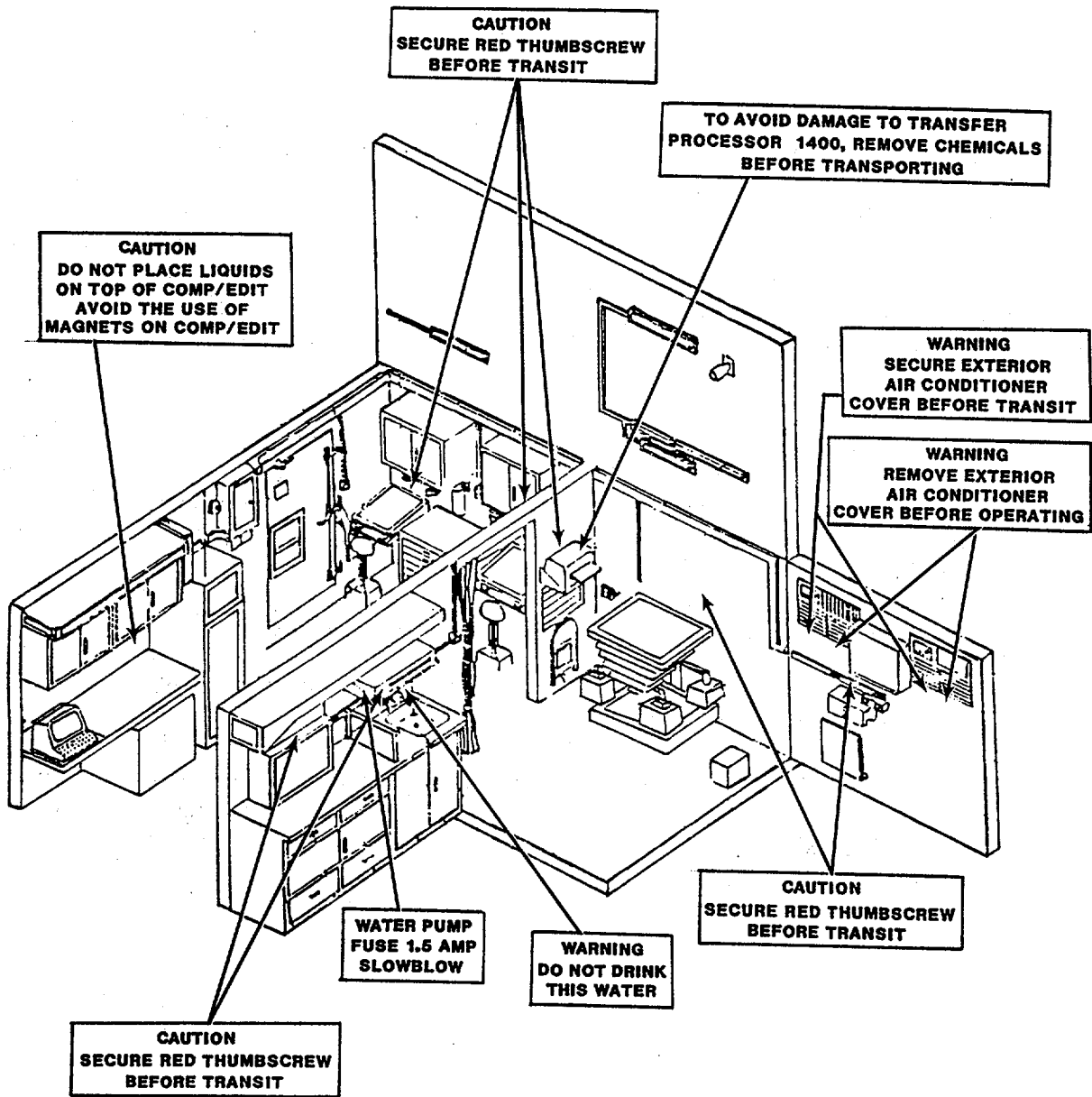


Figure 2-18. Interior Decals and Data Plates

**SECTION IV. OPERATION UNDER UNUSUAL CONDITIONS**

2-17. **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.

2-33/(2-34 Blank)

## **CHAPTER 3. OPERATOR MAINTENANCE**

### **SECTION I. LUBRICATION INSTRUCTIONS**

3-1. **GENERAL.** This section contains lubrication instructions for the editorial 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 editorial shelter with a few drops of lubricating oil (item 29, app E) monthly or if binding occurs during operation.

d. Refer to TM 10-5411-207-14 for recommended lubrication of the different components of the editorial shelter.

e. Refer to appropriate commercial manual for lubrication instructions for editorial shelter equipment.

**3-1/(3-2 Blank)**

**SECTION II. TROUBLESHOOTING PROCEDURES****3-3. GENERAL.**

a. If you suspect a problem, you should first verify that the PRESTART PROCEDURE in paragraph 2-15 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 editorial 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 equipment 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 editorial 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.

Table 3-1. Operator Troubleshooting

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
-------------	--------------------	-------------------

1. 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

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

**Table 3-1. Operator Troubleshooting - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
<b>2. NO ELECTRICAL POWER AT EQUIPMENT RECEPTACLES.</b>	Inspect to see if equipment circuit breaker is in the ON position.  Position applicable circuit breaker to ON.	
<b>3. LIGHT TABLE WILL NOT ILLUMINATE.</b>	Check for defective fluorescent tube.  Replace defective fluorescent tube as described in paragraph 4-14.	
<b>4. CAMERA VACUUM COPYBOARD INOPERATIVE.</b>	Turn on vacuum pump and check for leaks from vacuum hose extending from pump to underside of copyboard.  Disconnect defective hose at pump and copyboard and replace hose as described in TM 5-3610-303-12&P.	
<b>5. NO WATER FROM FAUCET.</b>	Step 1. Check to see if there is water in tank.  Fill water tank.  Step 2. Check to see if the proper circuit breaker in main panel for the water pump is in the ON position.  Position applicable circuit breaker to ON.	
<b>6. TEMPERATURE IN SHELTER TOO HOT OR TOO COLD.</b>	Step 1. Check thermostat for proper setting.  Set thermostat to proper temperature.	

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

**Table 3-1. Operator Troubleshooting - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
--------------------	---------------------------	--------------------------

**7. PMT PROCESSOR FILM OR PAPER FAILS TO TRANSPORT.**

Step 1. Film or paper pileup or jamming.

Clear processor of remaining material and refer to manufacturer's manual for further instructions.

**8. PIN-POINT LIGHT SOURCE WON'T WORK.**

Step 1. Light source not plugged in.

Plug light source in.

Step 2. Timer not set.

Set timer.

Step 3. Lamp burned out.

Replace lamp.

**9. WALL MOUNTED VIEWING LIGHT WILL NOT OPERATE.**

Step 1. Check if light source is plugged in.

Plug in light source.

Step 2. Check for loose or burned out fluorescent tube.

Tighten or replace fluorescent tube.

Step 3. Check for loose or burned out starter.

Tighten or replace starter in accordance with paragraph 4-27.

### 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 publications supplied with the various items of equipment. This section contains those procedures not covered by commercial publications and deemed operator's responsibility. You should call organizational maintenance for any other maintenance requirements on the editorial shelter.

#### 3-5. SAFELIGHT ASSEMBLY.

This task covers:           a.     Inspect     b.     Replace

##### INITIAL SETUP

##### Tools

None

##### Material

Fluorescent light bulbs

a. Inspect (See Figure 3-1.)

- (1) Inspect light fixture for broken bulb.
- (2) Place light switch circuit breaker in ON position and check light for operation.

b. Replace. (See Figure 3-1.)

- (1) Remove lamp (1).
- (2) Install lamp (1) in light fixtures by aligning lamp contacts with slots in both ends of lamp fixture and turning one-quarter turn clockwise.

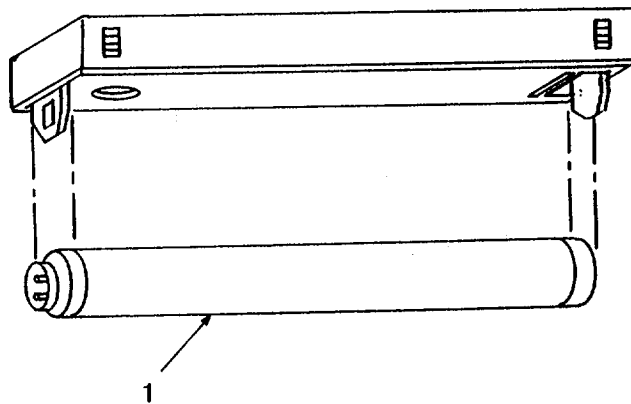


Figure 3-1. Safelight Assembly Lamp



**CHAPTER 4. UNIT MAINTENANCE**

**SECTION I. UNIT LUBRICATION INSTRUCTIONS**

4-1. **GENERAL.** There are no lubrication instructions performed by unit maintenance. All routine lubrication of the editorial and photomechanical shelter is performed by the operator.

**4-1/(4-2 Blank)**

**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 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 Editorial 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.

**4-3/(4-4 Blank)**

**SECTION III. SERVICE UPON RECEIPT OF EQUIPMENT**

4-5. **SETUP OF SHELTER.** Refer to Chapter 2, paragraph 2-15 for setup procedures.

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

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

- a. Shelter Checklist. Refer to TM 10-5411-207-14 for shelter inspection checklist.
- b. Editorial Shelter Checklist. Table 4-1 below lists items in the Editorial Shelter that must be checked and the action required.

**Table 4-1. Editorial Shelter Checklist**

ITEM	ACTION
1. Phototypesetter	Check housing and operator controls and indicators for damage.
2. Camera	Inspect switches and controls for damage.
3. Vertical Vacuum	Inspect switches and controls for damage. Frame
4. Tilt Top Light Table	Inspect glass top for cracks or breaks. Inspect switch for operation.
5. PMT Processor	Check housing and controls and indicators for damage.
6. Film Dryer	Inspect switch and housing for damage.
7. Wall Mounted Viewing Light	Check for secure wall mounting. Check screen and switch for damage.
8. Pin Point Light Source	Inspect controls and indicators for damage.
9. Phototypesetter Processor	Inspect controls, indicator and housing for damage.
10. Air Conditioner	Check controls and indicators for damage.

**4-5/(4-6 Blank)**

**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**

Legend

M - Monthly

Q - Quarterly

S - Semiannually

Item No.	Interval			Item Inspected	Procedures
	M	Q	S		
1	●			Light Table	Inspect the light table for condition and security of attachment. Inspect lights for proper operation. If inspection indicates replacement of the light table is necessary, refer to paragraph 4-14.
2	●			PMT Processor	Inspect processor for general condition and security. If inspection indicates that replacement of the processor is necessary, refer to paragraph 4-17.
3	●			Vertical Camera and Mounting Assembly	Inspect for security and proper operation. If inspection indicates that replacement of camera vacuum pump is necessary, refer to paragraph 4-18.
4	●			Safelight Assembly	Inspect lamps for correct illumination. If inspection indicates that replacement of the lamp assembly is necessary, refer to paragraph 4-19.
5	●			Film Dryer	Inspect dryer for general condition and security of mounting. If inspection indicates that replacement is necessary, refer to paragraph 4-20.
6	●			Vertical Vacuum Frame	Inspect vacuum frame for security and condition of glass and lights. If inspection indicates replacement is necessary, refer to paragraph 4-26.
7	●			Vertical Vacuum Frame Pump	Inspect vacuum pump for security and condition. If inspection indicates replacement is necessary, refer to paragraph 4-26.

4-8. GENERAL. - Continued

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

Item No.	Interval			Item Inspected	Procedures
	M	Q	S		
8	●			Wall Mounted Viewing Light	Inspect viewing light for general condition and security of mounting. If inspection indicates replacement is necessary, refer to paragraph 4-27.
9	●			Pin Point Light Source Assembly	Inspect light assembly for security of mounting. Inspect light assembly casing for damage. Inspect power cord and timer for proper operation. If inspection indicates replacement is necessary, refer to paragraph 4-28.
10	●			Phototypesetter Processor Assembly	Inspect processor and shelf for general condition and security of mounting. If inspection indicates replacement is necessary, refer to paragraph 4-29.
11	●			Fire Extinguisher	Inspect nozzle and gauge for security and condition. Weigh cylinder every 6 months and replace if gross weight has decreased by 6 ounces (170 gm) or more. If inspection indicates replacement, refer to paragraph 4-31.
12	●			Fresh Filter	Inspect for cleanliness, damage, and proper installation. Clean filter as indicated in paragraph 4-35.
13	●			Ladder Assembly	Inspect for damage and ensure that mounting bracket and holddown assembly are properly attached and are not damaged. If inspection indicates replacement is necessary, refer to paragraph 4-40.

4-8. GENERAL. - Continued

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

Legend  
 M - Monthly                      Q - Quarterly                      S - Semiannually

Item No.	Interval			Item Inspected	Procedures
	M	Q	S		
14		●		Equipment Receptacles	Inspect for secure mounting, broken or cracked body, and proper cover installation. If inspection indicates that replacement or repair is necessary, refer to paragraph 4-43.
15	●			Composing Table	Inspect for secure mounting and general condition. If inspection indicates that replacement of the table is necessary, refer to paragraph 4-44.
16	●			Telephone Bracket Assembly	Inspect telephone bracket for completeness and security of mounting. If inspection indicates that replacement is necessary, refer to paragraph 4-46.

**SECTION V. UNIT TROUBLESHOOTING**

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

**WARNING**

The editorial shelter contains voltages that are dangerous if contacted. When troubleshooting, observe all safety warnings and cautions. 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 an editorial shelter problem, you should first verify that the PRESTART PROCEDURE in paragraph 2-15 has 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 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.

4-10. **UNIT TROUBLESHOOTING.** Table 4-3 lists the common malfunctions which you may find during operation or maintenance of the editorial 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 Unit Preventive Maintenance Checks and Services (PMCS).



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

**TABLE 4-3. UNIT TROUBLESHOOTING**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
<b>1. LIGHT TABLE ASSEMBLY DOES NOT OPERATE PROPERLY.</b>		
	Step 1. Inspect light table for security of mounting.	Mount light table (Paragraph 4-14b.)
	Step 2. Check glass top for cracks or breaks.	Replace glass top (Paragraph 4-14b.)
	Step 3. Check lights for proper operation.	Replace lights (Paragraph 4-14b.)
	Step 4. Inspect operation of ON and OFF switch.	Replace switch (Paragraph 4-14b.)
<b>2. PMT PROCESSOR AND SUPPORT ASSEMBLY DO NOT OPERATE PROPERLY.</b>		
	Step 1. Check PMT processor for general condition and security of mounting.	Mount PMT processor (Paragraph 4-17b.)
	Step 2. Check processor for proper operation.	Refer to commercial manual.
<b>3. VERTICAL CAMERA AND MOUNTING ASSEMBLY DO NOT OPERATE PROPERLY.</b>		
	Step 1. Check camera for security of mounting.	Mount camera (Paragraph 4-18b.)
	Step 2. Check camera for proper operation.	Refer to TM 5-3610-303-12&P.

4-10. **UNIT TROUBLESHOOTING.** - Continued**TABLE 4-3. UNIT TROUBLESHOOTING - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
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**4. SAFELIGHT ASSEMBLY DOES NOT OPERATE PROPERLY.**

Step 1. Check operation of fluorescent lights.

Replace lights (Paragraph 4-19b.)

Step 2. Check tube socket for security and damage.

Replace tube socket (Paragraph 4-19b.)

Step 3. Check light fixture damage and incorrect attachment.

Replace light fixture (Paragraph 4-19b.)

**5. FILM DRYER AND MOUNTING ASSEMBLY DOES NOT OPERATE PROPERLY.**

Check film dryer for general condition and proper operation.

Refer to commercial manual.

**6. WATER TANK AND MOUNTING ASSEMBLY DO NOT OPERATE PROPERLY.**

Step 1. Check for blown water pump fuse. Fuse is located in the underside of the raceway above the storage bench. Check/replace fuse as follows:

(a) Push in on fuse holder, turn 1/4 turn counterclockwise and remove holder and fuse from raceway.

(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 turning 1/4 turn clockwise to lock in place.

4-10. UNIT TROUBLESHOOTING - Continued

TABLE 4-3. UNIT TROUBLESHOOTING - Continued

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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**6. WATER TANK AND MOUNTING ASSEMBLY DO NOT OPERATE PROPERLY. - CONT.**

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

Plug in pump, fill water tank.

Replace water pump (Paragraph 4-24b.)

Step 3. Inspect water heater for security and proper operation.

Replace water heater (Paragraph 4-24b.)

Step 4. Inspect tubing for breaks and proper connection.

Replace tubing (Paragraph 4-24b.)

**7. VERTICAL VACUUM FRAME ASSEMBLY DOES NOT OPERATE PROPERLY.**

Step 1. Check assembly for security of mounting.

Mount vertical vacuum frame assembly (Paragraph 4-26b.)

Step 2. Check vacuum frame assembly for proper operation.

Repair assembly (TM 5-3610-301-12&P.)

Step 3. Check vacuum pump for security of mounting.

Mount vacuum pump (Paragraph 4-26b.)

Step 4. Check pump for proper operation.

Repair pump (TM 5-3610-301-12&P.)

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

**TABLE 4-3. UNIT TROUBLESHOOTING - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
<b>8. VIEWING LIGHT ASSEMBLY DOES NOT OPERATE PROPERLY.</b>		
Step 1. Check viewing light assembly for security of mounting.	Mounting assembly (Paragraph 4-27b.)	
Step 2. Check switch and lights for proper operation.	Replace switch and lights (Paragraph 4-27b.)	
Step 3. Inspect viewing light assembly for cracks or breakage.	Replace viewing light assembly (Paragraph 4-27b.)	
<b>9. PIN-POINT LIGHT ASSEMBLY DOES NOT OPERATE PROPERLY.</b>		
Step 1. Check assembly for security of mounting.	Mount pin-point light assembly (Paragraph 4-28b.)	
Step 2. Check darkroom timer for security of mounting.	Mount darkroom timer (Paragraph 4-28b.)	
Step 3. Check power cord for damage.	Replace power cord (Paragraph 4-28c.)	
Step 4. Check operation of pin-point light assembly.	Replace pin-point light assembly (Paragraph 4-28b.)	
Step 5. Check operation of darkroom timer.	Replace darkroom timer (Paragraph 4-28b.)	

## 4-10. UNIT TROUBLESHOOTING. - Continued

TABLE 4-3. UNIT TROUBLESHOOTING - Continued

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MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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**10. PHOTOTYPESETTER ASSEMBLY.**

Step 1. Check digital slave assembly for security of mounting.

Mount digital slave (Paragraph 4-29b.)

Step 2. Check operation of digital slave.

Refer to TM 5-3610-302-12.

Replace digital slave (Paragraph 4-29b.)

Step 3. Check table top keyboard terminal for security of mounting.

Mount table top keyboard terminal (Paragraph 4-29c.)

Step 4. Check operation of table top keyboard terminal.

Refer to TM 5-3610-302-12.

Replace table top keyboard terminal.

Step 5. Check monitor for security of mounting.

Mount monitor (Paragraph 4-29d.)

Step 6. Check operation of monitor.

Refer to TM 5-3610-302-12.

Replace monitor (Paragraph 4-29d.)

Step 7. Check controller for security of mounting.

Mount controller (Paragraph 4-29e.)

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

**TABLE 4-3. UNIT TROUBLESHOOTING - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
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**10. PHOTOTYPESETTER ASSEMBLY. - CONT.**

Step 8. Check operation of controller.

Refer to TM 5-3610-302-12.

Replace controller (Paragraph 4-29e.)

**11. PHOTOTYPESETTER PROCESSOR ASSEMBLY DOES NOT OPERATE PROPERLY.**

Step 1. Check processor assembly for security of mounting.

Mount processor assembly (Paragraph 4-30b.)

Step 2. Check processor for proper operation.

Refer to TM 5-3610-302-12.

Replace processor (Paragraph 4-30b.)

**12. AIR CONDITIONER ASSEMBLY DOES NOT OPERATE PROPERLY.**

Inspect air conditioner for proper operation.

Refer to TM 5-4120-378-14.

Replace air conditioner (Paragraph 4-33b.)

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

**TABLE 4-3. UNIT TROUBLESHOOTING - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
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**13. BLACKOUT WARNING ASSEMBLY DOES NOT OPERATE PROPERLY.**

Step 1. Check blackout assembly switch for proper operation.

Replace switch (Paragraph 4-34b.)

Step 2. Check warning buzzer for proper operation.

Replace warning buzzer (Paragraph 4-34b.)

**14. CEILING LAMP ASSEMBLY DOES NOT OPERATE PROPERLY.**

Step 1. Inspect lamp assembly for security of mounting.

Mount lamp assembly (Paragraph 4-41b.)

Step 2. Inspect fluorescent tubes for discoloration or failure.

Replace fluorescent tubes. (Paragraph 4-41b.)

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

Replace tube sockets (Paragraph 4-41b.)

Step 4. Inspect starter for proper operation.

Replace starter (Paragraph 4-41b.)

Step 5. Inspect lamp assembly wiring for bared conductors and for cut, chafed or brittle insulation.

Replace wiring (Paragraph 4-41b.)

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

**TABLE 4-3. UNIT TROUBLESHOOTING - Continued**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
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**15. WALL LAMP SWITCHES DO NOT OPERATE PROPERLY.**

Check lamp switches for proper operation, loose connections and excessive wear.

Replace wall lamp switches (Paragraph 4-42.)

**16. EQUIPMENT RECEPTACLES-DO NOT OPERATE PROPERLY.**

Check equipment receptacles for loose connections and excessive wear.

Replace equipment receptacles (Paragraph 4-43.)



## 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 parentheses ( ) after component or item discussed in paragraphs below refer to callouts in corresponding figures.

### 4-12. WALL CABINET ASSEMBLY.

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

#### INITIAL SETUP

##### Tools

General mechanics automotive tool kit, Hand blind riveter

##### Materials

None

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

- (1) Check editorial 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 4-1.)

- (1) Remove contents of wall cabinet shelves.
- (2) Remove bolts (2), flat washers (3), backing plates (4), flat washers (5), lockwashers (6), nuts (7) and cabinet (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 (Appendix E, item 3).

4-12. WALL CABINET ASSEMBLY.- Continued

- b. Replace - Continued. (See Figure 4-1.)
- c.

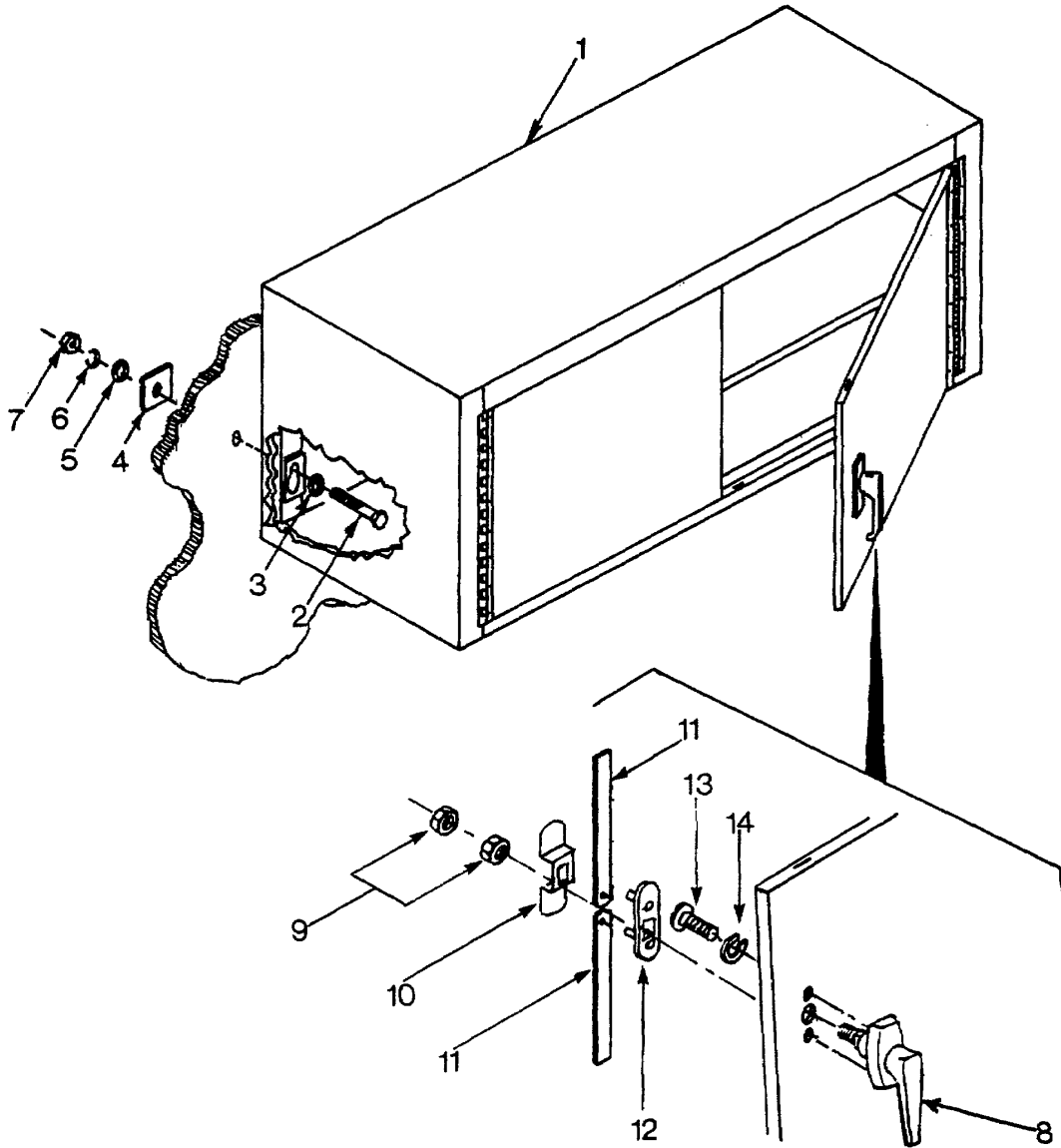


Figure 4-1. Wall Cabinet Assembly

**4-12. WALL CABINET ASSEMBLY.** - Continuedc. Repair. (See Figure 4-1.)

- (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.

**4-13. HISTORICAL FILE CABINET ASSEMBLY.**

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

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit, Hand blind riveter

## Materials

RTV, Item 3, Appendix E

a. Inspect. (See Figure 4-2.)

- (1) Check historical file cabinet for security of mounting, dents, and structural damage. Inspect welds for breaks or separation.
- (2) Inspect file cabinet locking bar for bends and chipped paint.

4-13. **HISTORICAL FILE CABINET ASSEMBLY.** - Continued

a. Inspect. (See Figure 4-2.) - Continued

- (3) Inspect drawer handles for breaks and security of mounting.
- (4) Inspect label holders for security of installation and damage.

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

- (1) Remove file cabinet locking bar (1) from cabinet (2).
- (2) Remove drawers (3).
- (3) Remove bolts (4), flat washers (5), backing plates (6), lockwashers (7), and nuts (8).
- (4) Disconnect power cords (9) from light tables (10).
- (5) Remove light tables bolts (11), lockwashers (12), flat washers (13), and rubber legs (14).
- (6) Remove light tables (10) from both sides of cabinet (2).
- (7) Remove screws (15) from both sides of cabinet (2).
- (8) Remove rivets (16) by drilling or chiseling off heads.
- (9) Remove cabinet (2).
- (10) Install replacement cabinet (2).
- (11) Install rivets (16).
- (12) Install screws (15) on both sides of cabinet (2).
- (13) Install light tables (10) and rubber legs (14). Secure with flat washers (13), lockwashers (12), and bolts (11).
- (14) Connect power cords (9) to wall receptacle.
- (15) Secure cabinet (2) with bolts (4), flat washers (5), backing plates (6), flat washers (5), lockwashers (7), and nuts (8).
- (16) Install drawers (3).
- (17) Install locking bar (1) into cabinet (2).

4-13. HISTORICAL FILE CABINET ASSEMBLY. - Continued

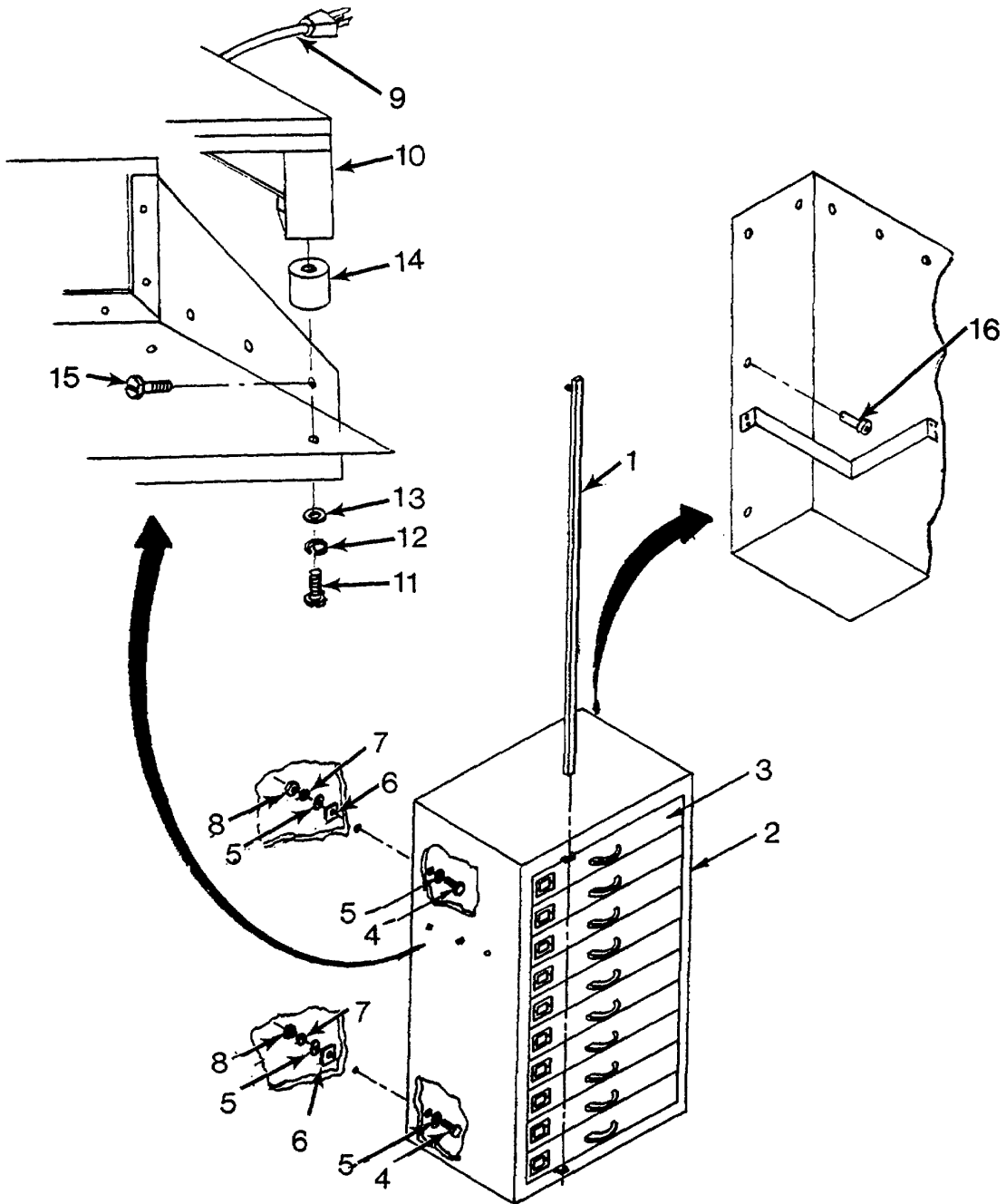


Figure 4-2. Historical File Cabinet

4-13. HISTORICAL FILE CABINET ASSEMBLY. - Continued

c. Repair.

- (1) Remove handle screws (1). (Refer to Figure 4-3.)
- (2) Remove handle (2).
- (3) Remove rivets (3) by drilling or chiseling off heads

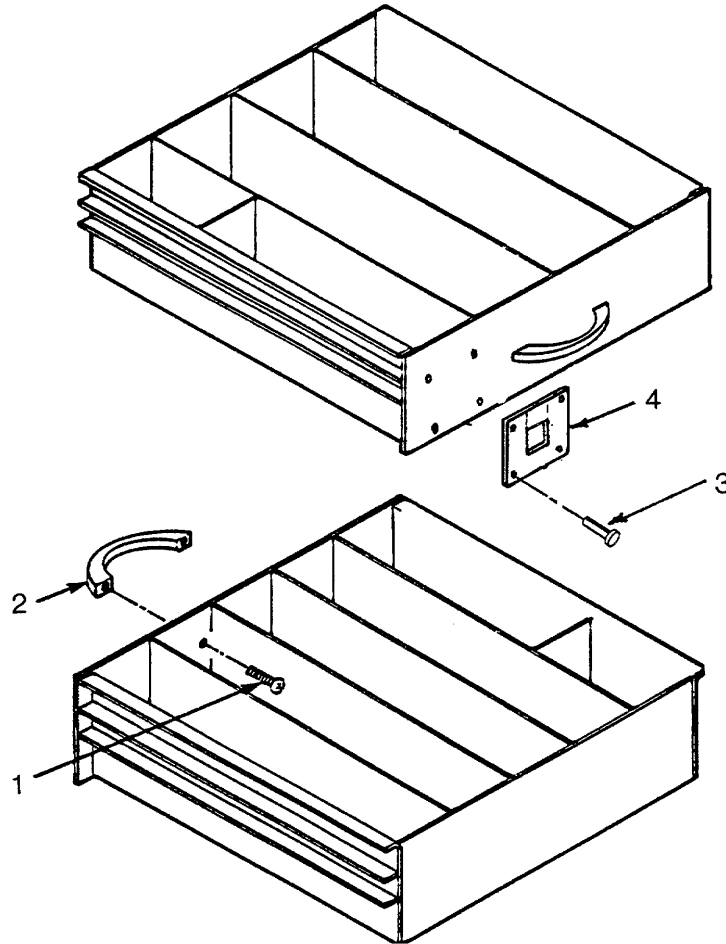


Figure 4-3. Historical File Cabinet Drawer

4-13. **HISTORICAL FILE CABINET ASSEMBLY.** - Continued

c. Repair. - Continued

- (4) Remove label holder (4).
- (5) Install drawer label holders (4) and secure with rivets (3).
- (6) Secure handles (2) to drawer with screws (1).
- (7) Repair file cabinet locking bar (1, Figure 4-2) by straightening and/or painting.
- (8) Remove cabinet (2) minor dents and bends.

4-14. **LIGHT TABLE ASSEMBLY.**

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

**INITIAL SETUP**

Tools

General mechanics automotive tool kit, Hand blind riveter

Materials

None

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

- (1) Inspect editorial room, curbside light table for security of mounting.
- (2) Check light table glass top for damage.
- (3) Check lights for proper operation.
- (4) Inspect OFF and ON switch for proper operation and for security of mounting.

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

- (1) Disconnect power cord (1).
- (2) Remove light table bolts (2), lockwashers (3), flat washers (4), and rubber legs (5).
- (3) Remove light table (6).

4-14. **LIGHT TABLE ASSEMBLY.** - Continued

b. Replace. - Continued

- (4) Loosen thumbscrews (7) and star washers (8) to remove shipping bracket (9) if installed.
- (5) Remove shelf rivets (10) by drilling or chiseling off heads.
- (6) Remove screws (11) connecting shelf (12) to historical cabinet and remove shelf (12).
- (7) Position replacement shelf (12) on mounting holes.
- (8) Install shelf (12) and rivets (10).
- (9) Secure screws (11).
- (10) Position replacement light table (6).
- (11) Install rubber legs (5), flat washers (4), lockwashers (3), and bolts (2).
- (12) Connect power cord (1) to proper receptacle.



4-14. LIGHT TABLE ASSEMBLY. - Continued

b. Replace. - Continued

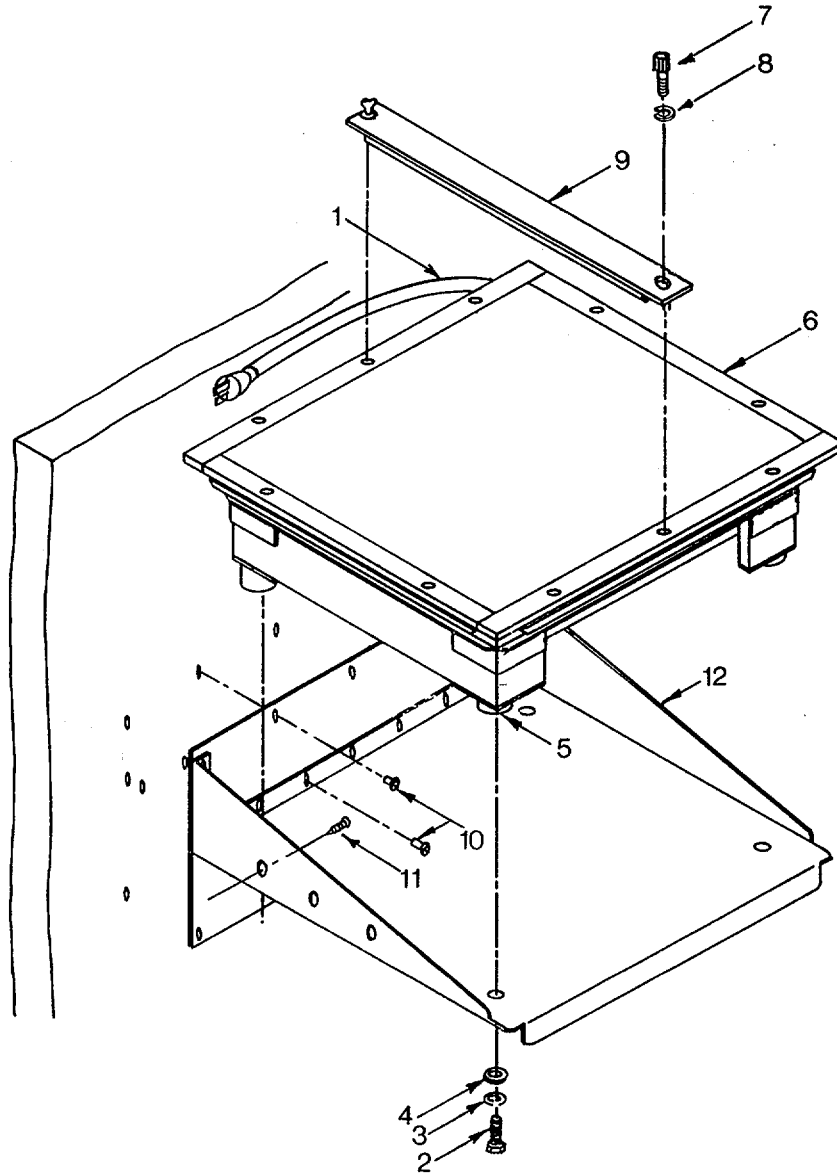


Figure 4-4. Light Table Assembly

4-14. **LIGHT TABLE ASSEMBLY.** - Continuedc. Repair. (See Figure 4-5.)

- (1) Remove light table glass (1) and plastic top (2).
- (2) Grasp fluorescent tube (3), rotate 900, and remove from table tube sockets.
- (3) Rotate starter (4) counterclockwise and remove from socket.
- (4) Remove nuts (5).
- (5) Remove wire nuts (6).
- (6) Remove ballast (7).
- (7) Remove nut (8), plate (9), wire nuts (10), and switch (11).
- (8) Remove screw (12), flat washer (13), and nut (14).
- (9) Remove power cord (15).

**NOTE**

The following modification procedure, steps 10 and 11, is for modifying a light table that has not been modified for this shelter. (See Figure 4-6. )

- (10) Measure and drill light table shipping bracket mounting holes (1).
- (11) Tap drilled holes.
- (12) Install light table power cord (15). (See Figure 4-5.)

## 4-14. LIGHT TABLE ASSEMBLY. - Continued

c. Repair. - Continued

- (13) Install nut (14), flat washer (13), and screw (12).
- (14) Install switch (11) and wire nuts (10). Secure switch (11) with plate (9) and nut (8).
- (15) Install ballast (7).
- (16) Install wire nuts (6).
- (17) Install nuts (5).
- (18) Install starter (4) in socket and rotate clockwise until secure.
- (19) Install fluorescent tubes (3) in tube sockets and rotate 90° until secure.
- (20) Install plastic top (2) and glass (1).

4-14. LIGHT TABLE ASSEMBLY. - Continued

c. Repair. - Continued

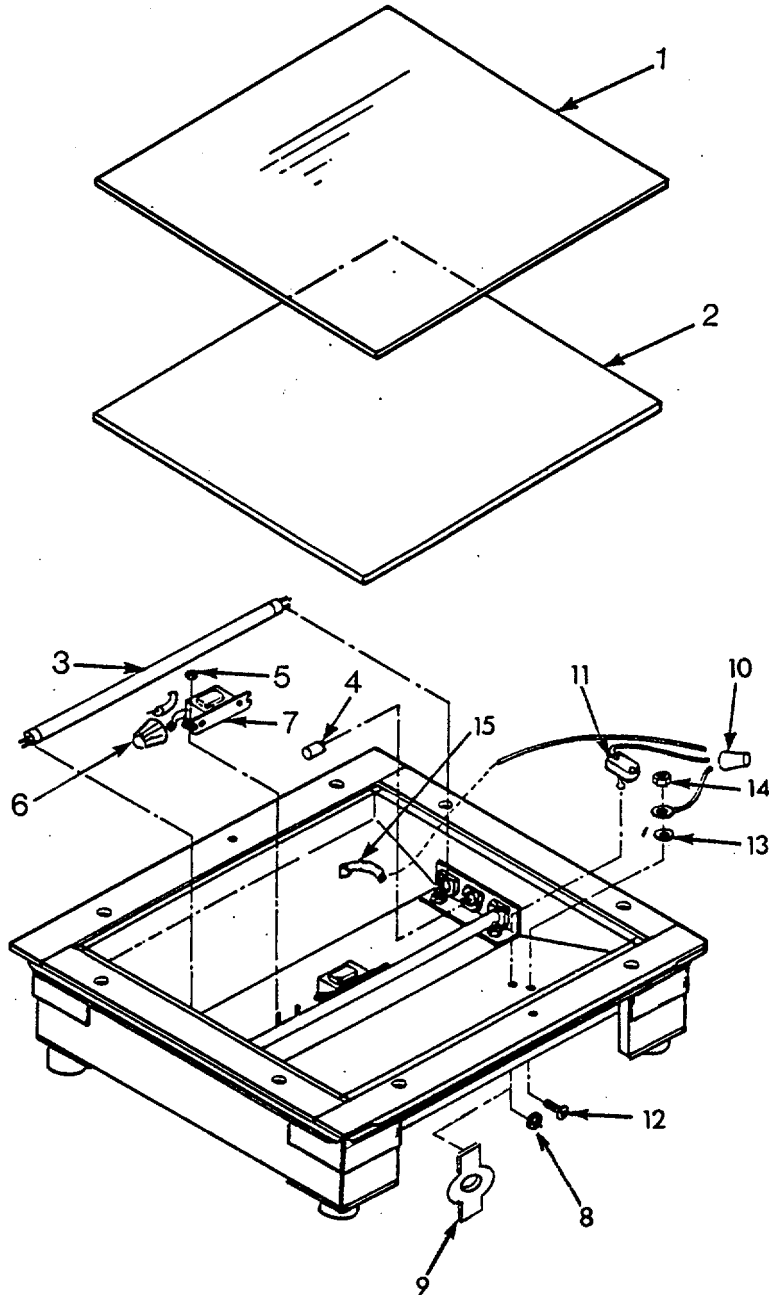


Figure 4-5. Light Table

4-14. LIGHT TABLE ASSEMBLY. - Continued

c. Repair. - Continued

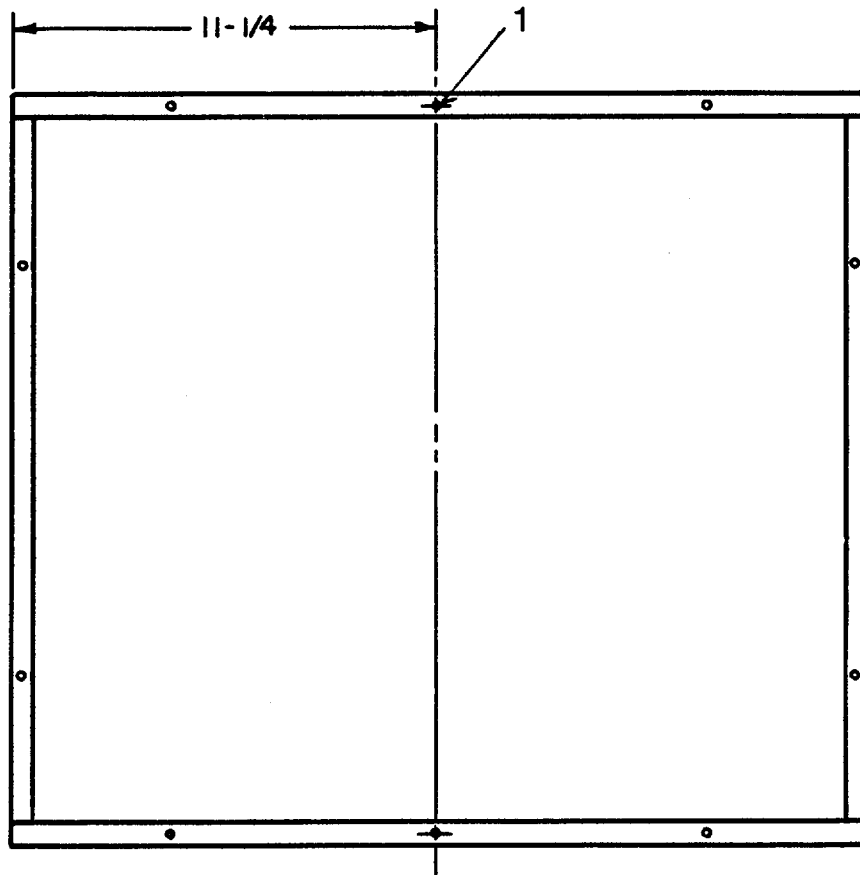


Figure 4-6. Light Table Frame

4-15. ARTIST SUPPLY CABINET ASSEMBLY.

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

**INITIAL SETUP**

Tools

General mechanics automotive tool kit

Materials

Adhesive sealant (3, Appendix E)

4-15. **ARTIST SUPPLY CABINET ASSEMBLY.** - Continueda. Inspect. (See Figure 4-7.)

(1) Check editorial room, curbside supply cabinet for security of mounting. Check for dents and structural damage. Inspect welds for breaks or separation.

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

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

b. Replace. (See Figure 4-7.)

(1) Remove contents from supply cabinet shelves.

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

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

c. Repair. (See Figure 4-7.)

(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 supply cabinet (1) body.

(3) Remove minor dents and bends from supply cabinet (1) shelf.

(4) Repair welds as needed.

4-15. ARTIST SUPPLY CABINET ASSEMBLY. - Continued

c. Repair. - Continued

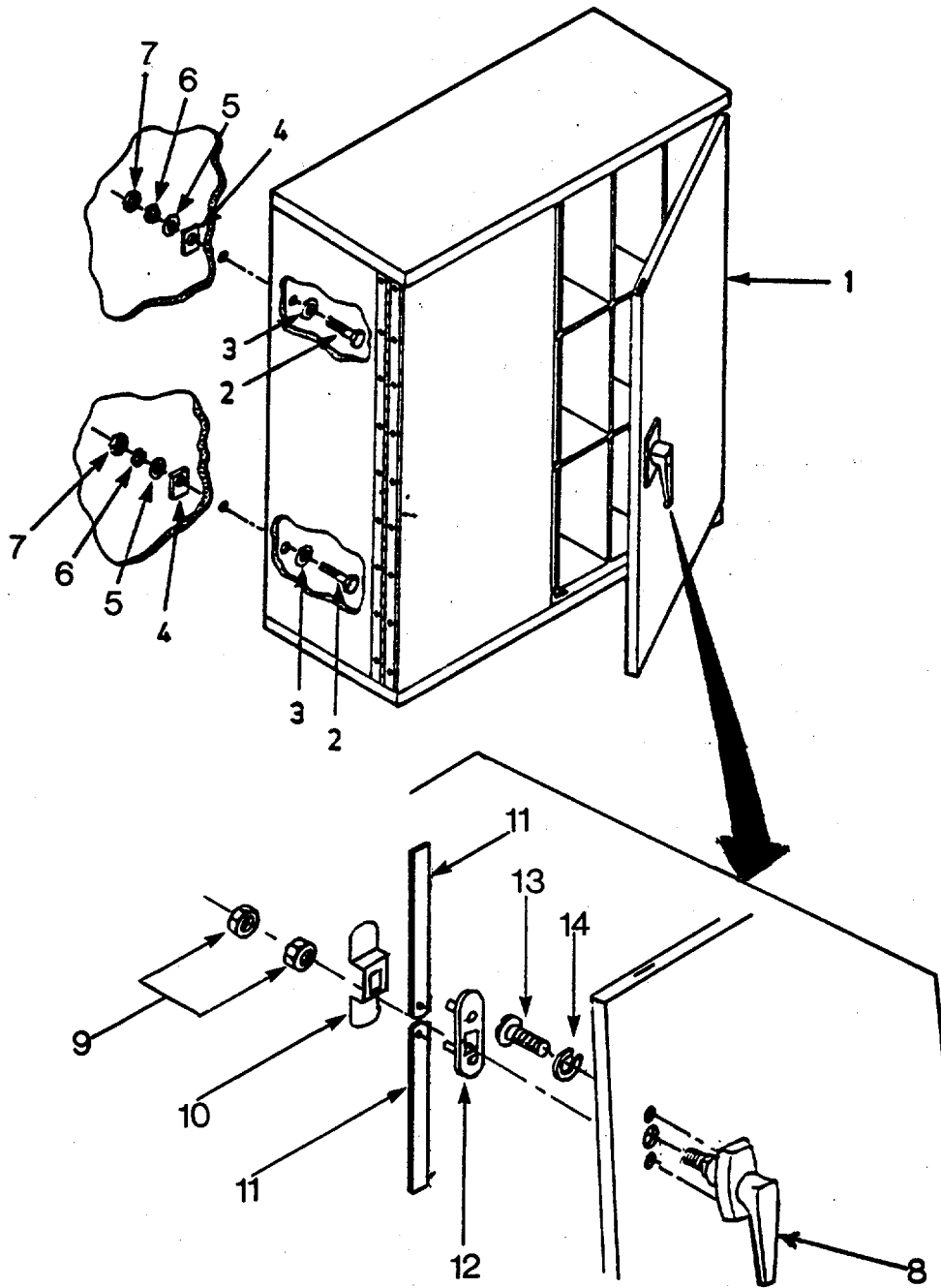


Figure 4-7. Artist Supply Cabinet

**4-16. FOLD DOWN TRAY ASSEMBLY.**

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

**INITIAL SETUP****Tools**

General mechanics automotive tool kit, Hand blind rivet

**Materials**

None

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

Inspect fold down tray assembly for security and general condition.

**b. Replace. (See Figure 4-8.)**

- (1) Remove holding bracket (1) by loosening thumbscrew (2) and washer (3).
- (2) Remove fold down tray rivets (4) by drilling or chiseling off heads.
- (3) Remove fold down tray (5).
- (4) Remove support rivets (6) by drilling or chiseling off heads.
- (5) Remove supports (7).
- (6) Secure fold down tray supports (7) to shelter wall with rivets (6).
- (7) Secure fold down tray (5) to shelter wall with rivets (4).
- (8) Secure fold down tray (5) with holding bracket (1) using thumbscrew (2) and washer (3).



4-16. FOLD DOWN TRAY ASSEMBLY. - Continued

b. Replace. - Continued

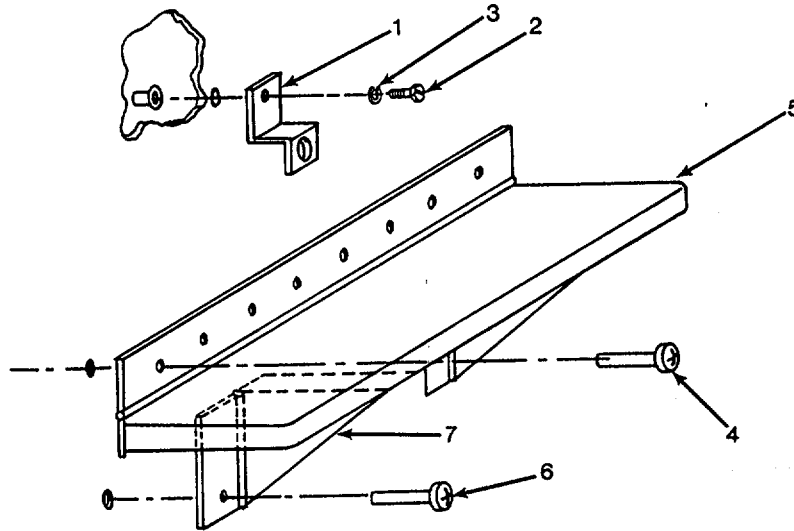


Figure 4-8. Fold Down Artist Shelf

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

- (1) Remove fold down tray bends or dents.
- (2) Repair cracks or tears by welding.
- (3) Remove support bends or dents.

4-17. **PMT PROCESSOR AND SUPPORT ASSEMBLY.**

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials

None

a. Inspect. (See Figure 4-9.)

(1) Check darkroom PMT processor (1) for security and completeness in accordance with commercial manual.

(2) Check processor shelf (2) for security and general condition.

b. Replace. (See Figure 4-9. )

(1) Disconnect power cord (3).

(2) Drain chemicals from chemical tray (4).

(3) Lift processor rollers (5) from chemical tray (4).

(4) Release snaps (6) and remove motor module (7) from chemical tray (4).

(5) Remove thumbscrews (8) and lockwashers (9) and remove chemical tray (4) and mounting plate (10) from processor shelf (2).

(6) Remove screws (11) from mounting plate (10) and remove chemical tray (4) from mounting plate (10).

(7) Remove processor shelf (2) from interior wall of darkroom by drilling out rivets (12) or chiseling off heads.

(8) Install replacement processor shelf (2) with rivets (12).

(9) Install chemical tray (4) to mounting plate (10) with screws (11).

(10) Install mounting plate (10) to processor shelf (2) with thumbscrews (8) and lockwashers (9).

(11) Position motor module (7) on chemical tray (4) and secure by pressing snaps (6).

4-17. PMT PROCESSOR AND SUPPORT ASSEMBLY. - Continued

b. Replace. - Continued

- (12) Position processor rollers (5) on chemical tray (4).
- (13) Refill chemical tray (4).
- (14) Connect power cord (3).

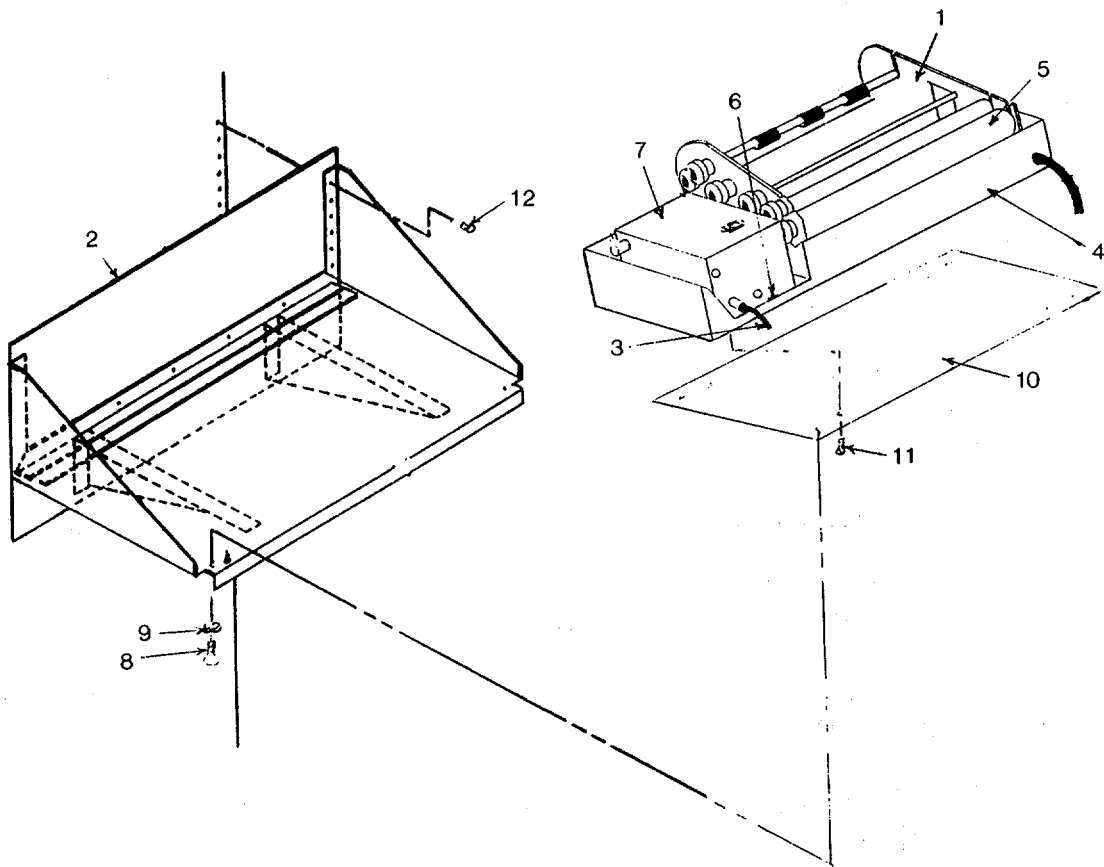


Figure 4-9. PMT Processor Assembly

4-18. **V**ERTICAL CAMERA AND MOUNTING ASSEMBLY.

This task covers: a. Inspect b. Replace

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials

None

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

Check vertical camera for completeness and security. (Refer to TM 5-3610-303-12&P.)

- b. Replace. (See Figure 4-10.)

- (1) Vertical camera. (See Figure 4-10.)

**NOTE**

lifting and removing camera requires two or more persons.

- (a) Disconnect camera power cord (1) and light bar power cord (2).
- (b) Disconnect vacuum pump power cord (3) and vacuum hose (4).
- (c) Remove upper shock mount bolts (5) and nuts (6) from roadside wall.
- (d) Remove floor shock mount bolts (7) and nuts (8).
- (e) Lift camera (9) forward, rotate 90°, and rest on shelter floor.
- (f) Remove floor mounting bracket bolts (10), lockwashers (11), flat washers (12), and floor mounting bracket (13).
- (g) Remove bolts (14), lockwashers (15), flat washers (16), and wall mounting brackets (17).
- (h) Ensure all shipping brackets (18) are secured with thumbscrews (19) and remove camera (9) from shelter.

4-18. **VERTICAL CAMERA AND MOUNTING ASSEMBLY.** - Continued

b. Replace. - Continued

(i) Install floor mounting bracket (13) on replacement camera (9) by securing flat washers (12), lockwashers (11), and bolts (10).

(j) Install wall mounting brackets (17) on replacement camera (9) and secure with flat washers (16), lockwashers (15), and bolts (14).

**WARNING**

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

(k) Lift replacement camera (9) and position in front of floor shock mounts (20).

(l) Lift replacement camera (9), rotate 90°, and position mounting bracket over floor shock mount (20) holes.

(m) Install floor shock mount nuts (8) and bolts (7).

(n) Install upper shock mount nuts (6) and bolts (5).

**NOTE**

Vacuum pump receptacle is keyed for a twist lock plug.

(o) Connect vacuum pump power cord (1) and vacuum hose (4).

(p) Connect light bar power cord (2) and camera power cord (1).

4-18. VERTICAL CAMERA AND MOUNTING ASSEMBLY. - Continued

b. Replace. - Continued

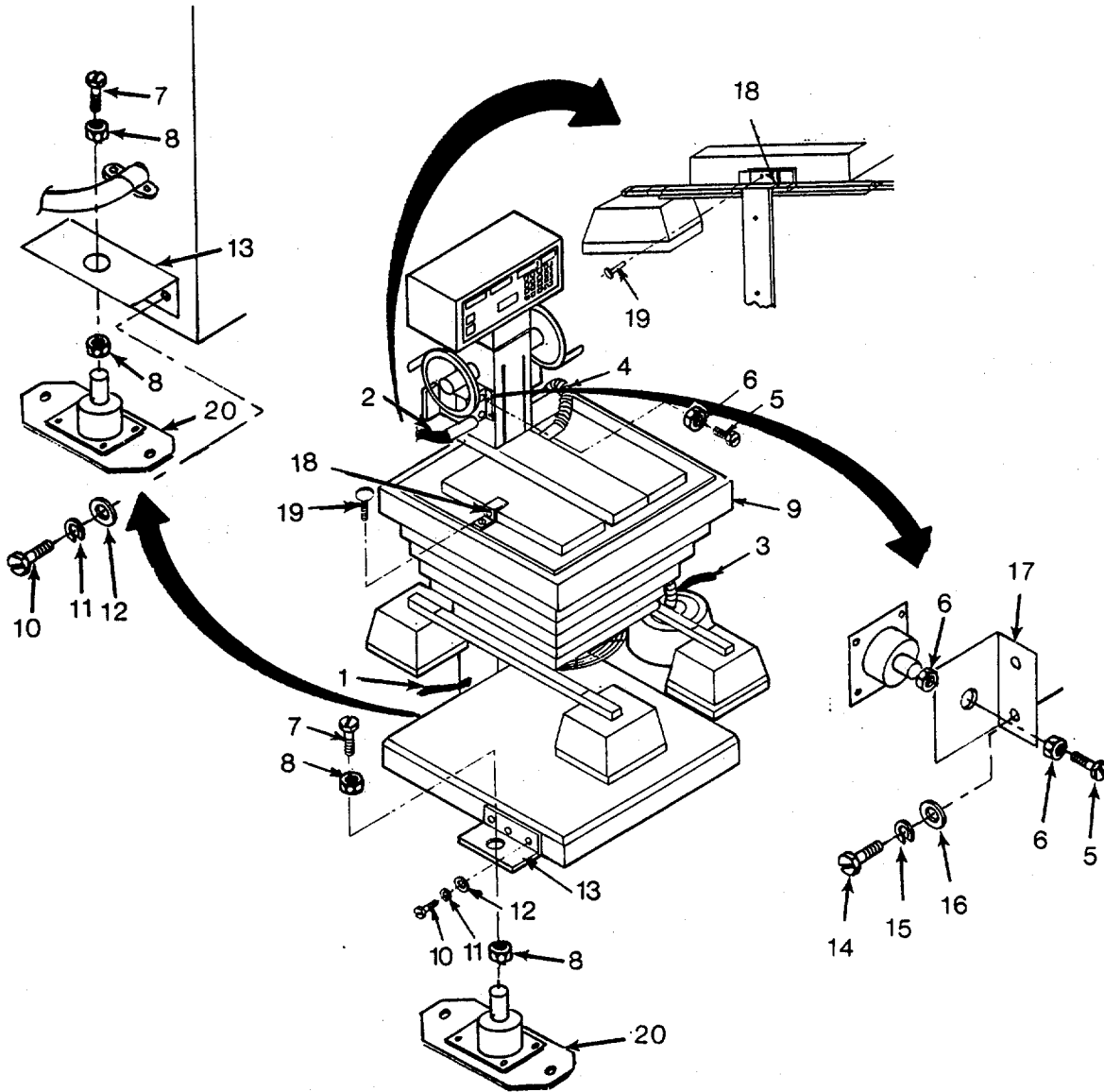


Figure 4-10. Vertical Camera and Mounting Assembly

4-18. VERTICAL CAMERA AND MOUNTING ASSEMBLY. - Continued

b. Replace. - Continued

(2) Vertical Camera Vacuum Pump. (See Figure 4-11.)

(a) Disconnect vacuum pump power cord (1).

(b) Disconnect vacuum hose (2).

(c) Remove bolts (3), lockwashers (4), flat washers (5), and vacuum pump (6).

(d) Remove screws (7), lockwashers (8), flat washers (9), and brackets (10) from vacuum pump (6).

(e) Install mounting brackets (10) on replacement vacuum pump (6) and secure with flat washers (9), lockwashers (8), and screws (7).

(f) Position replacement vacuum pump (6) and secure with flat washers (5), lockwashers (4), and bolts (3).

(g) Connect vacuum hose (2) and vacuum power cord (1).

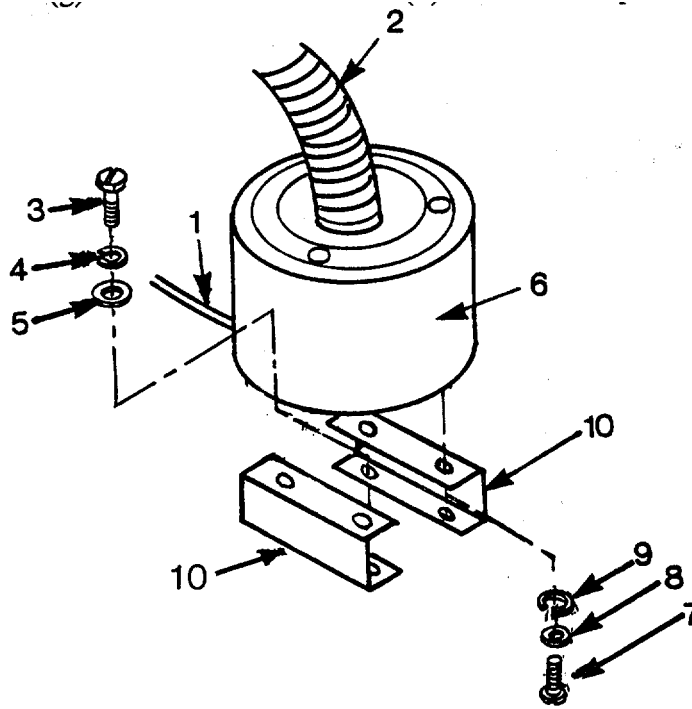


Figure 4-11. Vertical Camera Vacuum Pump Assembly

## 4-19. SAFELIGHT ASSEMBLY.

This task covers: a. Inspect b. Replace

## INITIAL SETUP

## Tools

General mechanics automotive tool kit, Hand blind rivet

## Materials

None

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

- (1) Check light fixture's fluorescent tubes for discoloration, inadequate illumination, and failure.
- (2) Check tube socket for security and damage.
- (3) Check light fixture for damage and incorrect attachment.

b. Replace. (See Figure 4-12.)**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) Place lights circuit breaker on power distribution panel in OFF position.
- (2) Rotate light fixture assembly lamp (1) 900 and remove.
- (3) Rotate lock (2) 900 and remove cover (3).
- (4) Remove wire nuts (4).



4-19. **SAFELIGHT ASSEMBLY.** - Continuedb. Replace. - Continued**NOTE**

Have another person hold fixture while performing the next step to prevent fixture from falling.

- (5) Remove rivets (5) by drilling or chiseling off heads.
- (6) Remove light fixture (6).
- (7) Secure light fixture (6) to shelter ceiling with rivets (5).
- (8) Connect wire nuts (4).
- (9) Install cover (3) and rotate lock (2) 90° to secure.
- (10) Install lamp (1) on light fixture assembly (6).
- (11) Place lights circuit breaker on power distribution panel in ON position.

4-19. SAFELIGHT ASSEMBLY. - Continued

b. Replace. - Continued

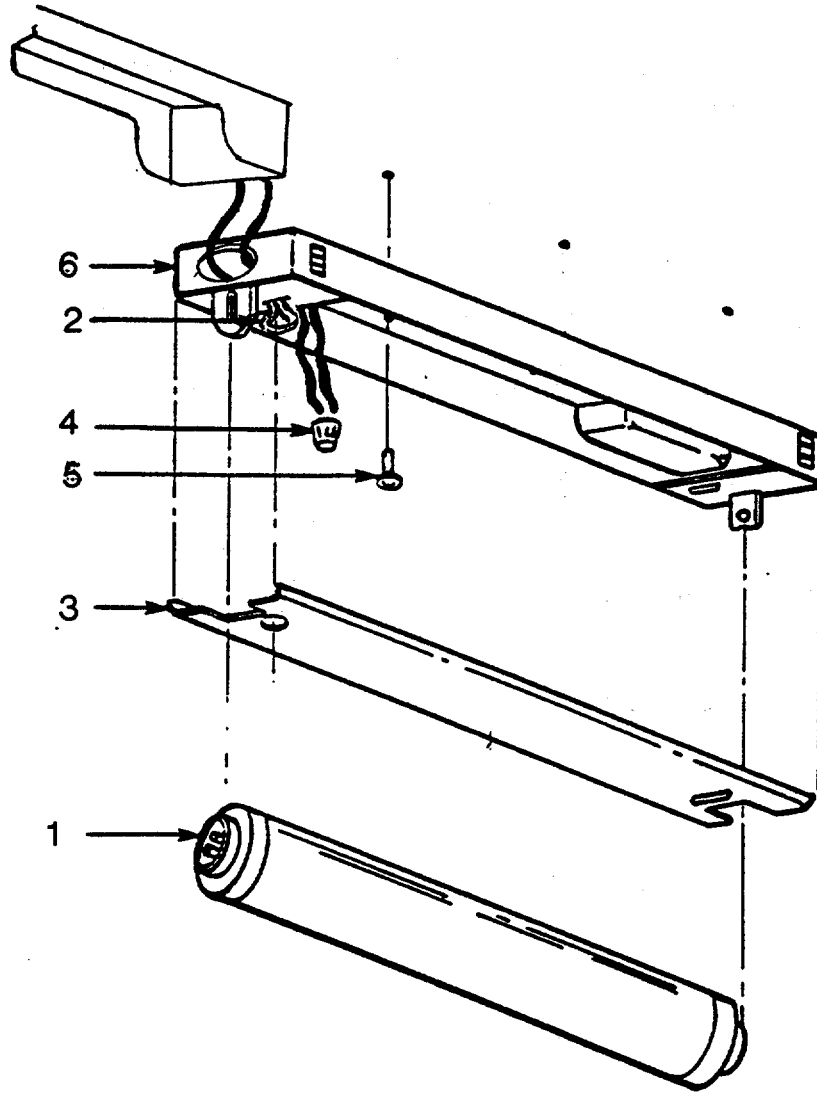


Figure 4-12. Safelight Assembly

**4-20. FILM DRYER AND MOUNTING ASSEMBLY.**

This task covers: a. Inspect b. Replace

**INITIAL SETUP****Tools**

General mechanics automotive tool kit, Hand blind rivet

**Materials**

None

**a. Inspect.** (See Figure 4-13.)

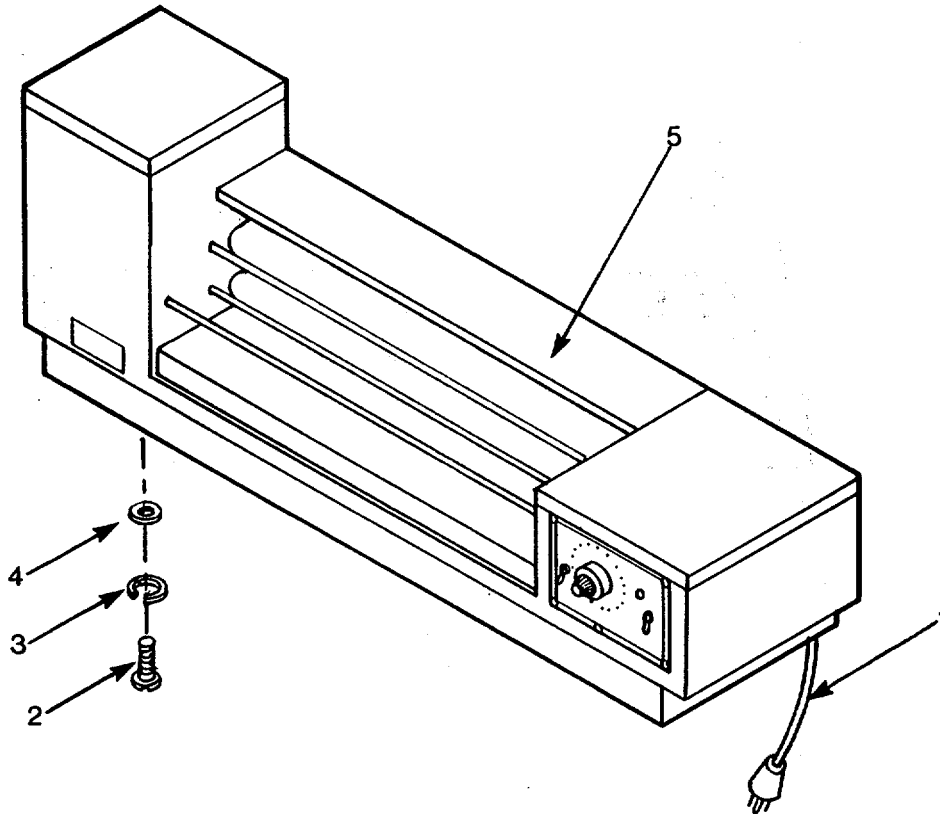
- (1) Check darkroom film dryer for security and general condition.
- (2) Check dryer shelf for security and general condition.

**b. Replace.** (See Figure 4-13.)

- (1) Disconnect film dryer power cord (1).
- (2) Remove screws (2), lockwashers (3), and flat washers (4) securing dryer to shelf.
- (3) Remove dryer (5).

4-20. **FILM DRYER AND MOUNTING ASSEMBLY.** - Continued

b. Replace. - Continued



**Figure 4-13. Film Dryer Assembly**

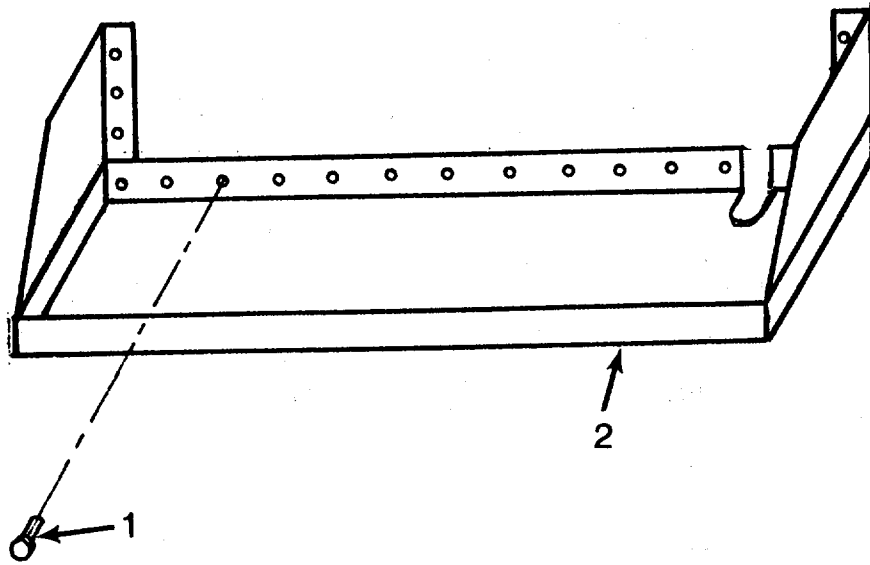
**CAUTION**

Have another person hold shelf in place when performing next step to prevent shelf from falling and being damaged.

- (5) Remove dryer shelf rivets (1, Figure 4-14) by drilling or chiseling off heads.
- (6) Remove shelf (2).

4-20. **FILM DRYER AND MOUNTING ASSEMBLY.** - Continued

b. Replace. - Continued



**Figure 4-14. Film Dryer Assembly Shelf**

- (7) Install and secure film dryer shelf (2) with rivets (1).
- (8) Position dryer (5, Figure 4-13) and secure with flat washers (4), lockwashers (3), and screws (2).
- (9) Connect power cord (1).

**4-21. SUPPLY STORAGE CABINET ASSEMBLY.**

This task covers: a. Inspect b. Replace

**INITIAL****Tools**

General mechanics automotive tool kit, Hand blind rivet

**Materials**

None

a. Inspect. (See Figure 4-16.)

**NOTE**

To gain access to storage cabinet, eyewash stations must be moved.

mounting.

- (1) Inspect storage cabinet on curbside of darkroom for dents, cracks, and security of
- (2) Inspect storage cabinet welding for breaks or separation of seams.
- (3) Inspect drawers for ease of movement and ability to close completely.
- (4) Inspect drawer handles for security of installation.
- (5) Inspect drawer fasteners for ease of operation and ability to secure drawers.
- (6) Inspect door handle assembly for ease of operation and ability to secure doors.

b. Repair. (See Figure 4-15.)

- (1) Remove door handle assembly (1) by removing nuts (2) and retainer plate (3).
- (2) Remove rods (4) and backing plate (5).

## 4-21. SUPPLY STORAGE CABINET ASSEMBLY. - Continued

b. Repair. (See Figure 4-15.)

- (3) Remove bolts (6), star washers (7), and door handle assembly (1).
- (4) Install replacement door handle assembly (1) and secure with star washers (7) and bolts (6).
- (5) Install backing plate (5), rods (4), retainer plate (3) and secure with nuts (2).

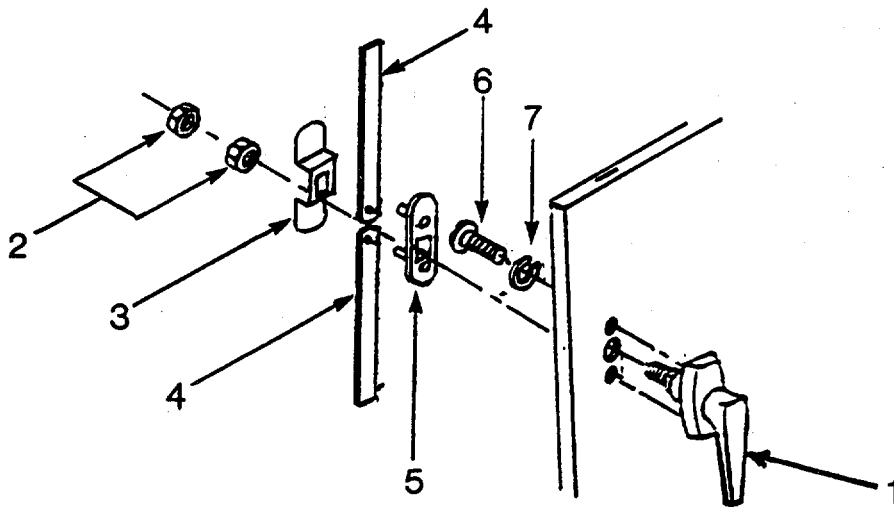
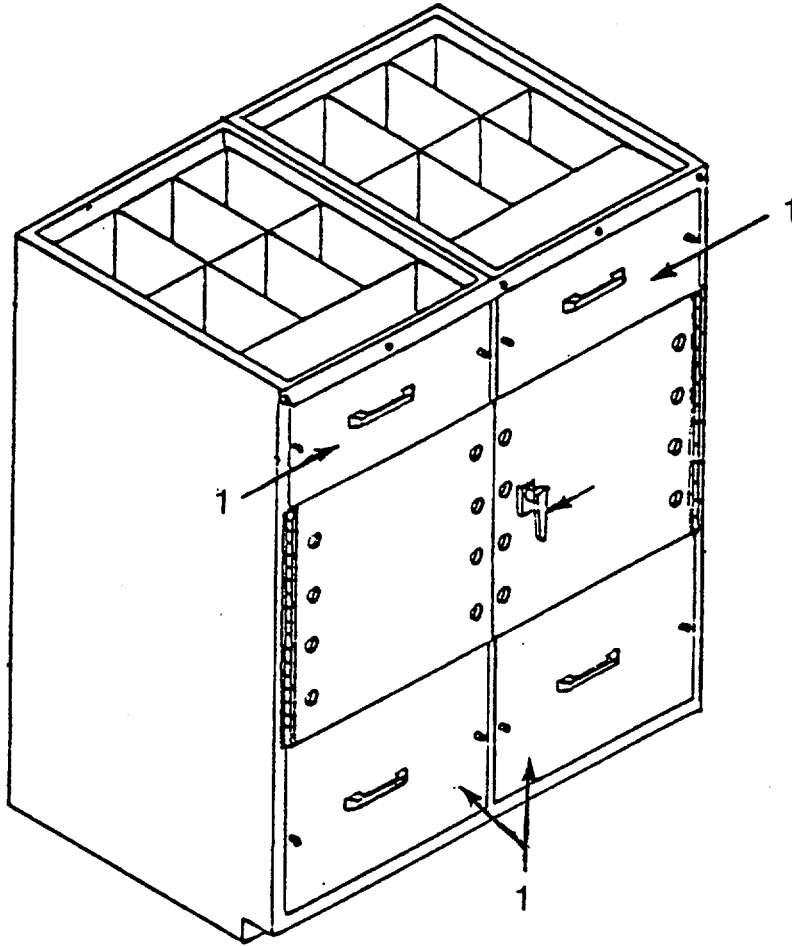


Figure 4-15. Door Handle Assembly

4-21. **SUPPLY STORAGE CABINET ASSEMBLY.** - Continued

b. Repair. (See Figure 4-15.)

(6) Remove storage cabinet drawers (1, Figure 4-16.)



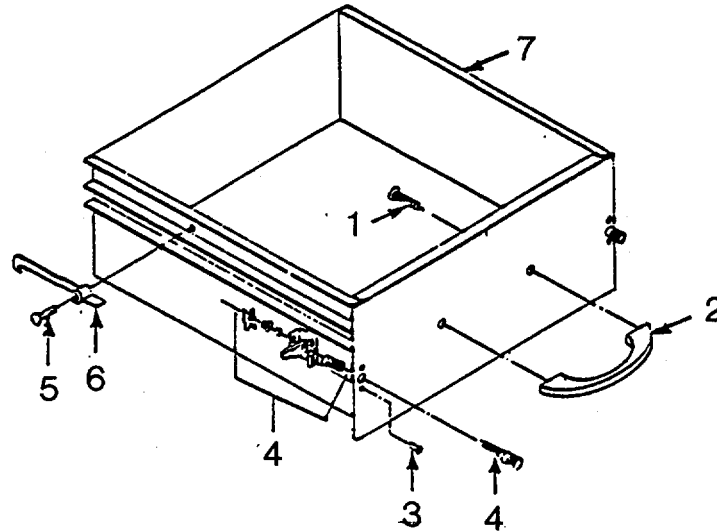
**Figure 4-16. Supply Storage Cabinet Assembly**

- (7) Remove handle screw (1), (Figure 4-17.) and handle (2).
- (8) Remove rivets (3) and fastener assembly (4).
- (9) Remove rivets (5) and latch (6).
- (10) Remove drawer dents and straighten panels and runners.



4-21. **SUPPLY STORAGE CABINET ASSEMBLY.** - Continued

b. Repair. - Continued



**Figure 4-17. Supply Storage Cabinet Drawer**

- (11) Install latch (6) and secure with rivets (5).
- (12) Install fastener assembly (4) and secure with rivets (3).
- (13) Install handle (2) and secure with screws (1).
- (14) Install storage cabinet drawers (7).

4-22. **RUB-UP BOARD AND MOUNTING ASSEMBLY.**

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

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials

Dry cleaning solvent (17, Appendix E)  
 Adhesive (2, Appendix E)

## 4-22. RUB-UP BOARD AND MOUNTING ASSEMBLY. - Continued

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

(1) Remove rub-up board (1). Inspect strap assembly webbing (2) for wear, frayed sewing, and decayed fabric.

(2) Inspect fastener loops (3) for secure mounting to wall.

(3) Remove board assembly. Inspect for burrs, sharp edges, and signs of rust or excessive dirt. Check for dents or cracks.

(4) Inspect rubber pad for damage and security.

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

(1) Remove fastener loop screws (4).

(2) Remove fastener loops (3) and strap assembly (2).

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

(4) Install and secure fastener loops (3) to wall partition with screws (4).

(5) Install and secure rub-up storage board (1) to wall with strap assembly (2).

c. Repair. (See Figure 4-19.)

(1) Remove dents in rub-up board (2) with hammer.

(2) Remove burrs from rub-up board (2).

4-22. RUB-UP BOARD AND MOUNTING ASSEMBLY. - Continued

c. Repair. - Continued

- (3) If damaged, replace rubber pad.
- (4) Remove rubber pad (1) from rub-up board (2) with putty knife.

**WARNING**

DEATH or serious injury could result by repeated and/or prolonged breathing and/or liquid skin contact of dry cleaning solvent P-D680. 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 adhesive from rub-up board. Use drycleaning solvent (Appendix E, item 17.)

**NOTE**

Allow the cementing compound sufficient time to dry (at least 48 Hours) before cleaning the rub-up board assembly.

- (6) Apply adhesive (Appendix E, item 2) to rubber pad (1).
- (7) Position rubber pad (1) on rub-up board (2).

4-22. RUB-UP BOARD AND MOUNTING ASSEMBLY. - Continued

c. Repair. - Continued

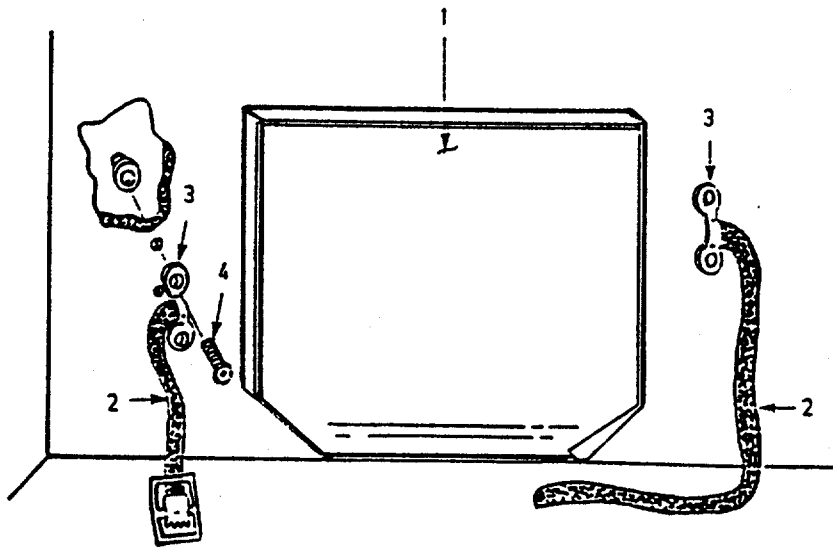


Figure 4-18. Rub-Up Board Assembly

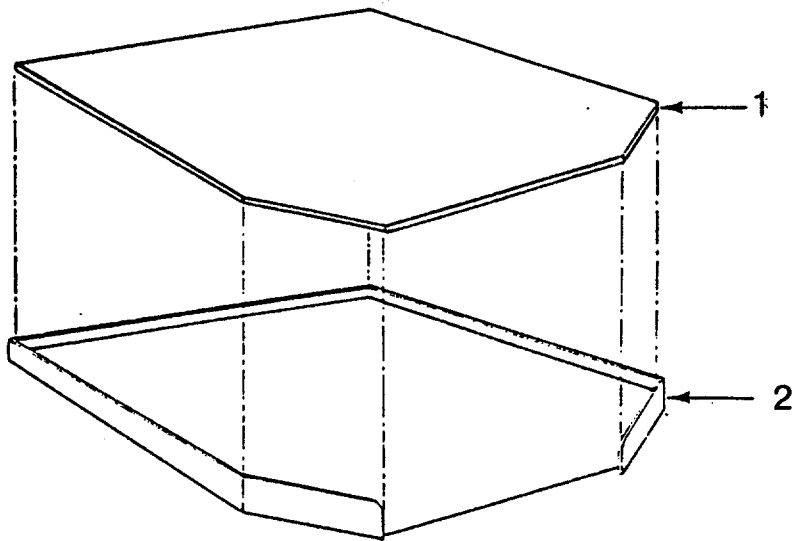


Figure 4-19. Rub-up Board

**4-23. WATER SUPPLY CABINET ASSEMBLY.**

This task covers: a. Inspect                      b. Repair

**INITIAL SETUP****Tools**

General mechanics automotive tool kit

**Materials**

None

**a. Inspect.**

- (1) Inspect water supply cabinet on curbside of darkroom 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. (See Figure 4-20.)**

- (1) Remove water supply cabinet dents and straighten door and panels.
- (2) Repair breaks and separation of seams by minor welding.
- (3) Replace door handle assembly.
  - (a) Remove door handle assembly (1) by removing nuts (2) and retainer plate (3).
  - (b) Remove rods (4) and backing plate (5).
  - (c) Remove bolts (6), star washers (7), and door handle assembly (1).
  - (d) Install replacement door handle assembly (1) and secure with star washers (7) and bolts (6).
  - (e) Install backing plate (5), rods (4), retainer plate (3) and secure with nuts (2).

4-23. **WATER SUPPLY CABINET ASSEMBLY.** - Continued

b. Repair. - Continued

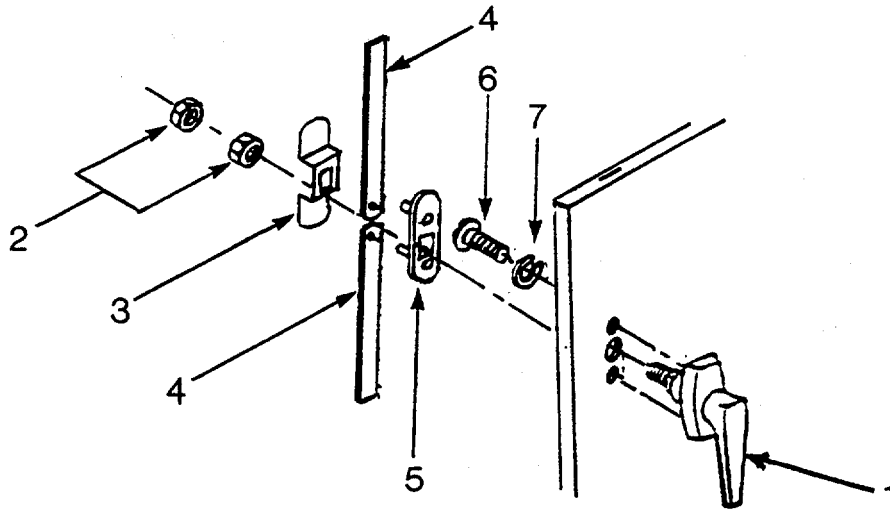


Figure 4-20. Water Supply Cabinet Assembly Handle

4-24 **WATER TANK AND MOUNTING ASSEMBLY.**

This task covers: a. Inspect b. Repair

INITIAL SETUP

Tools

General mechanics automotive tool kit, Hand blind rivet

Materials

RTV Sealant (4, Appendix E)

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

- (1) Inspect water tank for breaks or separation of seams.
- (2) Inspect for security of mounting.
- (3) Inspect water pump for completeness, security, electrical connection, water level, and proper operation.

4-24. **WATER TANK AND MOUNTING ASSEMBLY.** - Continueda. Inspect. - Continued

(4) Inspect water heater for damage and security of mounting.

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

b. Repair.

(1) Replace pump. (See Figure 4-21.)

(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).

(6). (f) Wrap pipe threads on replacement pump (5) with thread sealing tape (57, Appendix E) and install fittings

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

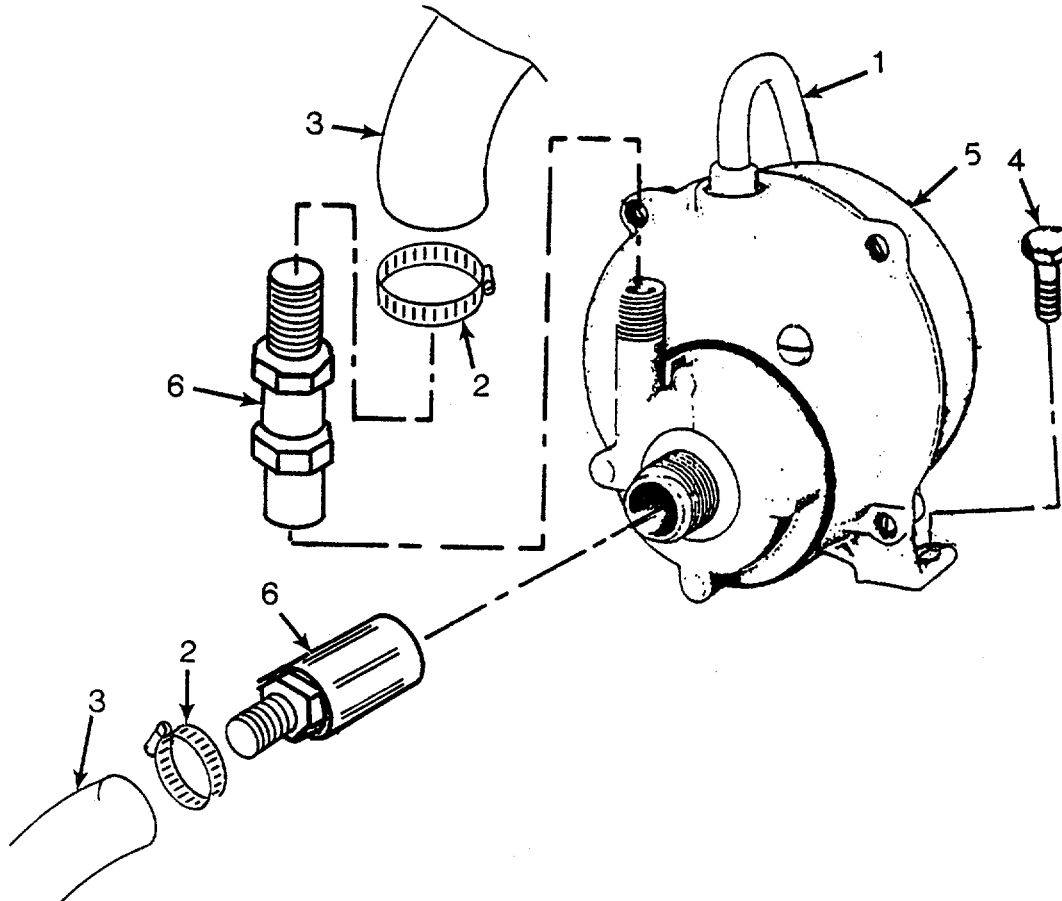
(h) Install tubing (3) and secure with clamps (2).

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

(j) Test operate water pump,

4-24. **WATER TANK AND MOUNTING ASSEMBLY.** - Continued

b. Repair. - Continued



**Figure 4-21. Water Pump**

(2) Replace water tank and water heater assembly. (See Figure 4-22.)

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

(b) Unplug water heater cord (1).

(c) Remove clamps (2) and tubing (3) from water tank (4).



4-24. **WATER TANK AND MOUNTING ASSEMBLY.** - Continuedb. Repair. - Continued**CAUTION**

RTV is used to secure drain petcock (10) to drain hole in shelter. Loosen RTV around the drain petcock (10) before removing water tank (4) to prevent damage to drain petcock (10).

(d) Remove bolts (5), lockwashers (6), flat washers (7), and water tank (4).

(e) Remove water heater (8), fittings (9) and drain petcock (10).

**NOTE**

If necessary to replace water heater, complete steps (f) - (m).

(f) Remove screws (11) and cover (12).

(g) Tag wires (13). Remove screws (14) and disconnect wires (13).

(h) Remove nut (15) and conduit clamp (16).

(i) Loosen screws (17) and remove conduit clamp (16) from wires (13).

(j) Install clamp (16) on replacement water heater (8) by securing nut (15).

(k) Install wires (13) through conduit clamp (16) and tighten screws (17).

(l) Connect wires (13) and secure with screws (14). Remove tags.

(m) Install cover (12) and secure with screws (11).

(n) Apply RTV sealant (4, Appendix E) to pipe threads of drain petcock (10), fittings (9) and water heater (8) and install in replacement water tank (4).

(o) Install water tank (4) and secure with flat washers (7), lockwashers (6) and bolts (5).

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

4-24. **WATER TANK AND MOUNTING ASSEMBLY.** - Continued

b. Repair. - Continued

(q) Plug water heater cord (1) to proper receptacle.

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

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

4-24. WATER TANK AND MOUNTING ASSEMBLY. - Continued

b. Repair. - Continued

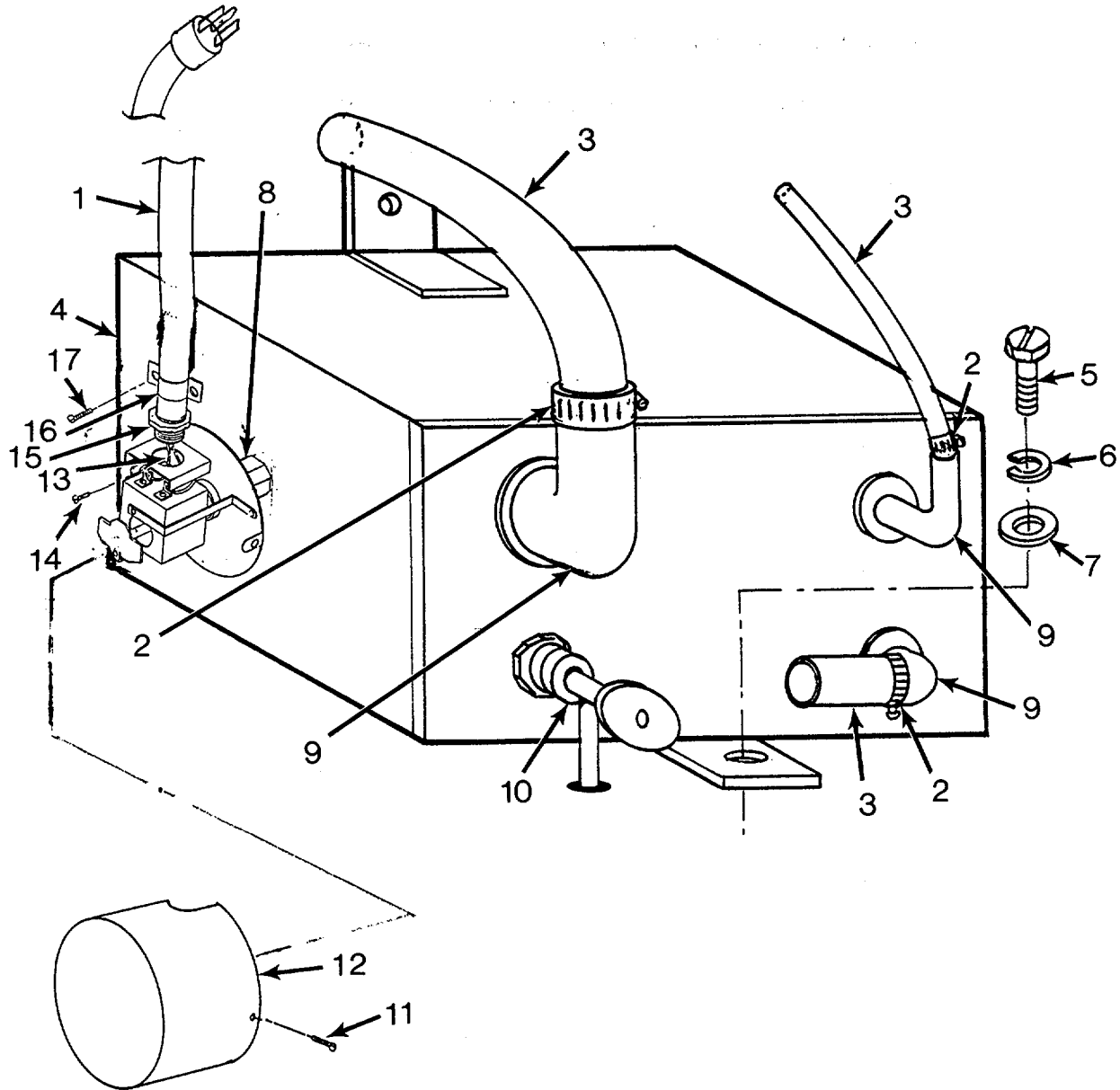


Figure 4-22. Water Tank and Water Heater Assembly

4-25. **COUNTERTOP AND SINK ASSEMBLY.**

This task covers:      a. Inspect              b. Repair

**INITIAL SETUP****Tools**

General mechanics automotive tool kit, Hand blind riveter

**Materials**

RTV sealant (4, Appendix E)

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

- (1) Inspect countertop, sink, and shield on curbside of darkroom for dents, deep scratches, security of mounting.
- (2) Inspect countertop and shield of sink faucet for proper operation and security of mounting.
- (3) Inspect sink faucet for proper operation.

**b. Repair.**

- (1) Replace sink assembly. (See Figure 4-23.)
  - (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 (4, Appendix E) to lip of replacement sink (8).
  - (e) Install sink (8), spacer blocks (7), and clips (6).
  - (f) Apply RTV Sealant (4, 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 operate sink for leaks.

## 4-25. COUNTERTOP AND SINK ASSEMBLY. - Continued

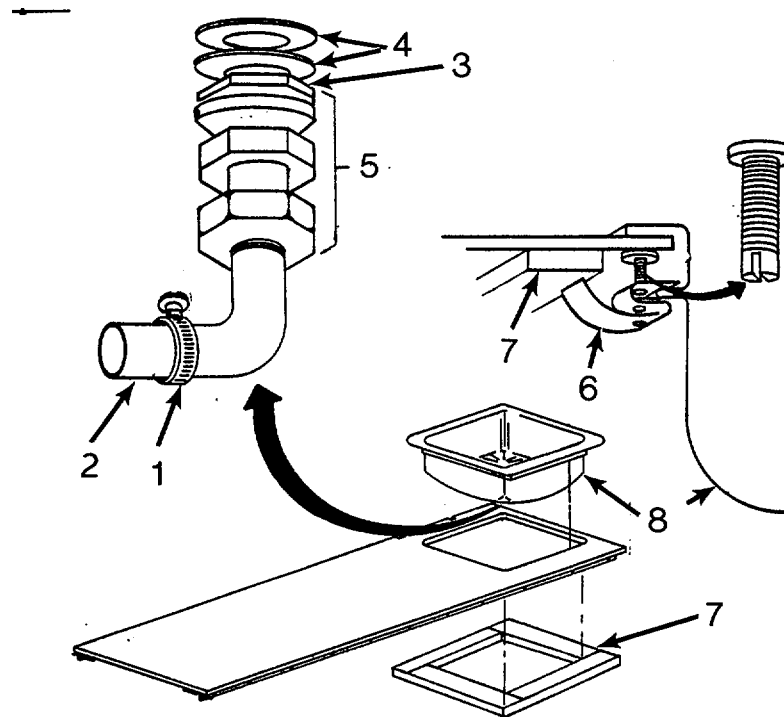
b. Repair. - Continued

Figure 4-23. Countertop and Sink Assembly

(2) Replace faucet. (See Figure 4-24.)

(a) Remove screws (1) and faucet (2).

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

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

(d) Apply RTV sealant (4, 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.

4-25. COUNTERTOP AND SINK ASSEMBLY. - Continued

b. Repair. - Continued

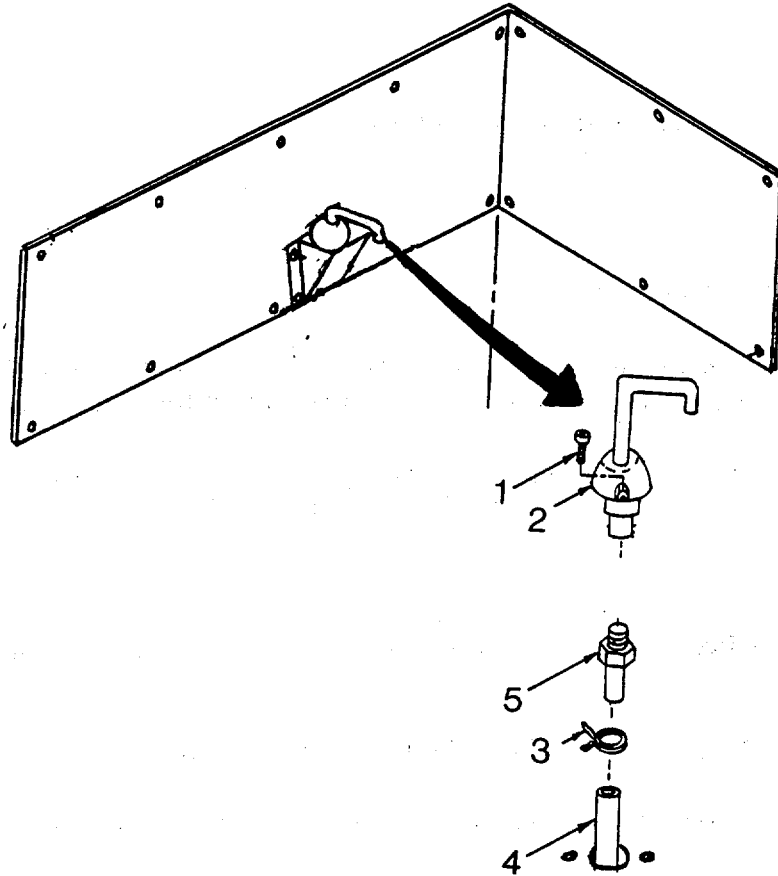


Figure 4-24. Sink Faucet

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

(4) Repair of sink is by replacement.

(5) Repair of faucet is by replacement.

(6) Remove shield dents, scratches, and corrosion.

4-26. **VERTICAL VACUUM FRAME ASSEMBLY.**

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

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit

## Materials

None

a. Inspect. (See Figure 4-25.)

(1) Check vacuum frame assembly on countertop of darkroom for security of mounting and proper operation. Refer to TM 5-3610-301-12&P for proper operation.

(2) Check water supply cabinet vacuum pump for security of mounting and proper operation. Refer to TM 5-3610-301-12&P for proper operation.

b. Replace.

(1) Disconnect vacuum frame assembly power cord (1, Figure 4-25) from receptacle.

(2) Remove screws (2), lockwashers (3), and cable clamps (4).

(3) Disconnect vacuum pump power cord (5) from vacuum frame.

(4) Remove supply storage cabinet screws (6), lockwashers (7), and cable clamps (8)

(5) Remove vacuum hose (9).

(6) Disconnect vacuum hose (9) from pump and remove from cabinet.

(7) Remove bolts (1, Figure 4-26), flat washers (2), rubber washers (3), flat washers (4), lockwashers (5), and nuts (6).

(8) Tag and disconnect water supply cabinet vacuum pump power cord (7) from pump. Remove from cabinet.

4-26. VERTICAL VACUUM FRAME ASSEMBLY. - Continued

b. Replace. - Continued

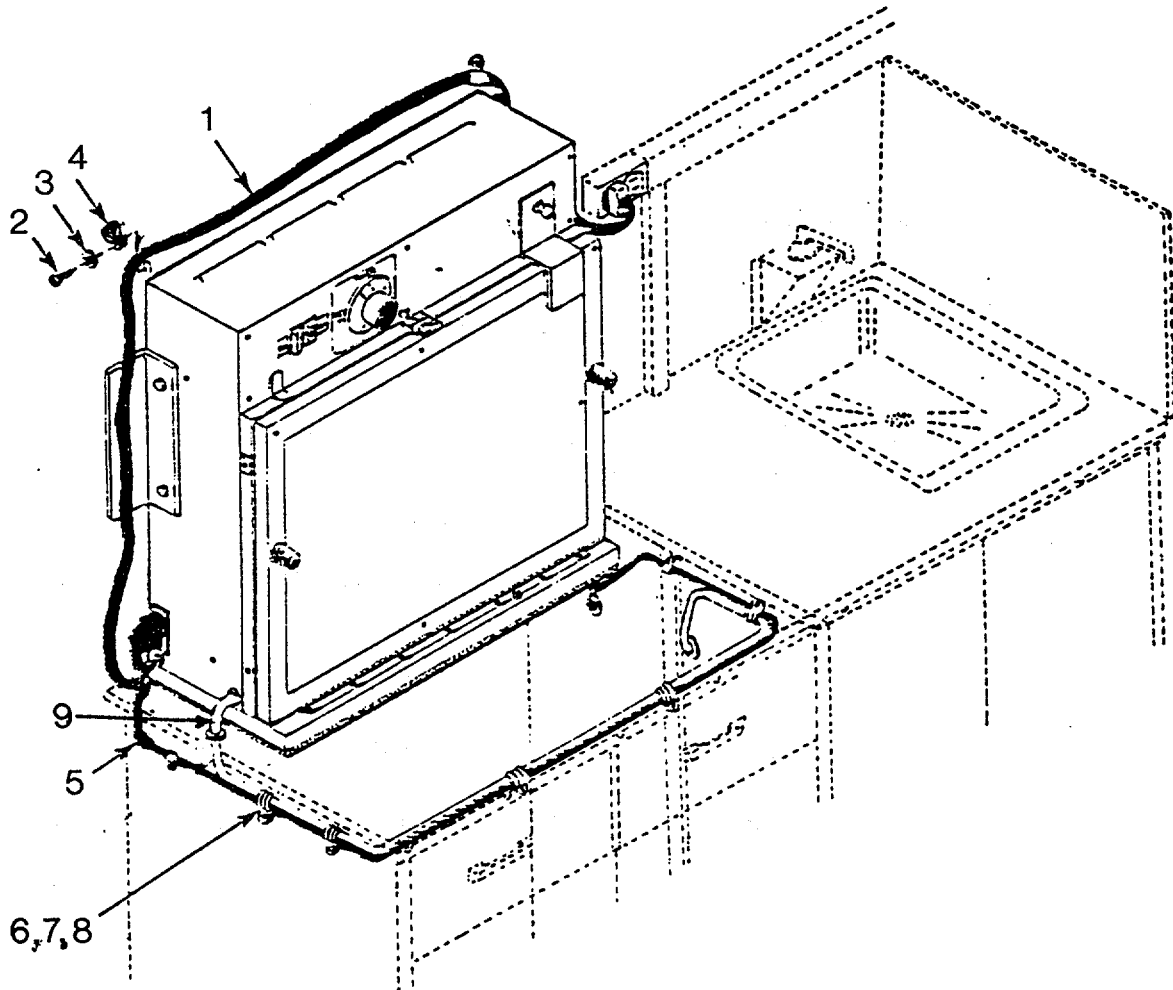


Figure 4-25. Vertical Vacuum Frame Assembly

- (9) Remove vacuum pump (8).
- (10) Remove bolts (9), lockwashers (10), and flat washers (11).
- (11) Remove shelf (12).



4-26. VERTICAL VACUUM FRAME ASSEMBLY. - Continued

b. Replace. - Continued

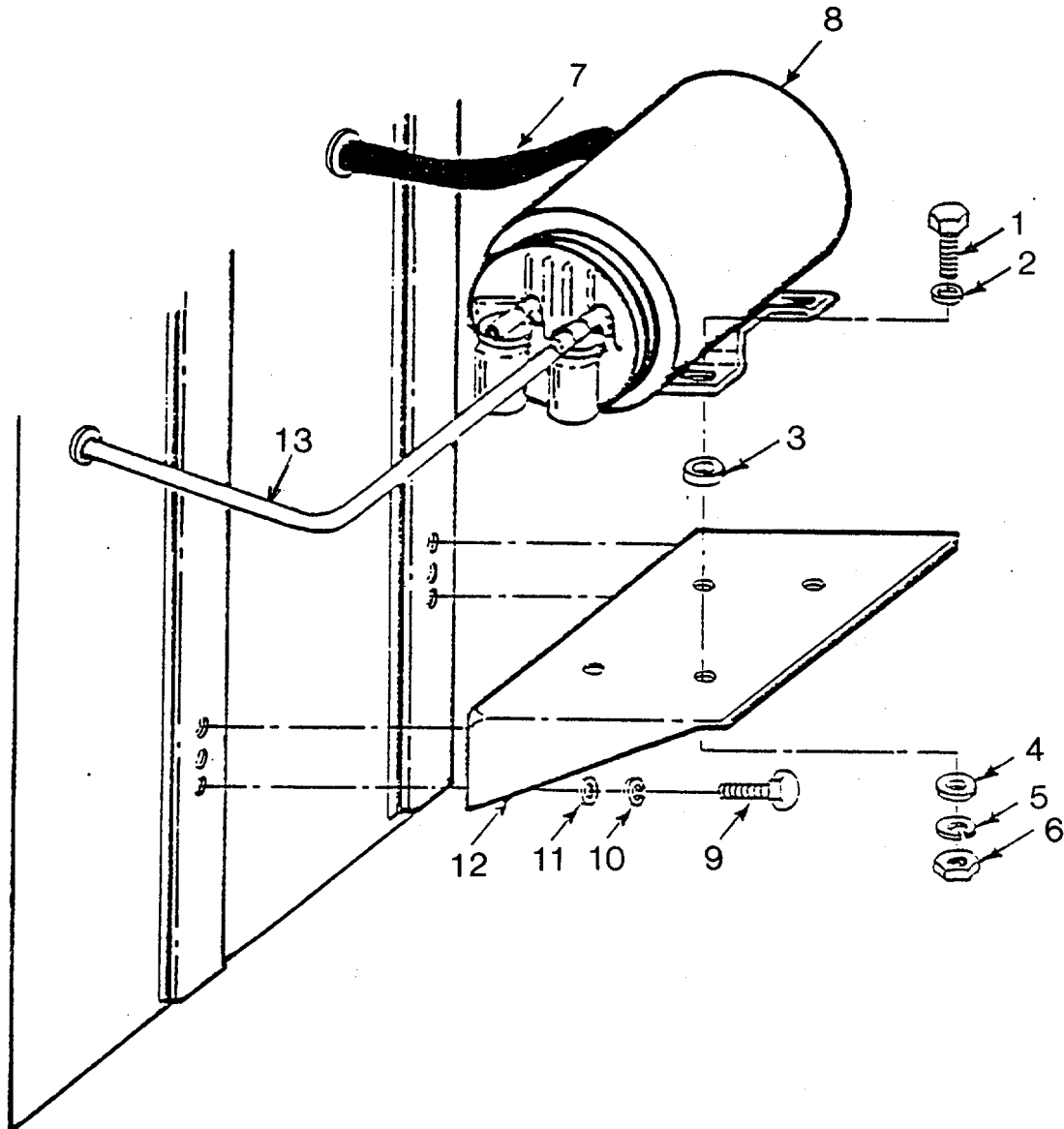


Figure 4-26. Vertical Vacuum Frame Assembly Pump

4-26. **VERTICAL VACUUM FRAME ASSEMBLY.** - Continuedb. Replace. - Continued

(12) Remove vacuum frame bolts (1, Figure 4-27) lockwashers (2) and flat washers (3).

(13) Remove vacuum frame (4) from counter top.

(14) Remove rubber pad (5).

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

(16) Remove mounting bracket (9).

(17) Remove thumbscrews (10), lockwasher (11), flat washer (12), and shipping bracket with rubber pad (13). Remove rubber pad from shipping bracket only if necessary.

(18) Install shipping bracket with rubber pad (13) and secure with flat washers (12), lockwashers (11), and thumbscrews (10).

(19) Install vacuum frame mounting brackets (9) and secure with bolts (6), lockwashers (7), and flat washers (8).

(20) Install rubber pad (5) on bottom of vacuum frame.

(21) Install vacuum frame (4) on countertop.

(22) Install bolts (1), lockwashers (2), and flat washers (3).

(23) Install water supply cabinet shelf (12, Figure 4-26) and secure to cabinet with bolts (9), lockwashers (10), and flat washers (11).

(24) Install supply storage cabinet vacuum pump power cord (7), vacuum hose (13), and water supply cabinet vacuum pump (8).

4-26. VERTICAL VACUUM FRAME ASSEMBLY. - Continued

b. Replace. - Continued

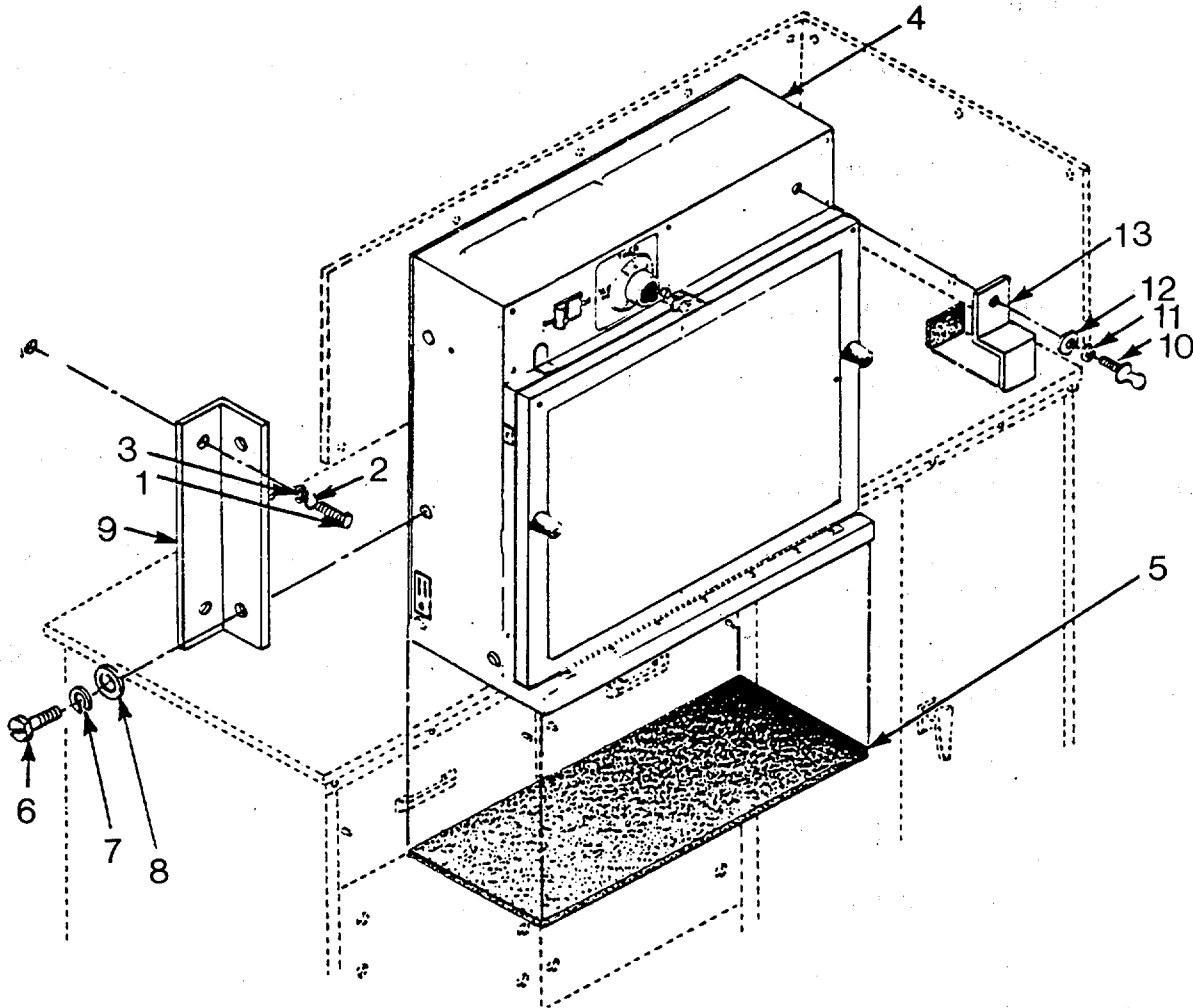


Figure 4-27. Vertical Vacuum Frame Assembly Frame

(25) Install water supply cabinet bolts (1), flat washers (2), rubber washers (3), flat washers (4), lockwashers (5), and nuts (6).

(26) Install cable clamps (8, Figure 4-25), lockwashers (7), and screws (6).

4-26. **VERTICAL VACUUM FRAME ASSEMBLY.** - Continuedb. Replace. - Continued.

(27) Connect vacuum hose (9) to vacuum frame assembly.

(28) Connect vacuum pump power cord (5) to vacuum frame assembly.

(29) Connect vacuum frame power cord (1) to proper receptacle.

(30) Install cable clamps (4), lockwashers (3), and screws (2) to vacuum frame assembly.

4-27. **VIEWING LIGHT ASSEMBLY.**

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

## INITIAL SETUP

## Tools

Electrical equipment tool kit

## Materials

None

a. Inspect.

(1) Check front shelter wall viewing light for security of mounting and for cracks or breaks.

(2) Check switch and lights for proper operation.

b. Replace.

(1) Disconnect viewing light power cord (1, Figure 4-28) from wall receptacle.

(2) Remove cable clamp screws (2), lockwashers (3), and cable clamps (4).

(3) Remove viewing light bolts (5), lockwashers (6), and flat washers (7), and remove viewing light assembly from wall.

4-26. **VERTICAL VACUUM FRAME ASSEMBLY.** - Continued

b. Replace. - Continued

- (4) Remove viewing light thumbscrew (8) and shipping bracket (9).
- (5) Remove viewing light thumbscrew (10), chain (11), and plug (12) if necessary.

**NOTE**

The following items are removed only if necessary for repair.

- (6) Remove mounting strip screws (13) if necessary.
- (7) Remove mounting strips (14) if necessary.
- (8) Lift front viewing cover (15) away from viewing light.
- (9) Press filter (1, Figure 4-29) ends slightly and remove.
- (10) Rotate fluorescent tubes (2) 90° and remove from tube sockets.

4-27. **VIEWING LIGHT ASSEMBLY.** - Continued

b. Replace. - Continued

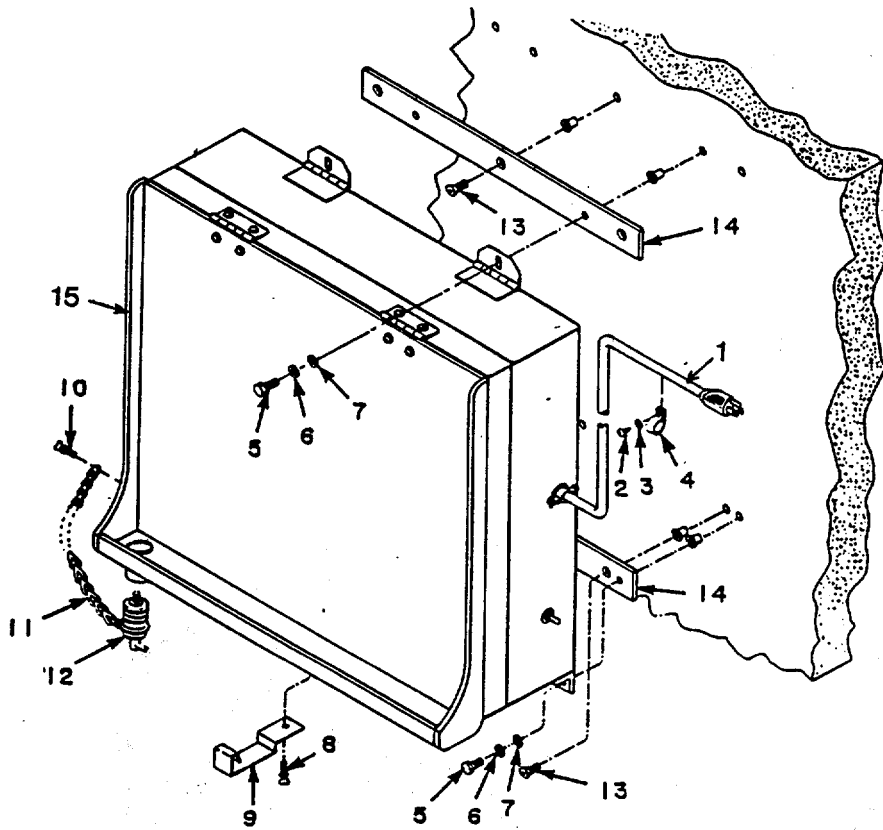


Figure 4-28. Viewing Light Assembly

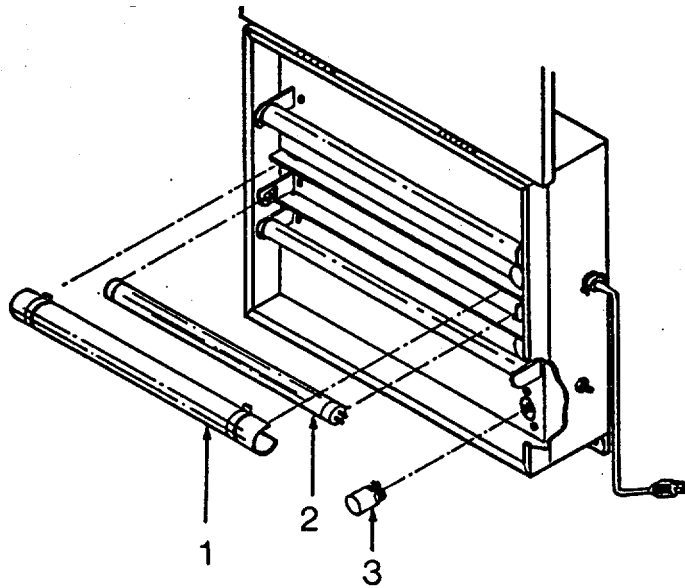


Figure 4-29. Viewing Light Assembly Bulbs

4-27. **VIEWING LIGHT ASSEMBLY.** - Continuedb. Replace. - Continued

- (11) Rotate starters (3) counterclockwise and remove from socket.
- (12) Remove screws (1, Figure 4-30).
- (13) Remove back cover (2).
- (14) Remove wire nuts (3).

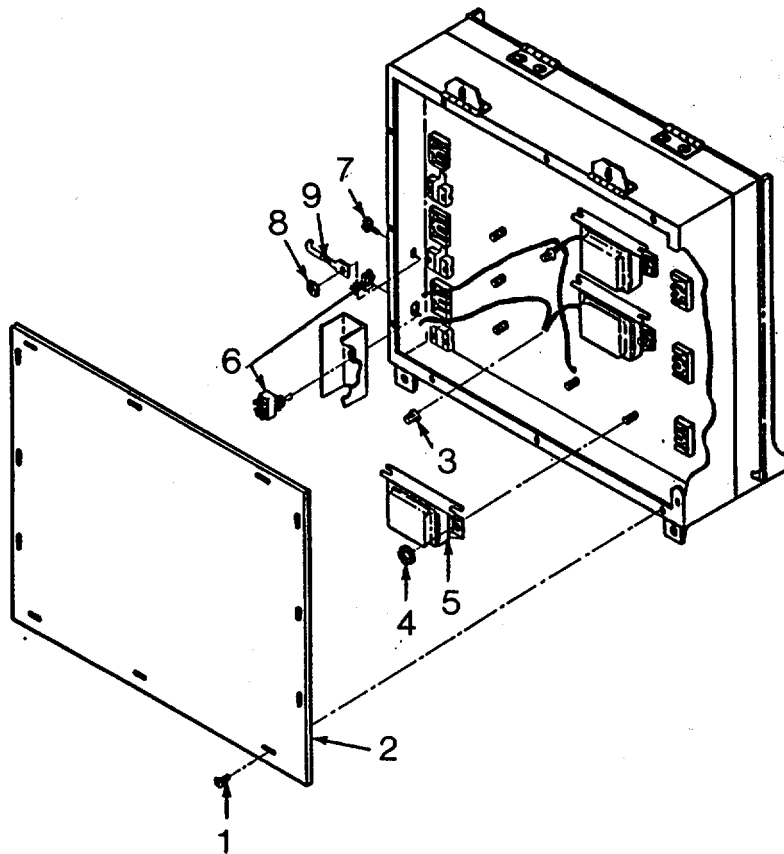


Figure 4-30. Viewing Light, Rear View

4-27. **VIEWING LIGHT ASSEMBLY.** - Continuedb. Replace. - Continued

- (15) Remove nuts (4).
- (16) Remove ballast (5).
- (17) Remove nut and switch (6).
- (18) Remove screw (7) and nut (8). Tag and disconnect wires.
- (19) Remove power cord (9) if necessary.
- (20) Install viewing light power cord (9).
- (21) Install viewing light screw (7) and nut (8). Connect wires and remove tags.
- (22) Install viewing light switch and nut (6).
- (23) Install viewing light ballast (5).
- (24) Install viewing light nuts (4).
- (25) Install viewing light wire nuts (3).
- (26) Install viewing light back cover (2) and screws (1).
- (27) Install starters (3, Figure 4-29) in socket and rotate clockwise.
- (28) Install fluorescent tubes (2) in tube socket and rotate 90°.
- (29) Press filter (1) ends slightly and install.
- (30) Close front viewing cover (15, Figure 4-28).
- (31) Install mounting strips (14) and screws (13) on wall.
- (32) Install bolts (5), lockwashers (6), and flat washers (7) and secure viewing light (1) to wall.
- (33) Install viewing light screws (2), lockwashers (3), and cable clamps (4).
- (34) Connect power cord to proper receptacle.



4-27. **VIEWING LIGHT ASSEMBLY.** - Continuedb. Replace. - Continued (See Figure 4-29.)

(35) Install shipping bracket (9) and thumbscrew (8).

(36) Install plug (12), chain (11), and thumbscrew (10).

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

Repair of the viewing light assembly consists of replacement of parts.

4-28. **PIN-POINT LIGHT ASSEMBLY.**

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

## INITIAL SETUP

## Tools

General mechanics automotive tool kit

## Materials

None

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

(1) Check darkroom pin-point light assembly (1) for security of mounting.

(2) Check darkroom timer (2) for security of mounting, broken or missing parts.

(3) Inspect power cord (3) for damage.

(4) Check light for proper operation.

(5) Inspect timer (2) power cord (4) for damage.

(6) Inspect timer control and intensity control for proper operation.

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

(1) Disconnect power cord (4) from wall receptacle.

(2) Remove screws (5) and cable clamps (6).

4-28. **PIN-POINT LIGHT ASSEMBLY.** - Continued

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

- (3) Remove bolts (7), lockwashers (8), and flat washers (9).
- (4) Remove nuts (10), lockwashers (11), and mounting bracket (12) from pinpoint light (1).
- (5) Remove screws (13), lockwashers (14), and flat washers (15).
- (6) Remove timer (2).
- (7) Install timer (2) and secure with screws (13), lockwashers (14), flat washers (15).
- (8) Install nuts (10), lockwashers (11), and mounting bracket (12) to pin-point light (1).
- (9) Install screws (7), lockwasher (8), and flat washer (9).
- (10) Install screws (5) and cable clamps (6).
- (11) Connect power cord (4) to wall receptacle.

4-28. PIN-POINT LIGHT ASSEMBLY. - Continued

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

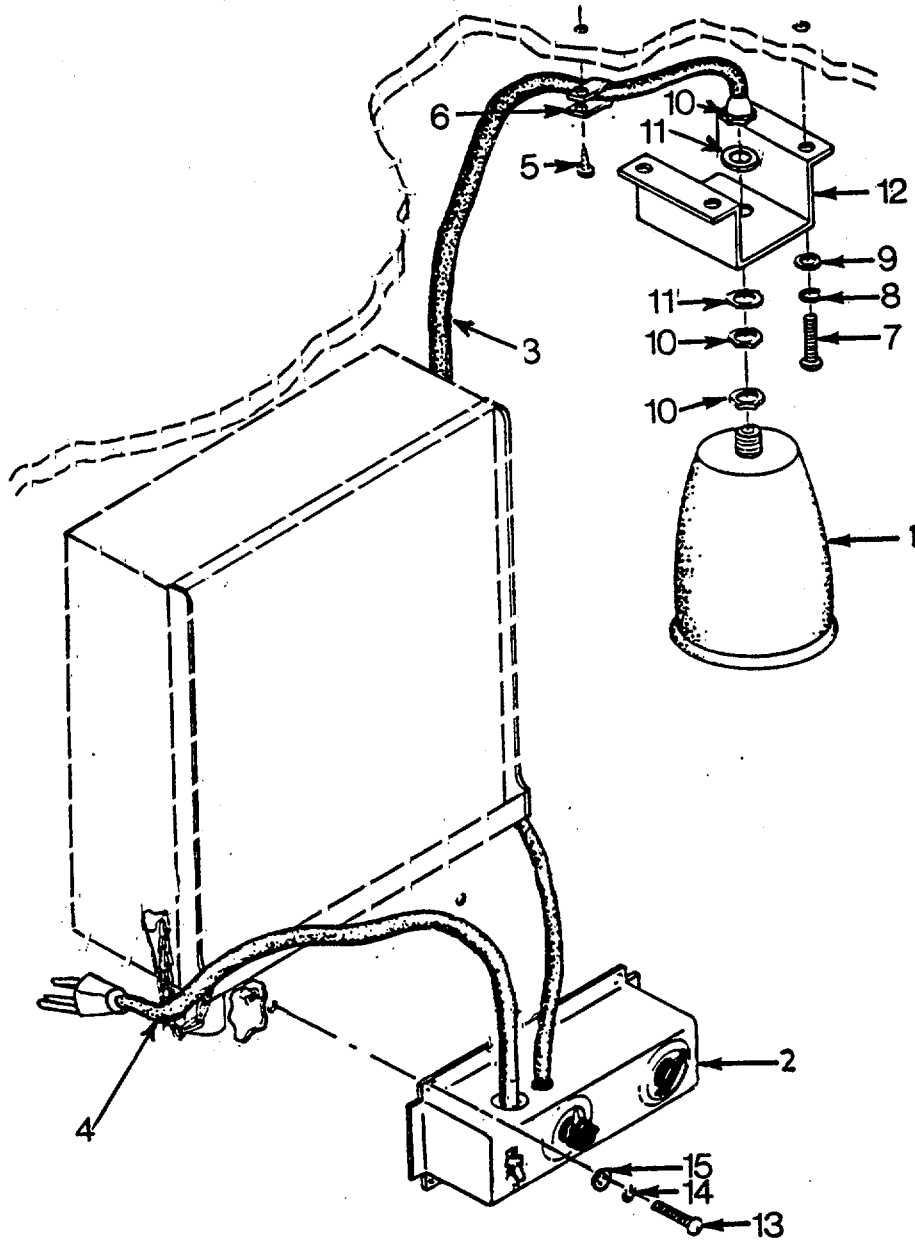


Figure 4-31. Pin-Point Light Assembly

4-28. **PIN-POINT LIGHT ASSEMBLY.** - Continued

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

Repair of light source assembly consists of replacement of parts.

4-29. **PHOTOTYPESETTER ASSEMBLY.** The phototypesetter assembly consists of the following components: (1) Digital Slave Typesetter, (2) Table Top Keyboard Terminal, (3) Monitor Assembly and (4) Controller.

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

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials

None

- a. Inspect.

- (1) Check digital slave typesetter for security of bottom and top mountings.
- (2) Check digital slave typesetter for damages and proper operation. Refer to TM 5-3610-302-12.
- (3) Check table top keyboard terminal for security of mounting.
- (4) Check keyboard terminal for damages and proper operation. Refer to TM 5-3610-302-12.
- (5) Check monitor assembly for security of mounting.
- (6) Check monitor for damages and proper operation. Refer to TM 5-3610-302-12.
- (7) Check controller for security of bottom and top mountings.
- (8) Check controller for damages and proper operation. Refer to TM 5-3610-302-12.

4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continued

## b. Replace Digital Slave Typesetter. (See Figure 4-32.)

- (1) Disconnect power cord (1).
- (2) Open top of typesetter (2).
- (3) Remove bolts (3), lockwashers (4), flat washers (5) and backing plate (6).
- (4) Remove thumbscrew (7) and flat washer (8) from upper bracket assembly (9).
- (5) Slide digital slave typesetter (10) forward until screws (11) align with holes (12) in front end of bottom support brackets (13), and remove screws (11).
- (6) Roll digital slave typesetter forward and remove communications cable (14).

**WARNING**

Digital slave typesetter weighs approximately 300 lbs. Have sufficient personnel available to move or lift equipment. Serious injury could result if heavy equipment is moved or lifted without sufficient personnel.

(7) Lay digital slave typesetter on side and remove screws (15), lockwashers (16) and flat washers (17) from upper bracket assembly (9).

(8) Remove bolts (18), lockwashers (19), flat washers (20), casters (21), spacers (22), and remove digital slave typesetter (10) from shelter.

**WARNING**

Digital slave typesetter weighs approximately 300 lbs. Have sufficient personnel available to move or lift equipment. Serious injury could result if heavy equipment is moved or lifted without sufficient personnel.

4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continued

b. Replace Digital Slave Typesetter. - Continued (See Figure 4-32.)

(9) Lay replacement digital slave typesetter(10) on side and install spacers (22), casters (21), flat washers (20), lockwashers (19), and bolts (18).

(10) Install upper support bracket assembly (9), flat washers (17), lockwashers (16), and screws (15).

(11) Install communications cable (14) and raise digital slave typesetter to standing position.

(12) Align holes in upper support bracket (9) with holes (12) in bottom bracket (13) and install screws (11).

(13) Slide digital slave typesetter (10) into position and install flat washer (7) and thumbscrew (8).

(14) Raise top (2) and install backing plate (6), flat washers (5), lockwashers (4), and bolts (3).

(15) Connect power cord (1).

4-29. PHOTOTYPESETTER ASSEMBLY. - Continued

b. Replace Digital Slave Typesetter. - Continued (See Figure 4-32.)

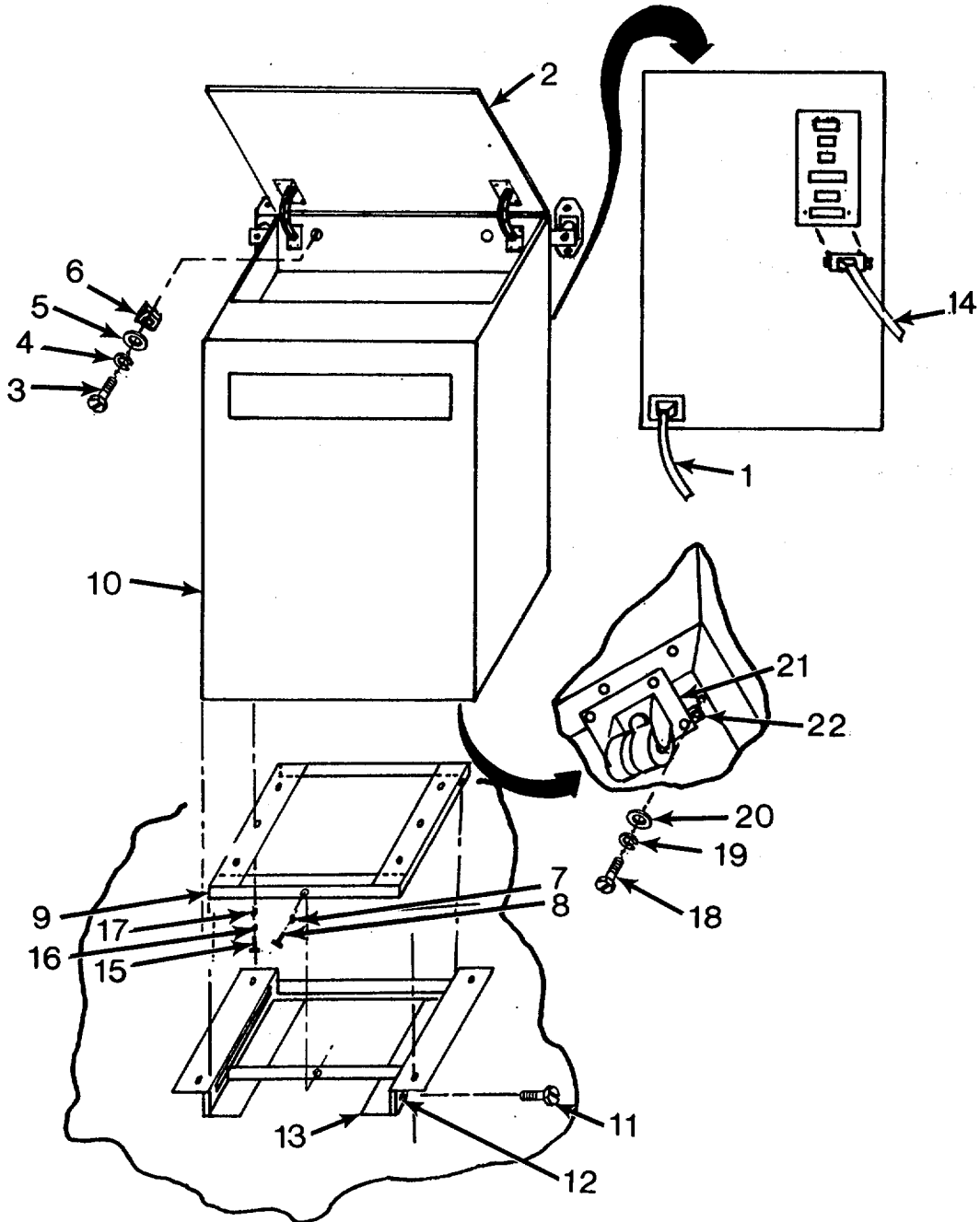


Figure 4-32. Digital Slave Typesetter Mounting

4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continued

c. Replace Table Top Keyboard Terminal. (See Figure 4-33.)

(1) Remove screws (1) and cable clamps (2) from keyboard terminal cable (3) and disconnect cable from rear of controller.

(2) Remove screws (4), lockwashers (5) and flat washers (6) from bottom of table top (7) and remove keyboard terminal (8).

(3) Align replacement keyboard terminal with holes in table top (7) and install flat washers (6), lockwashers (5) and screws (4).

(4) Connect keyboard terminal cable (3) and install cable clamps (2) with screws (1).

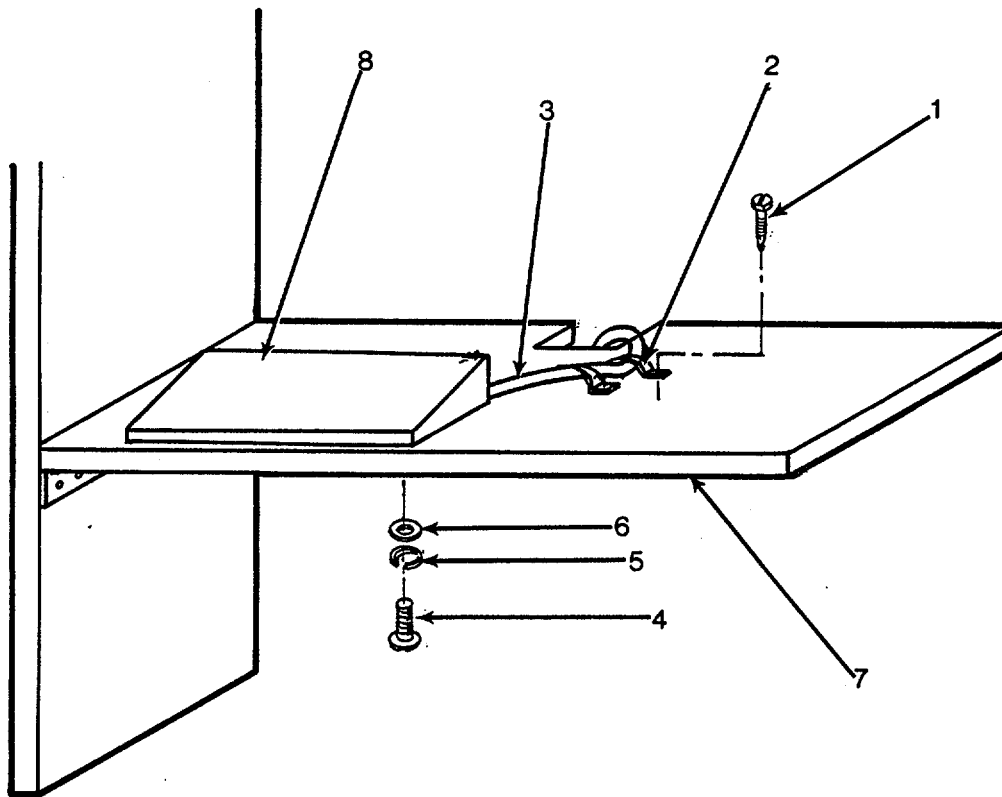


Figure 4-33. Table Top Keyboard Terminal Mounting



4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continuedd. **Replace Monitor Assembly.** (See Figure 4-34.)

- (1) Remove thumbscrews (1) from monitor top bracket (2).
- (2) Remove wingnut (3), flat washer (4), and lock nut (5).
- (3) Carefully rotate monitor (6) clockwise 90°.
- (4) Remove screws (7), and monitor top bracket (2).
- (5) Remove cable (8) from rear of controller.
- (6) Lift monitor (6) from table and lay on side.
- (7) Remove countersunk screws (9) and monitor mounting plate (10) from monitor (6).
- (8) Position monitor mounting plate (10) over holes in base of replacement monitor (6) and install countersunk screws (9).
- (9) Position replacement monitor (6), and connect cable (8) to rear of controller.
- (10) Carefully rotate monitor (6) clockwise 90° and install monitor top bracket (2) and screws (7).
- (11) Rotate monitor (6) counterclockwise 90° and install lock nut (5), flat washer (4), and wingnut (3).
- (12) Install thumbscrews (1).

4-29. PHOTOTYPESETTER ASSEMBLY. - Continued

d. Replace Monitor Assembly. (See Figure 4-34.) - Continued

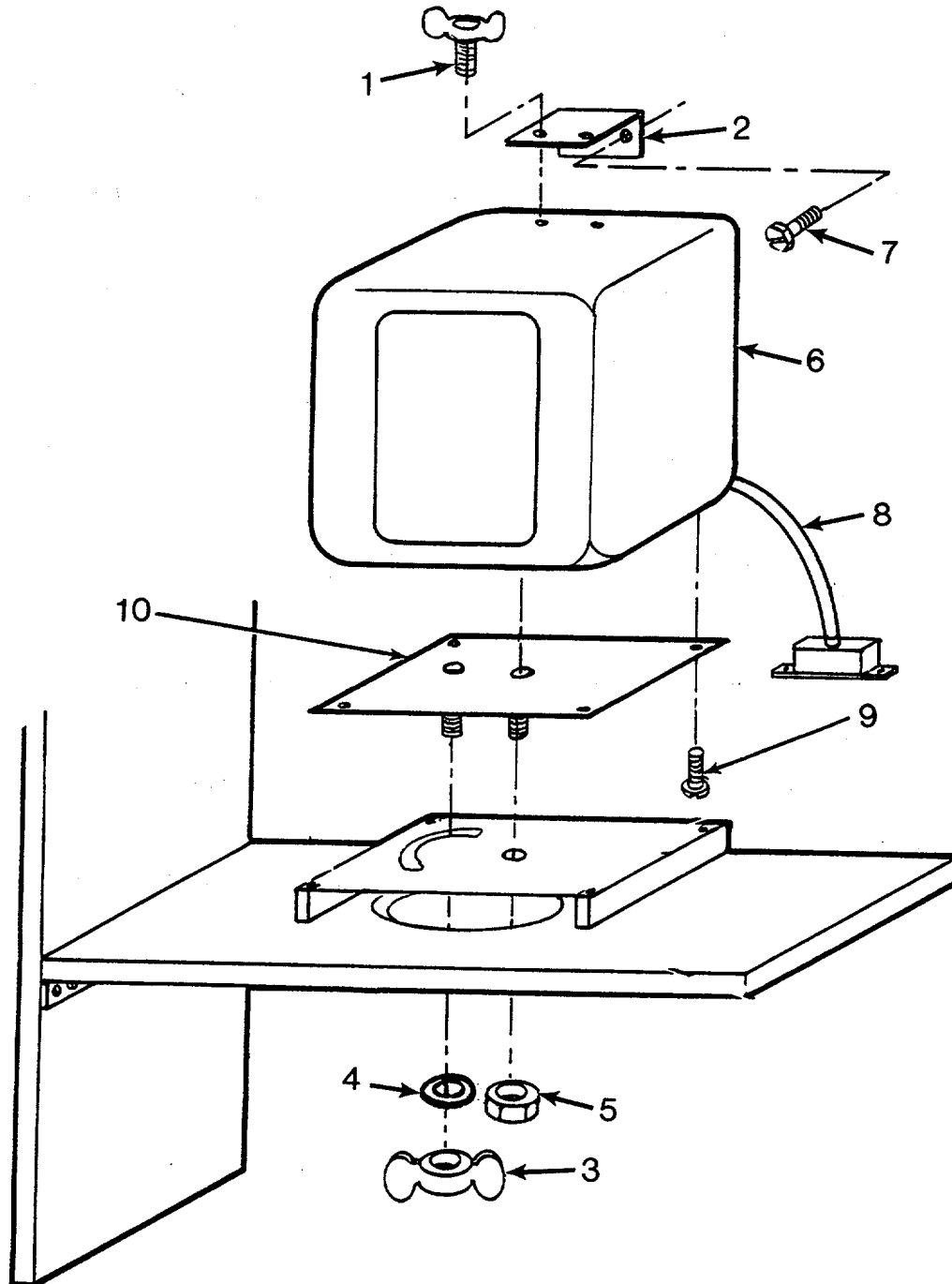


Figure 4-34. Monitor Assembly Mounting

4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continuede. Replace Controller. (See Figure 4-35.)

- (1) Disconnect controller power cable from wall receptacle.
- (2) Raise hinged table top (1) and secure in raised position with hook-and-pile fastener (2).
- (3) Remove thumbscrews (3) from front edges of controller mounting plate (4).
- (4) Slide controller (5) forward off shock controller bracket (6).
- (5) Tag and disconnect keyboard, monitor, and typesetter cables. Unplug power cable from controller (5) and lay controller (5) on side.
- (6) Remove bolts (7), lockwashers (8) and flat washers (9) and remove mounting plate (4).
- (7) Lay replacement controller (5) on side, align holes in mounting plate (4) with holes in bottom of controller (5) and secure in place with flat washers (9), lockwashers (8), and bolts (7).
- (8) Raise controller (5) to upright position and connect keyboard, monitor, typesetter, and power cables.
- (9) Slide controller (5) into position over shock controller bracket (6) and install thumbscrews (3) into mounting plate (4).
- (10) Unfasten hook-and-pile fastener (2) and lower hinged table top (1) onto top of controller (5).

4-29. PHOTOTYPESETTER ASSEMBLY. - Continued

e. Replace Controller. - Continued (See Figure 4-35.)

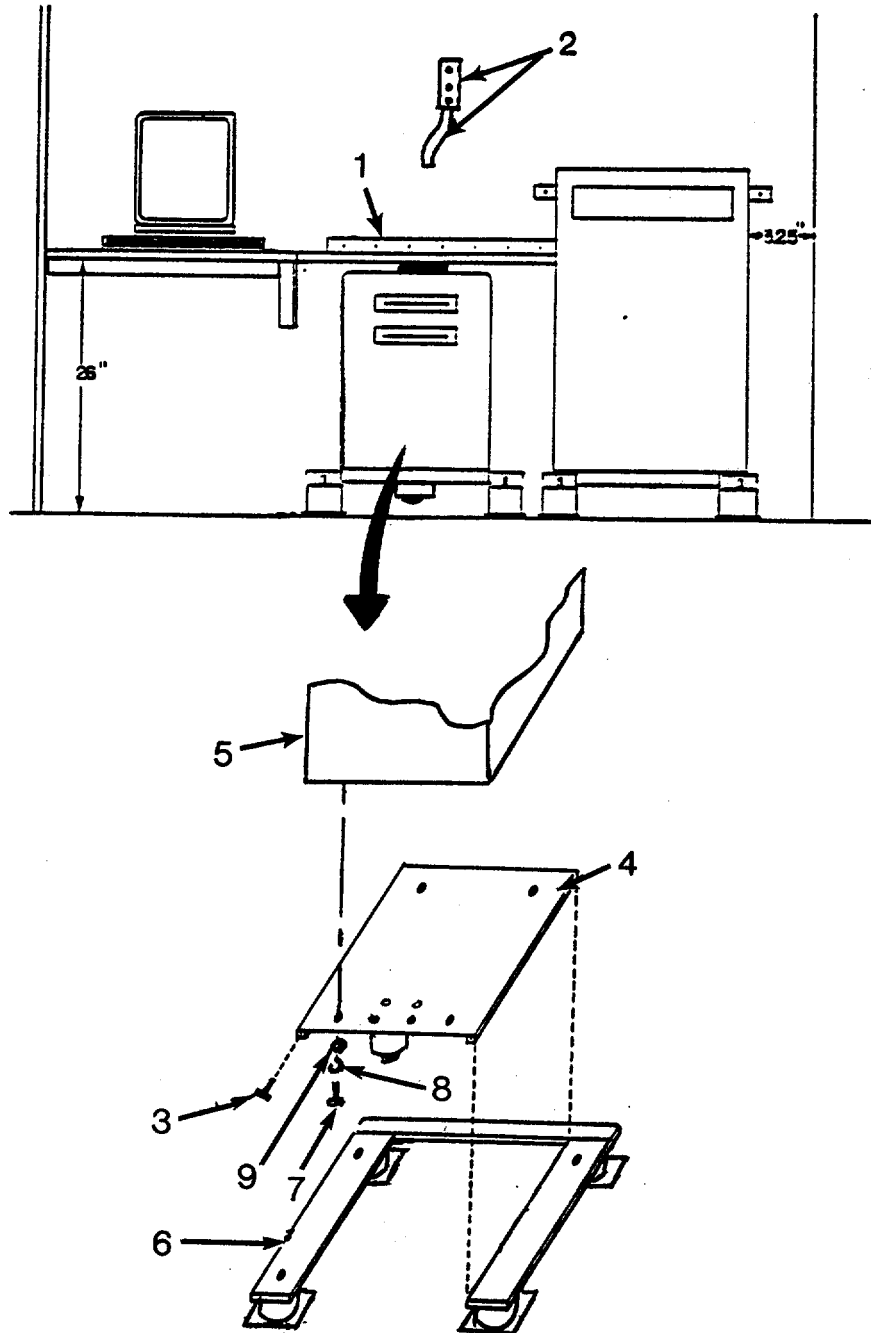


Figure 4-35. Controller Mounting

4-29. **PHOTOTYPESETTER ASSEMBLY.** - Continued

f. Repair. (See Figures 4-32, 4-33, 4-34, and 4-35. ) Repair of the phototypesetter assembly consists of replacing components of the mounting assemblies. For operation and repair of the phototypesetter assembly, refer to TM 5-3610-302-12 and 20P.

4-30. **PHOTOTYPESETTER PROCESSOR ASSEMBLY.**

This task covers:           a. Inspect           b. Replace

## INITIAL SETUP

## Tools

General mechanics automotive kit, Hand blind rivet

## Materials

None

a. Inspect. (See Figure 4-36.)

(1) Check editorial room roadside wall processor (1) for security of mounting and proper operation. Refer to TM 5-3610-302-12.

(2) Check processor power cord for damage.

(3) Check processor shelf (2) for security and damage.

b. Replace. (See Figure 4-36.)

(1) Disconnect processor power cord (3).

(2) Remove thumbscrews (4) and lockwashers (5) from processor (1).

(3) Disconnect tubing (6) from processor.

(4) Remove processor (1) from shelf (2).

(5) Remove processor shelf rivets (7) by drilling or chiseling off heads and remove shelf (2).

(6) Remove screws (8), lockwashers (9), and brackets (10).

(7) Install brackets (10), lockwashers (9), and screws (8) on replacement processor (1).

(8) Secure shelf (2) to shelter wall with rivets (7).

4-30. PHOTOTYPESETTER PROCESSOR ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-36.)

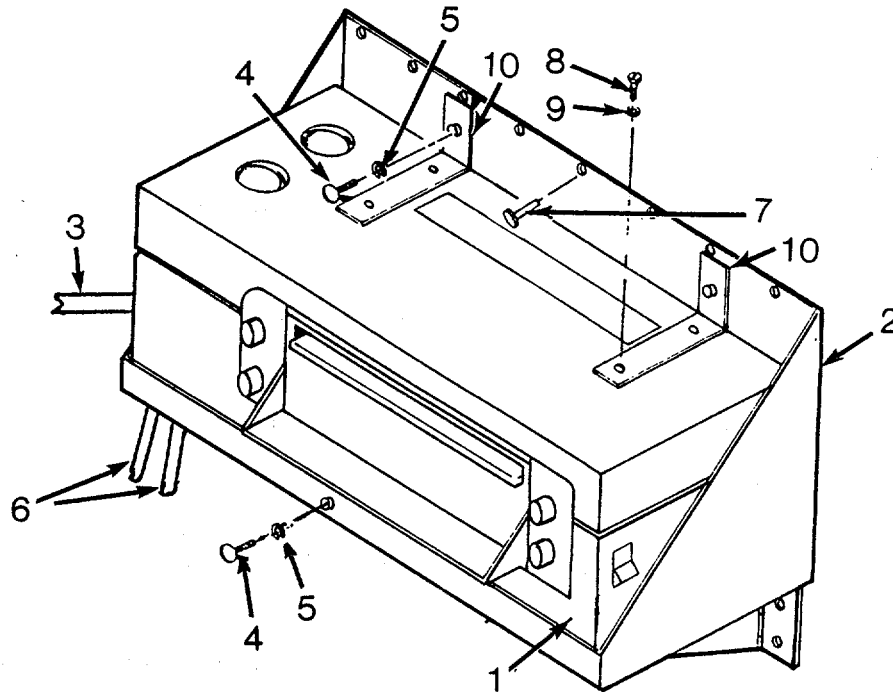


Figure 4-36. Phototypesetter Processor Assembly

- (9) Install processor (1) on shelf (2).
- (10) Connect processor tubing (6).
- (11) Install thumbscrews (4) and lockwashers (5).
- (12) Connect power cord (3) to proper receptacle.

## 4-31. FIRE EXTINGUISHER ASSEMBLY.

This task covers:           a. Inspect       b. Replace

## INITIAL SETUP

## Tools

General mechanics automotive tool kit

## Materials

None

a. Inspection. (See Figure 4-37.)

(1) Check fire extinguisher (1) on interior shelter wall above historical file cabinet 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.

b. Replace. (See Figure 4-37.)

(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).

b. Replace. - Continued

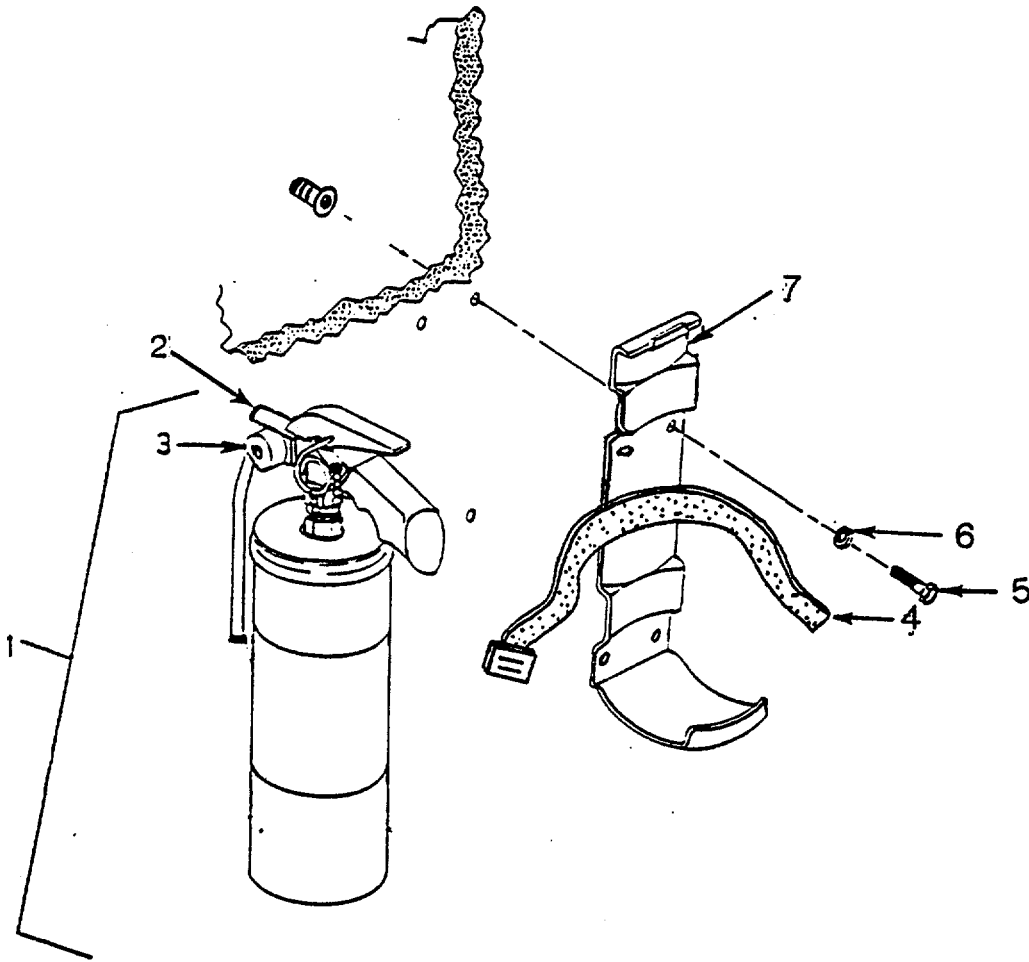


Figure 4-37. Fire Extinguisher



**4-32. FIRST AID KIT ASSEMBLY.**

This task covers: a. Inspect            b. Replace

**INITIAL SETUP****Tools**

General mechanics automotive tool kit, Hand blind rivet

**Materials**

None

**a. Inspect.** (See Figure 4-38.)

- (1) Check first aid kit (1) for security of mounting.
- (2) Check first aid kit contents for inventory and condition.

**b. Replace.** (See Figure 4-38.)**NOTE**

First aid kit is secured to mounting bracket 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).

b. Replace. - Continued (See Figure 4-38.)

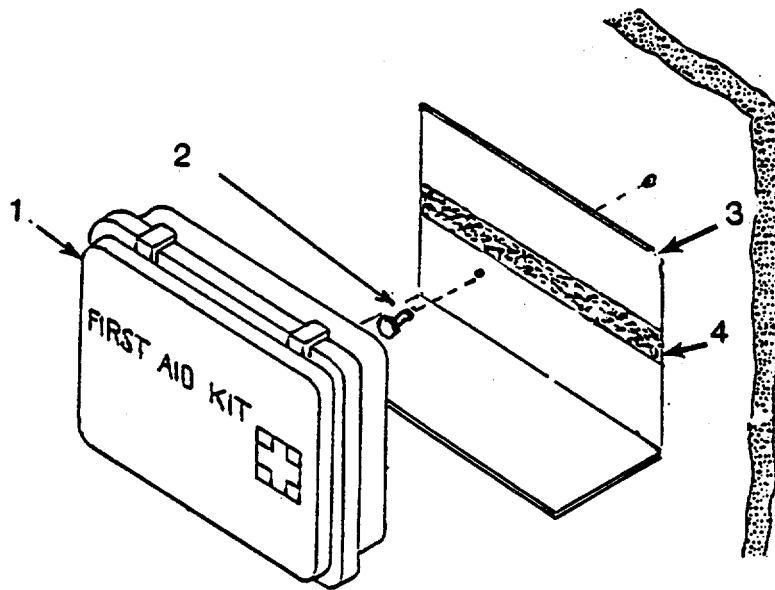


Figure 4-38. First Aid Kit

- (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.

## 4-33. AIR CONDITIONER ASSEMBLY.

This task covers: a. Inspect b. Replace

## INITIAL SETUP

## Tools

General mechanics automotive tool kit

## Materials

RTV Sealant (3, Appendix E)

a. Inspect. (See Figures 4-39, 4-40 and 4-41.)

(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 power 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 and ductwork for missing rivets, dents, breaks, corrosion, and proper connection of adapter boot to air duct and to discharge grill of air conditioner. Ductwork exists on curbside air conditioner only.

(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.

b. Replace Air Conditioner.

- (1) Remove air conditioner screws (1, Figure 4-39) and cable clamps (2).
- (2) Disconnect power cable (3), from air conditioner and shelter receptacles.

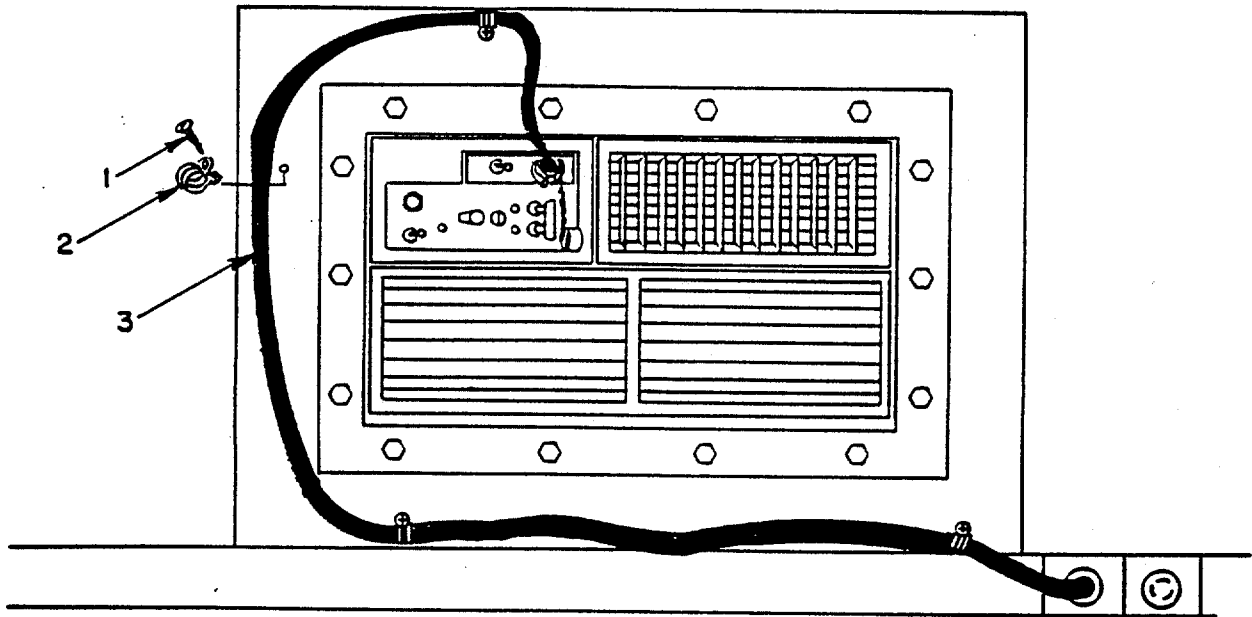


Figure 4-39. Air Conditioner

## 4-33. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

- (3) Remove screws (1, Figure 4-40) from curbside air conditioner only.

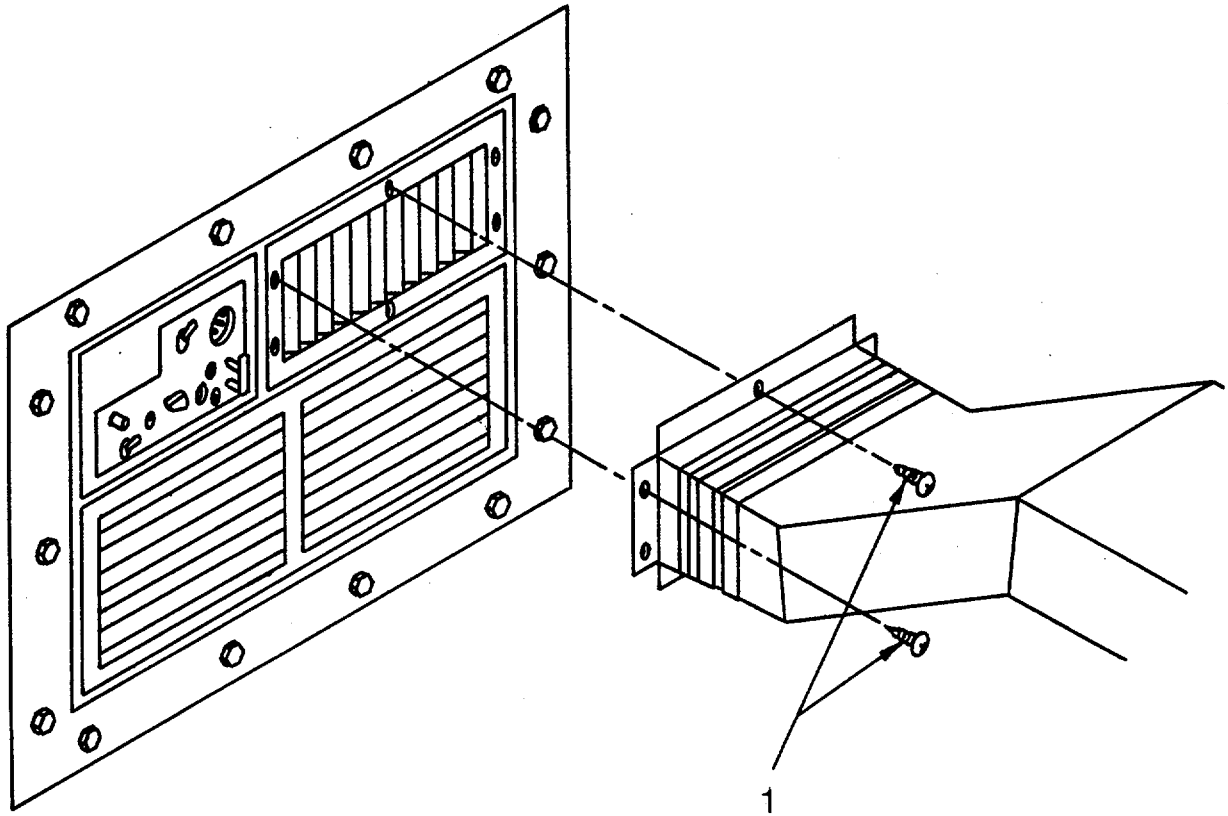


Figure 4-40. Curbside Air Conditioner

## 4-33. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

- (4) Remove cover (1, Figure 4-41).
- (5) Remove bolts (2), lockwashers (3), flat washers (4), and support frame (5).
- (6) Remove bolts (6), lockwashers (7), and flat washers (8).
- (7) Cut RTV sealant between collar (9) and air conditioner (10) (one layer).

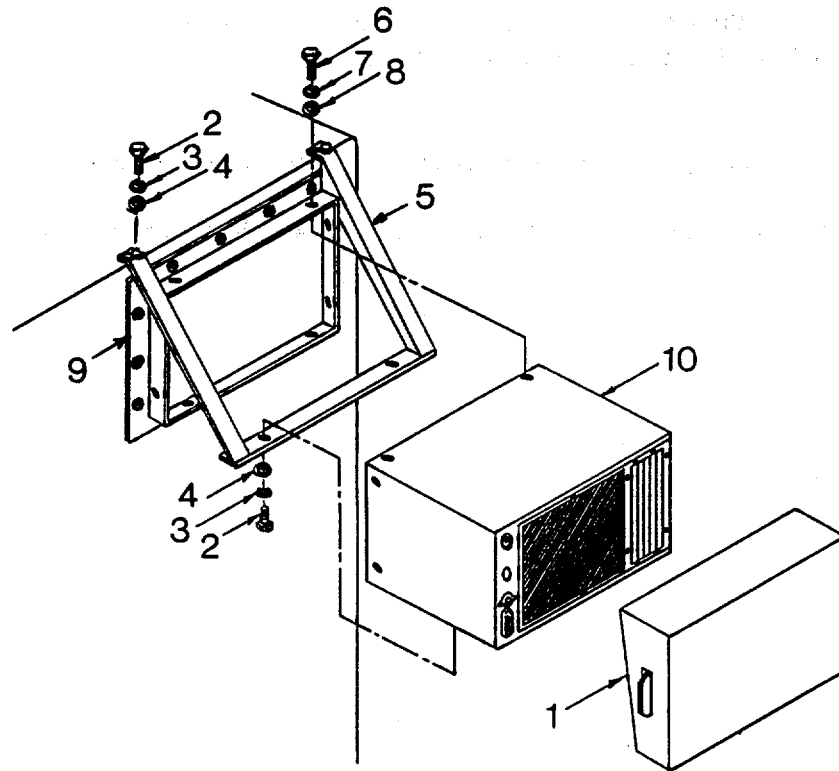


Figure 4-41. Air Conditioner Support Frame

4-33. **AIR CONDITIONER ASSEMBLY.** - Continued

b. Replace Air Conditioner. - Continued

**WARNING**

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

**WARNING**

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

- (8) Attach sling (1) to air conditioner (2) as shown in Figure 4-42.
- (9) Attach sling (1) to forklift and raise until weight of air conditioner (2) is carried by sling (1).

b. Replace Air Conditioner. - Continued

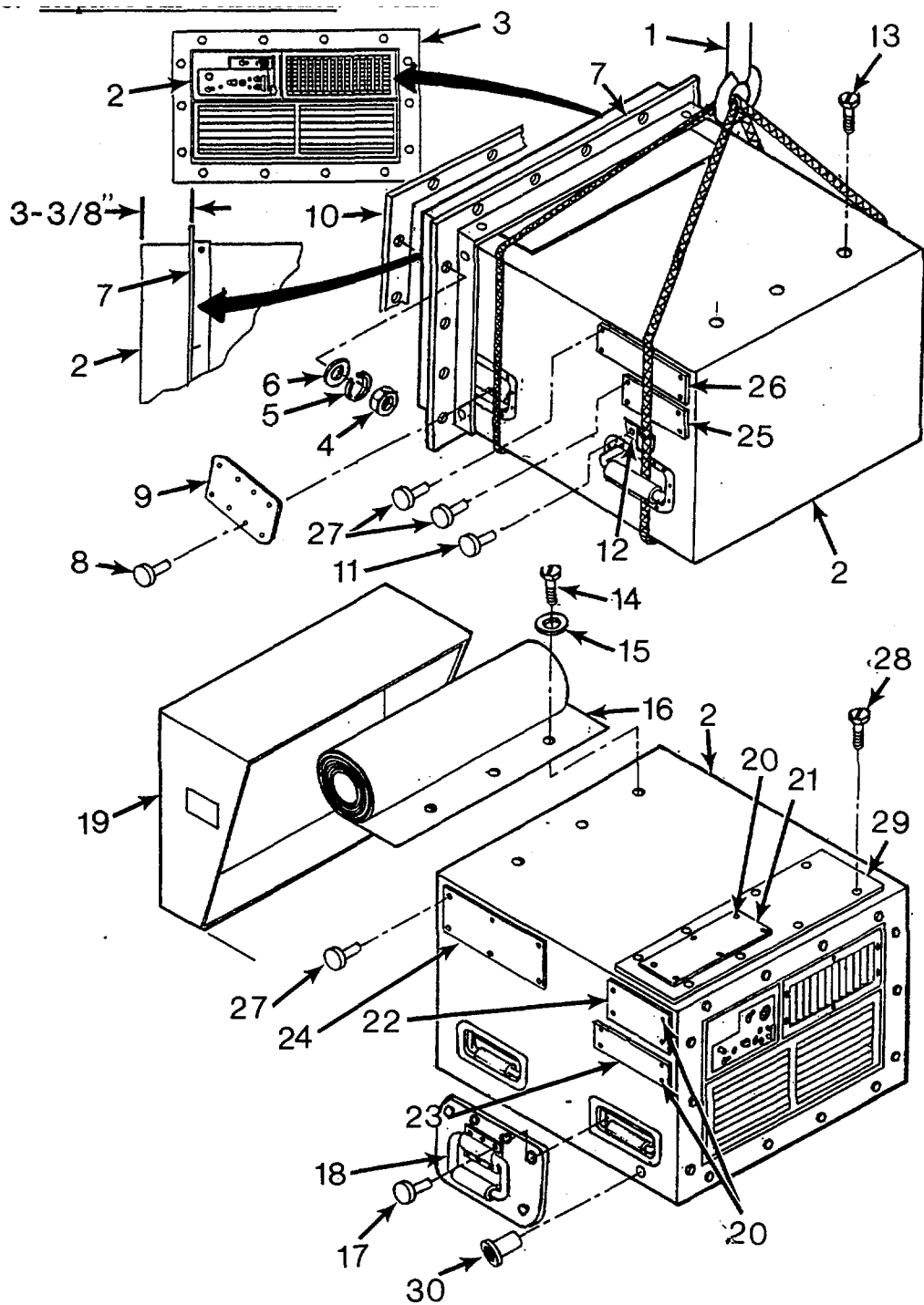


Figure 4-42. Air Conditioner, Replace



## 4-33. AIR CONDITIONER ASSEMBLY. - Continued

b. Replace Air Conditioner. - Continued

(10) From inside of shelter cut RTV sealant between air conditioner (2) and inner frame (3) (two layers).

(11) Remove air conditioner (2) and lower to the ground.

(12) Remove nuts (4), lockwashers (5), and flat washers (6).

(13) Cut RTV sealant holding collar (7) to shelter wall and remove collar (7).

(14) Drill out rivets (8) and pry off handle covers (9).

(15) Clean RTV sealant from handle covers (9), collar (7), and outer frame (10).

**CAUTION**

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

(16) Drill out rivets (11) and remove cover latches (12) from old air conditioner (2).

(17) Remove screws (13) from old air conditioner (2).

(18) Remove screws (14), flat washers (15), and canvas cover (16) from replacement air conditioner (2).

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

(20) Position cover (19) on replacement air conditioner (2). Locate cover latch positions and drill mounting holes. Install cover latches (12) on replacement air conditioner with rivets (11).

(21) Install canvas cover (16), flat washers (15), and screws (14) on old air conditioner (2).

(22) Install screws (13) on replacement air conditioner (2).

(23) Chisel off rivets (20) and remove data plates (21), (22), and (23) from replacement air conditioner (2) and relocate to positions (24), (25), and (26) shown in Figure 4-42 and install with rivets (27).

4-33. **AIR CONDITIONER ASSEMBLY.** - Continuedb. Replace Air Conditioner. - Continued

- (24) Install rivets (20) in old data plate mounting holes on replacement air conditioner (2).
- (25) Apply RTV sealant (3, Appendix E) to handle covers (9) and install on replacement air conditioner (2) with rivets (8).
- (26) Slide collar (7) onto front of replacement air conditioner (2) and position 3 3/8 inches from the front as shown in Figure 4-42.

**CAUTION**

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

- (27) Drill two 1/2 inch holes on each side, top, and bottom of replacement air conditioner (2) using collar (7) as a template.
- (28) Remove collar (7) from replacement air conditioner (2).
- (29) Remove screws (28) and air conditioner top cover (29).
- (30) Install blind rivet nuts (30) in the eight drilled holes.
- (31) Install air conditioner top cover (29) with screws (28).
- (32) Install collar (7) with bolts (6, Figure 4-41), lockwashers (7), and flat washers (8).
- (33) Apply a bead of RTV sealant (3, Appendix E) to front and rear inside of collar (7, Fig 4-42) 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.

4-33. **AIR CONDITIONER ASSEMBLY.** - Continued

b. Replace Air Conditioner. - Continued

- (34) Attach sling (1) to air conditioner (2) as shown in Figure 4-42. Attach sling (1) to forklift.
- (35) Coat the face of the collar (7) that mates with the outer frame (10) with RTV sealant (3, Appendix E).
- (36) Raise air conditioner (2) and position into outer frame (10).
- (37) Secure air conditioner (2) to outer frame (10) with flat washers (6), lockwashers (5), and nuts (4) and remove sling (1).
- (38) Install support frame (5, Figure 4-41) and secure with flat washers (4), lockwashers (3), and bolts (2).
- (39) Apply RTV sealant (4, Appendix E) to interior joint between air conditioner (2, Figure 4-42) and inner frame (3).
- (40) Connect power cable (3, Figure 4-39) to air conditioner and shelter receptacle.
- (41) Install cable clamps (2) with screws (1).
- (42) Install screws (1, Figure 4-40) on curbside air conditioner.
- (43) Test air conditioner operation (refer to TM 5-4120-378-14).
- (44) Set air conditioner controls to OFF and install cover (1, Figure 4-41).

4-34. **BLACKOUT WARNING ASSEMBLY.**

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

INITIAL SETUP

Tools

Electrical equipment tool kit

Materials

RTV Sealant (3, Appendix E)

4-34. **BLACKOUT WARNING ASSEMBLY.** - Continueda. 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 4-43), 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).
- (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 (3, Appendix E).

4-34. **BLACKOUT WARNING ASSEMBLY.** - Continued

b. Replace. - Continued

(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).

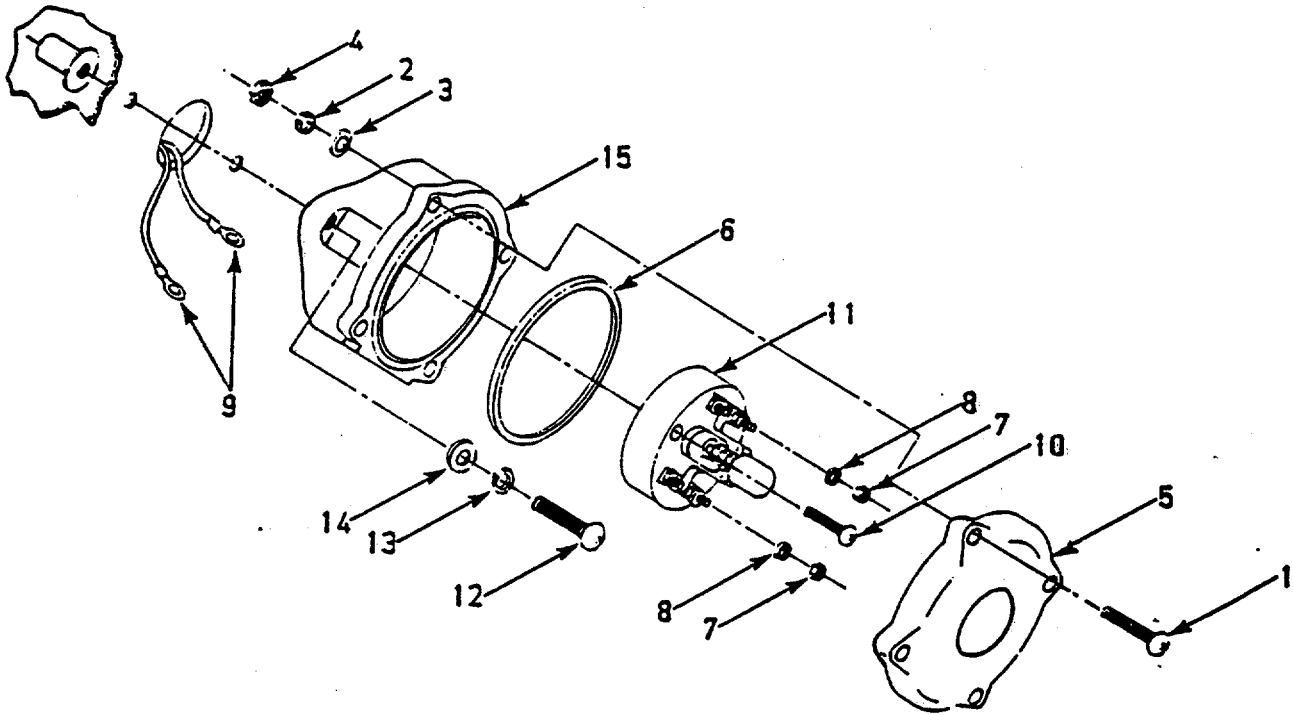
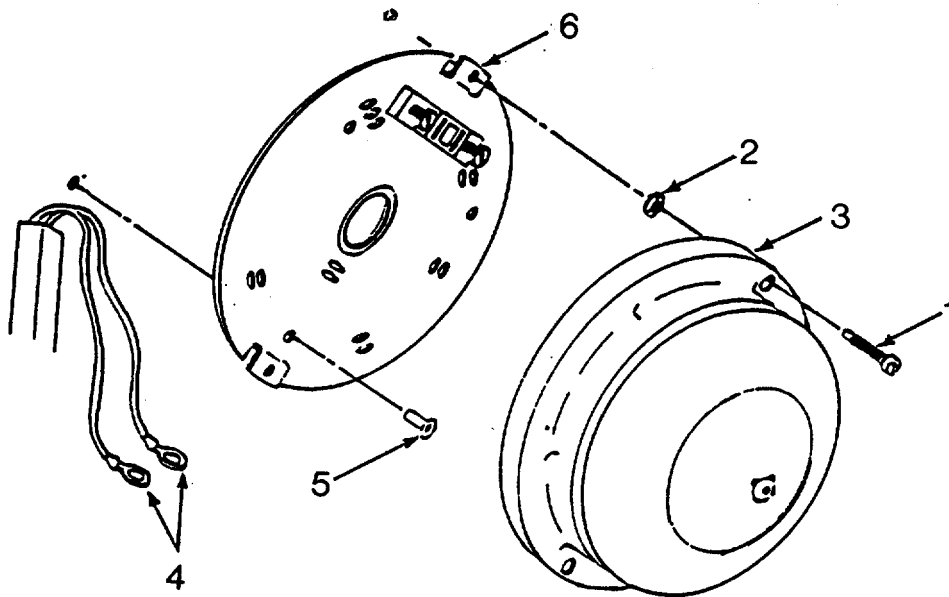


Figure 4-43. Blackout Warning Assembly

4-34. **BLACKOUT WARNING ASSEMBLY.** - Continuedb. Replace. - Continued

## (2) Warning Buzzer.

- (a) Remove warning buzzer screws (1, Figure 4-44) 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).



**Figure 4-44. Blackout Warning Assembly Buzzer**

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

4-35. **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 4-45.)

- (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 4-45.)

- (1) Loosen hand knobs (1) and remove filters (2).
- (2) Clean filters (2) and reinsert.
- (3) Tighten hand knobs (1).

4-35. **DOOR FRESH AIR FILTER ASSEMBLY.** - Continued

b. Replace. - Continued (See Figure 4-45.)'

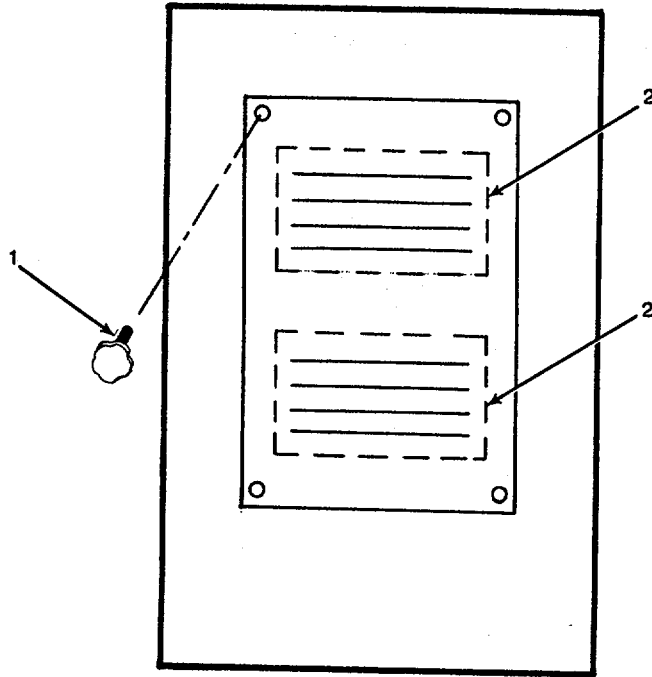


Figure 4-45. Door Fresh Air Filter

4-36. **DOOR BLACKOUT LOCKPIN ASSEMBLY.**

This task covers: a. Inspect b. Replace

INITIAL SETUP

- Tools
  - General mechanics automotive tool kit
- Materials
  - None



## 4-36. DOOR BLACKOUT LOCKPIN ASSEMBLY. - Continued

a. Inspect. (See Figure 4-46.)

(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 4-46.)

(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).

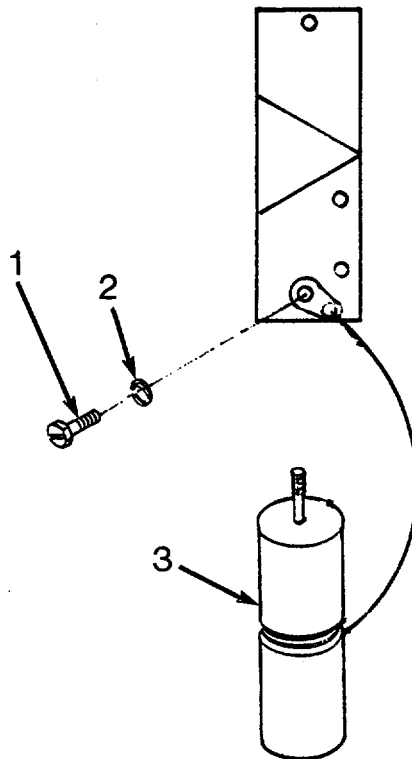


Figure 4-46. Door Blackout Lockpin Assembly

4-37. **DROP-OFF BOX ASSEMBLY.**

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

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit

## Materials

RTV Sealant (3, Appendix E)

a. Inspect.

- (1) Inspect drop-off box assembly of rear wall roadside for dents and security of mounting.
- (2) Inspect doors and hinges of rear wall roadside for dents, ease of operation, and proper closing.
- (3) Inspect paint work for bare metal and corrosion.
- (4) Inspect rubber gasket on exterior door for proper seal against door, for wear and weathering, and secure attachments.
- (5) Inspect latch and hook on exterior door for ease of operation and proper security of door.

b. Replace.

- (1) Exterior Door. (See Figure 4-47.)
  - (a) Remove rivets (1) by drilling or chiseling off heads.
  - (b) Remove RTV sealant from exterior door (2) and wall.
  - (c) Remove exterior door (2) and spacer block (3).
  - (d) Remove rivets (4) from exterior door latch (5) by drilling or chiseling off heads.

4-37. **DROP-OFF BOX ASSEMBLY.** - Continuedb. Replace. - Continued

- (e) Remove exterior door latch (5) and spacer block (6).
- (f) Remove and install replacement gasket (7) if necessary.
- (g) Install replacement exterior door latch (5), spacer blocks (6), and secure with rivets (4).
- (h) Position spacer block (3) and replacement exterior door (2). Secure with rivets (1).
- (i) Apply RTV sealant (3, Appendix E) to exterior shelter wall.

## (2) Drop-off Box. (See Figure 4-48.)

- (a) Remove exterior door. (See paragraph 1 above.)
- (b) Remove nut (1), washer (2), and knob (3).
- (c) Remove rivets (4) by drilling or chiseling off heads.
- (d) Remove RTV sealant from drop-off box and wall.
- (e) Remove drop-off box (5) and spacer block (6) by pushing through wall opening from interior of shelter.
- (f) Apply RTV sealant (3, Appendix E) to exterior wall.
- (g) Position spacer blocks (6), replacement drop-off box (5) and secure with rivets (4).
- (h) Secure knob (3) with washer (2) and nut (1).
- (i) Install exterior door. (See paragraph (1) above.)

b. Replace. - Continued

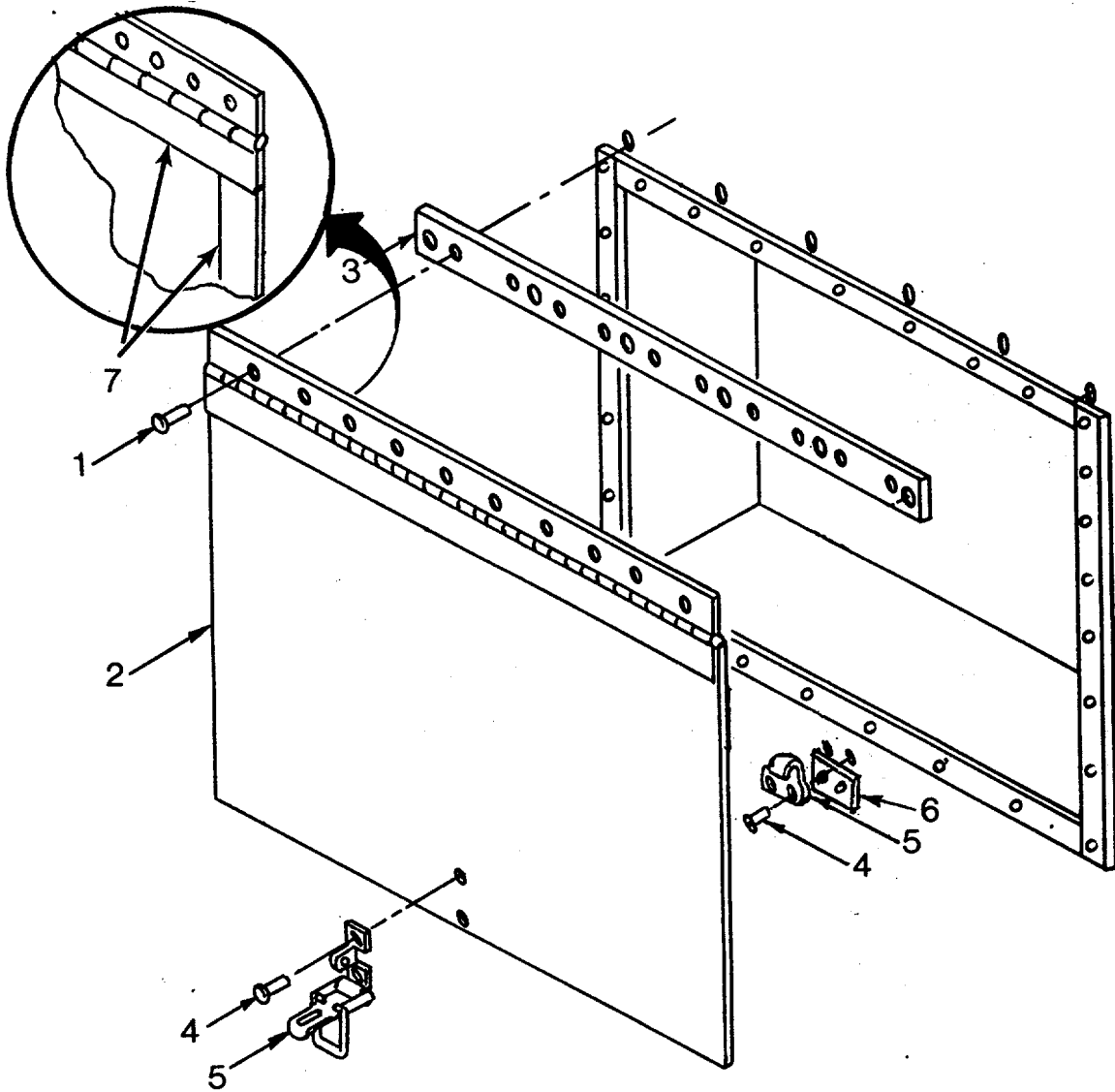


Figure 4-47. Drop-Off Box Assembly (Exterior)

b. Replace. - Continued.

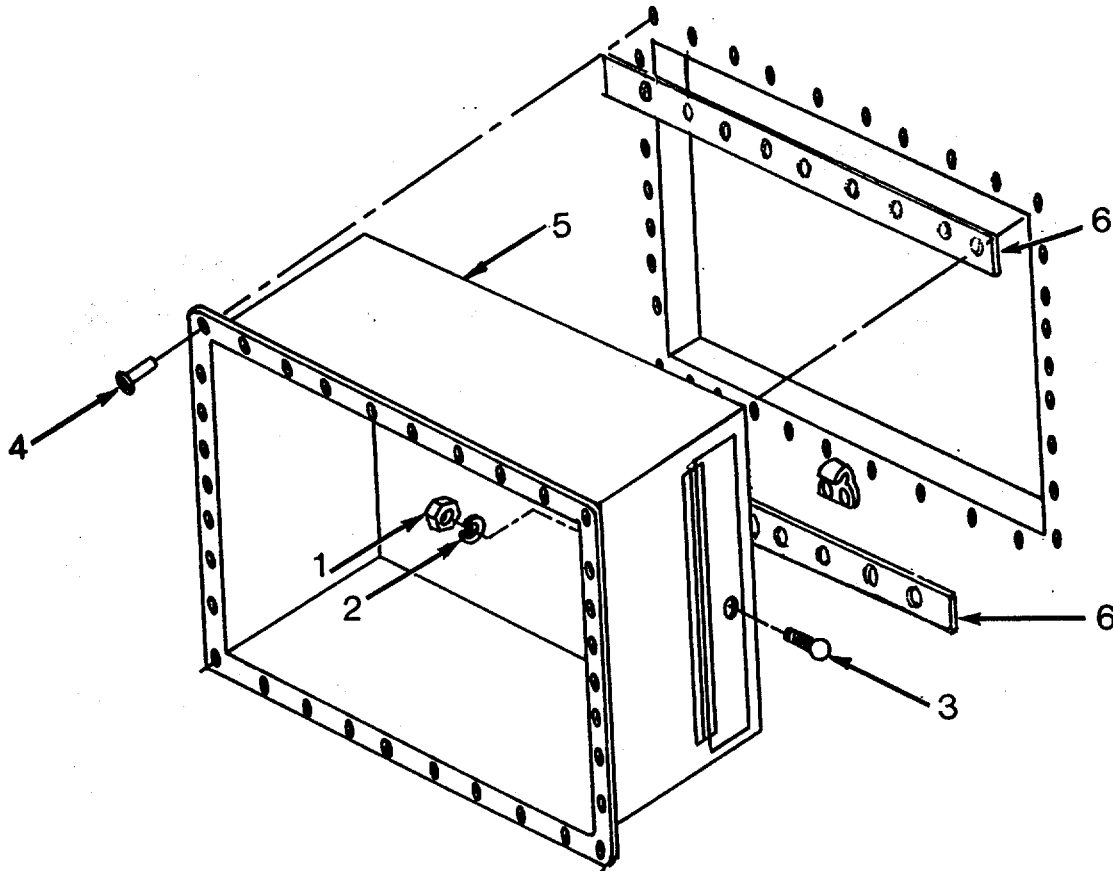


Figure 4-48. Drop-Off Box Assembly (Interior)

c. Repair.

- (1) Hammer out dents on main body of drop-off box assembly.
- (2) Hammer out dents in door and straighten hinges for proper door closing.
- (3) Repair by replacing damaged knob or latch with new items.

## 4-38. TELEPHONE BINDING POST ASSEMBLY.

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

## INITIAL SETUP

## Tools

General mechanics automotive tool kit

## Materials

RTV Sealant (3, 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 4-49.) -

(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 (3, 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).

## 4-38. TELEPHONE BINDING POST ASSEMBLY. - Continued

b. Replace. - Continued (See Figure 4-49.)

(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.

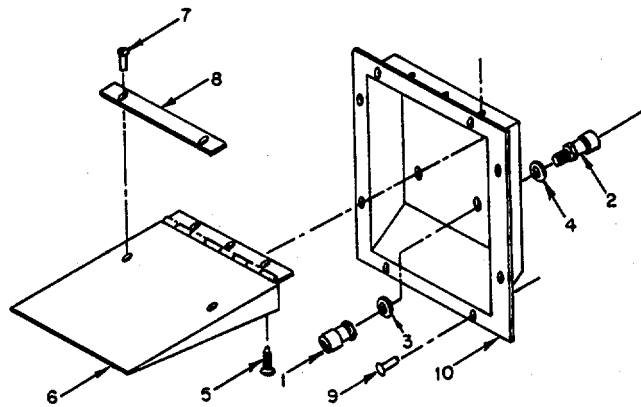


Figure 4-49. Telephone Binding Post Assembly

c. Repair. (See Figure 4-49.)

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

## 4-39. 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 4-50.)

(1) Remove screws (1), and lockwashers (2) from receptacle frame (10). 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.



## 4-39. LEVEL INDICATOR ASSEMBLY. - Continued

b. Replace. - Continued. (See Figure 4-50.)

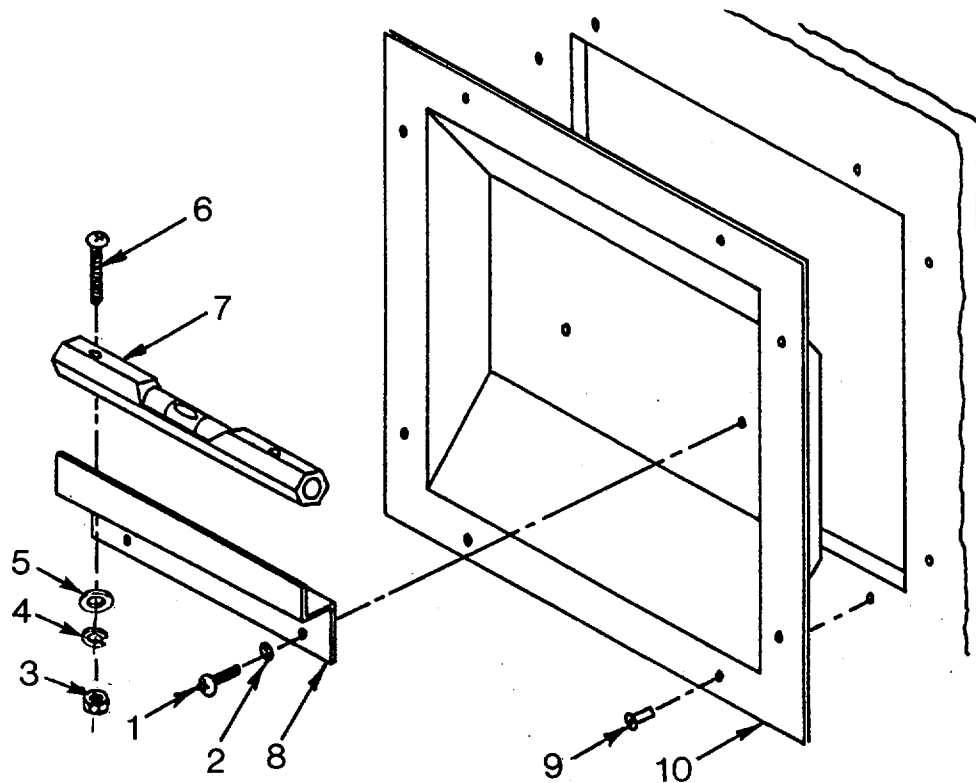


Figure 4-50. Level Indicator Assembly

(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 (3, Appendix E).

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

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

c. Repair. (See Figure 4-50.)

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

## 4-40. LADDER ASSEMBLY.

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

## INITIAL SETUP

## Tools

General mechanics automotive tool kit

## Materials

None

a. Inspect. (See Figure 4-51.)

- (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 4-51.)

- (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), flat washers (9), backing plate (10), lockwashers (11), and nuts (12).
- (6) Remove upper mounting bracket (6).

4-40. **LADDER ASSEMBLY.** - Continuedb. Replace. (See Figure 4-51.)

- (7) Remove retainer bracket bolts (13) and lockwashers (14).
- (8) Remove retainer bracket (7).
- (9) Install retainer bracket (7) bolts (13) and lockwashers (14). Seal bracket to shelter wall with RTV (item 3, app E).
- (10) Install upper mounting bracket (6) bolts (8), backing plate (10), lockwashers (11), flat washers (9), and nuts (12). Seal bracket to exterior shelter wall with RTV (item 3, app E).
- (11) Install retaining strap (4) with fastener loops (2) and screws (3).
- (12) Install ladder (1) on brackets (6) and (7).
- (13) Secure ladder assembly retaining strap (4).

4-40. LADDER ASSEMBLY. - Continued

b. Replace. - Continued. (See Figure 4-51.)

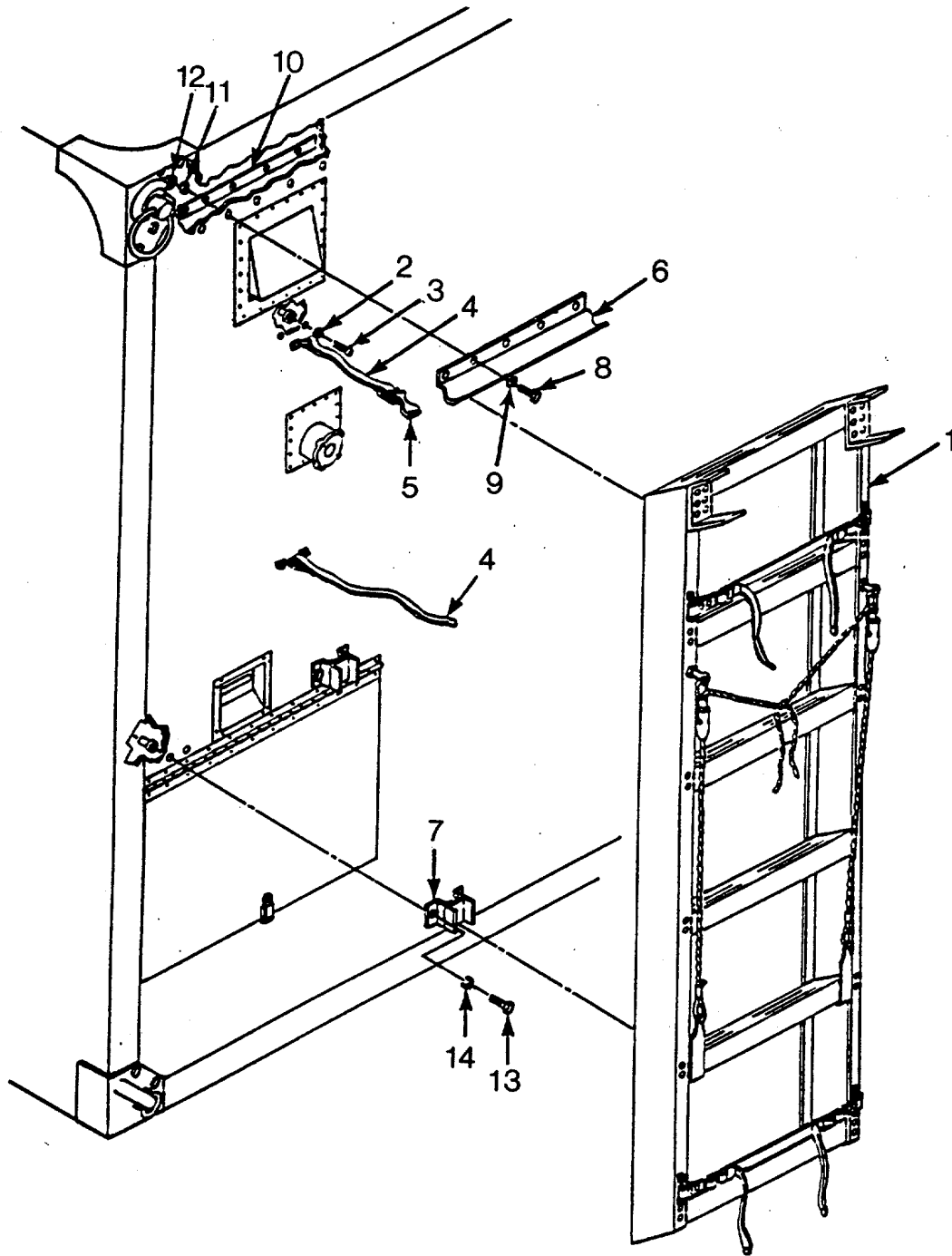


Figure 4-51. Ladder Assembly

4-40. **LADDER ASSEMBLY.** - Continued

- c. Repair. (See Figure 4-51.)

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

4-41. **CEILING LAMP ASSEMBLY.**

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

**INITIAL SETUP**

Tools

General mechanics automotive tool kit

Material

None

- a. Inspect. (See Figure 4-52.)

**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.

- (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. Lamps that are located under the curbside cabinets have toggle switches.

4-41. **CEILING LAMP ASSEMBLY.** - Continuedb. Remove. (See Figure 4-52.)

- (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.

**CAUTION**

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

**NOTE**

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

- (4) Rotate lamp assembly pins (3) 90° and lower bottom half of fixture.
- (5) Remove lamp assemblies wire nuts (4). Tag and disconnect the wires from the fixture components.
- (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.

4-41. CEILING LAMP ASSEMBLY. - Continued

b. Remove. - Continued (See Figure 4-52.)

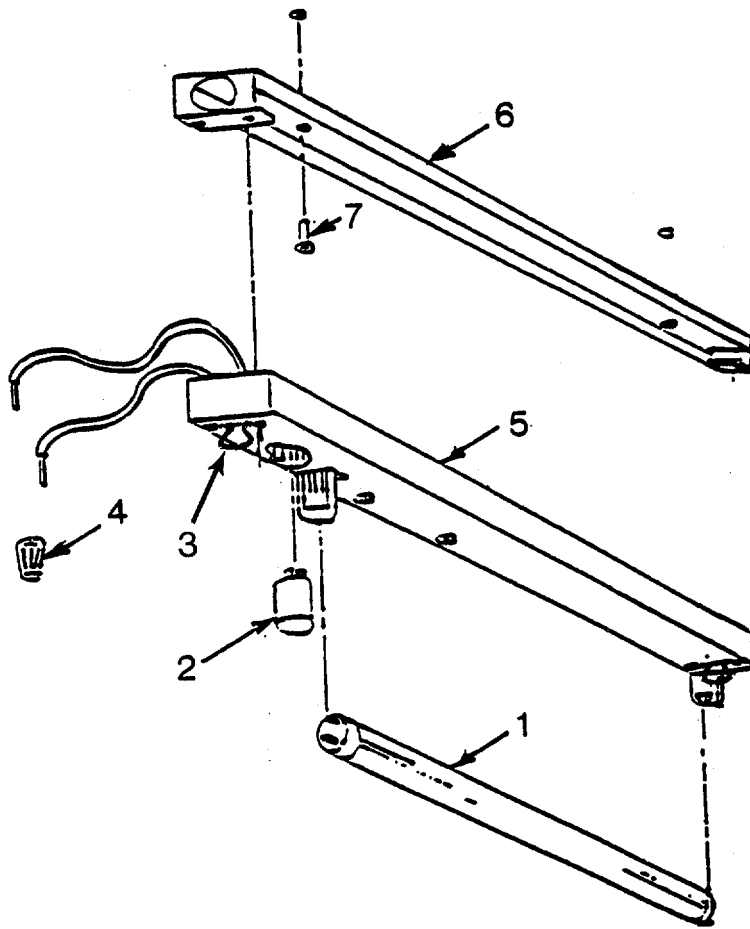


Figure 4-52. Ceiling Lamp Assembly

4-41. **CEILING LAMP ASSEMBLY.** - Continuedb. Remove. - Continued. (See Figure 4-52).

(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 rotate pins (3) 90°.

(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) Connect power cord (under cabinet lamps only) to curbside wall receptacle.

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

c. Repair. (See Figure 4-52.)**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.



4-42. **WALL LAMP SWITCHES ASSEMBLY.**

This task covers: a. Inspect b. Remove

**INITIAL SETUP**

## Tools

Electrical equipment tool kit

## Materials

None

- a. Inspect. (See Figure 4-53.)
- (1) Check darkroom wall and editorial room lamp switches for proper operation.
  - (2) Inspect darkroom wall and editorial room switch-box cover for secure mounting.
- b. Replace Wall Lamp Switch (Single). (See Figure 4-53.)

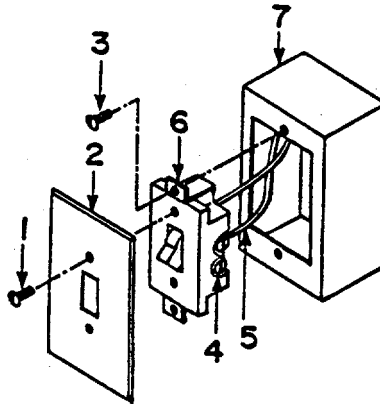
**WARNING**

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) Remove switch screws (1) and cover (2).
- (2) Remove lamp switch screws (3).
- (3) Pull switch (6) from switch-box (7).
- (4) Tag lamp switch wires (5). Loosen screws (4) and disconnect wires (5).  
Remove switch (6).
- (5) Connect wires (5) to replacement switch (6). Tighten screws (4) and remove tags.

4-42. **WALL LAMP SWITCHES ASSEMBLY.** - Continuedb. Replace Wall Lamp Switch (Single). - Continued. (See Figure 4-53.)

- (6) Install switch (6) in switch-box and secure with lamp switch screws (3).
- (7) Install editorial room lamp switch cover (2) and secure with lamp switch screws (1).



**Figure 4-53. Wall Lamp Switch Assembly (Single)**

c. Replace Wall Lamp Switch (Double). (See Figure 4-54.)

- (1) Remove darkroom wall lamp switch screws (1) and cover (2).
- (2) Remove darkroom wall lamp switch screws (3).
- (3) Pull darkroom wall lamp switches (4) from switch-box.
- (4) Tag darkroom wall lamp switch wires (5) and disconnect.
- (5) Connect darkroom wall lamp switch wires (5) to switch (4) and remove tags.
- (6) Install darkroom wall lamp switch (4) in switch-box and secure with wall lamp switch screws (3).
- (7) Install darkroom wall lamp switch cover (2) and secure with screws (1).

4-42. **WALL LAMP SWITCHES ASSEMBLY.** - Continued

- c. Replace Wall Lamp Switch (Double). - Continued. (See Figure 4-54.)

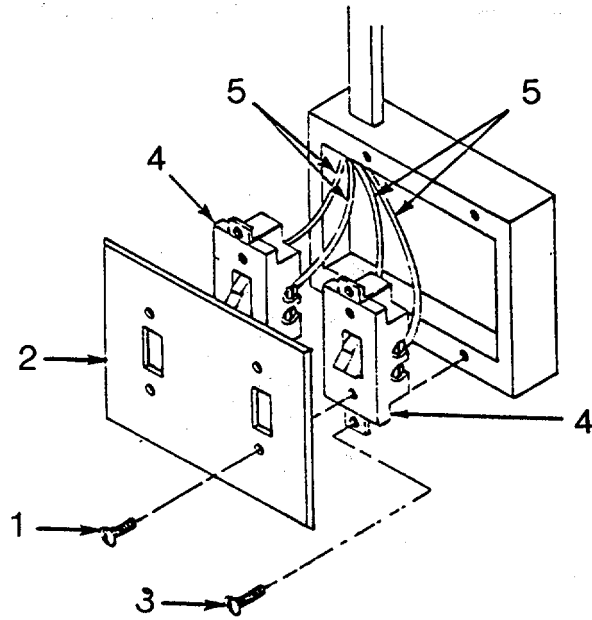


Figure 4-54. Wall Lamp Switch (Double)

4-43. **EQUIPMENT RECEPTACLES ASSEMBLY.**

This task covers: a. Inspect b. Remove

**INITIAL SETUP**

Tools

Electrical equipment tool kit

Materials

None

4-43. **EQUIPMENT RECEPTACLES ASSEMBLY.** - Continueda. Inspect. (See Figures 4-55, 4-56, and 4-57.)

- (1) Check shelter wall equipment receptacles for loose connections and excessive wear.
- (2) Inspect equipment receptacles covers for secure mounting.

**WARNING**

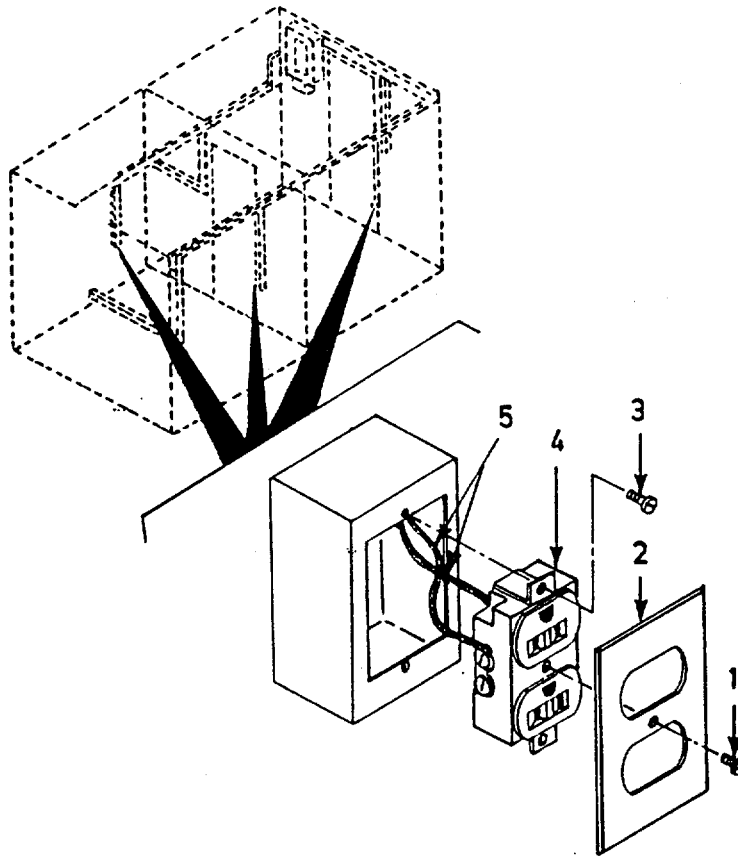
DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Be sure that circuit breakers are set to OFF. Be sure the equipment is properly grounded. Always have another person standing by who is familiar with electrical shock first aid.

b. Replace.

- (1) Wall Receptacles (Double). (See Figure 4-55.)
  - (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).

4-43. **EQUIPMENT RECEPTACLES ASSEMBLY.** - Continuedb. Replace. - Continued

**Figure 4-55. Wall Receptacles (Double)**

- (2) 110 Volt, 3 Prong Air Conditioner Receptacle. (See Figure 4-56.)
- (a) Remove receptacle screws (1) and cover (2).
  - (b) Remove receptacle screws (3).

4-43. **EQUIPMENT RECEPTACLES ASSEMBLY.** - Continuedb. Replace. - Continued

- (c) Pull receptacles (4) from conduit.
- (d) Tag receptacle wires (5) and disconnect.
- (e) Remove air conditioner 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).

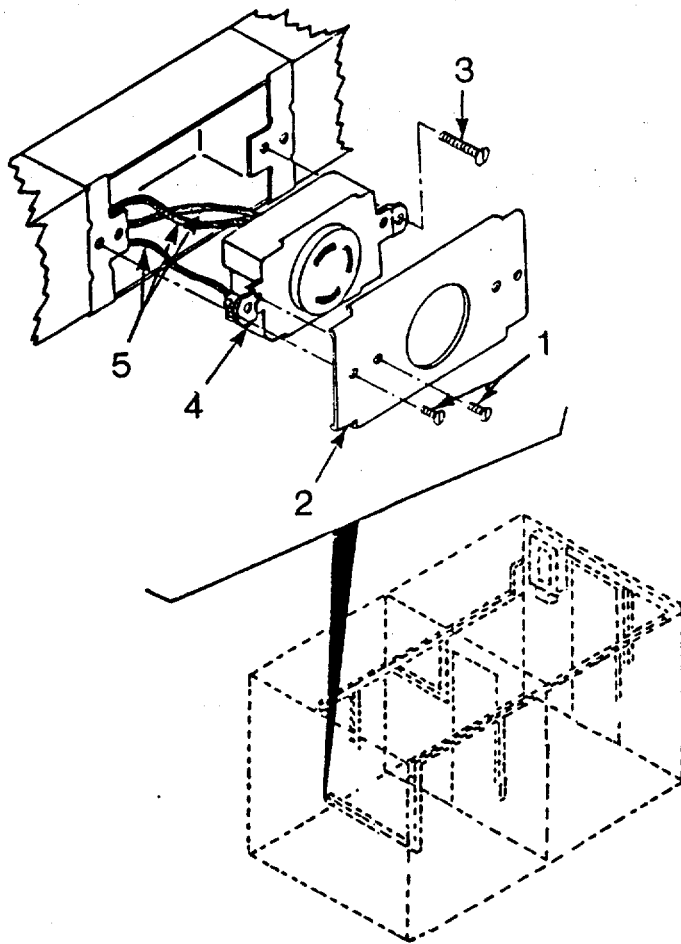


Figure 4-56. 110 Volt, 3 Prong Air Conditioner Receptacle

4-43. **EQUIPMENT RECEPTACLES ASSEMBLY.** - Continuedb. Replace. - Continued

- (3) Camera Receptacle. (See Figure 4-57.)
  - (a) Remove receptacle screws (1) and cover (2).
  - (b) Remove camera receptacle screws (3).
  - (c) Pull receptacle (4) from conduit.
  - (d) Tag camera receptacle wires (5) and disconnect.
  - (e) Remove receptacle (4).
  - (f) Connect wires (5) and receptacle (4) and remove tags. Position in conduit.
  - (g) Install screws (3) in camera receptacle.
  - (h) Install cover (2) on camera receptacle and secure with screw (1).

4-43. EQUIPMENT RECEPTACLES ASSEMBLY. - Continued

b. Replace. - Continued

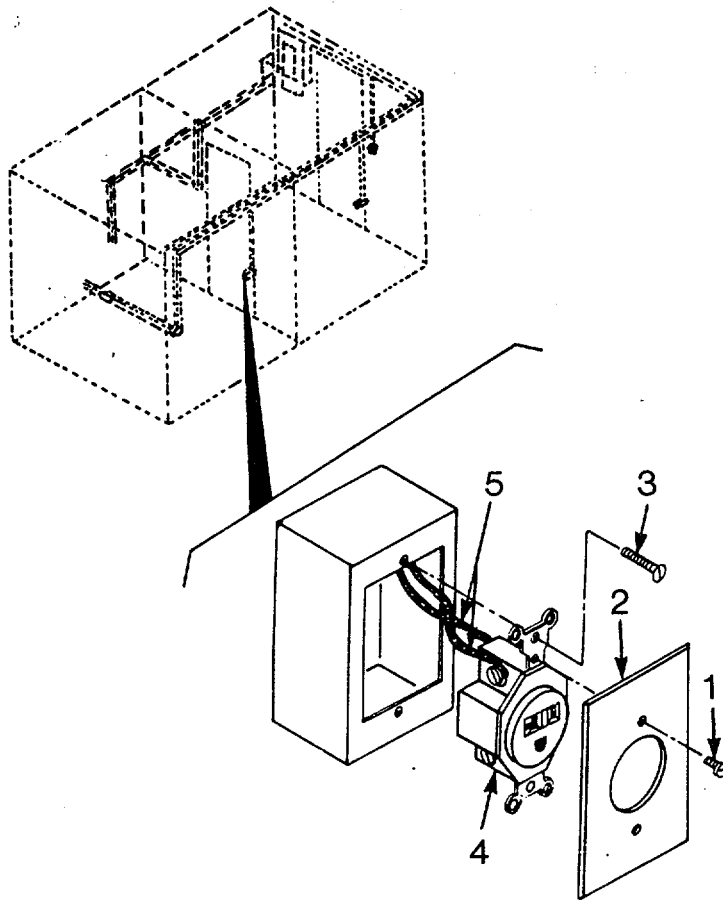


Figure 4-57. Camera Receptacle



**4-44. COMPOSING TABLE ASSEMBLY.**

This task covers:    a. Inspect            b. Remove

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit

## Materials

Strap and buckle assembly

- a. Inspect. (See Figure 4-58.)
  - (1) Check composing table on darkroom front interior wall for completeness and security of mounting.
  - (2) Check composing table for damages or broken or missing components.
- b. Replace. (See Figure 4-58.)
  - (1) Unlatch retaining strap (1) from composing table.
  - (2) Remove composing table (2) from storage mounting brackets.

**NOTE**

Remove the following only if necessary:

- (3) Remove screws (3) and fastener loops (4) from wall.
- (4) Remove retaining strap (1) from fastener loops (4).
- (5) Remove screws (5) and lockwashers (6) from mounting brackets (7).
- (6) Remove mounting brackets (7).
- (7) Secure brackets (7) to wall with screws (5) and lockwashers (6).
- (8) Install retaining strap (1) on fastener loops (4) and secure fastener loops (4) to wall with screws (3).
- (9) Install composing table (2) on storage mounting brackets (7).
- (10) Secure composing table with retaining strap (1).

4-44. **COMPOSING TABLE ASSEMBLY.**

b. Replace. - Continued. (See Figure 4-58.)

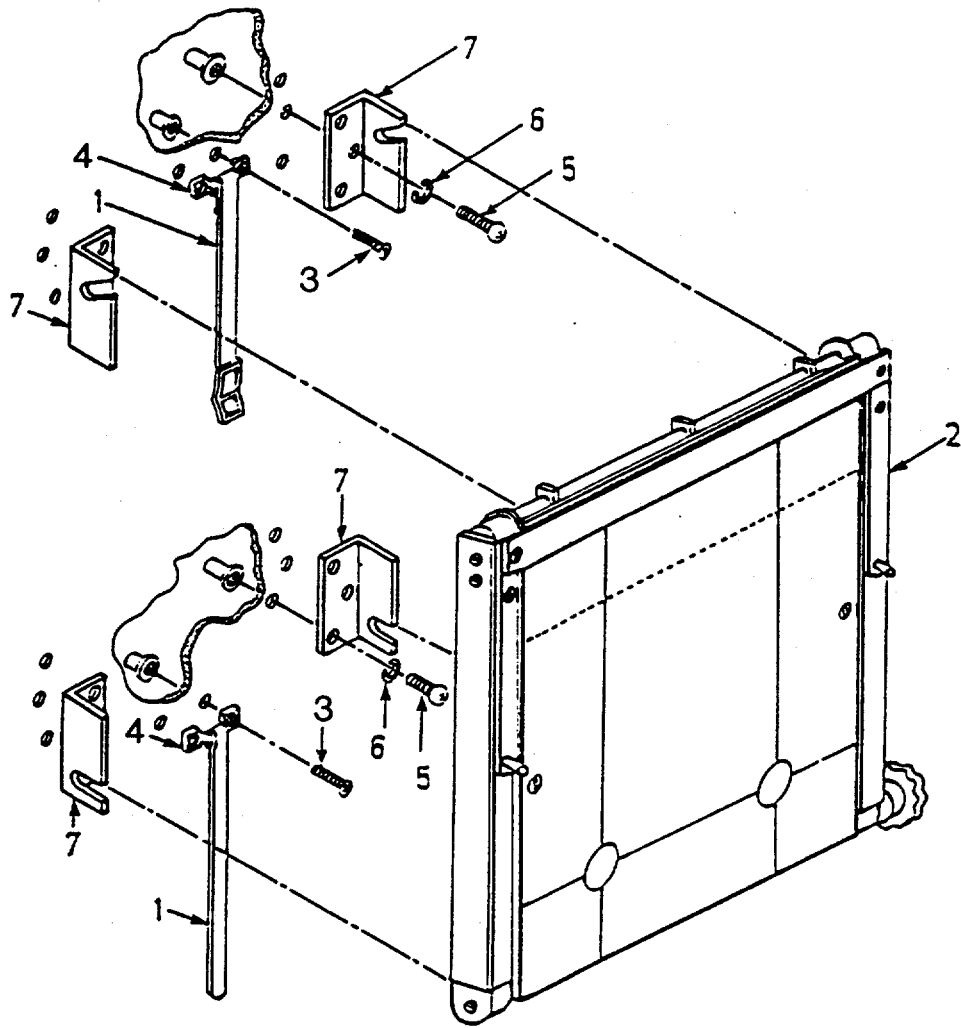


Figure 4-58. Composing Table Assembly

c. Repair.

Repair by replacing defective components. Refer to paragraph b. above.

4-45. **GUN RACK ASSEMBLY.**

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

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit

## Materials

None

a. Inspect. (See Figure 4-59.)

Inspect gun rack assembly for completeness and security of mounting.

b. Replace. (See Figure 4-59.)

(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 nuts (16), lockwashers (15), flat washers (14) and bolts (13).

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

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

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

4-45. **GUN RACK ASSEMBLY.** - Continued

c. Repair. (See Figure 4-59.)

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

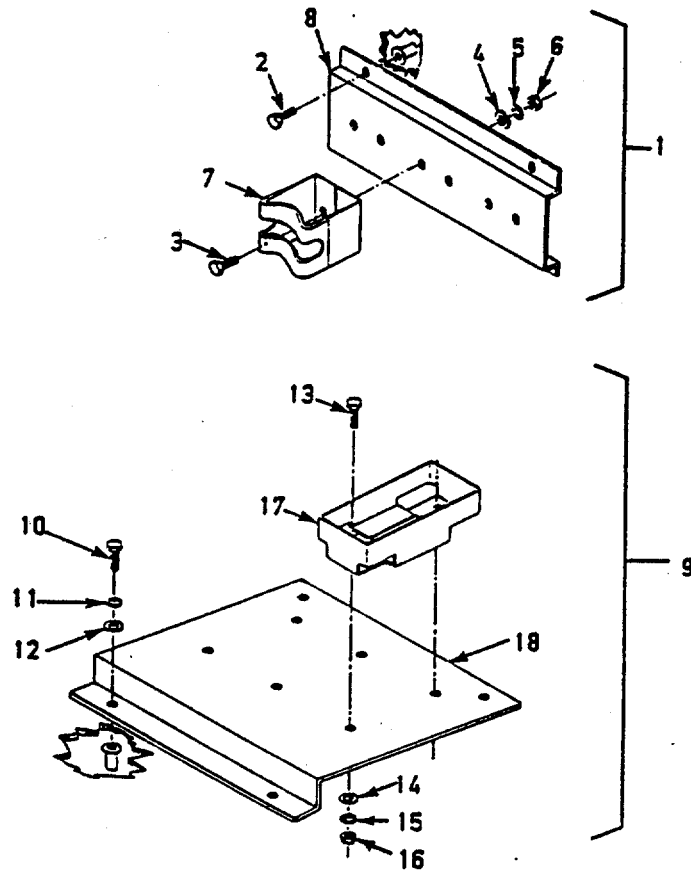


Figure 4-59. Gun Rack Assembly

## 4-46. TELEPHONE BRACKET ASSEMBLY.

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

**INITIAL SETUP**

## Tools

Electrical equipment tool kit

## Materials

None

a. Inspect. (See Figure 4-60.)

Check telephone bracket for completeness and security of mounting.

b. Replace. (See Figure 4-60.)

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

4-46. **TELEPHONE BRACKET ASSEMBLY.** - Continued

c. Repair. (See Figure 4-60.)

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

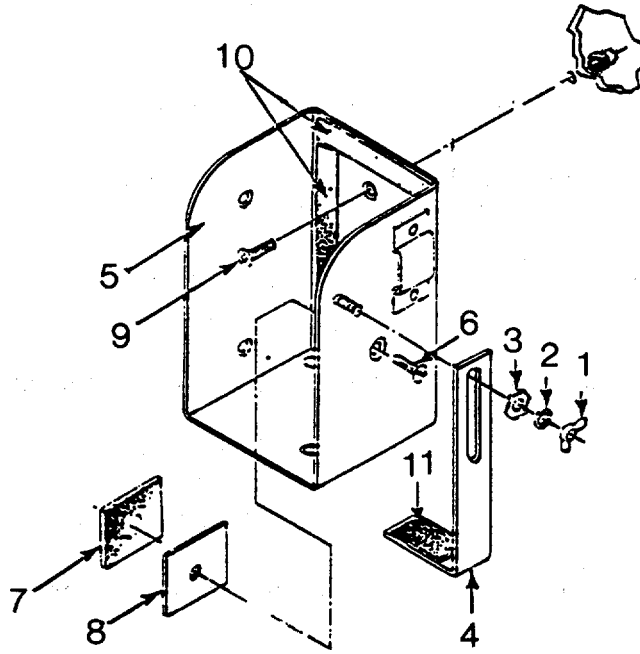


Figure 4-60. Telephone Bracket Assembly

4-47. **WALL PARTITION ASSEMBLY.**

This task covers: a. Inspect b. Remove

INITIAL SETUP

Tools

General mechanics automotive tool kit

Materials

Adhesive (4, Appendix E)

4-47. **WALL PARTITION ASSEMBLY.** - Continueda. Inspect. (See Figures 4-61, 4-62, and 4-63.)

(1) Inspect darkroom doorway curtain (1) and valance (2, Figure 4-62) for holes and for damage that will allow light through.

(2) Check holdback straps (2, Figure 4-61) for damage.

(3) Inspect curtain hooks (6, Figure 4-62) for freedom of motion through track.

(4) Check curtain track (5) for secure mounting.

(5) Inspect wall partition louver assembly (2, Figure 4-63) for bends, holes, and any damage that will restrict air flow or allow light through.

b. Repair. Repair of the wall partition assembly consists of removing and replacing components.

(1) Disconnect holdback strap (2, Figure 4-61) from curtain (1).

(2) Remove screws (3) and holdback strap (2).

(3) Remove screws (4), metal strip (5), and curtain (1).

(4) Remove rivets (1, Figure 4-62) in darkroom doorway.

(5) Remove valance (2) and valance retaining strip (3) from darkroom doorway.

(6) Remove screws (4) and carrier (5) from darkroom doorway.

(7) Remove hooks (6) from darkroom doorway.

(8) Remove screws (7) and connectors (8) from darkroom doorway.

(9) Remove rivets (9), hook fastener tapes (10), and metal strips (11).

(10) Remove screws (12) and threshold (13).

4-47. WALL PARTITION ASSEMBLY. - Continued

b. Repair. - Continued.

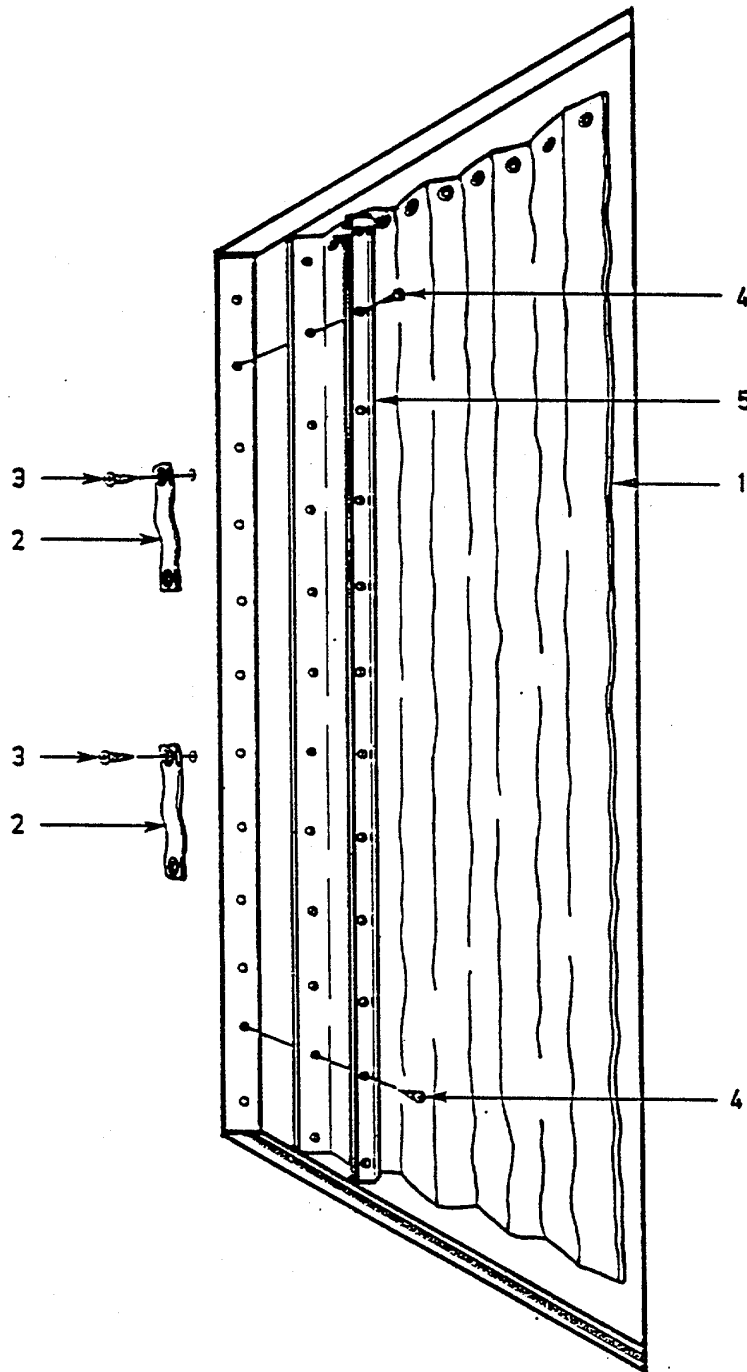


Figure 4-61. Wall Partition Assembly Curtain



4-47. WALL PARTITION ASSEMBLY. - Continued

b. Repair. - Continued.

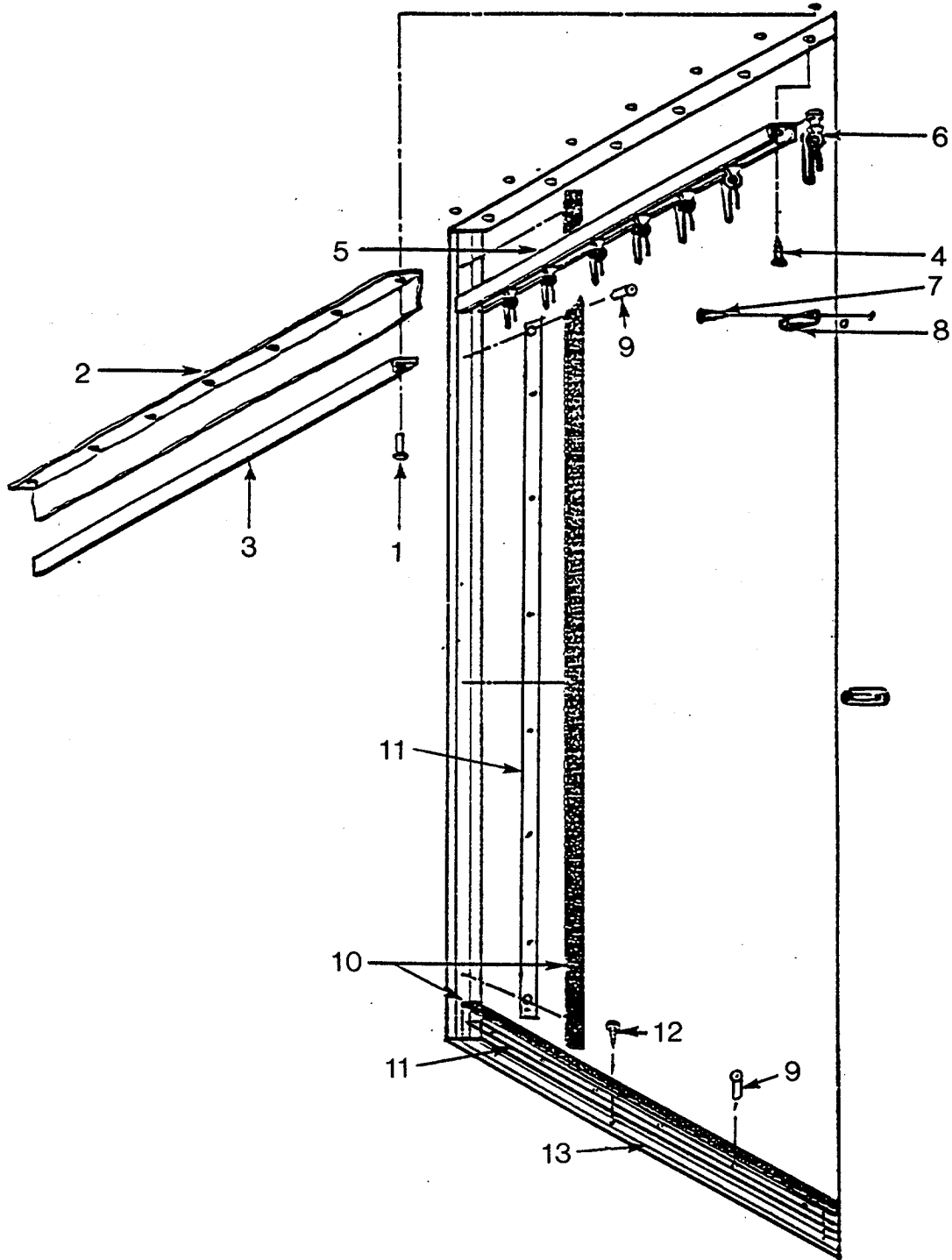
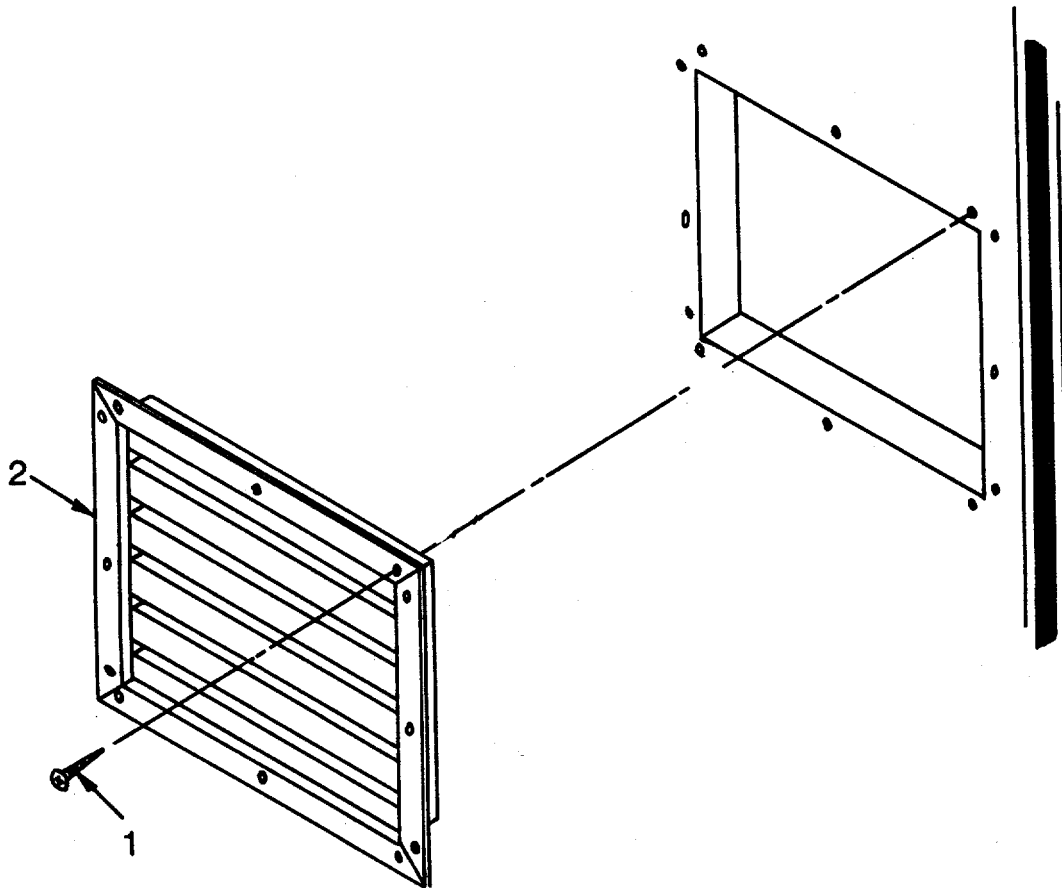


Figure 4-62. Wall Partition Assembly Carrier

4-47. **WALL PARTITION ASSEMBLY.** - Continued

b. Repair. - Continued

(11) Remove screws (1, Figure 4-63) louver (2).

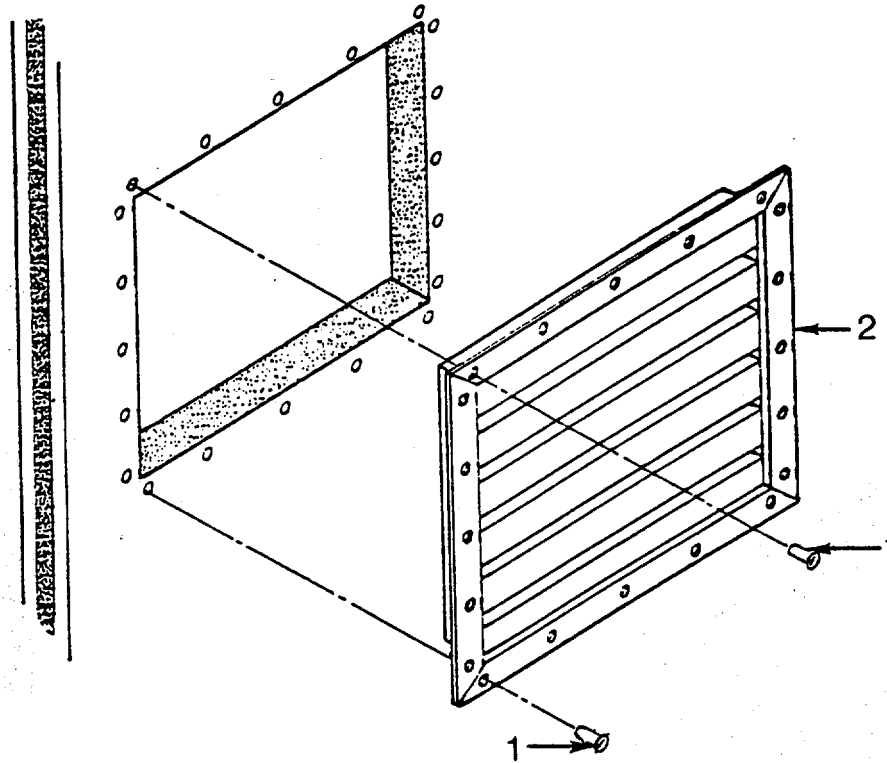


**Figure 4-63. Louver Assembly Removal**

(12) Remove rivets (1, Figure 4-64) from louver assembly by drilling or chiseling off head.

(13) Remove louver (2).

## 4-47. WALL PARTITION ASSEMBLY. - Continued

b. Repair. - Continued (See Figure 4-64.)

**Figure 4-64. Louver Assembly Replacement**

- (14) Install louver (2, Figure 4-64) and rivets (1).
- (15) Install louver (2, Figure 4-63) and screws (1).
- (16) Install threshold (13, Figure 4-62) with screws (12).
- (17) Apply adhesive (4, Appendix E) to metal strips (11).
- (18) Install hook fastener tapes (10), metal strips (11), and rivets (9).
- (19) Install hooks (6), carrier (5), and screws (4) in darkroom doorway.
- (20) Install connectors (8) and screws (7) in darkroom doorway.

4-47. **WALL PARTITION ASSEMBLY.** - Continued

b. Repair. - Continued

- (21) Install valance (2), valance retaining strap (3), and rivets (1) in darkroom doorway.
- (22) Install curtain (1, Figure 4-61), metal strip (5), and screws (4).
- (23) Install holdback strap (2) and screws (3).
- (24) Connect holdback strap (2) and curtain (1).

4-48. **STOOL HOLDDOWN ASSEMBLY.**

This task covers: a. Inspect b. Remove

INITIAL SETUP

Tools

General mechanics automotive kit

Materials

Strap and buckle assembly

a. Inspect. (See Figure 4-65.)

- (1) Inspect webbing of strap assemblies (3) on roadside shelter wall under each light table for wear, frayed sewing, and decayed fabric.
- (2) Inspect fastener loops (2) for secure mounting to roadside shelter wall.

4-48. **STOOL HOLDDOWN ASSEMBLY.** - Continued

- a. Inspect. (See Figure 4-65.)

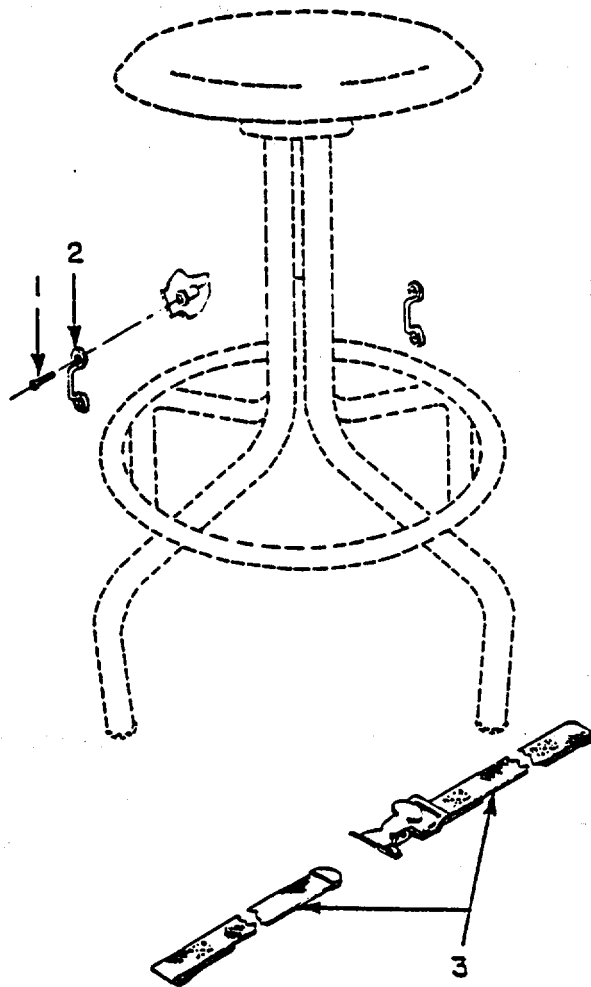


Figure 4-65. Stool Holddown Assembly

**4-48. STOOL HOLDDOWN ASSEMBLY.** - Continued

- b. Replace. (See Figure 4-65.)
  - (1) Remove screws (1) and fastener loops (2) from shelter wall.
  - (2) Remove strap assembly (3) from fastener loops (2).
  - (3) Install replacement strap assembly (3) on fastener loops (2).
  - (4) Install and secure fastener loops (2) to shelter wall with screws (1).

**4-49. FOLDING CHAIR HOLDDOWN ASSEMBLY.**

This task covers:    a. Inspect            b. Remove

**INITIAL SETUP**

## Tools

General mechanics automotive tool kit

## Materials

Strap and buckle assembly

- a. Inspect. (See Figure 4-66.)
  - (1) Inspect strap assembly webbing on roadside partition opposite camera for wear, frayed sewing, and decayed fabric.
  - (2) Inspect fastener loops (2) for secure mounting to wall.
- b. Replace. (See Figure 4-66.)
  - (1) Remove screws (1) and fastener loops (2) from shelter wall.
  - (2) Remove strap assembly (3) from fastener loops (2).
  - (3) Install replacement strap assembly (3) on fastener loops (2).
  - (4) Install and secure fastener loops (2) to shelter wall with screws (1).

4-49. **FOLDING CHAIR HOLDDOWN ASSEMBLY.** - Continued

b. Replace. - Continued (See Figure 4-66.)

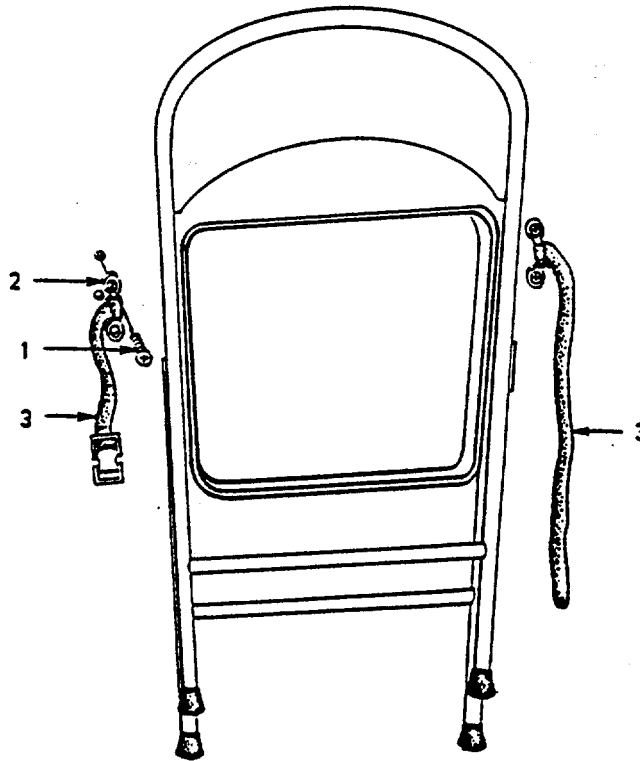


Figure 4-66. Folding Chair Holddown Assembly

**SECTION VII. PREPARATION FOR STORAGE OR SHIPMENT**

4-50. **GENERAL.** Refer to Chapter 2, Section II for detailed procedures for preparing the editorial 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 Editorial 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 editorial shelter.

**SECTION II. SERVICE UPON RECEIPT, STORAGE, OR SHIPMENT**

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 editorial 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 editorial shelter system and components.

**Table 5-1. Direct Support Troubleshooting**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
--------------------	---------------------------	--------------------------

**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**

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
--------------------	---------------------------	--------------------------

**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.

**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.

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

**Table 5-1. Direct Support Troubleshooting - Continued**

<b>MALFUNCTION</b>
<b>TEST OR INSPECTION</b>
<b>CORRECTIVE ACTION</b>

**2. CIRCUIT BREAKER WILL NOT REMAIN IN ON POSITION. - CONT.**

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 editorial 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, or TM 5-4120-340-14, Organizational, Direct Support, and General Support for direct support maintenance and repair procedure pertaining to the air conditioners.

Refer to TM 11-5410-213-14P-1 and TB 43-0124, 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.

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

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

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

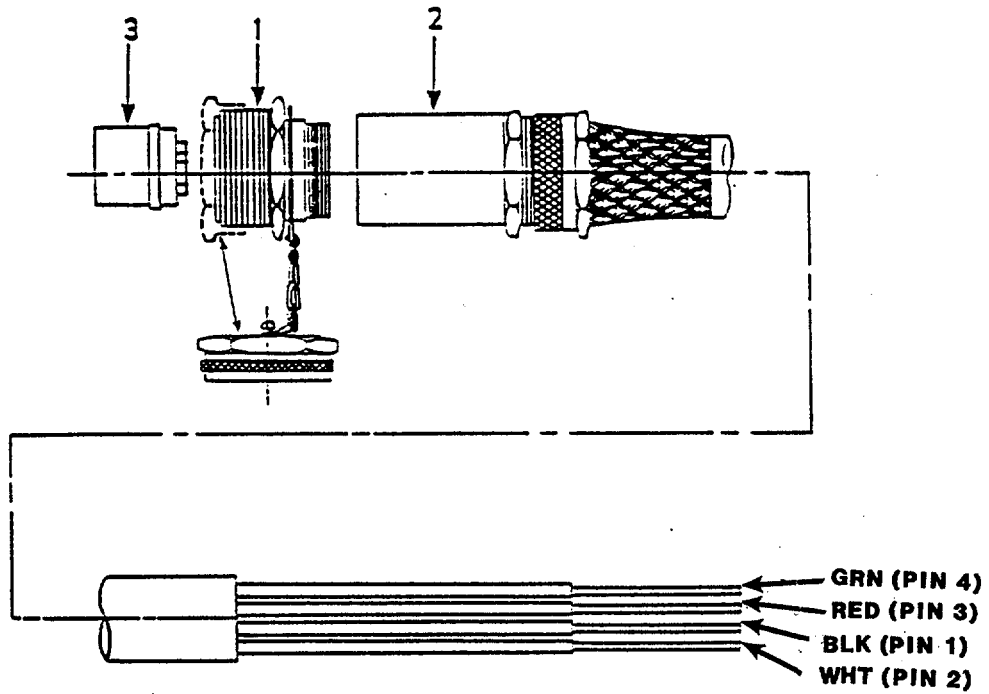


Figure 5-1. Main Power Cable Assembly



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**

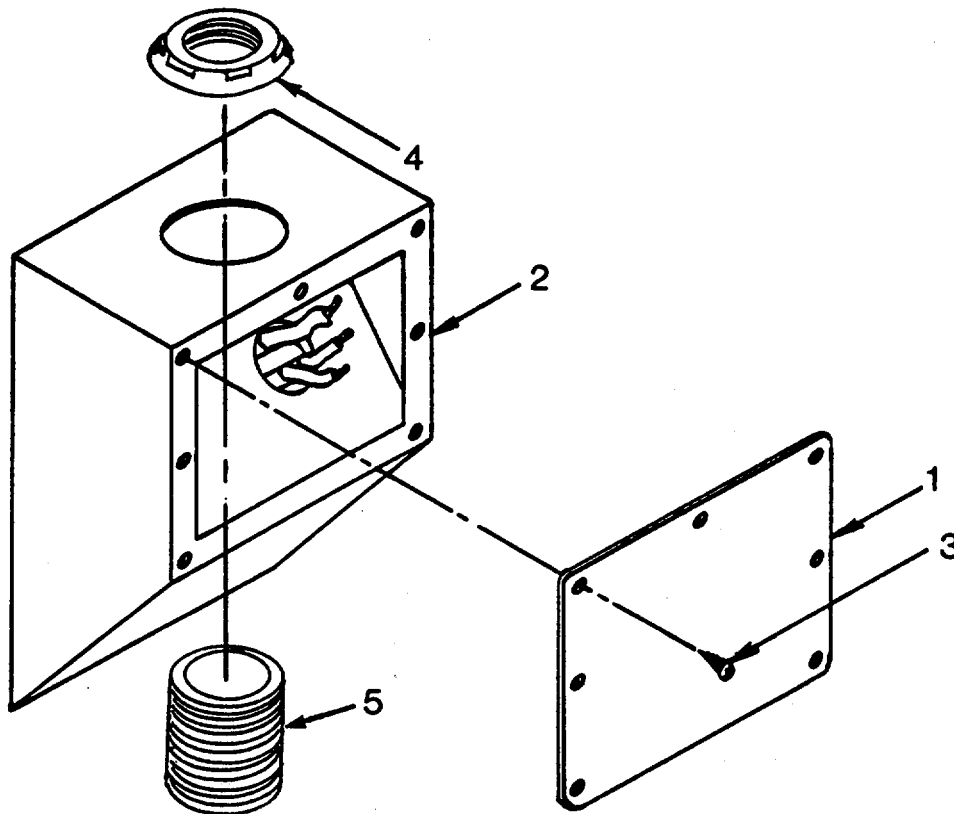
DEATH or serious injury could result if electrical precautions are not taken when maintaining this equipment. Use extreme caution during the disconnect process. Disconnect the power source from power cable and disconnect cable.

- 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.

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

b. Replace.

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



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

(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.

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

b. Replace. - Continued

- (4) Remove nuts (1, Figure 5-3), lockwashers (2), flat washers (3), and screws (4) from main power receptacle.
- (5) Remove receptacle (5), gasket (6), and cap (7) from recessed receptacle box.
- (6) Remove rivets (8) from recessed receptacle box by drilling or chiseling off heads.

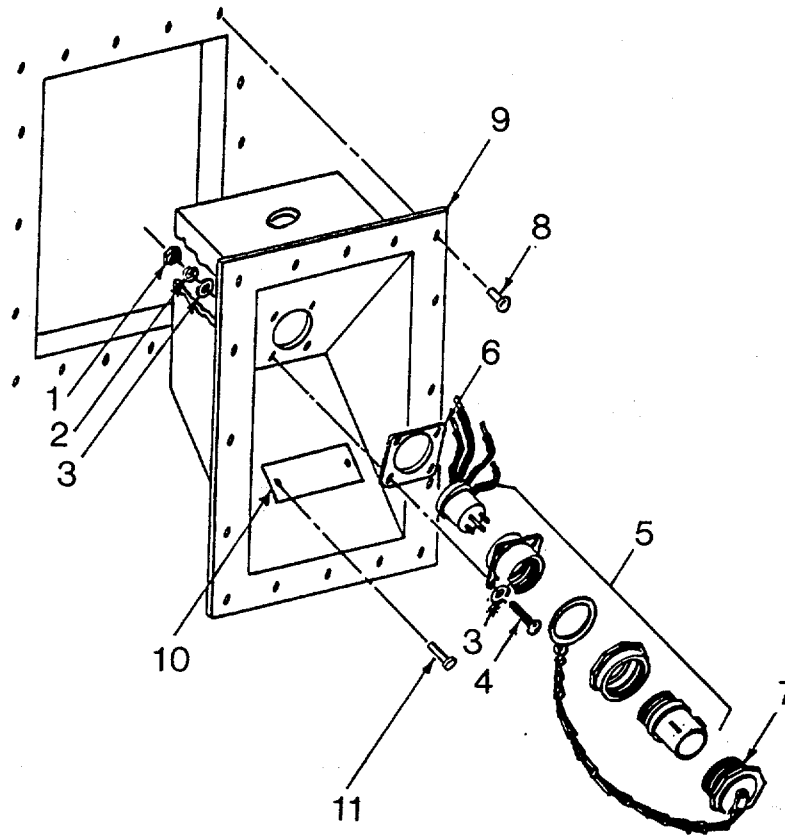


Figure 5-3. Main Power Cable Receptacle Assembly (Outside Shelter)

5-11. **MAIN POWER RECEPTACLE ASSEMBLY.** - Continuedb. 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, match drill holes, and secure with rivets (11).
- (10) Position receptacle box (9) in shelter wall opening and secure with rivets (8).
- (11) Install main power receptacle (5), cap (7), and gasket (6).
- (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 (1, Figure 5-2) 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 attaching screws (1).

c. Repair. (See Figures 5-2 and 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.

b. Repair. (See Figure 5-4.)**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

b. Repair. - Continued (See Figure 5-4.)

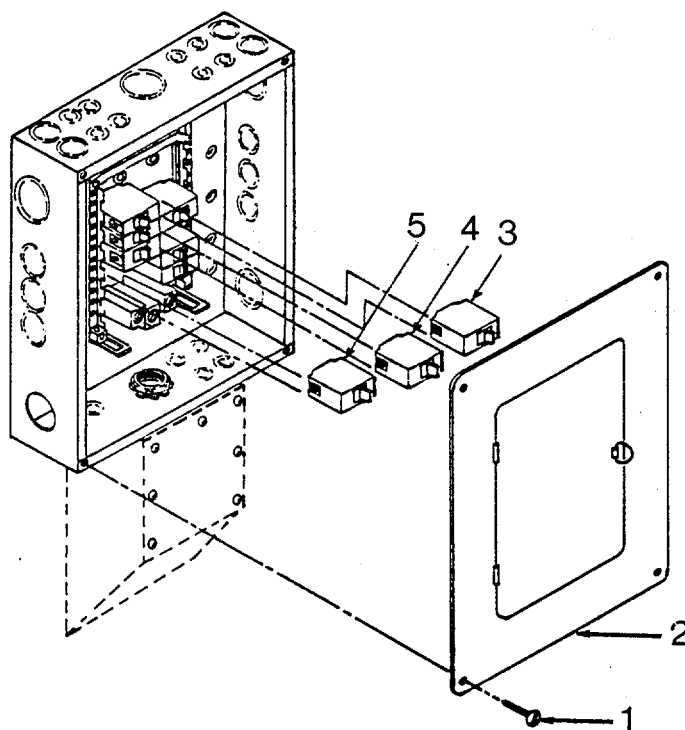


Figure 5-4. Main Power Service Assembly

5-12. **MAIN POWER SERVICE ASSEMBLY.** - Continued

b. Repair. - 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.
- (4) Position replacement circuit breakers (3, 4, 5) and push onto mounting and contact bars.
- (5) Connect circuit breaker wire to circuit breaker terminals and remove tags.
- (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.

5-13. **RIGID CONDUIT ASSEMBLY.** - Continued

b. Repair. Repair of the rigid conduit assembly consists of replacing components as follows:

(1) Replace conduit.

**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.)

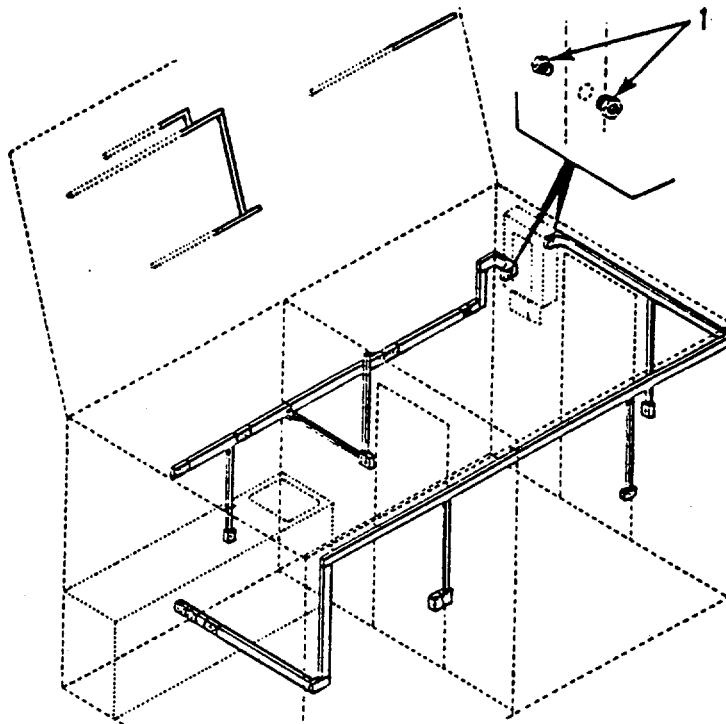


Figure 5-5. Conduit Bushings



## 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).

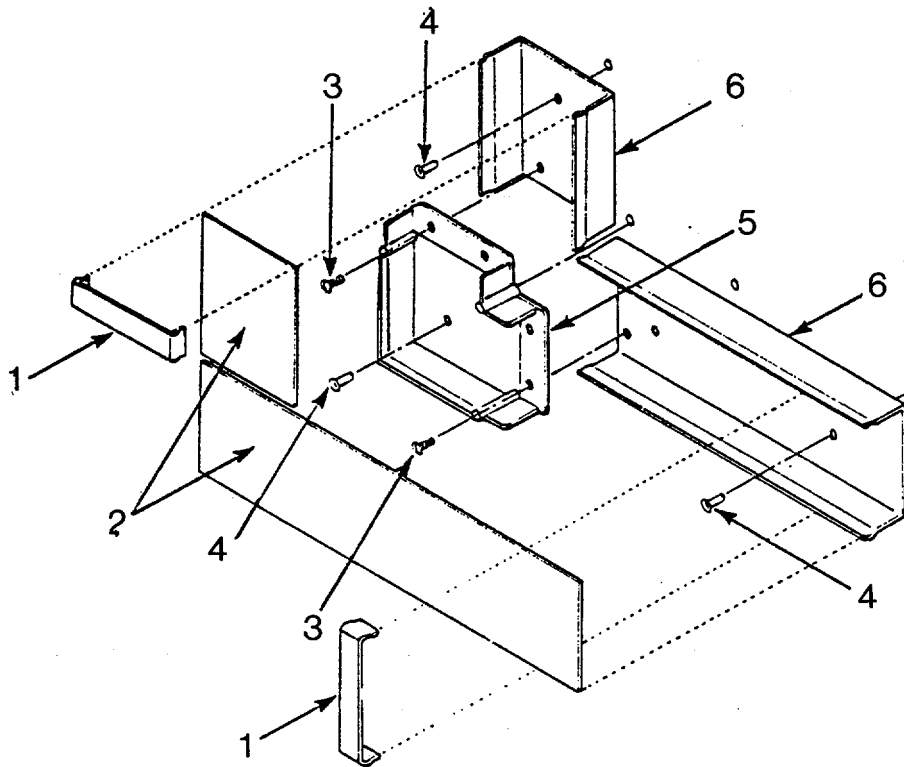
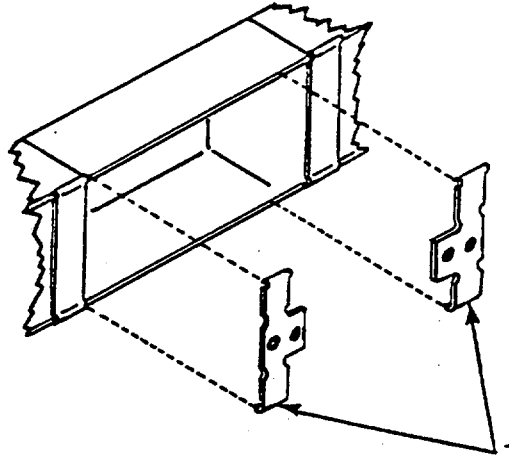


Figure 5-6. Rigid Conduit Assembly

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), clips (1) and bushing (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).

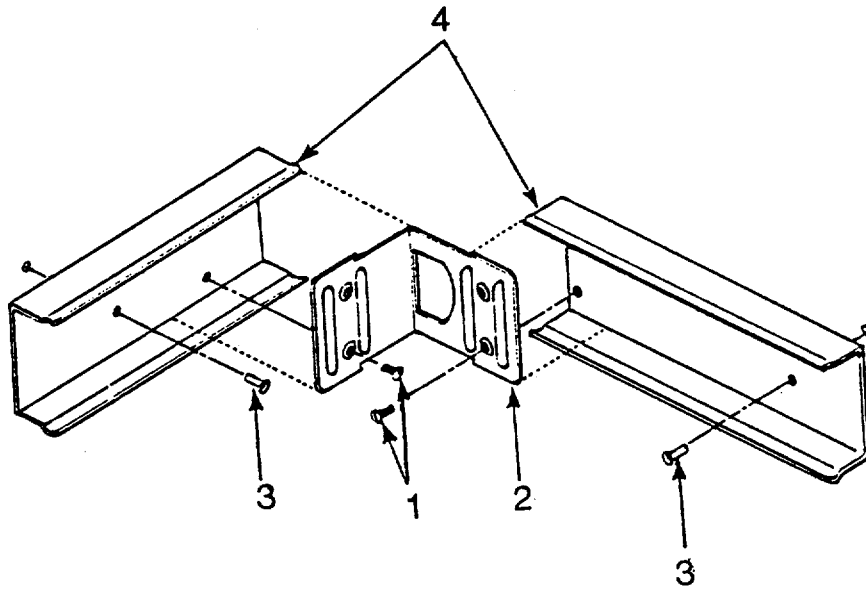


Figure 5-8. Right Angle Corner Conduit

(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.

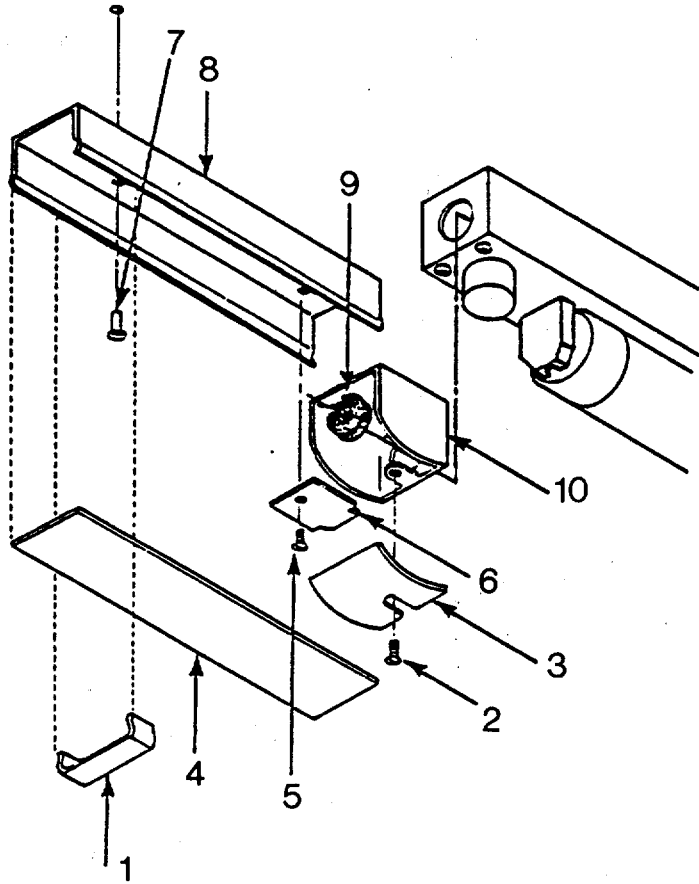


Figure 5-9. Entrance End Fitting

(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 channel (6) and mounting plate (7) 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).

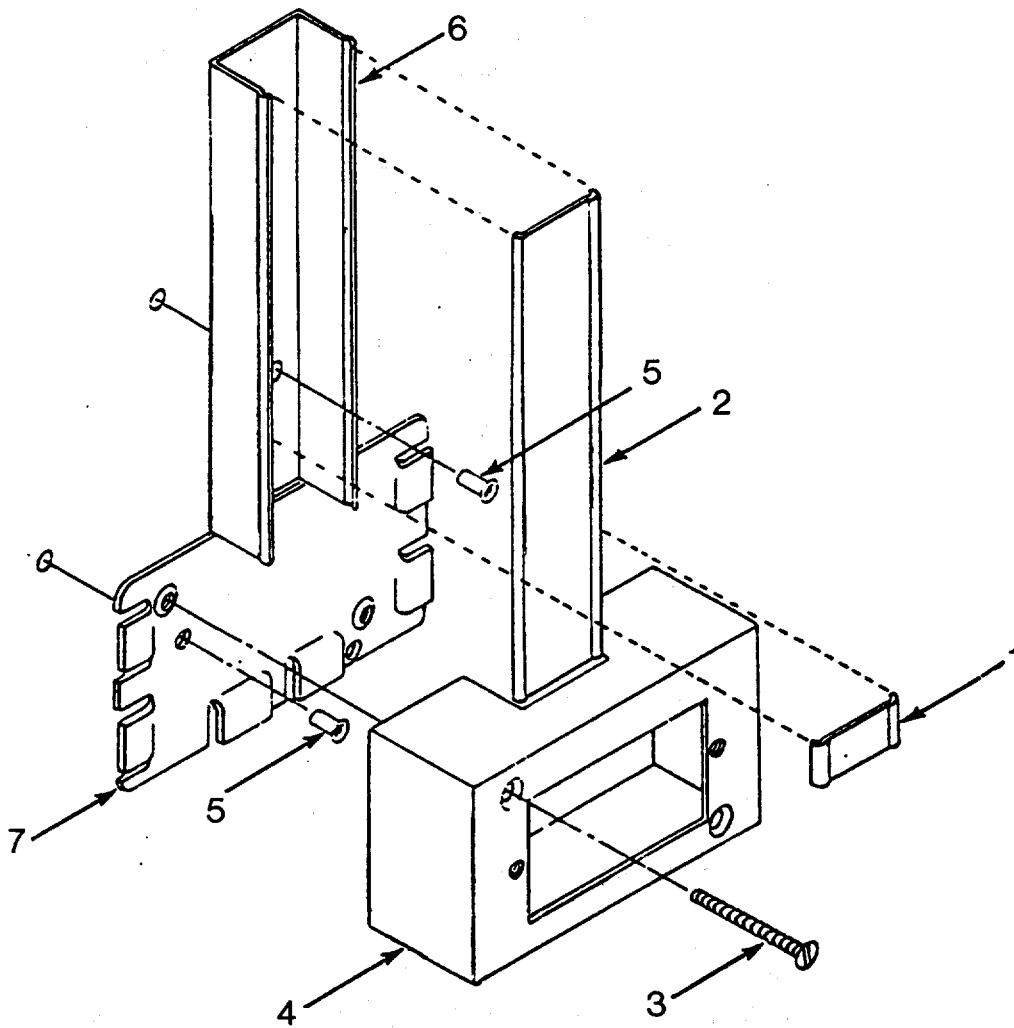


Figure 5-10. Utility Boxes

**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. 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.)
- (4) Install conduit wire clips, channel cover and cover clips. Refer to paragraph 5-13.

5-14. ELECTRICAL WIRING ASSEMBLY. - Continued

b. Repair. - Continued.

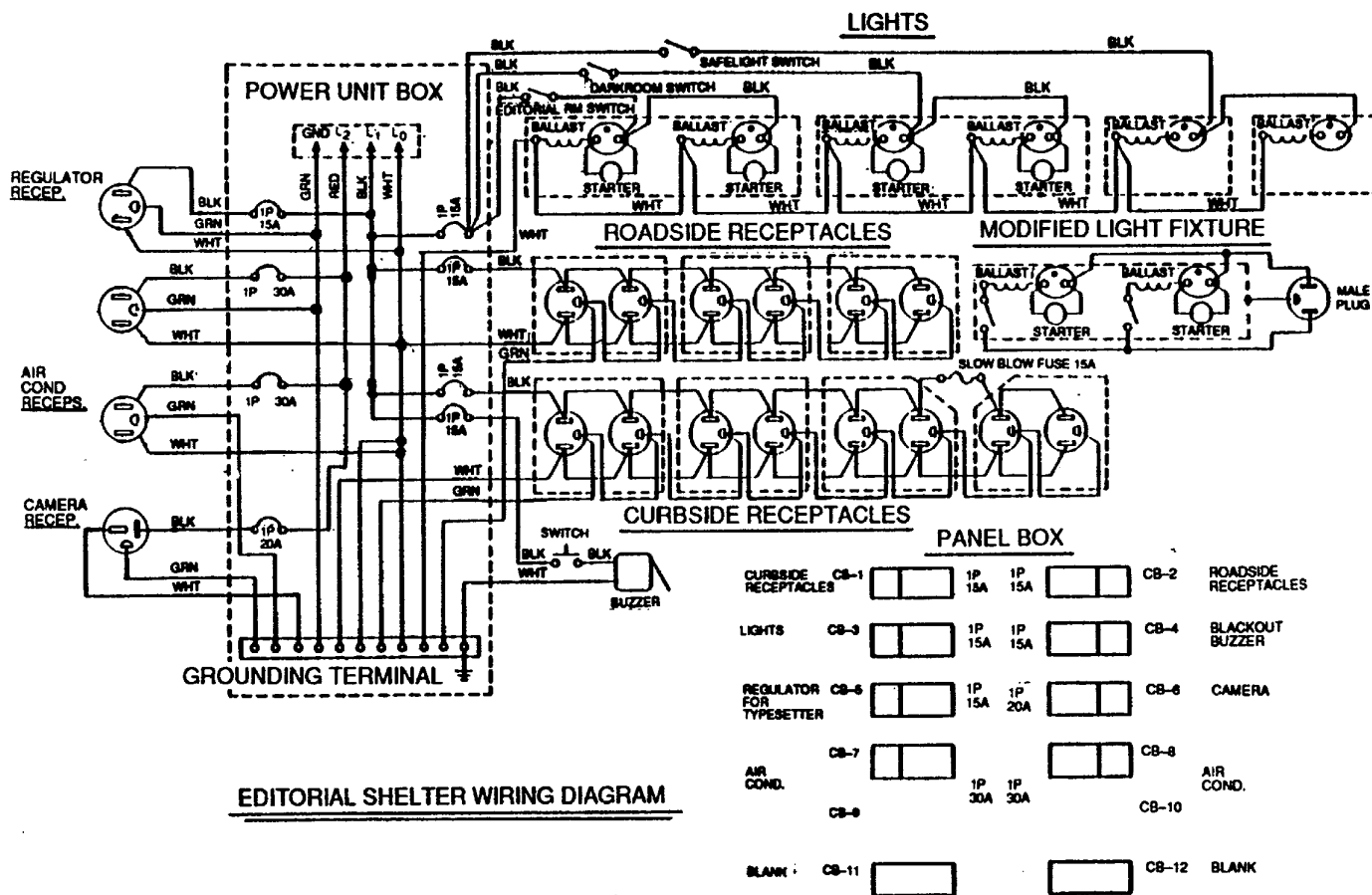


Figure 5-11. Electrical Wiring Diagram



**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; 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
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

A-3. **TECHNICAL MANUALS.** - Continued

Truck, Cargo; 2 1/2 ton - Continued

.....	TM 9-2320-209-20-3-1
.....	TM 9-2320-209-20-3-2
.....	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

Camera, Copying, Lithographic .....	TM 5-3610-303-12&P
Platemaker (Vacuum Frame) .....	TM 5-3610-301-12&P

Phototypesetter .....	TM 5-3610-302-12
.....	TM 5-3610-302-20P

Destruction of Army Material .....	TM 750-244-3
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A-4. **MISCELLANEOUS PUBLICATIONS.**

The Army Maintenance Management System .....	DA PAM 738-750
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**APPENDIX B****MAINTENANCE ALLOCATION CHART (MAC)**

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**INTRODUCTION****The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

This MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component levels, which are shown on the MAC in column (4) as:

Field – includes two columns, Unit maintenance and Direct Support maintenance. The Unit maintenance column is divided again into two more subcolumns, C for Operator or Crew and O for Unit maintenance.

Sustainment – includes two subcolumns, General Support (H) and Depot (D)

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

**Maintenance Functions**

Maintenance functions are limited to and defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.
2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
3. Service. Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:
  - a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.
  - b. Repack. To return item to packing box after service and other maintenance operations.
  - c. Clean. To rid the item of contamination.

- d. Touch up. To spot paint scratched or blistered surfaces.
- e. Mark. To restore obliterated identification.
- 4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
- 5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- 6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment 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.
- 7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- 8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.
- 9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
- 10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

**NOTE**

The following definitions are applicable to the "repair" maintenance function:  
Services. Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly. The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, and that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

- 11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards 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.

12. 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 materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

**Explanation of Columns in the MAC**

Column (1) Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized. Column (3) Maintenance Function.

Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above). Column (4) Maintenance Level.

Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time 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 varies at different maintenance levels, appropriate work time figures are to 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 time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

Field: C Operator or Crew maintenance  
 O Unit maintenance  
 F Direct Support maintenance

Sustainment:

L Specialized Repair Activity  
 H General Support maintenance  
 D Depot maintenance

**NOTE**

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks table entries.

**Table 1. MAC for  
Edit and Photomechanical Shelter**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT- ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
00	Ed & Photo Mech Shelter								
01	Wall Cabinet Assembly	Inspect Replace Repair	0.1 0.5 0.3				1 1		
02	Historical File Cabinet Assembly	Inspect Replace Repair	0.1 0.7 1.5				1 1		
03	Light Table Assembly	Inspect Replace Repair	0.2 0.2 0.7 1.5				1 1,2		
04	Artist Supply Cabinet Assembly	Inspect Replace Repair	0.1 0.5 1.0				1 1		
05	Fold-Down Tray Assembly	Inspect Replace Repair	0.1 0.5 1.0				1 1		
06	PMT Processor and Support Assembly	Inspect Replace	0.1 1.0				1	A	
07	Vertical Camera Mounting Assembly	Inspect Replace	0.1 4.0				1		
08	Safelight Assembly	Inspect Replace Repair	0.3 0.3 0.5				1 1,2		
09	Film Dryer and Mounting Assembly	Inspect Replace Repair	0.2 0.5				1	B	
10	Supply Storage Cabinet Assembly	Inspect Repair	0.4 2.2				1		
11	Rub-Up Board and Mounting Assembly	Inspect Replace Repair	0.1 0.2 1.0				1 1		

**Table 1. MAC for  
Edit and Photomechanical Shelter  
(Continued)**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT- ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
12	Water Supply Cabinet Assembly	Inspect Repair	0.2	2.2				1	
13	Phototray Assembly	Inspect	0.1						
14	Water Tank and Mounting Assembly	Inspect Repair	0.2	2.0				1, 4	
15	Counter Top and Sink Assembly	Inspect Repair	0.2	1.5				1, 4	
16	Vertical Vacuum Frame Assembly	Inspect Replace	0.2	0.2 1.0				1	C
17	Viewing Light Assembly	Inspect Replace Repair	0.1	0.2 0.7 1.0				1 1, 2, 3	
18	Pin-Point Light Assembly	Inspect Replace Repair	0.2	0.2 0.7 1.0				1 1	
19	Phototypesetter Assembly								
	Digital Slave Typesetter Assembly	Inspect Replace Repair	0.2	0.2 0.5				1 **	D
	Keyboard Terminal Assembly	Inspect Replace Repair	0.2	0.2 0.5				1	D
	Monitor Assembly	Inspect Replace Repair	0.2	0.2 0.5			1.0	1	D
	Controller Assembly	Inspect Replace Repair	0.2	0.2 0.5 1.0				1	D
	Phototypesetter Processor Assembly	Inspect Replace	0.2	0.2 0.5				1	
** Depot Task Time Not Established.									

**Table 1. MAC for  
Edit and Photomechanical Shelter  
(Continued)**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT- ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
20	Miscellaneous Components Assembly								
	Fire Extinguisher Assembly	Inspect Replace	0.1	0.2			1		
	First Aid Kit Assembly	Inspect Replace	0.1	0.2			1		
21	Air Conditioner Assembly	Inspect Replace Repair	0.1	3.0			1	E	
22	Blackout Warning Assembly	Inspect Repair	0.1	0.5			2, 3		
23	External Components Assembly								
	Door Fresh Air Filter Assembly	Inspect Service Replace	0.1 0.5	0.3			1		
	Door Blackout Lockpin Assembly	Inspect Replace	0.1	0.3			1		
	Drop-Off Box Assembly	Inspect Replace Repair	0.1	1.0 1.0			1, 5 1, 5		
	Telephone Binding Post Assembly	Inspect Replace Repair	0.1	1.0 0.5			1, 5 1, 5		
	Level Indicator Assembly	Inspect Replace Repair	0.1	2.0 0.5			1, 5 1, 5		
	Ladder Assembly	Inspect Replace	0.1	0.3 0.5			1 1		



**Table 1. MAC for  
Edit and Photomechanical Shelter  
(Continued)**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT- ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
24	Main Power								
	Main Power Cable Assembly	Inspect Repair	0.1 0.1	0.1 1.0				2, 3	
	Main Power Receptacle Assembly	Inspect Replace Repair	0.1 0.1	0.1 4.0 2.0				2, 3 2, 3	
	Main Power Service Assembly	Inspect Repair	0.1 0.1	0.1 0.5				2, 3	
25	Electrical System Assembly								
	Ceiling Lamp Assembly	Inspect Replace Repair	0.1 0.1	0.1 1.0				2, 5	
	Wall Lamp Switches Assembly	Inspect Replace	0.1 0.1	0.1 0.2				2	
	Equipment Receptacles Assembly	Inspect Replace	0.1 0.1	0.1 0.5				2	
	Rigid Conduit Assembly	Inspect Repair	0.2		0.2 2.0			1, 2, 5	
	Electrical Wiring Assembly	Inspect Repair	0.2		0.2 2.0			2	
	Composing Table Assembly	Inspect Replace Repair	0.1 0.1	0.1 0.7 1.0				1 1	
27	Gun Rack Assembly	Inspect Replace Repair	0.1		0.5 0.4			1 1	
	Telephone Bracket Assembly	Inspect Replace Repair	0.1 0.1	0.1 0.5 0.3				1, 5 1	

**Table 1. MAC for  
Edit and Photomechanical Shelter  
(Continued)**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT- ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			UNIT		FIELD	SUSTAINMENT			
			C	O	DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
					F	H	D		
29	Wall Partition Assembly	Inspect Repair	0.2	2.0				1	
30	Stool Hold-down Assembly	Inspect Replace	0.1	1.0				1	
31	Folding Chair Hold-down Assembly	Inspect Replace	0.1	1.0				1	

**Table 2. Tool and Test Equipment  
for Edit and Photomechanical Shelter**

Tool or Test Equipment	Maintenance Level	Nomenclature	National Stock Number	Tool Number
1	O, F	General Mechanics Automotive Tool Kit	5180-01-177-7033	SC5180-90-N26
2	O, F	Electrical Equipment Tool Kit	5180-00-876-9336	(19204) 7550526
3	O, F	Multimeter, Digital	6625-01-139-2512	(55026) T00377
4	O, F	Wrench, Pipe	5120-01-192-9385	(55719) PW18B
5	O, F	Hand Blind Riveter	5120-00-017-2849	(61957) 98

**Table 3. Remarks for  
Edit and Photomechanical Shelter**

REFERENCE CODE	REMARKS
A	Consult PMT Processor commercial service manuals for maintenance instructions and repair parts.
B	Consult Film Dryer commercial service manuals for maintenance instructions and repair parts.
C	Consult Vertical Vacuum Frame TM 5-3610-301-12&P for maintenance instructions and repair parts.
D	Consult Processor, Phototypesetter assembly commercial service manuals and TM 5-3610-302-12 and TM 5-3610-302-20P for maintenance instructions and repair parts.
E	Consult TM 9-4120-378-14 and TM 9-4120-378-24P 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 editorial 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 place the editorial shelter in operation, to operate it, and to perform emergency repairs. Although packaged separately BII must be with the editorial 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.

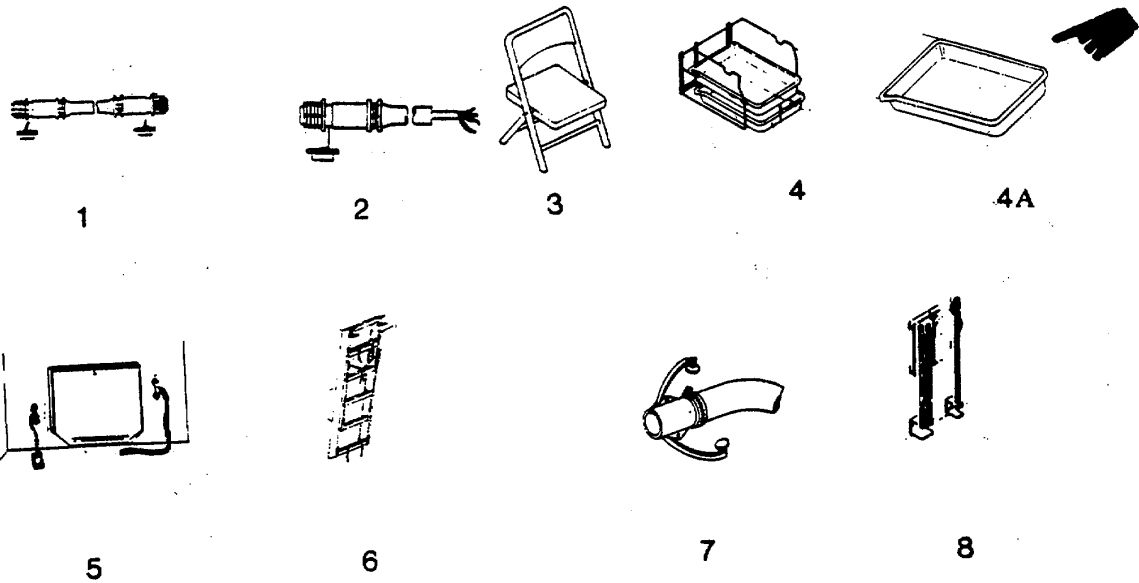
b. Column (2) National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning purposes.

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



(1) Illus Numbe r	(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	7105-00-269- 8463	CHAIR, FOLDING		EA	1
4	6740-01-033- 1075	RACK, PHOTO TRAY		EA	1
4A		TRAY, PROCESSING (10066)1400		EA	1
5	3610-01-037- 6326	RUB-UP BOARD ASSEMBLY		EA	1
6	2540-00-892- 6243	LADDER, STEEL, BOARDING		EA	1
7	4720-00-882- 1379	HOSE, NONMETALLIC		FT	7
8	5975-00-878- 3791	ROD, GROUND, COPPER		EA	1

SECTION II. COMPONENTS OF END ITEM



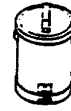
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10



11



12



13



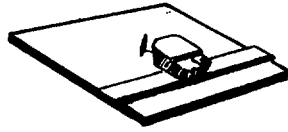
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15

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
9	5120-01-013-1676	SLIDE HAMMER, GROUND ROD		EA	1
10	3940-00-846-9858	SLING, MULTIPLE LEG LIFTING AND TIEDOWN		EA	1
11	7110-00-634-8596	STOOL, REVOLVING		EA	2
12	-7240-00-282-8411	CAN, WASTE, FLAMMABLE, 6 GL		EA	1
13	6640-01-180-3425	EYEWASH STATION		EA	1
14	4730-00-360-0944	COUPLING HALF, QUICK DISCONNECT		EA	1
15	Not Assigned	PUNCH, PLATE (52230) PUNCH AND REPEAT		EA	1

SECTION II. COMPONENTS OF END ITEM



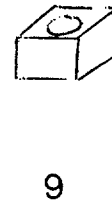
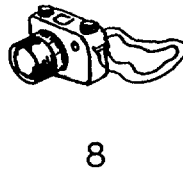
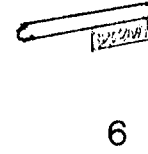
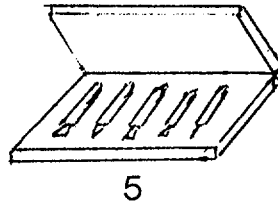
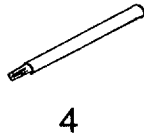
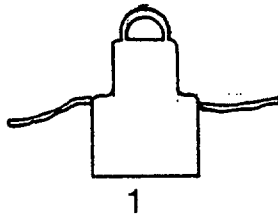
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17

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
16	Not assigned	PRODUCTION OUTFIT, WITH COMPOSING TABLE (94767) Production Outfit		SE	1
17	Not Assigned	JAR, PLASTIC, /2 GL (39428) 4238T2		EA	2

SECTION III. BASIC ISSUE ITEMS



(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
1	8415-01-108-9625	APRON, LABORATORY		EA	1
2	6530-00-772-0326	BOWL, SURGICAL		EA	1
3	8020-00-598-5907	BRUSH, ARTIST, 13/16 IN.		EA	2
4	8020-00-224-8027	BRUSH, ARTIST, 1 IN.		EA	2
5	8020-00-285-1167	BRUSH SET		SE	1
6	7920-00-291-5812	BRUSH, DUSTING, DRAFTSMAN		EA	1
7	7920-00-205-0565	BRUSH, DUSTING, LENS		EA	1
8	6720-01-064-8071	CAMERA, STILL PICTURE		EA	1
9	4940-00-195-7251	CLEANER, PEN, ULTRASONIC		EA	1



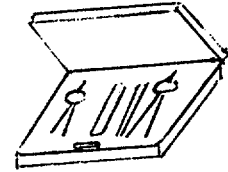
SECTION III. BASIC ISSUE ITEMS



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(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
10	6675-00-514-3537 IRREGULAR	CURVE, DRAFTING,		EA	1
11	7520-00-285-1772	DISPENSER, TAPE		EA	2
12	6675-00-641-3531	DRAFTING INSTRUMENT SET		EA	1
13	4210-00-165-4703	EXTINGUISHER, FIRE		EA	1
14	6760-00-550-8672	FILTER, LIGHT, PHOTOGRAPHIC LENS (19139) 149-5498		EA	1
15	6760-00-141-6765	FILTER, LIGHT, PHOTOGRAPHIC LENS (19139) 149-5860		EA	1

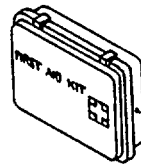
SECTION III. BASIC ISSUE ITEMS



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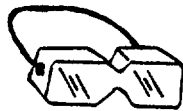
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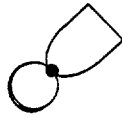
22

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
16	6760-01-290-8804	FILTER, LIGHT, PHOTOGRAPHIC LENS (19139) 149-5787		EA	1
17	6760-01-029-1145	FILTER, LIGHT, PHOTOGRAPHIC LENS (19139) 149-5605		EA	1
18	6545-00-922-1200	FIRST AID KIT		EA	1
19	3610-00-843-5818	FUNNEL, STEEL		EA	1
20	4240-00-052-3776	GOGGLES, INDUSTRIAL		PR	2
21	6750-00-834-0696	INSTANT PHOTOSCREEN KIT		KT	1
22	8125-01-227-6038	JAR, POLYETHELENE (20005) 33128		EA	8

SECTION III. BASIC ISSUE ITEMS



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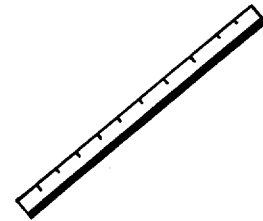
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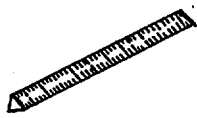
31



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(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
23	5110-00-293-1585	KNIFE, CRAFTSMAN'S		EA	2
24	6650-00-255-8268	MAGNIFIER, MONOCULAR		EA	1
25	7240-00-246-1097	PAIL, UTILITY, PLASTIC		EA	1
26	7510-00-286-6899	PEN HOLDER		DZ	1
27	7510-00-233-0400	PEN POINT AND PEN HOLDER		SE	1
28	7510-00-227-1548	PEN POINT ASSORTMENT		BX	2
29	7510-00-237-4926	PENCIL POINTER		EA	2
30	6685-00-826-1662	PSYCHROMETER		EA	1
31	6640-00-843-5797	ROD, STIRRING		EA	2
32	3610-00-843-5584	RULER,STEEL, Printer's 24 in.		EA	1

SECTION III. BASIC ISSUE ITEMS



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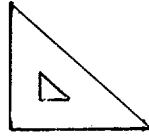
39

(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
33	6675-00-238-3495	SCALE, DRAFTING		EA	2
34	3610-01-152-2866	SCREEN, CONTACT (19139) 1112515		EA	2
35	3610-01-152-2867	SCREEN, CONTACT (19139) 148-2793		EA	2
36	Not assigned	SCREEN, CONTACT (19139) 128-2466		EA	1
37	5110-00-161-6912	SHEARS, STRAIGHT TRIMMERS		EA	2
38	7920-00-234-5121	SQUEEGEE, SILK SCREEN PROCESS		EA	1
39	6685-00-526-8261	THERMOMETER, SELF- INDICATING		EA	1

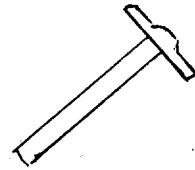
SECTION III. BASIC ISSUE ITEMS



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(1) Illus No.	(2) National Stock Number	(3) Description FSCM and Part Number	Usable on Code	(4) U/M	(5) QTY Rqr
40	6675-00-190-5867	TRIANGLE, DRAFTING 30 & 60 deg.		EA	1
41	6675-00-190-5863	TRIANGLE, DRAFTING 45 deg.		EA	1
42	6750-00-183-6487	T-SQUARE, DRAFTING		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 Finishing Section.

**D-2. GENERAL.**

This list identifies items that do not have to accompany the Finishing 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 editorial 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 (CAGE) 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/DURABLE SUPPLIES AND MATERIAL LIST

(1) Item No.	(2) Category	(3) National Stock Number	(4) Description	(5) U/M
1	C	6750-01-227-1125	ACTIVATOR SOLUTION, PMT II: 1 quart bottle (19139) 193-9628	GL
2	C	8040-00-291-8625	ADHESIVE: natural or synthetic rubber base; for paper bonding; 4 oz. jar, with brush in cap (81348) MMM-A-185	JR
3	O	8040-00-865-8991	ADHESIVE/SEALANT, Silicone RTV, General Purpose, Black, 12 oz.	CA
4	O	8040-00-225-4548	ADHESIVE/SEALANT, Silicone RTV, General Purpose, White, 12 oz.	CA
5	C	7520-00-935-7136	BALLPOINT PEN: Pocket, without cap, with pocket clip; medium retractable pt; black, lettered "US GOVERNMENT" Type I (81348) GG-B-60 National Ind for the Blind, Bloomfield, NJ 07003	DZ
6	C	8530-00-162-5629	BLADE, SAFETY RAZOR: Single Edge, 100/BX (81348) GG-R-60	BX
	C	5110-00-293-2865	BLADE, Craftsman's Knife (81348) GGG-K-494	PG
7	C	9310-00-290-2972	CARDBOARD: Chemical wood; white, 30 in. lg, 22 in. w (81348) UU-C-190	SH
8	C	6850-00-015-3507	CLEANER, LITHOGRAPHIC SOLVENT (81348) O-L-1031	QT
9	C	8305-00-205-3496	CHEESE CLOTH	PG



Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST - Continued

(1) Item No.	(2) Category	(3) National Stock Number	(4) Description	(5) U/M
10	C	4130-00-860-0042	COATER, FILTER: Air Conditioner, 1 pt can	EA
11	C	6750-01-250-6497	CONDITIONER, PMT II 500 MI (19139) 349-2212	EA
12	C	8320-00-299-8625	COTTON, NON-STERILE	PG
13	C	6750-01-290-5176	DELETION FLUID, PMT II (19139) 348-8715	EA
14	C	6675-01-290-6389	DEVELOPER, GUM (19139) 77-9802-5398-1	BX
15	C	Not Assigned	DEVELOPER, ULTRATEX TRAY: 2/2 gal. size (19139) 101-7276	EA
16	C	7025-01-160-7307	DISKETTE, FLOPPY, 8 in. Box of 10 (62812) 43-5715-0	BX
17	C	6805-00-264-9038	DRY CLEANING SOLVENT: (SD-1) (81348) P-D-680, Type 1	GL
18	C	7530-00-612-4000	ENVELOPE, PHOTOGRAPHIC NEGATIVE: X-ray negative preserver 12x19 in. size (81348) GE 550	HD
19	C	7510-00-223-7044	ERASER, RUBBER: gum; rectangular; 2 1/4 in. lg, 1 1/8 w, 1 1/8 thk, type IV, composition B (81348) ZZ-E-661	DZ
20	C	6750-00-252-9553	FILM: for 3/4 x 4/4 in. black and white prints (47904) No. 107	PG
	C	6675-01-290-5169	FILM: ULTRATEC UGF 11x14, 100 sh/pg (19139) 182-9662	PG

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST - Continued

(1) Item No.	(2) Category Number	(3) National Stock	(4) Description	(5) U/M
21	C	6750-01-289-5180	FILM: PMT II receiver, sheet 11x14 in. size, 100 sh/pkg (19139) 351-4270	PG
22	C	6750-01-205-3748	FIXER, PMT: paper plate (19139) 101-7748	EA
23	C	7930-00-664-6910	GLASS CLEANER (58536) A-A-40	BX
24	C	8415-00-248-3228	GLOVES, RUBBER INDUSTRIAL (12901) 1R100	BX
25	C	6760-00-776-1633	GUIDE, SENSITIVITY	EA
C			INK, DRAWING Waterproof; opaque; w/o dwg paper and cloth, or tracing paper and cloth, 3/4 oz. paper and cloth; 3/4 oz. bottle (81349)	
26	C	7510-00-224-6744	black;TT-I-528	OZ
27	C	7510-00-237-7048	white;TT-I-531	OZ
28	C	6240-00-152-2982	LAMP, FLUORESCENT: 15 w. medium bipin 18 in. lg; ballast operated (16S43) W-L-116-9T	EA
29	C	9150-00-252-6173	LUBRICATING OIL, GENERAL PURPOSE: noncorrosive; low viscosity; 4 oz. can (81348) VV-L-820	CN
30	C	Not Assigned	MASKING SHEETS: 11x18 (09177) 5-90002	PG

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST - Continued

(1) Item No.	(2) Category Number	(3) National Stock	(4) Description	(5) U/M
31	C	5120-00-293-0591	NEEDLE, ETCHING: Size 1 round	EA
	C	5120-00-293-0593	NEEDLE, ETCHING: Size 2 round	EA
	C	5120-00-293-1132	NEEDLE, ETCHING: Size 1 flat	EA
	C	5120-00-293-0589	NEEDLE, ETCHING: Size 1 oval	EA
32	C	6750-00-264-6764	OPAQUE, PHOTOGRAPHIC FILM PLATE: Retouching, red paste form, water vehicle, red rouge, 2,500 oz. unit qty, Jar (81349) MIL-0-22039	JR
	C	6750-00-264-6763	OPAQUE, PHOTO-FILM (BLACK)	JR
33	C	7530-00-875-8102	OVERLAY PAD, ACETATE: clear finish; 14x17 in. (81562) no. 73F of equal	EA
34	C	3610-00-864-5585	PADS, LITHOGRAPHIC: Cotton; AM International 4 in. lg, 33/4 in. w; 2000 pads per box (81348) MIL-P-43296	BX
35	C	7530-00-285-6034	PAPER, BLOTTING: white, chemical wood pulp; substance 140 per 500 sheets of 24x19 in. basic size; free from chemicals injurious to photographs; 30 in. lg, 24 in. w; 12 per pack; grade B (81348) UU-P-417	DZ
36	C	6750-01-119-8107	PAPER, STABILIZATION: 12 in. w x 150 ft. roll for Comp/Set Phototypesetter (6818/6810) (62812) 48-7385-0	EA

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST - Continued

(1) Item No.	(2) Category Number	(3) National Stock	(4) Description	(5) U/M
37	C	6750-01-290-5168	PAPER, PMT: litho, Negative, 11x18 50/package (19139) 352-3651	PG
38	C	6750-01-291-8312	PAPER, PMT: Negative, 11x18 in. size; 100 sh/pkg (19139) 349-0224	PG
39	C	6750-01-290-5167	PAPER, PMT: receiver (positive) 11x14 in. size; 100 sh/pkg (19139) 352-6233	PG
40	C	6640-00-559-1385	PAPER, LENS: lightweight, 7x11 in., 100 sh/pkg (81349) NNN-P-40	HD
41	C	7510-00-237-7991	PEN CLEANER, LIQUID: 2 1/2 oz. bottle (81349) P-P-200	JR
42	C	7510-00-240-1526	PENCIL: Drawing (81348) SS-P-181	DZ
43	C	7510-00-189-7875	PENCIL: Drawing 2B	DZ
44	C	7510-00-189-7878	PENCIL: Drawing HB	DZ
45	C	7510-00-189-7880	PENCIL: Drawing 2H	DZ
46	C	7510-01-152-8109	PENCIL SET: colored	PG
47	C		PLATE, Lithographic Printing, 1 sided, 11x18, punched, 100/pkg (09177) 83-X-105005	PG
48	C		PLATES, Lithographic Printing, 2 sided, 1x18, punched, 100/pkg (09177) 83-8-105032	PG
49	C	6750-01-045-3796	FILM, STRIPPERS: 11x14 in. (53176) Rubylith DR3 11x14 Pad	PD

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST - Continued

(1) Item No.	(2) Category Number	(3) National Stock	(4) Description	(5) U/M
50	C	7920-00-240-2555	SPONGE, CELLULOSE	EA
51	C	6250-00-299-2884	STARTERS, FLUORESCENT BULB: Glow starter, Lamp Watt (14-20), Lamp Volt (110- NOM) (04655) FS2NA	EA
52	C	6750-00-577-4624	STOP BATH: 16 oz. (19139) 146-4247	EA
53	C	6810-00-270-9989	TALC, TECHNICAL: Powder, 1 lb. can (81348) ZZ-T-416	LB
54	C	7510-00-285-6403	TAPE: Pressure Sensitive, <sup>1</sup> / <sub>2</sub> x 72 in., Red, 12 rolls/ct (28174) 616	CT
55	C	7510-00-229-8713	TAPE: Pressure Sensitive, 1/2 x 72 in., 12 rolls/ct (28174) 610	CT
56	C	7510-00-266-6711	TAPE: Pressure Sensitive, Adhesive, masking, 3/4 in. w, 60 yd roll; Type I (81349) UU-T-106	RO
57	O	8030-00-889-3535	TAPE, THREAD, SEAL, ANTI- SEIZING; 1/2610 inch roll	EA
58	C	8540-00-262-7178	TOWEL PAPER (81348) UU-T-591	PG
59	C	7530-00-875-8103	TRACING PAD, EMPIRE: 11x14 in. size (81562) No. 62B	EA

**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 Editorial 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).

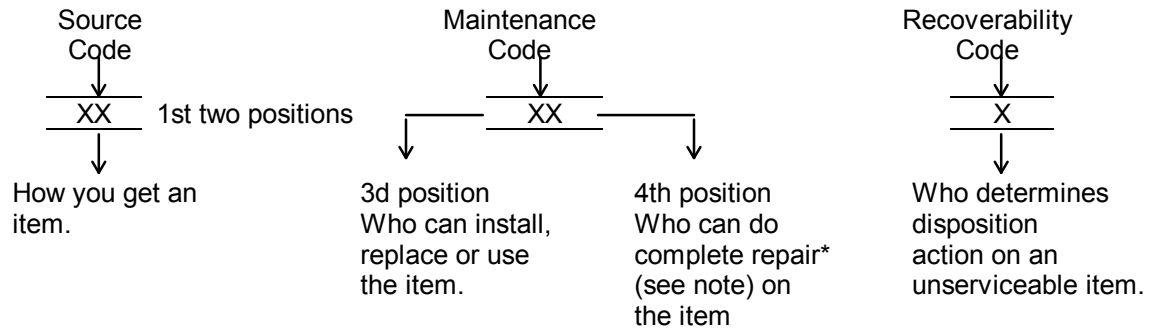
b. **Section III. Special Tools List.** A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

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:

Source Code	Explanation
PA PB PC** PD PE PF PG	<p>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.</p> <p>**NOTE: Items coded PC are subject to deterioration.</p>
KD KF KB	<p>Items with these codes are not to be requested/requisitioned individually. They re 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.</p>
MO- (Made at Unit/AVUM Level) MF- (Made at DS/AVUM Level) MH- (Made at GS Level) ML- (Made at Specialized Repair Activity (SRA)) MD- (Made at Depot)	<p>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. H 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.</p>
AO- (Assembled by Unit/AVUM Level) AF- (Assembled by DS/AVIM Level) AH- (Assembled by GS Category) AL- (Assembled by SRA) AD- (Assembled by Depot)	<p>Items with these codes are not to be requested/ requisitioned individually. The puts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. H 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.</p>
XA-	Do not requisition "XA"-coded item. Order its next higher assembly. (Refer to the NOTE below.)
XB-	If an UXB" 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 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 repairable, condemn and dispose of the item at organizational or aviation unit level
F -	Reparable item. When uneconomically repairable, condemn and dispose of the item at the '<_/ direct support or aviation intermediate level
H -	Reparable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
D -	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item 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.	<b>CAGEC (Column (3)).</b> 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.	<b>PART NUMBER (Column (4)).</b> 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
<hr style="width: 100%; border: 0.5px solid black;"/>
5305-01-574-1467
<hr style="width: 100%; border: 0.5px solid black;"/>
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-4a.(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph c-4.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.

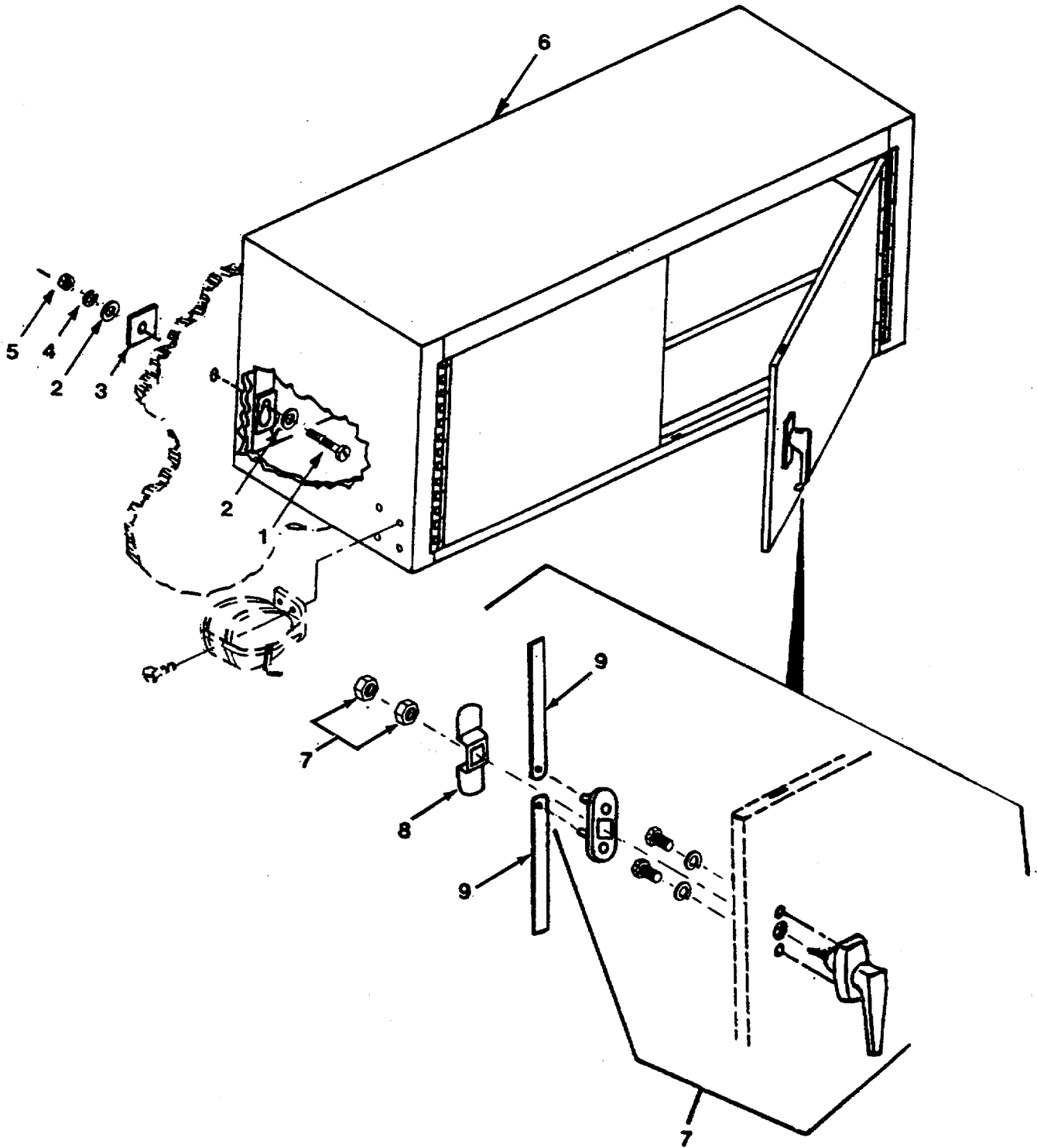


Figure 1. Wall Cabinet Assembly

Change 2 F-10

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 01 WALL CABINET ASSEMBLY  FIG. 1 WALL CABINET ASSEMBLY	(6) QTY
1	XDOZZ	96906	MS90725-17	.SCREW, CAP HEX HD .....	12
2	XDOZZ	96906	MS27183-10	.WASHER, FLAT .....	24
3	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT .....	12
4	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	12
5	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON .....	12
6	PDOOO	81337	6-1-7539	.CABINET, STORAGE .....	3
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



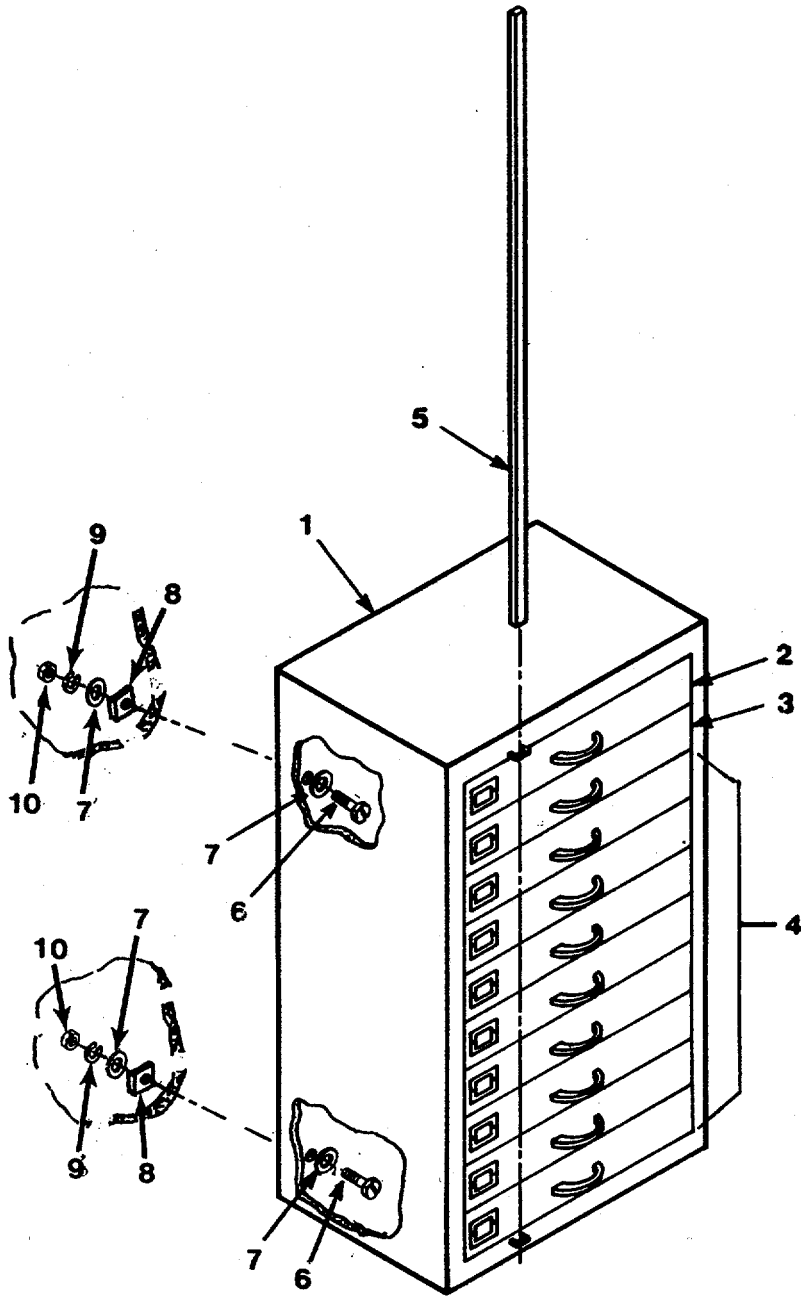


Figure 2. Historical File Cabinet Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 02 HISTORICAL FILE CABINET ASSEMBLY  FIG. 2 HISTORICAL FILE CABINET INSTALLATION	(6) QTY
1	PDOOH	81337	6-1-5857	.FILING CABINET.. .....	1
2	XDOOO	81337	6-1-5857-9	..DRAWERS, STYLEA, W/DI .....	1
3	XDOZF	81337	6-1-5857-10	..DRAWER, FILING CABIN .....	1
4	XDOZZ	81337	6-1-5857-11	..DRAWERS, STYLEC, WO/D .....	8
5	XDOZZ	81337	6-1-5857-7	.BAR, LOCKING .....	1
6	XDOZZ	96906	MS90725-17	.SCREW, CAP HEX HD .....	4
7	XDOZZ	96906	MS27183-10	.WASHER, FLAT .....	8
8	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT .....	4
9	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	4
10	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON .....	4

END OF FIGURE

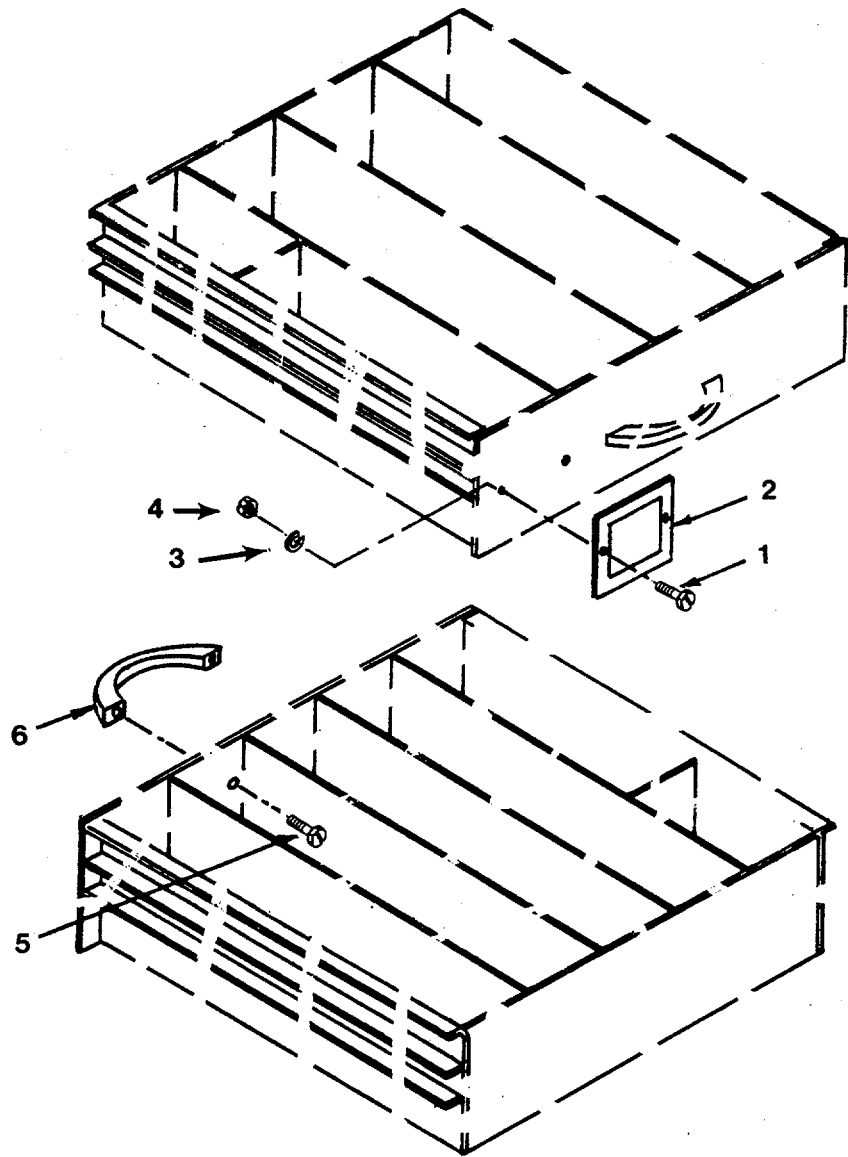


Figure 3. Historical File Cabinet Drawer

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 02 HISTORICAL FILE CABINET ASSEMBLY  FIG. 3 HISTORICAL FILE CABINET DRAWER	(6) QTY
1	XDOZZ	81337	6-1-5857-15	...SCREW, MACHINE #3-48X3/8 UNC2A.....	20
2	XDOZZ	42689	61-3255	...HOLDER, LABEL .....	10
3	XDOZZ	81337	6-1-5857-16	WASHER, LOCK #3 EXTERNAL TOOTH ..	20
4	XDOZZ	81337	6-1-5857-17	...NUT, HEX #3-48 UNC-2B .....	20
5	XDOZZ	42689	61-289-3	...SCREW, SCH, NO. 8-32 .....	20
6	XDOZZ	42689	61-394	...DRAWER, PULL .....	10

END OF FIGURE

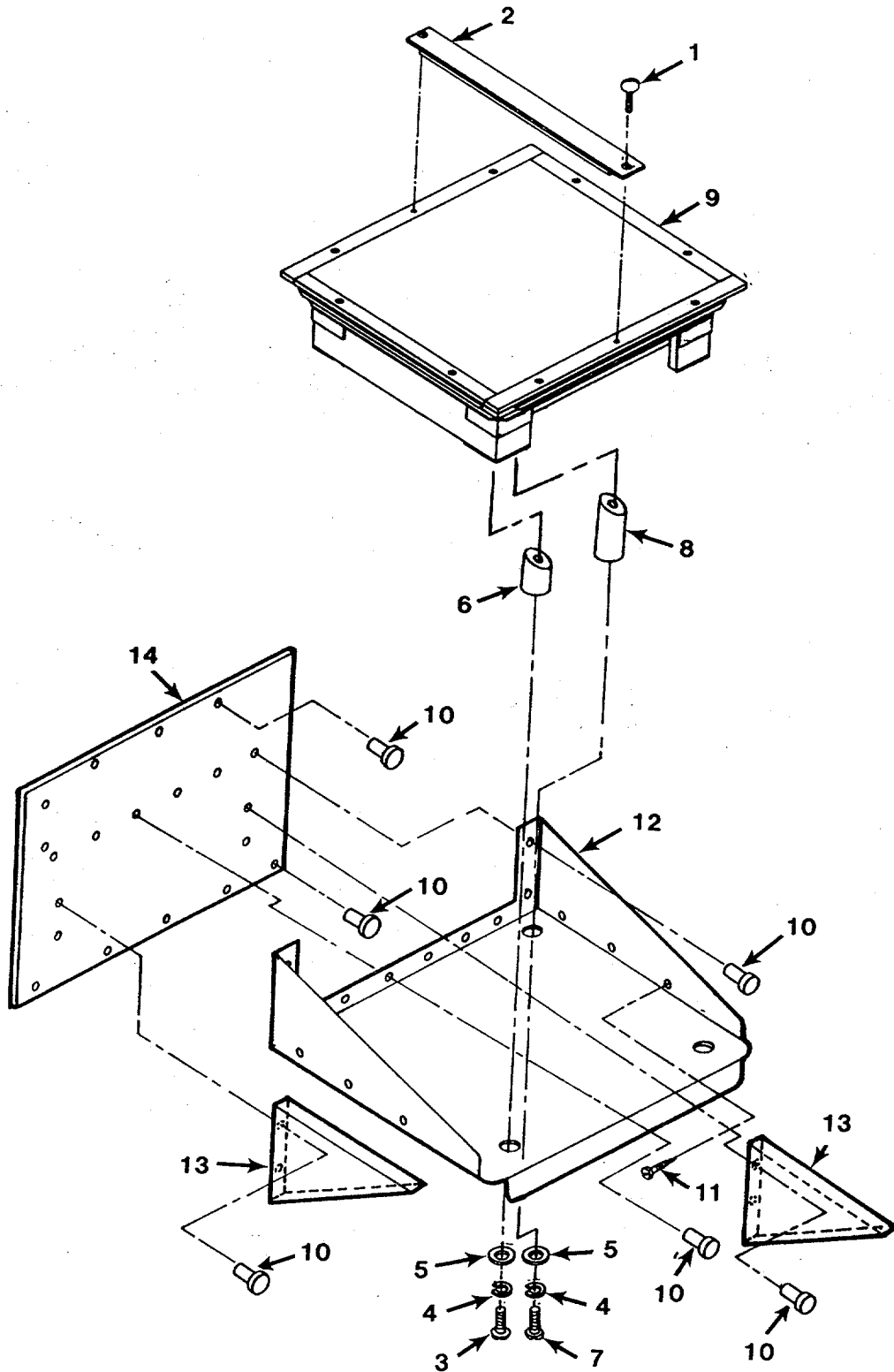


Figure 4. Light: Table Installation

Change 2 F-16

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 03 LIGHT TABLE ASSEMBLY  FIG. 4 LIGHT TABLE INSTALLATION	(6) QTY
	XCOOO	81337	6-1-7518	INSTL, LIGIHT TABLE .....	2
1	XDOZZ	96906	MS21316-23	.THUMBSCREW .....	2
2	XDOZZ	81337	6-1-7519	.BAR, SHIPPING .....	1
3	XDOZZ	96906	MS90725-63	.BOLT, MACHINE, HEX HD .....	2
4	XDOZZ	96906	MS35338-46	.WASHER, LOCK .....	4
5	XDOZZ	96906	MS27183-14	.WASHER, FLAT .....	4
6	XDOZZ	81337	6-1-7518-4	.MOUNT, SPACER, 3/4 IN .....	2
7	XDOZZ	96906	MS90725-68	.SCREW 14, CAP, HEXAGON H .....	2
8	XDOZZ	81337	6-1-7518-5	.MOUNT, SPACER, 1-3/4 .....	2
9	PDOOD	93791	VLT18T	.TABLE, TRACING, DRAFT .....	1
10	XDOZZ	81349	M24243/6-606H	.RIVET, BLIND .....	36
11	XDOZZ	96906	MS51861-34C	.SCREW, TAPPING, THREA .....	6
12	XDOZZ	81337	6-1-7518-1	.SHELF, LIGHT TABLE .....	1
13	XDOZZ	81337	6-1-7518-3	.BRACKET, SUPPORT .....	2
14	XDOZZ	81337	6-1-7518-2	.PLATE, BACKING .....	1

END OF FIGURE

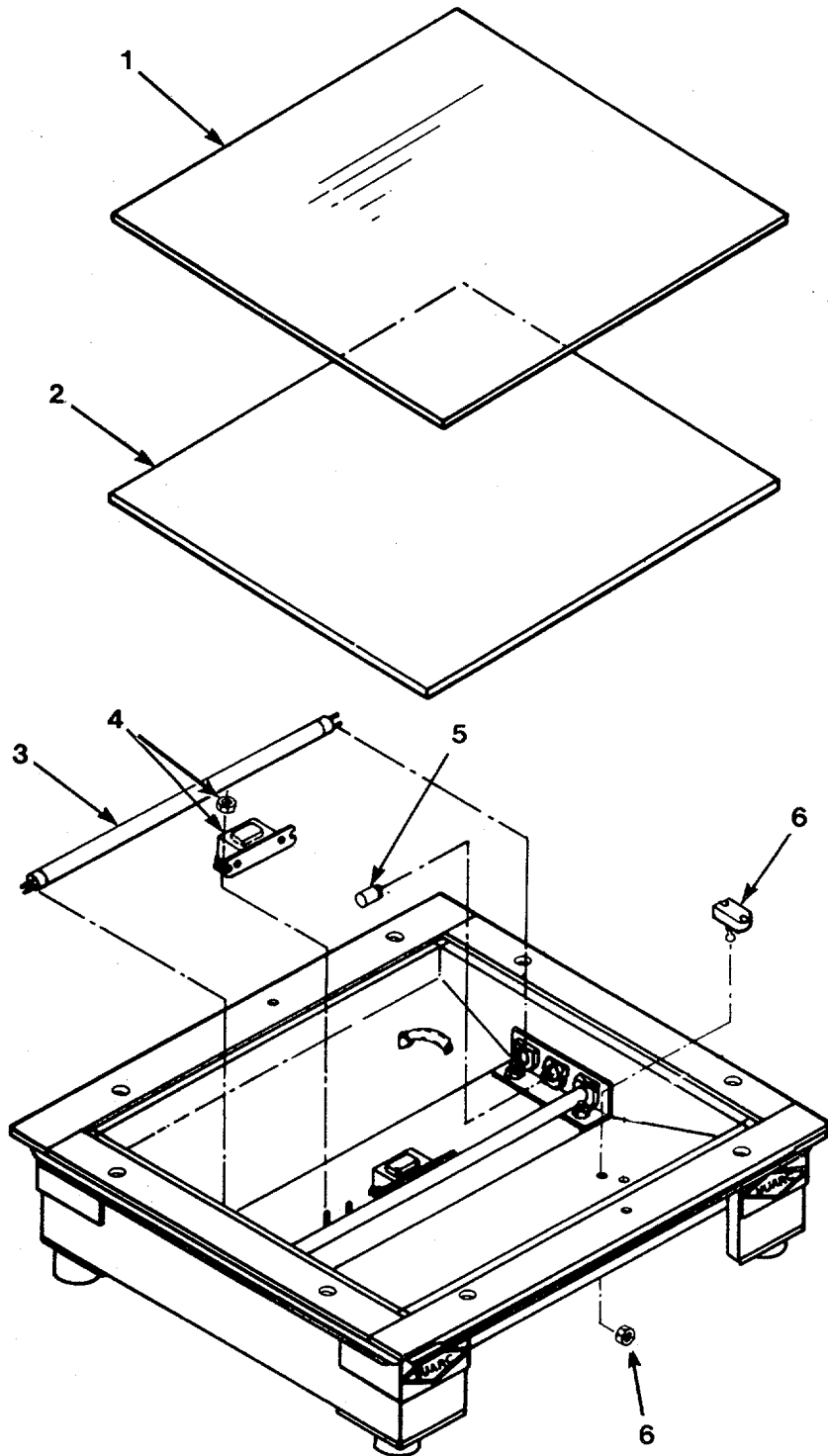


Figure 5. Light Table

Change 2 F-18

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 03 LIGHT TABLE ASSEMBLY  FIG. 5 LIGHT TABLE	(6) QTY
1	XDOZZ	93791	ET4	..GLASS, TABLETOP 7/32 X 18-3/8 X..... 20-1/4.....	1
2	XDOZZ	93791	ET5	..PLASTIC, TABLETOP 1/8 X 18-1/4 X ..... 20-1/8.....	1
3	PAOZZ	08108	F15T8/CW	..LAMP, FLUORESCENT .....	2
4	XDOZZ	93791	VE162	..BALLAST, LAMP .....	2
5	XDOZZ	93791	VE176	..STARTER, 20 WATT .....	2
6	XDOZZ	93791	VE50	..SWITCH, TOGGLE .....	1

END OF FIGURE



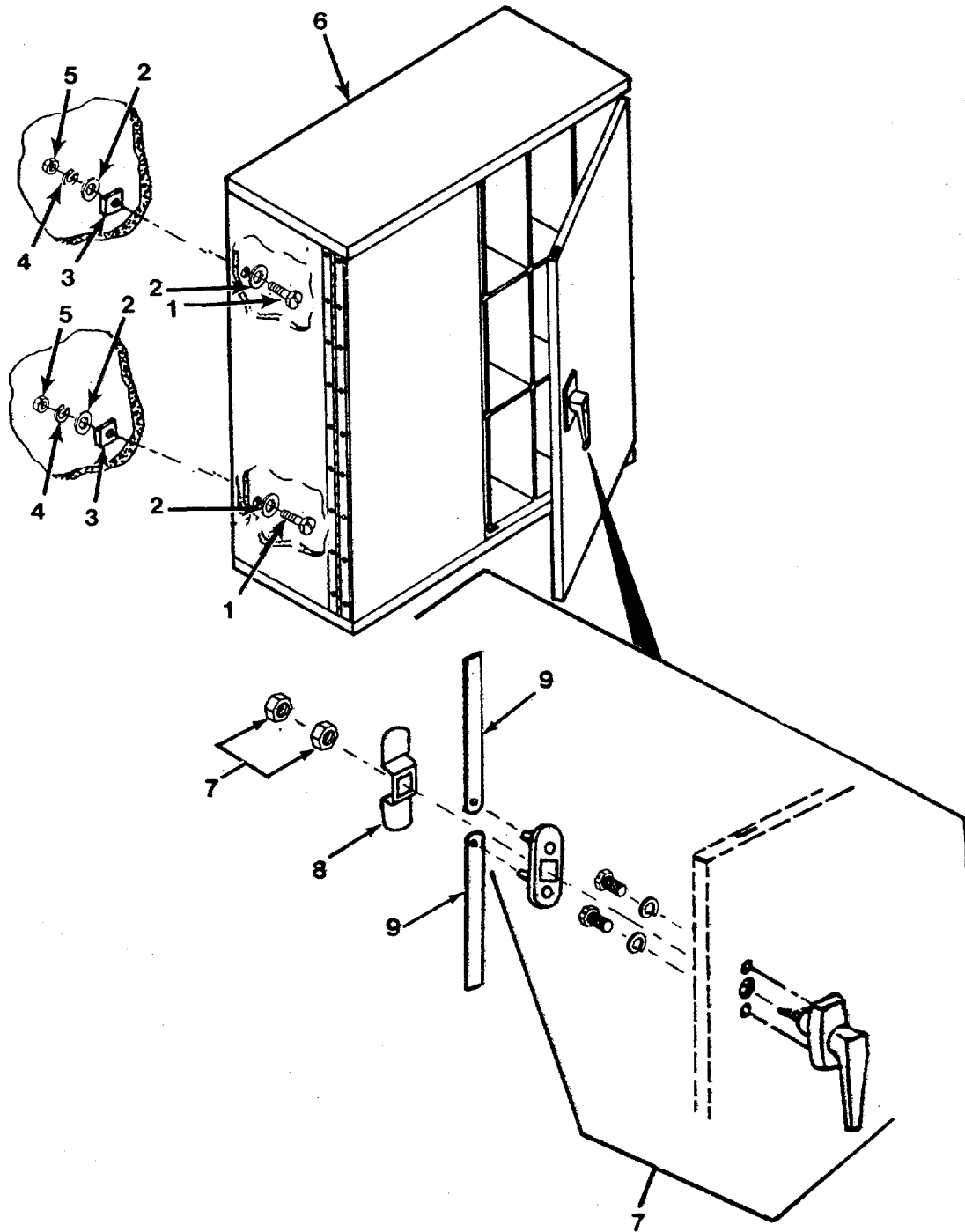


Figure 6. Artist Supply Cabinet Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 04 ARTIST SUPPLY CABINET ASSEMBLY  FIG. 6 ARTIST SUPPLY CABINET INSTALLATION	(6) QTY
1	XDOZZ	96906	MS90725-17	.SCREW, CAP HEX HD .....	4
2	XDOZZ	96906	MS27183-10	.WASHER, FLAT .....	8
3	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT .....	4
4	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	4
5	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON .....	4
6	XDODD	81337	6-1-5858	.CABINET, ARTIST SUPP .....	1
7	XDOZZ	42689	68-090	..LATCH, DOOR .....	1
8	XDOZZ	42689	60-016-24TYPEF	..PLATE, LATCH .....	1
9	XDOZZ	81337	6-1-5851-25	..ARM, CATCH .....	2

END OF FIGURE

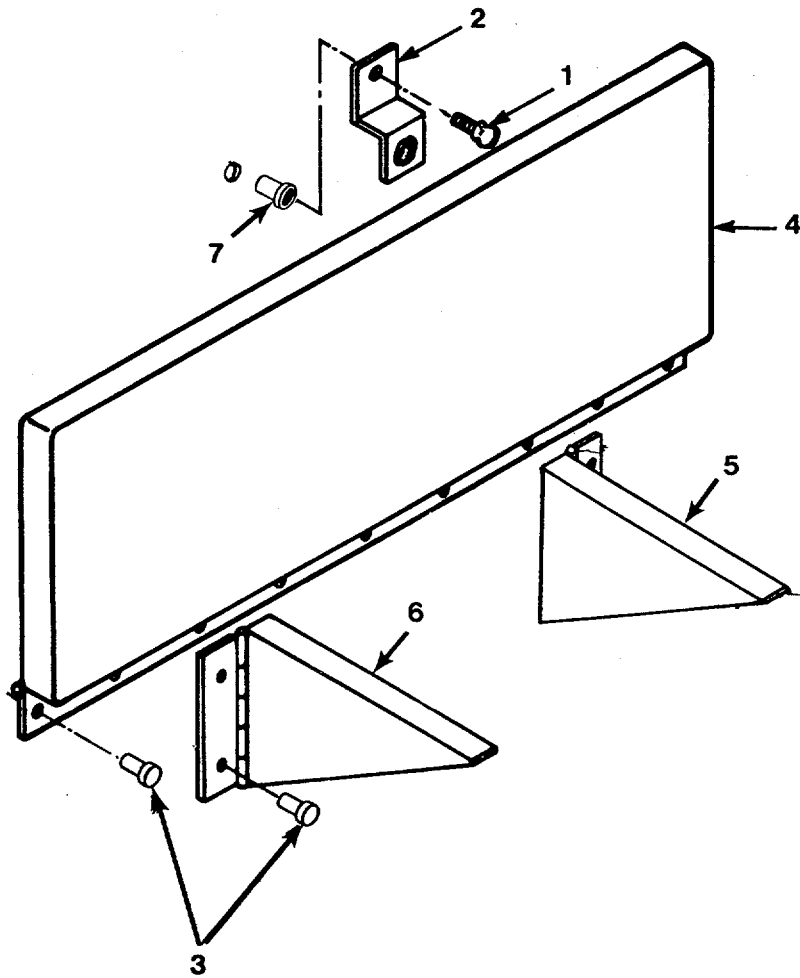


Figure 7. Folding Tray Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 05 FOLD DOWN TRAY ASSEMBLY  FIG. 7 FOLDING TRAY INSTALLATION	(6) QTY
	PDOOH	81337	6-1-7527	ARTIST FOLD DOWNTR .....	2
1	XDOZZ	96906	MS21316-23	.1HUMBSCRELIJ .....	1
2	XDOZH	81337	6-1-7527-2	.BRACKET, TRAY .....	1
3	XDOZZ	96906	MS20600-BqW3	.RIVET, BLIND .....	15
4	XDOZZ	81337	6-1-7527-1	.TRAY, ARTIST, FOLDDOW .....	1
5	XDOZZ	81337	6-1-7527-3	.BRACKET, RIGHT HAND .....	1
6	XDOZZ	81337	6-1-7527-4	.BRACKET, LEFT HAND .....	1
7	XDOZZ	96906	MS27130-21	.NUT, BLIND, RIVET .....	1

END OF FIGURE

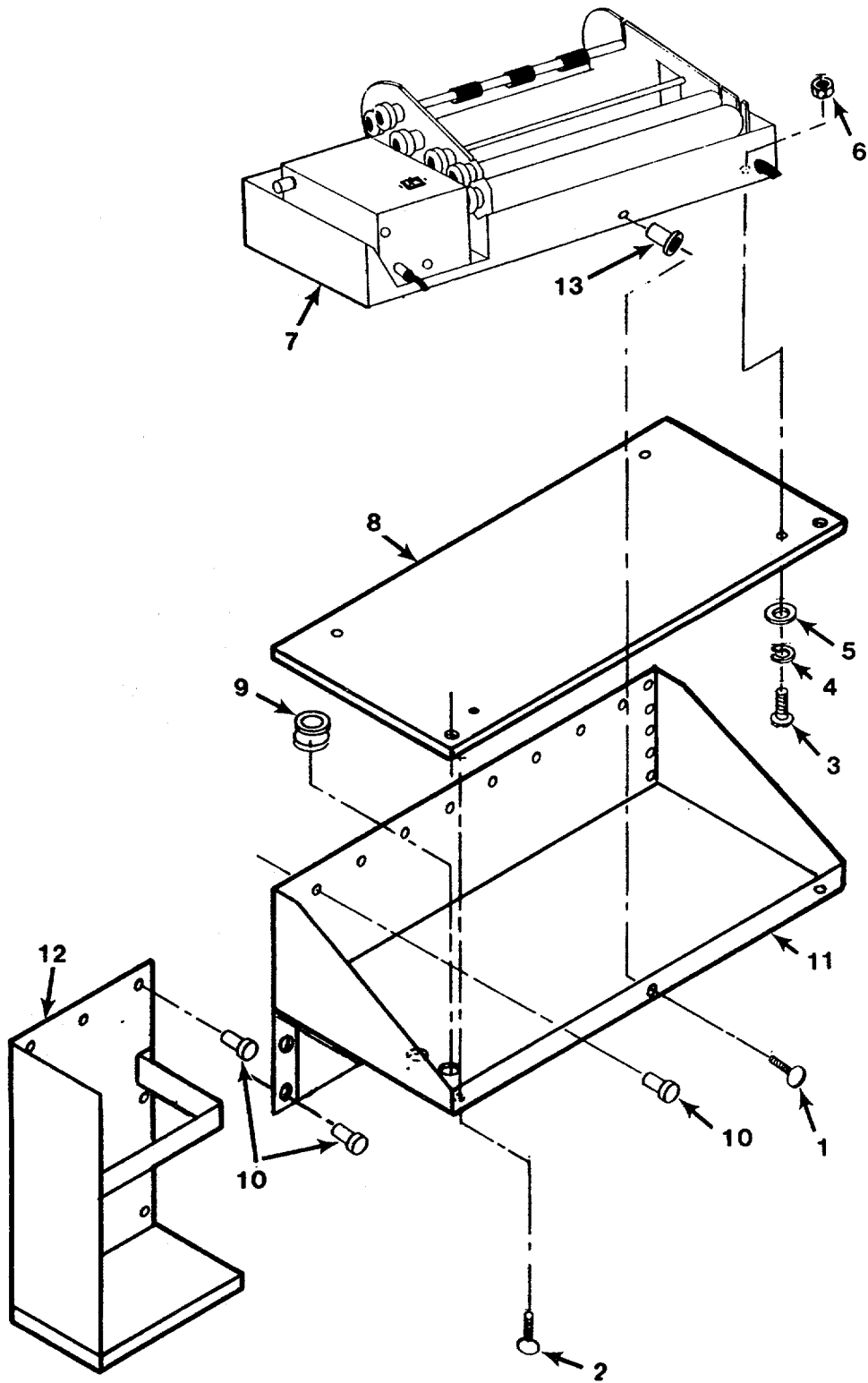


Figure 8. Wet Processor Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 06 WET PROCESSOR & SUPPORT ASSEMBLY  FIG. 8 WET PROCESSOR INSTALLATION	(6) QTY
	XCOOO	81337	1-6-6078	INSTALLATION, PMT PROCESSOR; WET PROCESS .....	1
1	XDOZZ	96906	MS21316-23	THUMBSCREW #10-24 X .5 .....	1
2	XDOZZ	96906	MS21316-35	THUMBSCREW 1/4-20 X .755 .....	2
3	XDOZZ	96906	MS51957-63	.SCREW, MACHINE #10-24 X .5 .....	4
4	XDOZZ	96906	MS35338-138	.WASHER, LOCK .....	4
5	XDOZZ	06424	0770-9	.WASHER, FLAT .....	4
6	XDOZZ	96906	MS35649-204	.NUT, PLAIN, HEXAGON #10-24 .....	4
7	PDOOO	62812	766W	PROCESSING MACHINE HIC PAPER; WET PROCESS.....	1
8	XDOZZ	81337	1-6-6079	TIE DOWN BRKT, PROC .....	1
9	PAOZZ	96906	MS35489-18	.GROMMET, NONMETALLIC .....	2
10	XDOZZ	96906	MS20600-B4W3	.RIVET, BLIND .....	25
11	XDOZZ	81337	1-6-6080	.SHELF, PROCESSOR ASS .....	1
12	XDOZZ	81337	1-6-6083	.HOLDER, WASTE, PROC D .....	1
13	XDOZZ	96906	MS27130-A28	.NUT, BLIND, RIVET 8-10-24 .....	1

END OF FIGURE

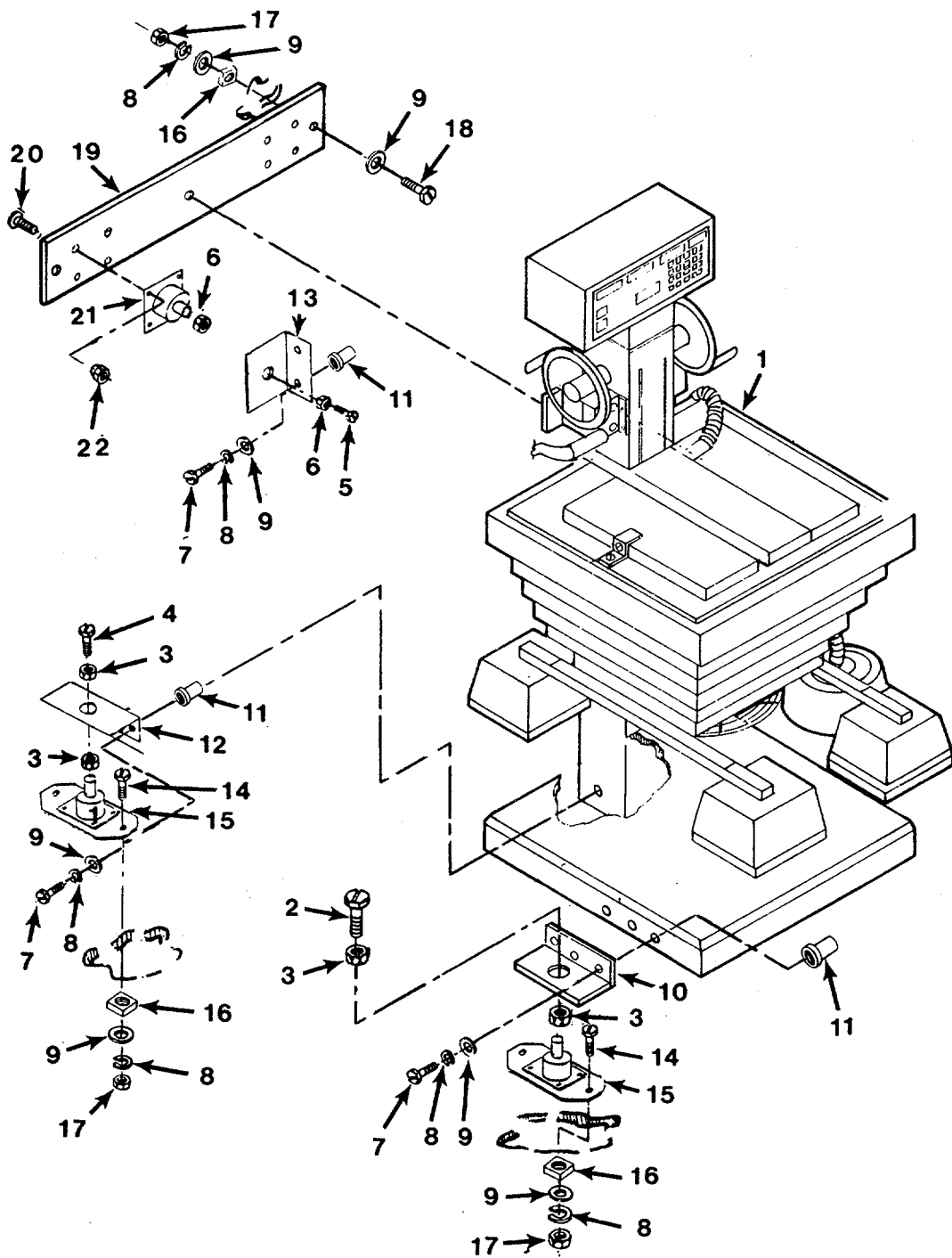


Figure 9. Vertical Camera Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 07 VERTICAL CAMERA MOUNTING ASSEMBLY	(6) QTY
FIG. 9 VERTICAL CAMERA INSTALLATION					
	XCOOO	81337	1-6-6135	INSTL, VERT CAMERA/M .....	1
1	MDOOO	81337	1-6-6161	.CAMERA, VERTICLE, MOD MODIFIED NSN ..... 3610-01-256-0636 (93791] VVE1418-3LM	1
2	XDOZZ	96906	MS90726-99	.SCREW, CAP, HEXAGON 11 .....	2
3	XDOZZ	96906	MS51968-11	.NUT , PLAIN, HEXAGON .....	8
4	XDOZZ	96906	MIS90725-92	.SCREW, MACHINE 7/16--20 X 2-1/2.....	2
5	XDOZZ	96906	MS90726-66	.SCREW, MACHINE 3/8-24 X 2 .....	2
6	XDOZZ	96906	M551968-9	.NUT, PLAIN, HEXAGON .....	4
7	XDOZZ	96906	MS18154-6	.SCREW, MACHINE 1/4-20 X 1 .....	18
8	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	35
9	XDOZZ	96906	MS15795-410	.WASHER, FLAT, .25.....	36
10	XDOZZ	81337	1-6--6125-1	.SUPPORT', BRACKET, FR .....	2
11	XDOZZ	96906	MS27130-A32	.NUT, RIVET, BLIND .25-2OUNC .....	18
12	XDOZZ	81337	1-6-6125-2	.SUPPORT, BRKT, REAR .....	2
13	XDOZZ	81337	1-6-6126	.SUPPORT BRKT, TOP .....	2
14	XDOZZ	96906	MS35307-319	.SCREW, MACHINE 1/4-20 X 3-1/4 .....	12
15	XDOZZ	81860	T94AB110	.MOUNT, SHOCK .....	4
16	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT 2X2 SQUARE .....	15
17	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON 1/4-20 .....	15
18	XDOZZ	96906	MS35307-31	.SCREW, .25-20 X 3.00 .....	3
19	XDOZZ	81337	1-6-6127	.CAMERA SUPPORT BRAC .....	1
20	XDOZZ	96906	M524693-274	.SCREW, CTRSUNK 410-32 X 3/4 .....	8
21	XDOZZ	81860	T64AB50	.MOUNT, RESILIENT .....	2
22	XDOZZ	96906	MS17828-3F	.NUT, LOCK, #10-32 .....	8

END OF FIGURE



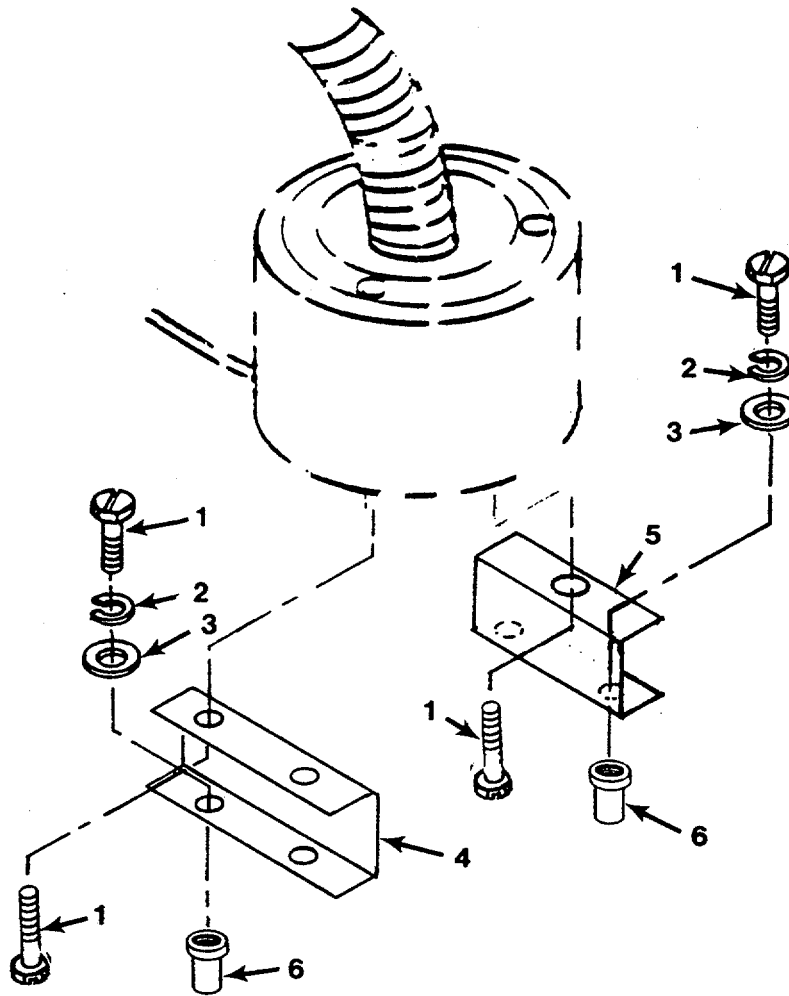


Figure 10. Vertical Camera Vacuum Pump Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 07 VERTICAL CAMERA MOUNTING ASSEMBLY  FIG. 10 VERTICAL CAMERA VACUUM PUMP INSTALLATION	(6) QTY
1	XDOZZ	96906	MS90725-6	.SCREW, CAP, HEXAGON H .25-20 X .75.....	3
2	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	3
3	XDOZZ	96906	MS27183-10	.WASHER, FLAT .....	3
4	XDOZZ	81337	1-6-6134	.BRACKET, SPT, RIGHT .....	1
5	XDOZZ	81337	1-6-6133	.BRACKET, SPT, LEFT .....	1
6	XDOZZ	96906	MS27130-A33	.NUT, BLIND, RIVET .25-20 .....	7

END OF FIGURE

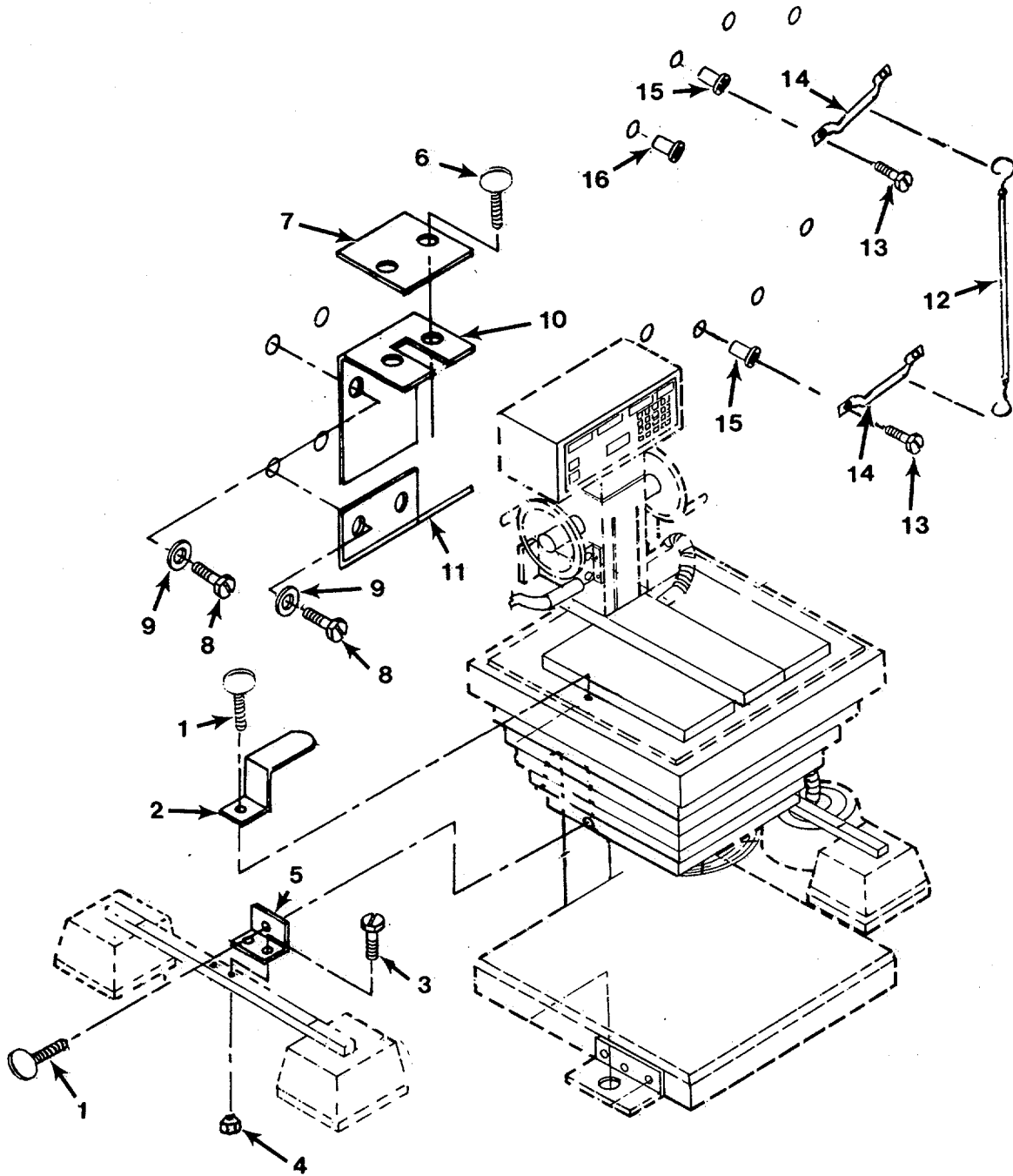


Figure 11. Vertical Camera Light and Plate Storage Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 07 VERTICAL CAMERA MOUNTING ASSEMBLY	(6) QTY
FIG. 11 VERTICAL CAMERA LIGHT AND PLATE STORAGE INSTALLATION					
1	XDOZZ	96906	MS21316-23	.THUMBSCREW 410-24 X 1/2 .....	3
2	XDOZZ	81337	1-6-6129	.CLAMP, CAMERA .....	1
3	XDOZZ	96906	MS35207-265	.SCREW, MACHINE .....	4
4	XDOZZ	96906	MS17828-3F	.NUT, LOCK, #10-32 #10-32 .....	4
5	XDOZZ	81337	1-6-6128	.BRACKETS, LIGHTS .....	2
6	XDOZZ	96906	MS21316-25	.THUMBSCREW #10-24 X .75 .....	2
7	XDOZZ	81337	1-6-6130	.BRACKET, LIGHT STOR .....	1
8	XDOZZ	96906	MS35206-281	.SCREW, MACHINE .25-20 X .75 .....	4
9	XDOZZ	96906	MS15795-810	.WASHER, FLAT, .25 .....	4
10	XDOZZ	81337	1-6-6131	.BRACKET, SPRT, LGT ST .....	1
11	XDOZZ	81337	1-6-6132	.BRACKET, SPRT, LWR .....	1
12	PAOZZ	53711	5562163 PIECE 20 4	.CORD ASSEMBLY, ELAST .....	1
13	XDOZZ	96906	MS35191-274	.SCREW, MACHINE #10-32 .....	4
14	XDOZZ	76786	662R1	.LOOP, STRAP FASTENER .....	2
15	XDOZZ	96906	MS27130-A28	.NUT, BLIND, RIVET .....	4
16	XDOZZ	96906	MS27130-A56	.NUT, BLIND, RIVET .....	4

END OF FIGURE

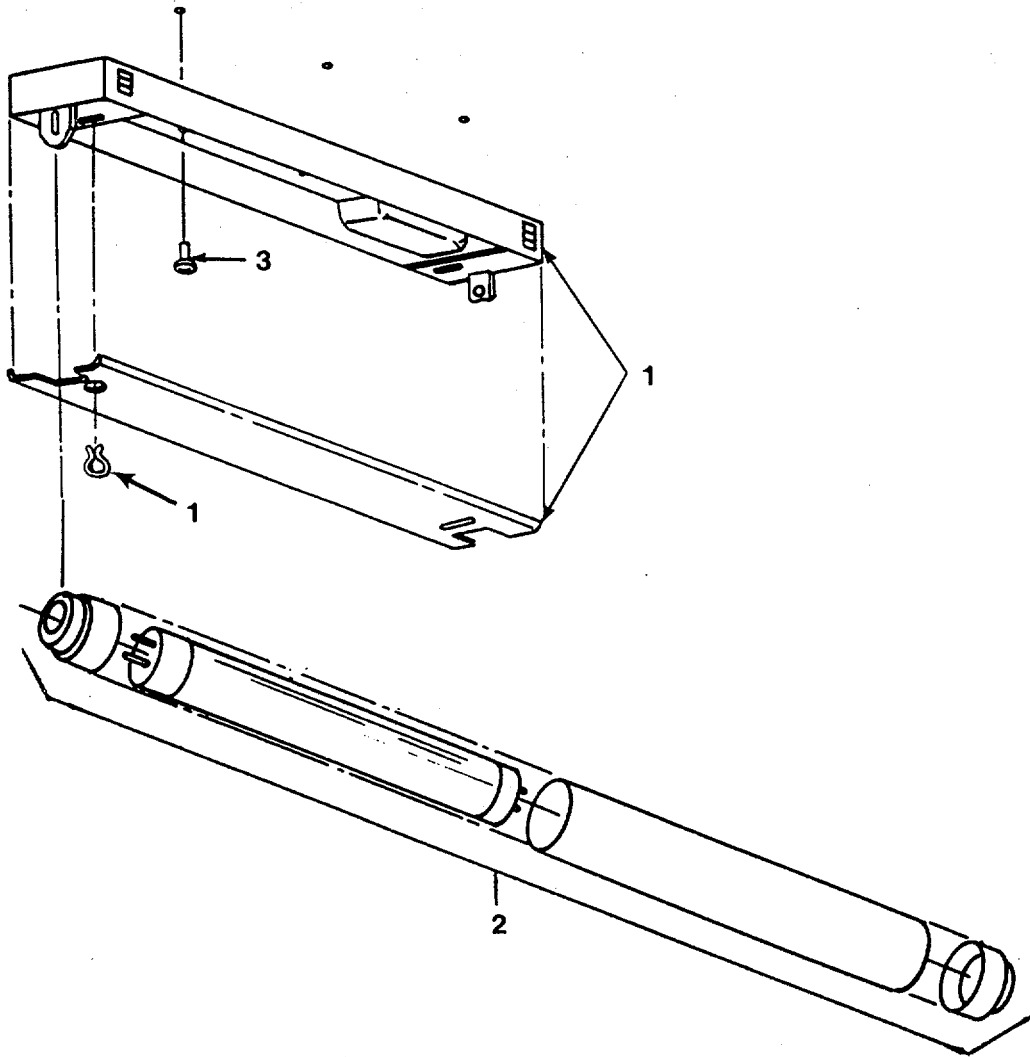


Figure 12. Safelight Assembly

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 08 SAFELIGHT ASSEMBLY FIG. 12 SAFELIGHT ASSEMBLY	(6) QTY
1	XDOZZ	16543	S120TS120	.FIXTURE, LIGHTING .....	2
2	PAOZZ	08108	F20T12R	.LAMP, FLUORESCENT .....	2
3	XDOZZ	96906	MS20600-AD6W3	.RIVET, BLIND.. .....	8

END OF FIGURE

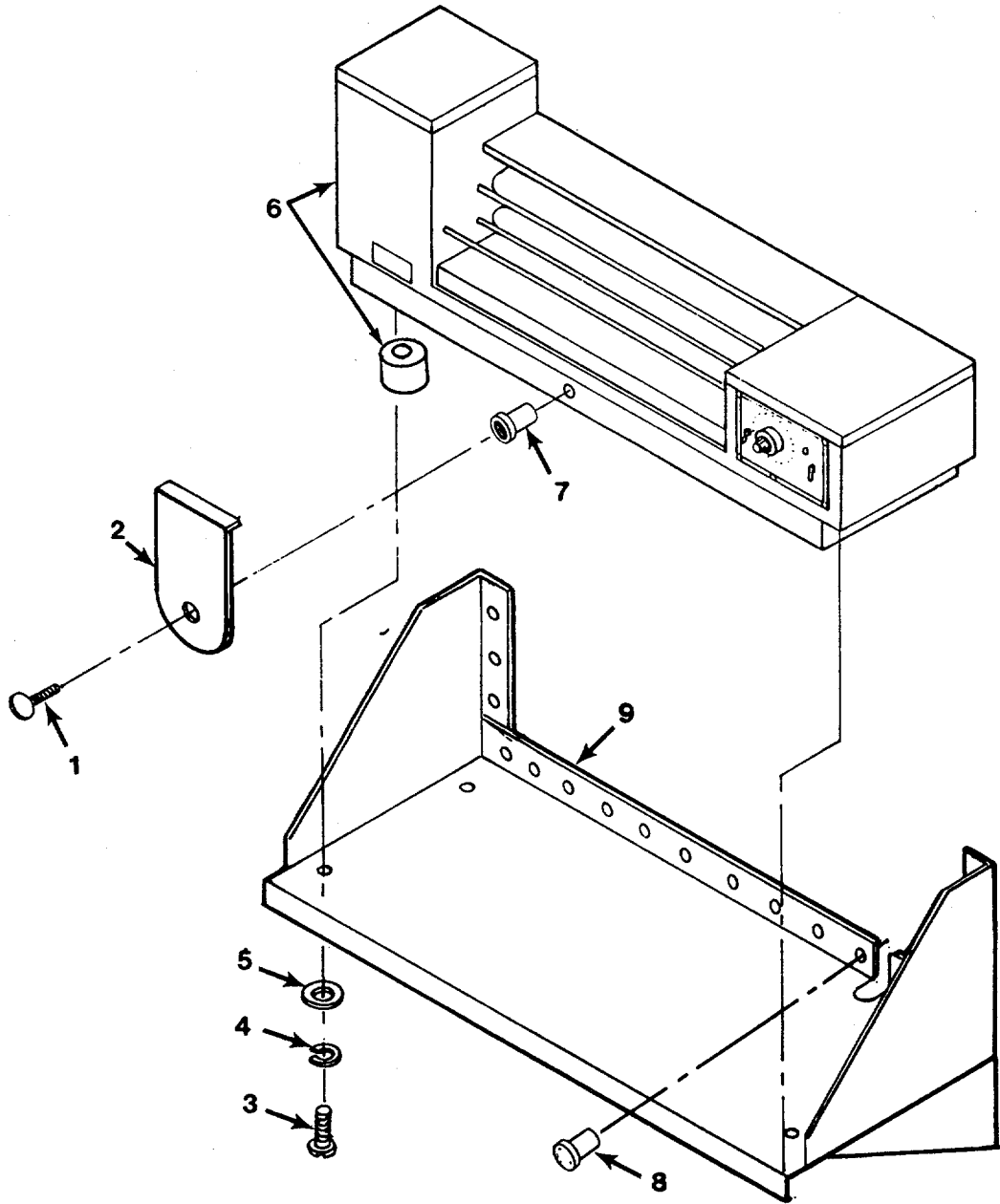


Figure 13. Film Dryer Installation

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) GROUP 09 FILM DRYER & MOUNTING ASSEMBLY	(6) QTY
FIG. 13 FILM DRYER INSTALLATION					
	XCOOO	81337	1-6-6087	ASSY, FILM DRYER &M .....	1
1	XDOZZ	96906	MS21316-23	.THUMBSCREW .....	1
2	XDOZZ	81337	1-6-6088	.BRACKET, FILM DRYER .....	1
3	XDOZZ	96906	MS35206-284	.SCREW, MACHINE .....	4
4	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	4
5	XDOZZ	96906	MS15795-810	.WASHER, FLAT, .25 .....	4
6	PBOOZ	07183	1418	.DRIER, PHOTOGRAPHIC .....	1
7	XDOZZ	96906	MS27130-A21	.NUT, BLIND, RIVET .....	1
8	XDOZZ	96906	MS20600	.RIVET, BLIND .....	1
9	XDOZZ	81337	6-1-5865	.SHELF, DRYER .....	1

END OF FIGURE



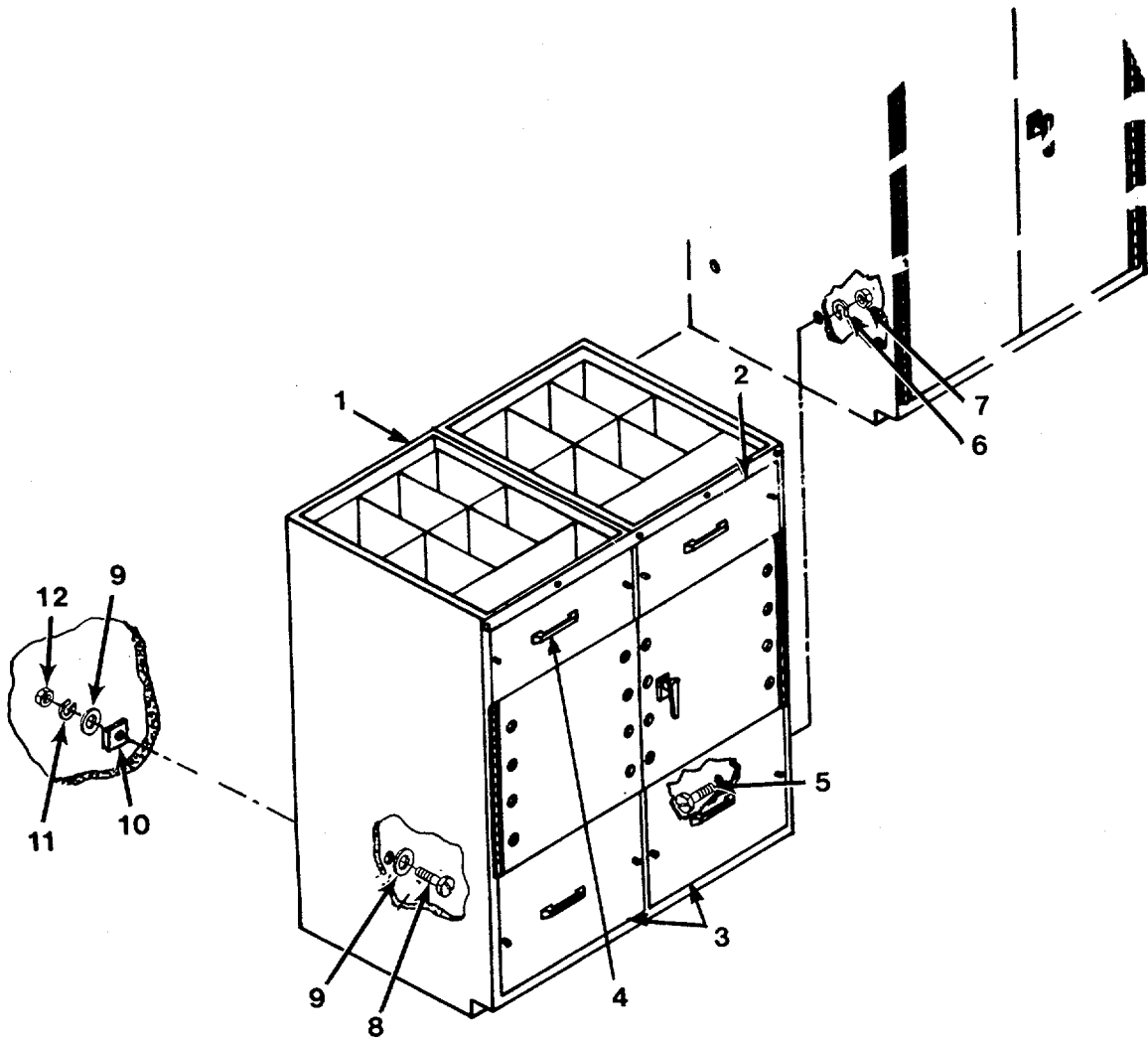


Figure 14. Darkroom Bench Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 10 SUPPLY STORAGE CABINET ASSEMBLY					
FIG. 14 DARKROOM BENCH INSTALLATION					
	XADDD	81337	AN	INSTL,DARKROOM BENC .....	1
1	PDDDD	81337	6-1-7505	.CABINET,SINK,PHOTOG .....	1
2	XDOZZ	81337	6-1-7505-22	..DRAWER .....	1
3	XDOZZ	81337	6-1-7505-25	..DRAWER .....	2
4	XDOZZ	81337	6-1-7505-23	..DRAWER .....	1
5	XDOZZ	96906	MS35207-264	..SCREW,MACHINE .....	4
6	XDOZZ	96906	MS35338-138	..WASHER,LOCK .....	4
7	XDOZZ	96906	MS35650-302	..NUT,PLAIN,HEXAGON .....	4
8	XDOZZ	96906	MS90725-17	.SCREW,CAP HEX HD .....	4
9	XDOZZ	96906	MS27183-10	.WASHER,FLAT .....	8
10	XDOZZ	81337	6-1-7547-6	.PLATE,WASHER,EXT .....	4
11	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	4
12	XDOZZ	96906	MS35649-2252	.NUT,PLAIN,HEXAGON .....	4

END OF FIGURE

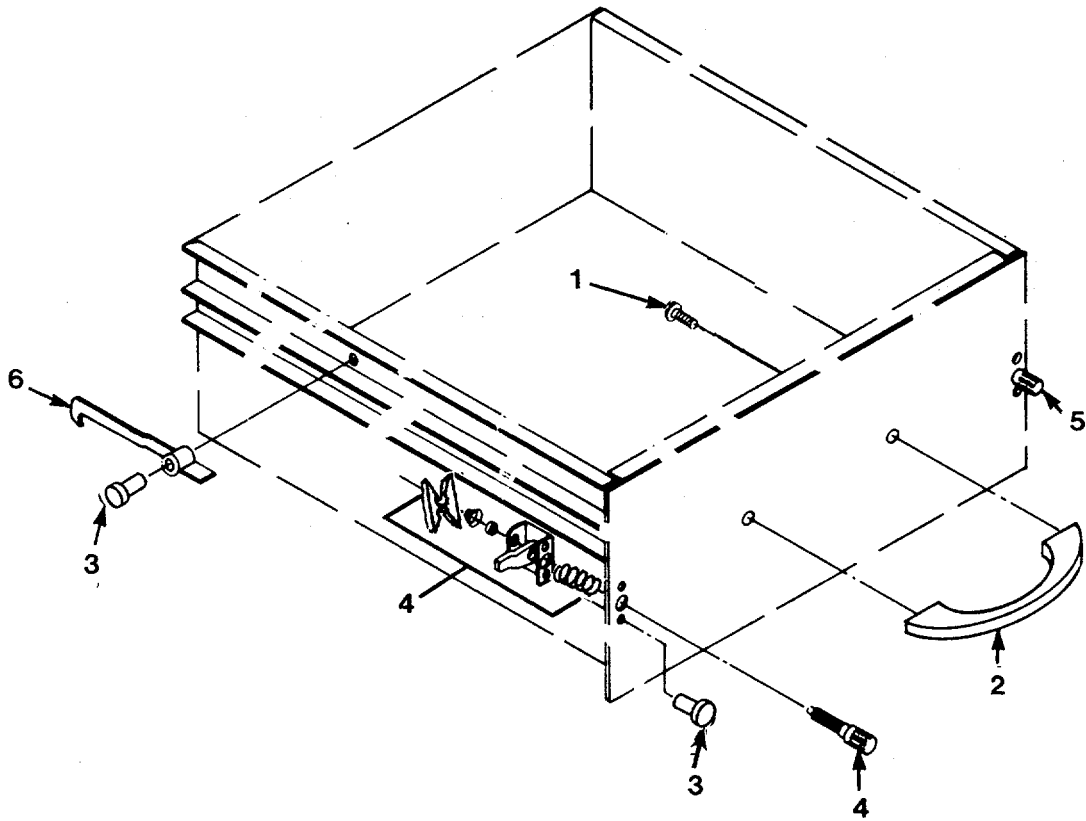


Figure 15. Darkroom Bench Drawer

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 10 SUPPLY STORAGE CABINET  
ASSEMBLY

FIG. 15 DARKROOM BENCH DRAWER

1	XDOZZ	42689	61-289-3	..SCREW,SCH,NO.8-32 UNC-2A .....	8
2	XDOZZ	42689	61-394	..DRAWER,PULL .....	4
3	XDOZZ	96906	MS20613-4P4	..RIVET,SOLID .....	28
4	XDOZZ	94222	43-10-3-0	..FASTENER,PAWL .....	4
5	XDOZZ	94222	43-1-3-0	..FASTENER,PAWL .....	4
6	XDOZZ	81337	6-1-7505-31	..LATCH,STOP .....	14

END OF FIGURE

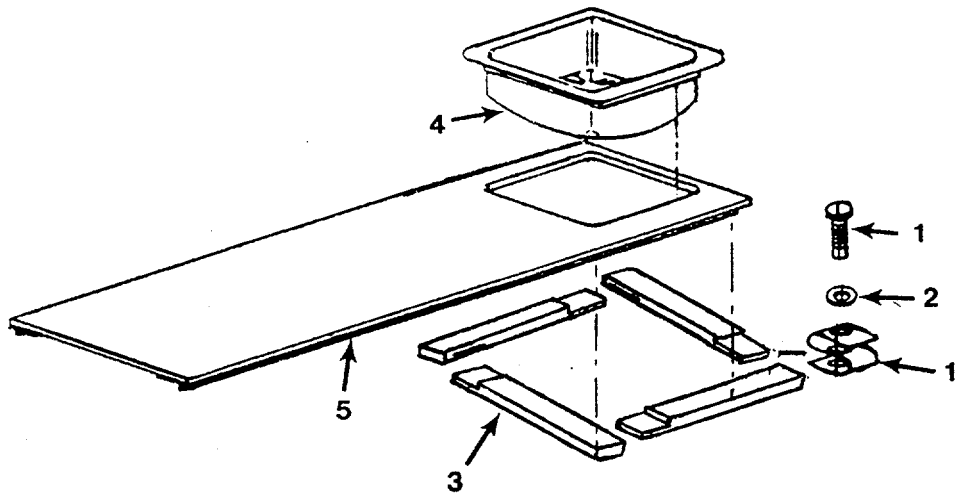


Figure 16. Sink Installation

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 10 SUPPLY STORAGE CABINET  
ASSEMBLY

FIG. 16 SINK INSTALLATION

1	XDOZZ	35550	HF18S	..FASTENER,SINK .....	4
2	XDOZZ	96906	MS27183-8	..WASHER,FLAT .....	4
3	XDOZZ	81337	6-1-7505-20	..SPACER,WOOD .....	4
4	XDOZZ	35550	S135N61/2	SINK .....	1
5	XDOZZ	81337	6-1-7505-1	..TOP,SINK .....	1

END OF FIGURE

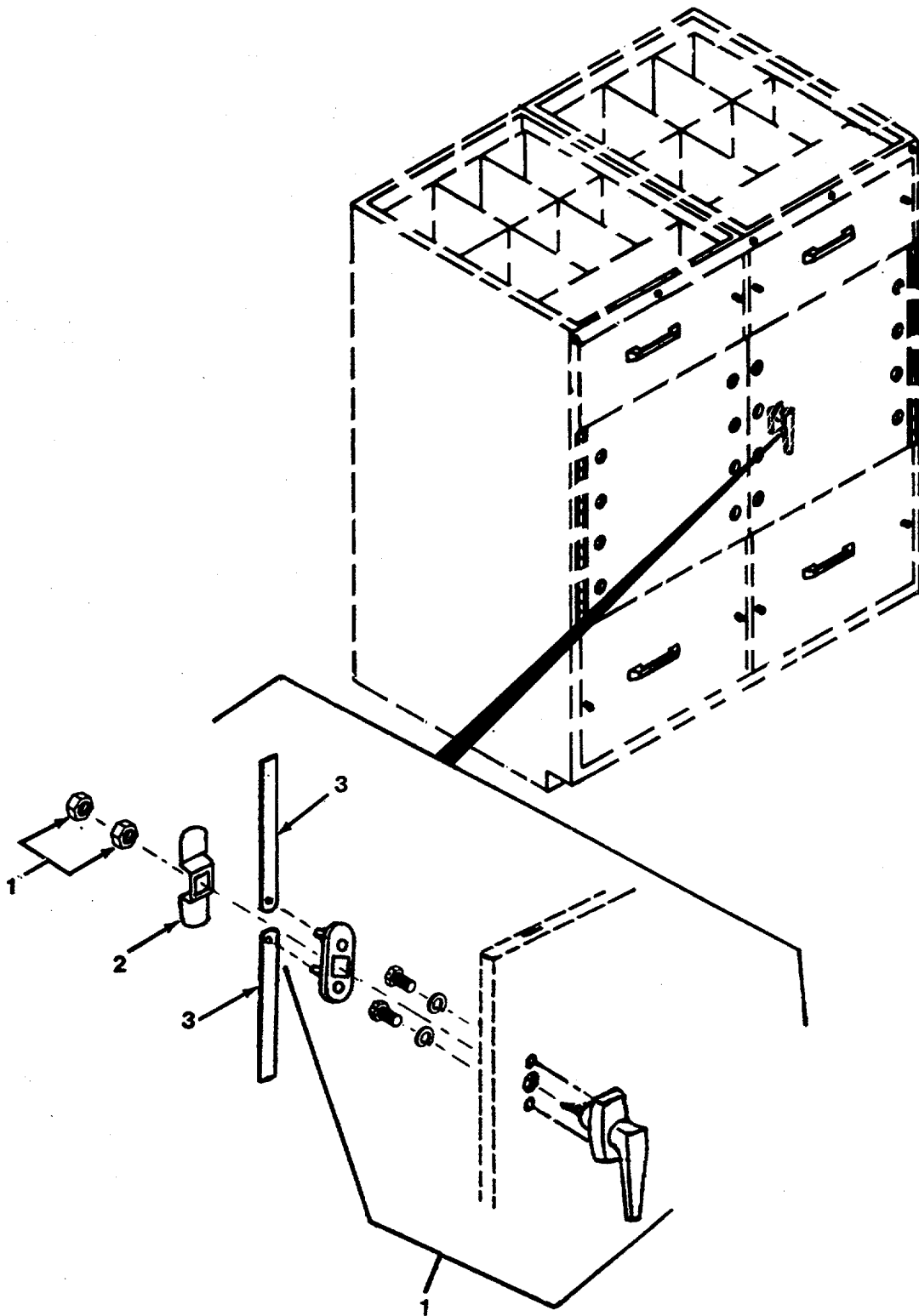


Figure 17. Supply Cabinet Door Latch  
F-42 Change 2

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 10 SUPPLY STORAGE CABINET ASSEMBLY

FIG. 17 SUPPLY CABINET DRALIER LATCH

1	XDOZZ	42689	68-090	..LATCH,1DOOR .....	2
2	XDOZZ	42689	68-1624TYF	..PLATE,LATCH .....	2
3	XDOZZ	81337	6-1-7505-17	..ARM,LATCH .....	4

END OF FIGURE



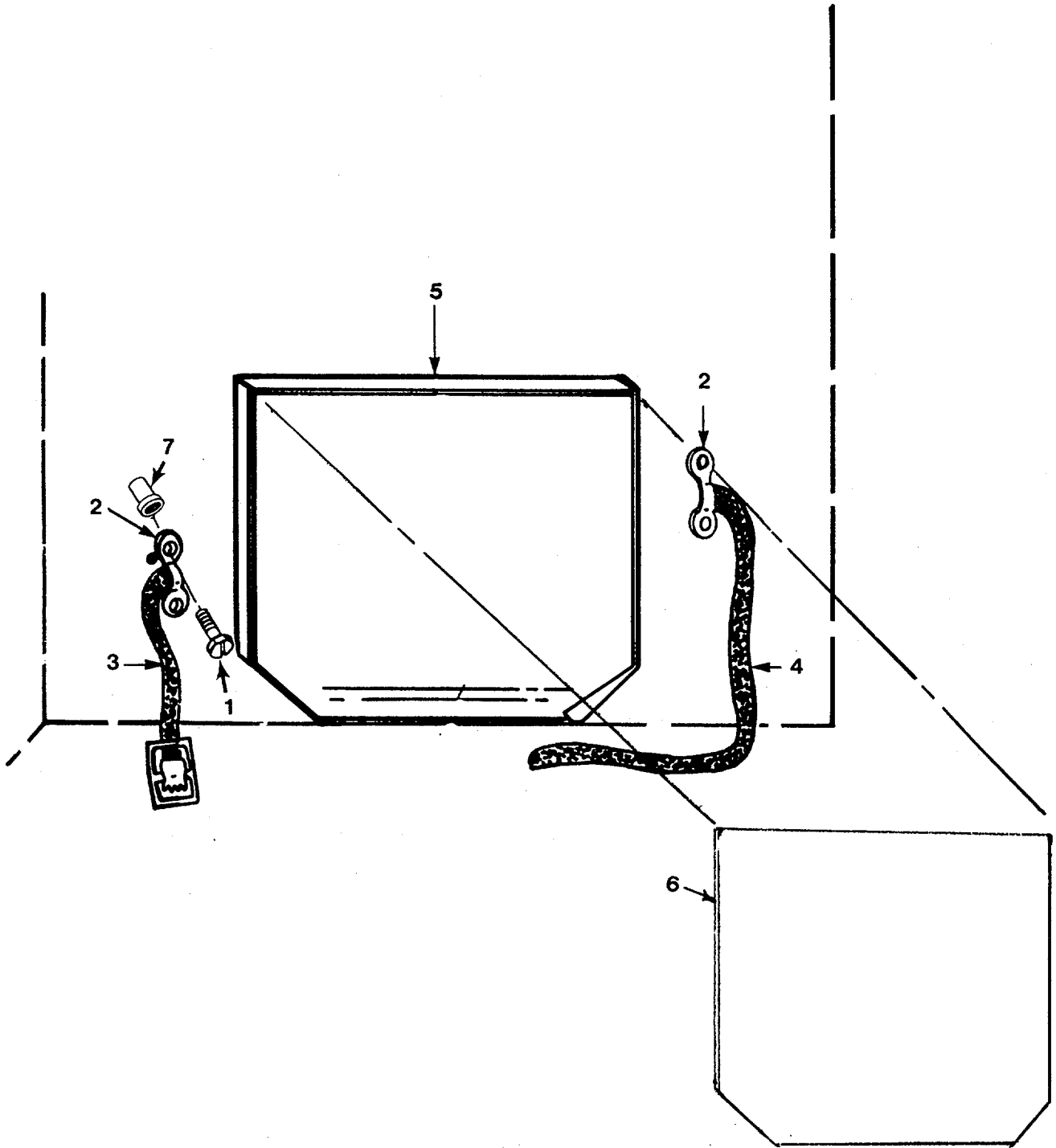


Figure 18. Rub-Up Board Installation.

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 11 RUB-UP BOARD & MOUNTING ASSEMBLY

FIG. 18 RUB-UP BOARD INSTALLATION

1	XDOZZ	96906	MS35191-274	.SCREW, MACHINE 10-32 UNF24 X 1/2 INCH	4
2	XDOZZ	76786	662R1	.LOOP,STRAP FASTENER	2
3	XDOZZ	81337	6-1-5877-1	.CIAPE ASSEMBLY	1
4	XDOZZ	81337	6-1-5877-2	.STRAP ASSY,SHORT	1
5	PDOZZ	81337	6-1-5873	.RUB-UP BOARD ASSEMB	1
6	XDOZZ	81337	6-1-5873-5	..COVERING,RUBBER	1
7	XDOZZ	96906	MS27130-28	.NUT,BLIND,RIVET	4

END OF FIGURE

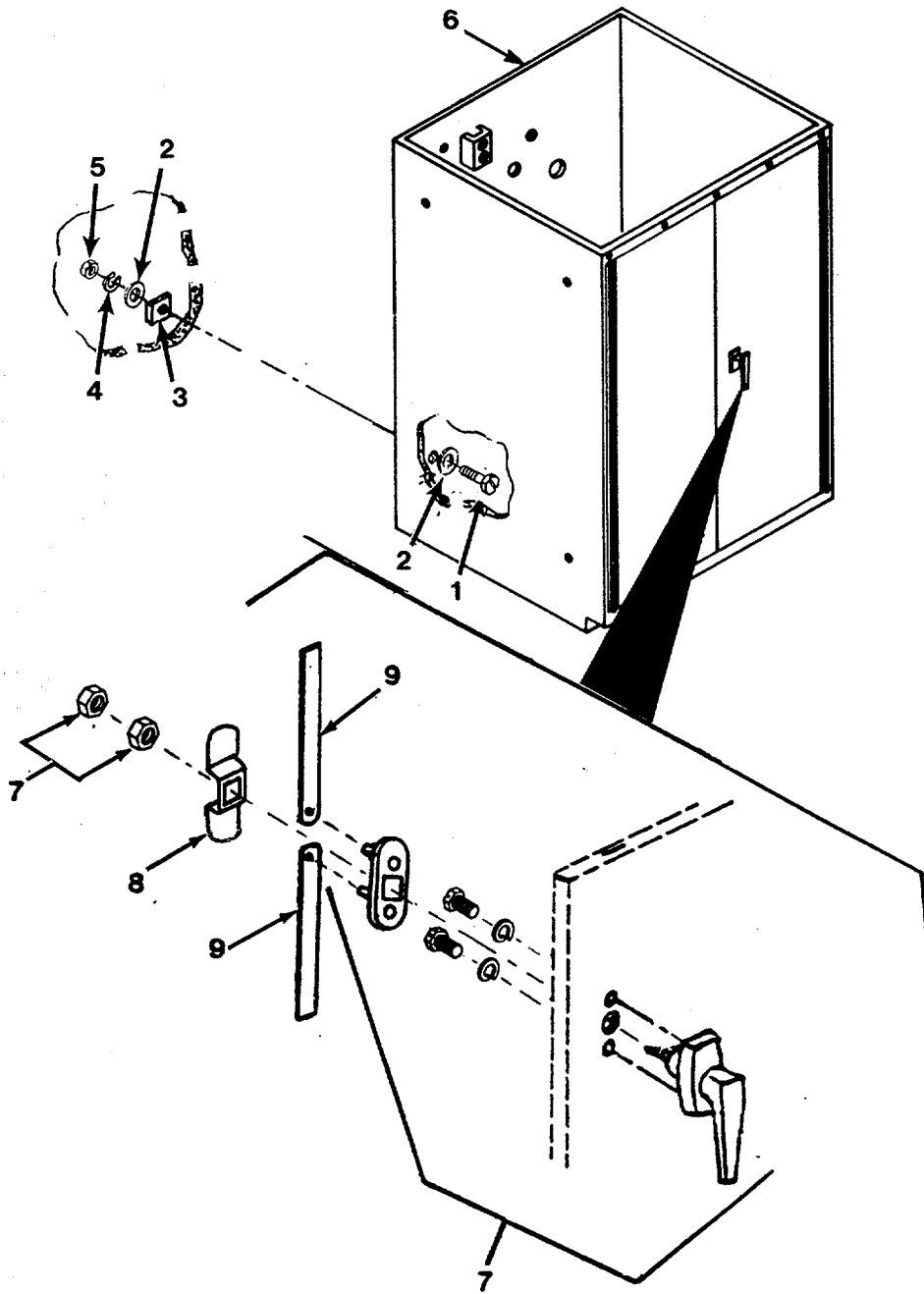


Figure 19. Water Supply Assembly

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 12 WATER SUPPLY CABINET ASSEMBLY

FIG. 19 WATER SUPPLY ASSEMBLY

1	XDOZZ	96906	MS90725-17	.SCREW,CAP HEX HD .....	4
2	XDOZZ	96906	MS27183-10	.WASHER,FLAT .....	8
3	XDOZZ	81337	6-1-7547-6	.PLATE,WASHER,EXT .....	4
4	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	4
5	XDOZZ	96906	MS35649-2252	.NUT,PLAIN,HEXAGON .....	4
6	XDOOO	81337	6-1-7505-47	.CABINET,WATER SUPPL .....	1
7	XDOZZ	42689	68-090	..LATCH,DOOR .....	1
8	XDOZZ	42689	68-1624TYF	..PLATE,LATCH .....	1
9	XDOZZ	81337	6-1-7505-17	..ARM,LATCH .....	2

END OF FIGURE

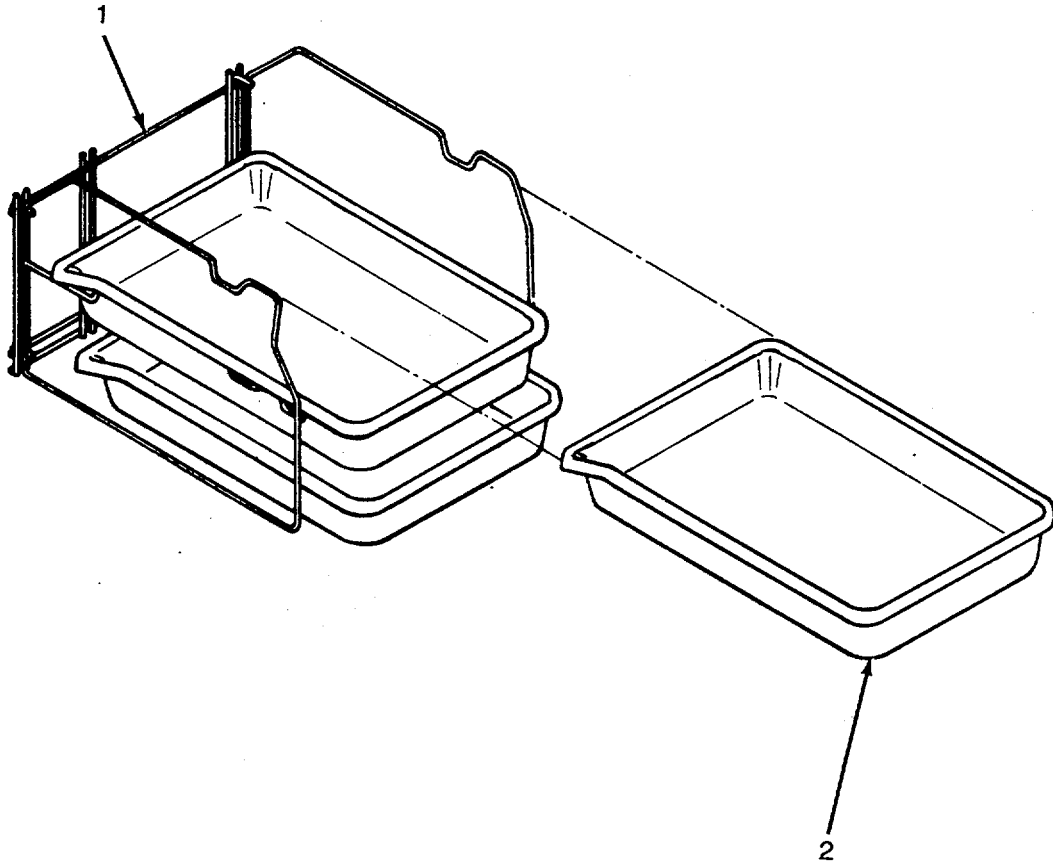


Figure 20. Phototray

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 13 PHOTOTRAY ASSEMBLY

FIG. 20 PHOTOTRAY

1	PDOZZ	10066	1400	RACK,PHOTO TRAY .....	3
2	PAOZZ	10066	1114T	TRAY,PROCESSING,PH0 .....	3

END OF FIGURE

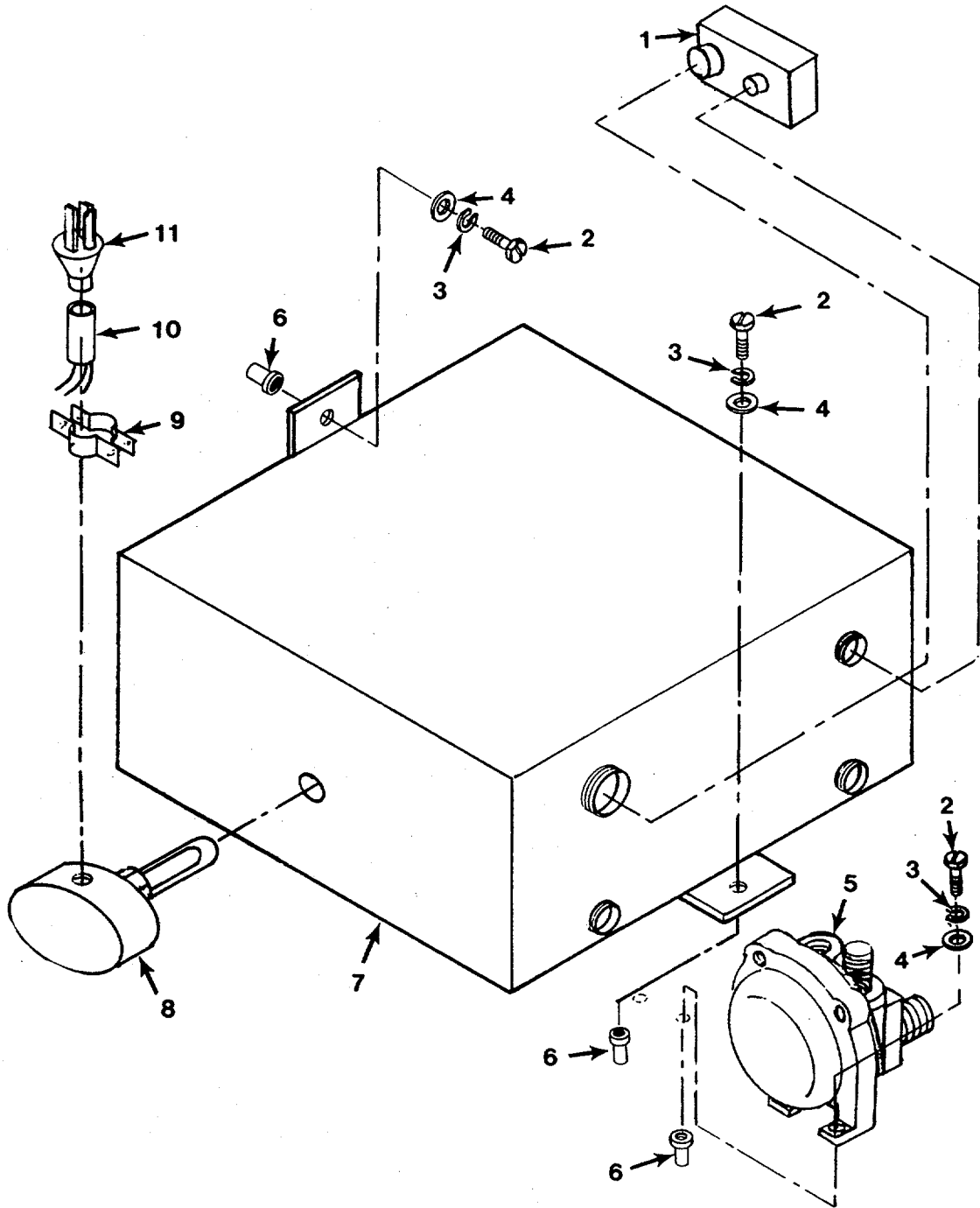


Figure 21. Water Tank/Pump Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 14 WATER TANK & MOUNTING ASSEMBLY

FIG. 21 WATER TANK/PUMP INSTALLATION

	XCOOO	81337	1-6-6089	INSTL,WTR TANK/PUMP .....	1
1	XDOZZ	34784	P505-T1414	.FILLER,WATER .....	1
2	XDOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H 1/4-20 X 3/4.....	4
3	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	4
4	XDOZZ	96906	MS27183-10	.WASHER,FLAT .....	4
5	PBOZZ	16327	1P805A	.PUMP UNIT,CENTRIFUG .....	1
6	XDOZZ	96906	MS27130-A33	.NUT,BLIND,RIVET 1/4-20 .....	4
7	XDOZZ	81337	1-6-6090	.TANK,WATER .....	1
8	PAOZZ	65586	ARTM-10OOL	.HEATER,IMMERSION .....	1
9	XDOZZ	83879	C-152	.CLAMP,CABLE .....	1
10	XDOZZ	81337	1-6-6089-11	.CABLE,3WIRE,12GAGE 600V .....	1
11	XDOZO	77881	D021	.CONNECTOR,PLUG,ELEC .....	1

END OF FIGURE



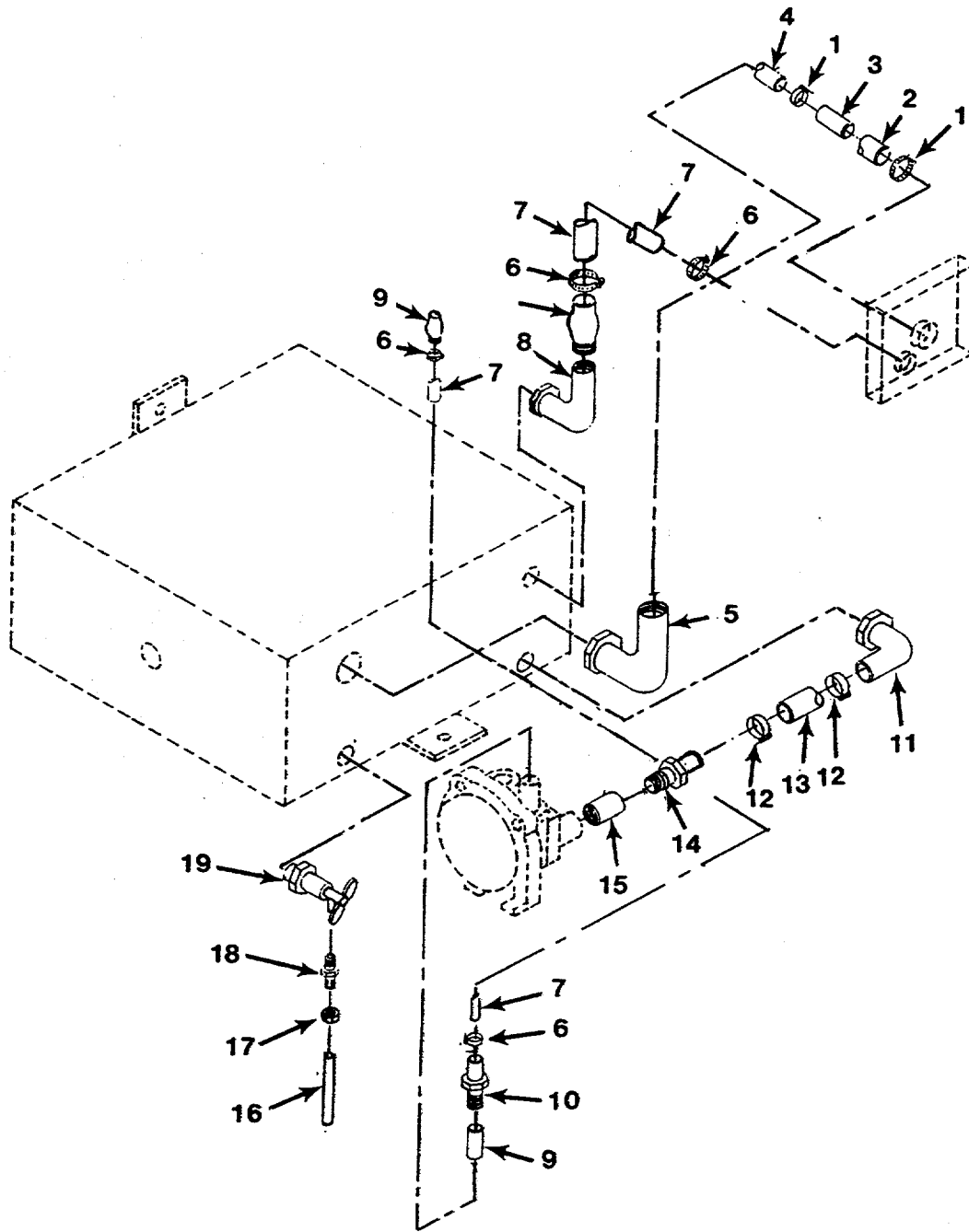


Figure 22. Water Tank Plumbing Installation

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 14 WATER TANK & MOUNTING ASSEMBLY					
FIG. 22 WATER TANK PLUMBING INSTALLATION					
1	XCOOO	81337	1-6-6091	..INSTL,WTR TK PLMB .....	1
2	XDOZZ	96906	MS35842-12	..CLAMP,HOSE .....	2
3	XDOZZ	39428	5233K34	..TUBING,1.25 ID .....	V
4	XDOZZ	39428	4880K12	..PIPE,PVC,2IN,SCH 40 .....	1
5	XDOZZ	39428	5231K24	..TUBING,1 ID .....	V
6	XDOZZ	39428	5373K35	..ELBOW,1IN NPT TO 1 IN HOSE,NYLON .....	1
7	XDOZZ	96906	MS35842-8	..CLAMP,HOSE .....	3
8	XDOZZ	39428	5231K17	..TUBING,3/8 ID .....	V
9	XDOZZ	39428	5373K18	..ELBOW,MALE 90DEG 3/8 NPT TO 3/8 HOSE,NYLON .....	1
10	XDOZZ	39428	4547K11	..COUPLING,1/4NPT BRASS .....	1
11	XDOZZ	39428	5372K17	..NIPPLE,MALE 1/4NPT TO 3/8 HOSE, NYLON .....	1
12	XDOZZ	39428	5373K24	..ELBOW,90DEG MALE 3/8 NPT TO 1/2 HOSE,NYLON .....	1
13	XDOZZ	96906	MS35842-11	..CLAMP,HOSE .....	2
14	XDOZZ	39428	5231K19	..TUBING,1/2 ID .....	V
15	XDOZZ	39428	5372K25	..NIPPLE,1/2NPT TO 1/2 INCH HOSE .....	V
16	XDOZZ	34942	84596K52	..COUPLING,1/2NPT,PVC .....	1
17	XDOZZ	81337	6-1-7506-20	..TUBE,THREADED,CU 5/8 OD .....	1
18	XDOZZ	96906	MS35650-3402	..NUT,PLAIN,HEXAGON 5/8-18 .....	1
19	XDOZZ	96906	MS51847-2	..BUSHING .....	1
20	XDOZZ	30327	303E	..COCK,DRAIN 1/4NPT,BRASS .....	1

END OF FIGURE

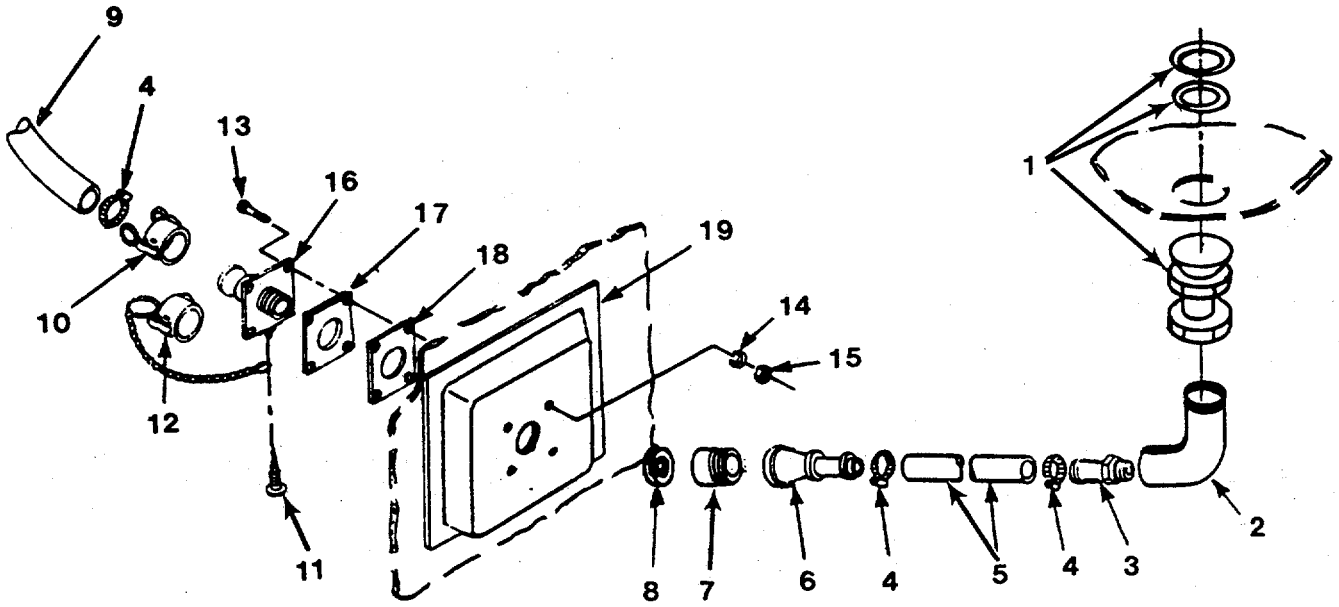


Figure 23. Sink Plumbing Assembly

SECTION II			TM 5-3610-295-13&P-1		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM NO	SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 15 COUNTER TOP AND SINK ASSEMBLY					
FIG. 23 SINK PLUMBING ASSEMBLY					
	XCOOO	81337	6-1-5856	ASSY,SINK PIPING .....	1
1	XDOZZ	39428	2672K13	.STRAINER,SINK .....	1
2	XDOZZ	39428	5373K35	.ELBOW,1IN NPT TO 1 IN HOSE,NYLON .....	1
3	XDOZZ	39428	5372K35	.NIPPLE,1IN NPT TO 1 IN HOSE,NYLON.....	1
4	XDOZZ	66295	C16P	.CLAMP,HOSE .....	3
5	XDOZZ	39428	5108K68	.HOSE,1IN ID 12IN LONG .....	1
6	XDOZZ	39428	4823K16	.COUPLING,1IN CLOSE STAINLESS STEEL .....	1
7	XDOZZ	39428	6809K16	.COUPLING,1.5IN PVC .....	1
8	XDOZZ	62531	439-211	.BUSHING,1.5IN NPT 1IN NPT .....	1
9	PAOZZ	98441	219-16	.HOSE,NONMETALLIC EXTERNAL DRAIN,.....	6
				72IN LONG	
10	PBOZZ	96906	MS27025-5	.COUPLING HALF,QUICK .....	1
11	XDOZZ	96906	MS51861-24	.SCREW,TAPPING,THREA .....	1
12	XDOZZ	96906	MS27028-5	.CAP,QUICK DISCONNEC .....	1
13	XDOZZ	96906	MS35206-263	.SCREW,MACHINE .....	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 .....	1
17	XDOZZ	81337	6-1-5856-6	.PLATE ADAPTER .....	1
18	XDOZZ	81337	6-1-5856-14	.GASKET PLATE EXT .....	1
19	XDOZZ	81337	6-1-5856-3	.RECEPTACLE,DRAIN .....	1

END OF FIGURE

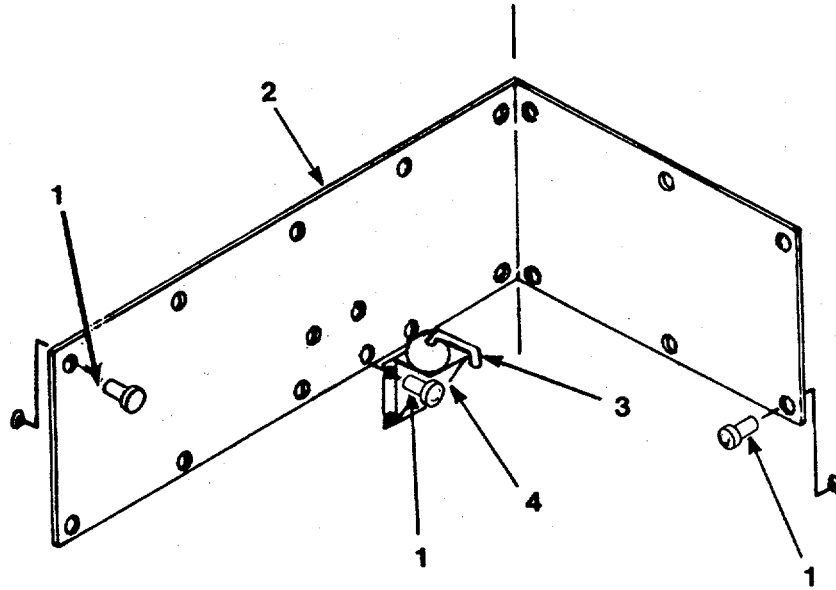


Figure 24. Faucet Installation

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 15 COUNTER TOP AND SINK ASSEMBLY

FIG. 24 FAUCET INSTALLATION

1	XDOZZ	96906	MS20600-B6W4	.RIVET,BLIND .....	18
2	XDOZZ	81337	6-1-7530	.SHIELD,SINK .....	1
3	XDOZZ	66607	150-019	.FAUCET ASSEMBLY .....	1
4	XDOZZ	81337	6-1-7526	.BRACKET,FAUCET .....	1

END OF FIGURE

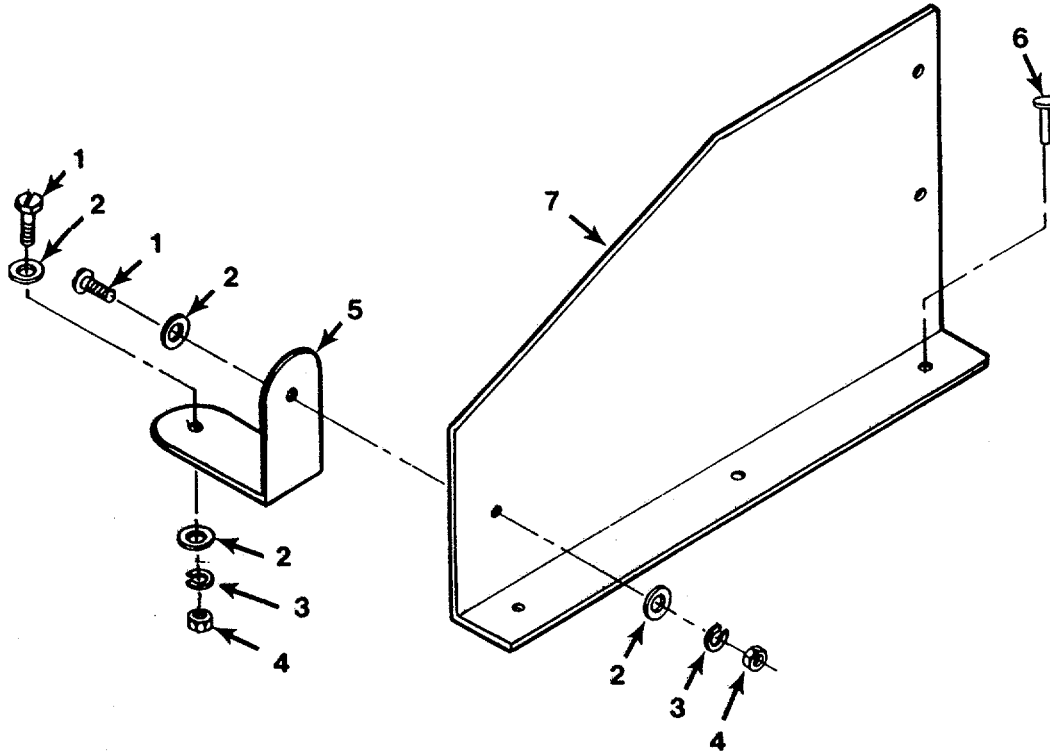


Figure 25. Sink Side Shield Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 15 COUNTER TOP AND SINK ASSEMBLY					
FIG. 25 SINK SIDE SHIELD INSTALLATION					
1	XDOZZ	96906	MS51957-63	.SCREW,MACHINE .....	2
2	XDOZZ	96906	MS27183-42	.WASHER,FLAT .....	4
3	XDOZZ	96906	MS35338-43	.WASHER,LOCK .....	2
4	XDOZZ	96906	MS35649-202	.NUT,PLAIN,HEXAGON .....	2
5	XDOZZ	81337	1-6-6086	.BRACKET,ANGLE .....	1
6	XDOZZ	81349	M24243/6-A604H	.RIVET,BLIND .....	3
7	XDOZZ	81337	1-6-6085	.SHIELD,SINK,SIDE .....	1

END OF FIGURE



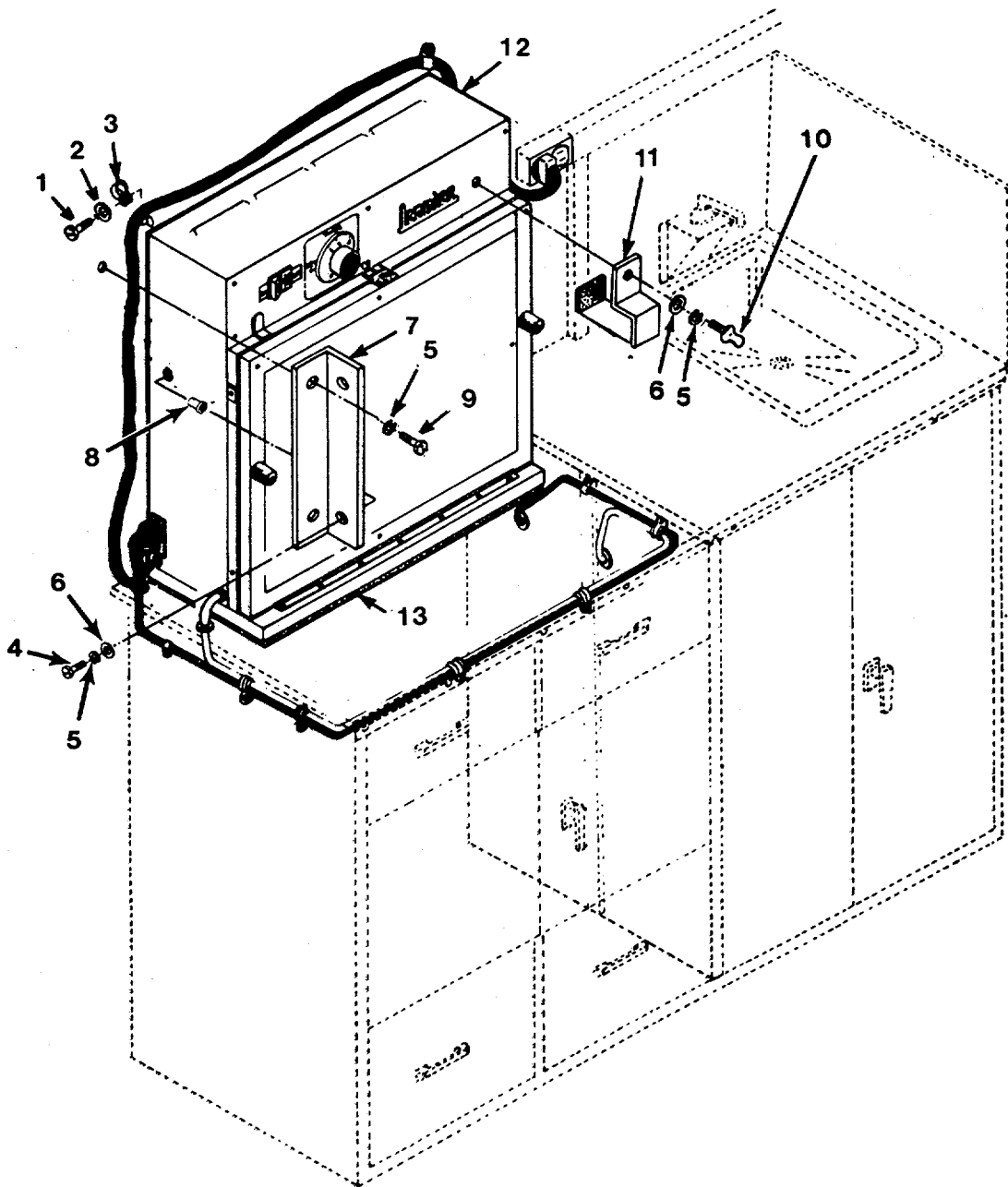


Figure 26. Vertical Vacuum Frame Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 16 VERTICAL VACUUM FRAME ASSETMBLY					
FIG. 26 VERTICAL VACUUM FRAME INSTALLATION					
1	XDOZZ	96906	MS51861-45C	.SCREW,TAPPING,THREA .....	10
2	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	10
3	XDOZZ	96906	MS21919-5	.CLAMP,CABLE 5/16 OD .....	10
4	XDOZZ	96906	MS35191-272	.SCREW, MACHINE .....	4
5	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	9
6	XDOZZ	96906	MS27183-10	.WASHER,FLAT .....	5
7	XDOZZ	81337	6-1-7547-4	.BRACKET,ANGLE,2X2X1 .....	2
8	XDOZZ	96906	MS27130-33	.NUT,BLIND,RIVET .....	4
9	XDOZZ	96906	MS90728-8	.SCREW,CAP,HEXAGON H .....	4
10	XDOZZ	96906	MS21316-35	.THUMBSCREW 1/4-20 X 3/4 .....	1
11	XDOZZ	81337	6-1-7547-2	.BRACKET,SHIPPING .....	1
12	PBOOO	60847	BVL-1617	.PLATEMAKER ASSEMBLY .....	1
13	XDOZZ	81337	6-1-7501-103	.PAD,RUBBER,1/4IN.....	1

END OF FIGURE

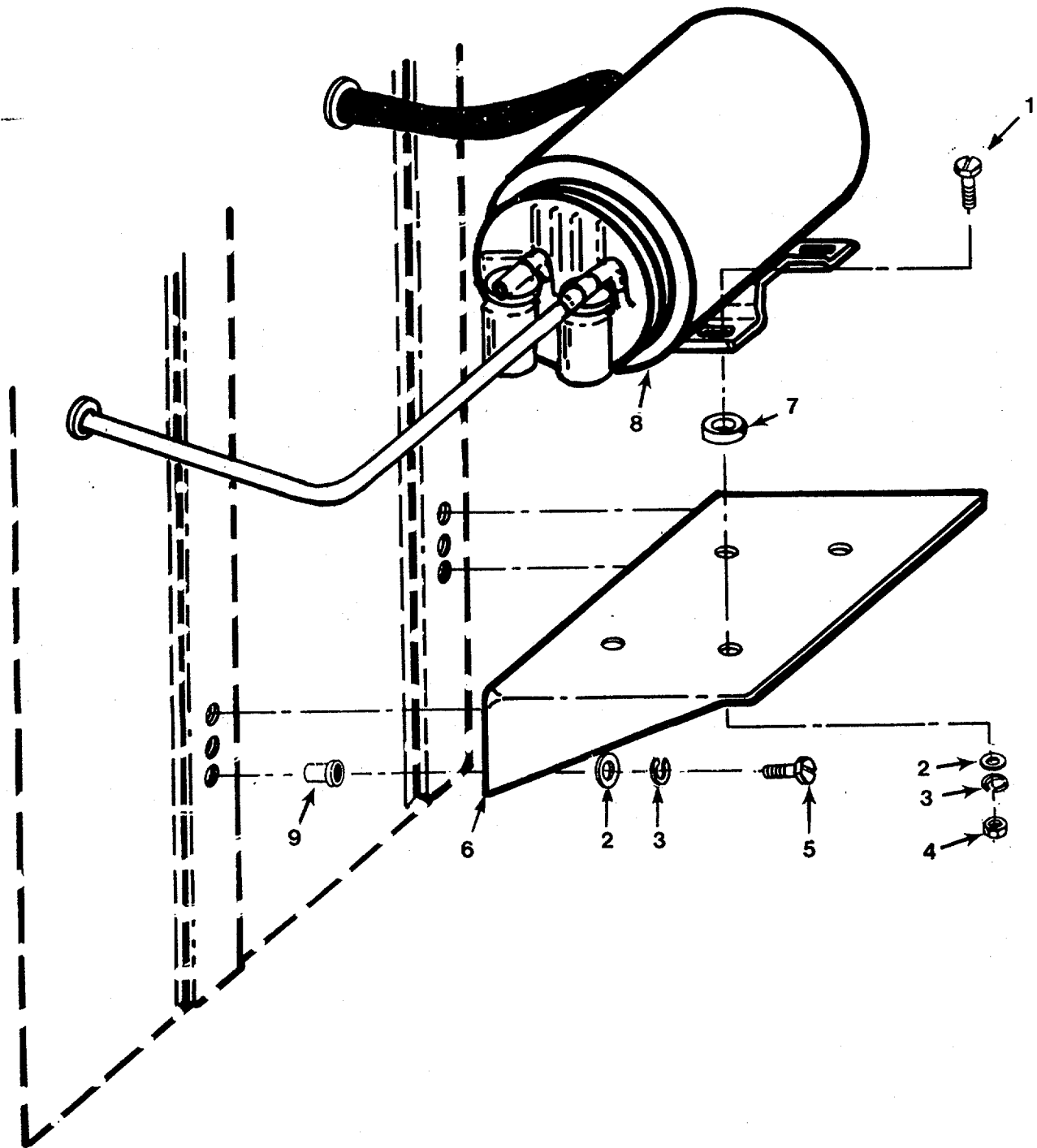


Figure 27. Vacuum Pump Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 16 VERTICAL VACUUM FRAME  
ASSEMBLY

FIG. 27 VACUUM PUMP INSTALLATION

	XCOOO	81337	6-1-7524	INSTL,VACUUM PUMP .....	1
1	XDOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H .....	4
2	XDOZZ	96906	M5S27183-10	.WASHER,FLAT .....	10
3	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	10
4	XDOZZ	96906	MS51967-2	.NUT,HEX .....	4
5	XDOZZ	96906	MS90726-6	.SCREW,CAP,HEX HD .....	6
6	XDOZZ	81337	6-1-7524-1	.BRACKET,VACUUM PUMP .....	1
7	XDOZZ	81337	6-1-7524-8	.SPACER,RUBBER .....	4
8	XDOZZ	60847	0211-103AC8CX	.PUMP,VACUUM .....	1
9	XDOZZ	96906	M527130-38	.NUT,BLIND,RIVET .....	6

END OF FIGURE

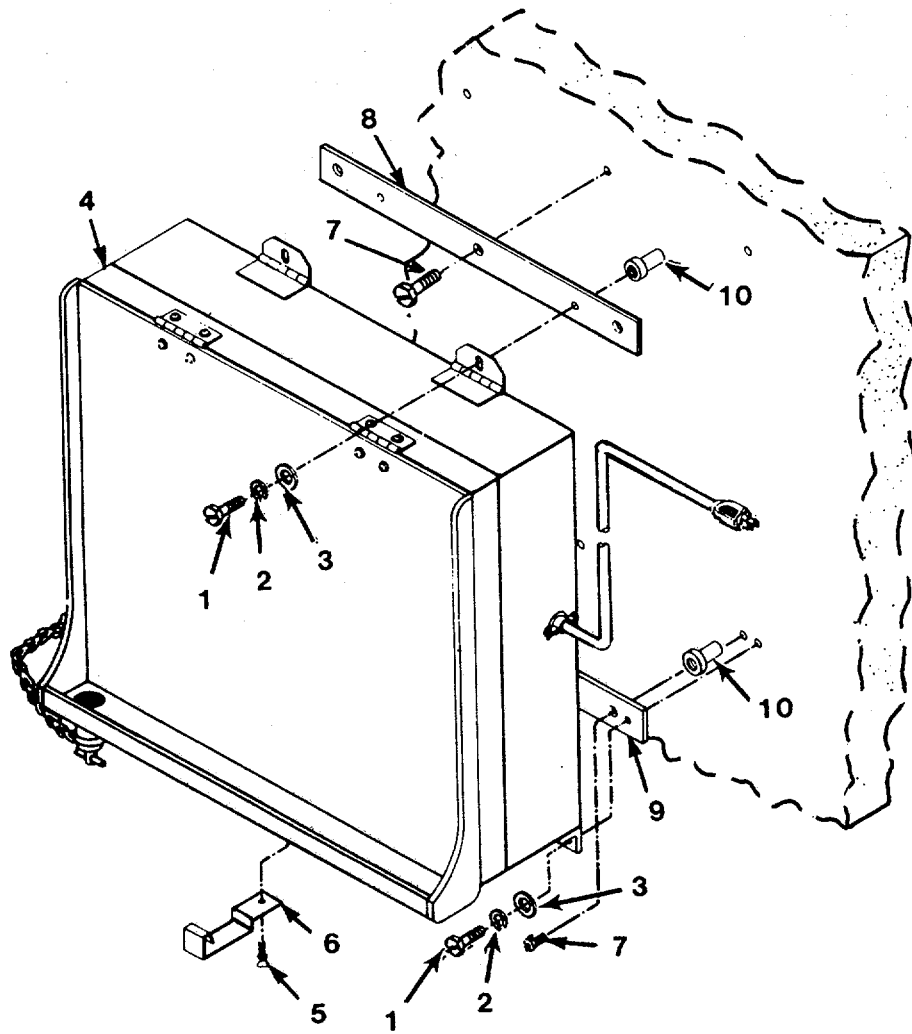


Figure 28. Viewing Light Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 17 VIEWING LIGHT ASSEMBLY					
FIG. 28 VIEWING LIGHT INSTALLATION					
	XCOOO	81337	6-1-7523	INSTL,VIEWING LIGHT .....	1
1	XDOZZ	96906	MS90725-3	.SCREW,CAP,HEXAGON H .....	4
2	XDOZZ	96906	MS35338-44	.WASHER,LOCK .....	6
3	XDOZZ	96906	MS15795-810	.WASHER,FLAT,.25 .....	6
4	PBOOZ	93791	DLV20	.LIGHT,PHOTOGRAPHIC .....	1
5	XDOZZ	96906	MS21316-15	.THUMBSCREW .....	1
6	XDOZZ	81337	6-1-7523-9	.BRACKET,HOLD DOWN .....	1
7	XDOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H .....	6
8	XDOZZ	81337	6-1-7523-2	.BRACKET,UPPER .....	1
9	XDOZZ	81337	6-1-7523-3	.BRACKET,LOWER .....	1
10	XDOZZ	96906	MS27130-33	.NUT,BLIND,RIVET .....	6

END OF FIGURE

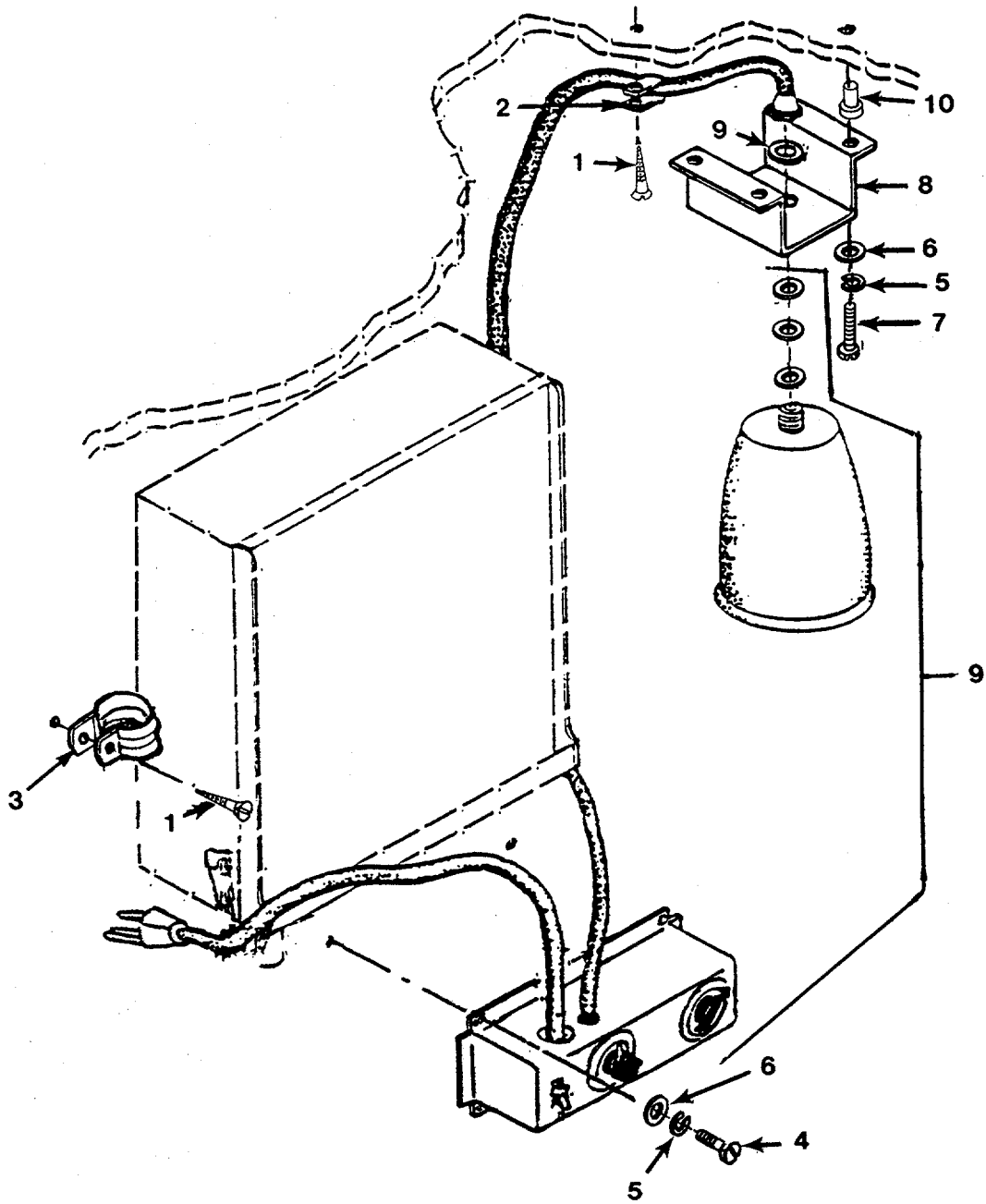


Figure 29. Pin Point Light Assembly

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 18 PIN POINT LIGHT ASSEMBLY					
FIG. 29 PIN POINT LIGHT ASSEMBLY					
1	XDOZZ	96906	MS51861-45C	. SCREW,TAPPING,THREA .....	5
2	XDOZZ	96906	MS21919-6	. CLAMP,CABLE, 3/8 OD .....	2
3	XDOZZ	96906	MS21919-14	. CLAMP,CABLE 7/8 OD .....	3
4	XDOZZ	96906	MS35219-71	. SCREW,MACHINE .....	4
5	XDOZZ	96906	MS35338-44	. WASHER,LOCK .....	8
6	XDOZZ	96906	MS27183-10	. WASHER,FLAT .....	8
7	XDOZZ	96906	MS90725-6	. SCREW,CAP,HEXAGON H .....	4
8	XDOZZ	81337	6-1-7525-1	. BRACKET,SAFE LIGHT .....	1
9	PBOZZ	93699	100W,1A	. LAMP,CONTACT .....	1
10	XDOZZ	96906	MS27130-33	. NUT,BLIND,RIVET .....	4

END OF FIGURE



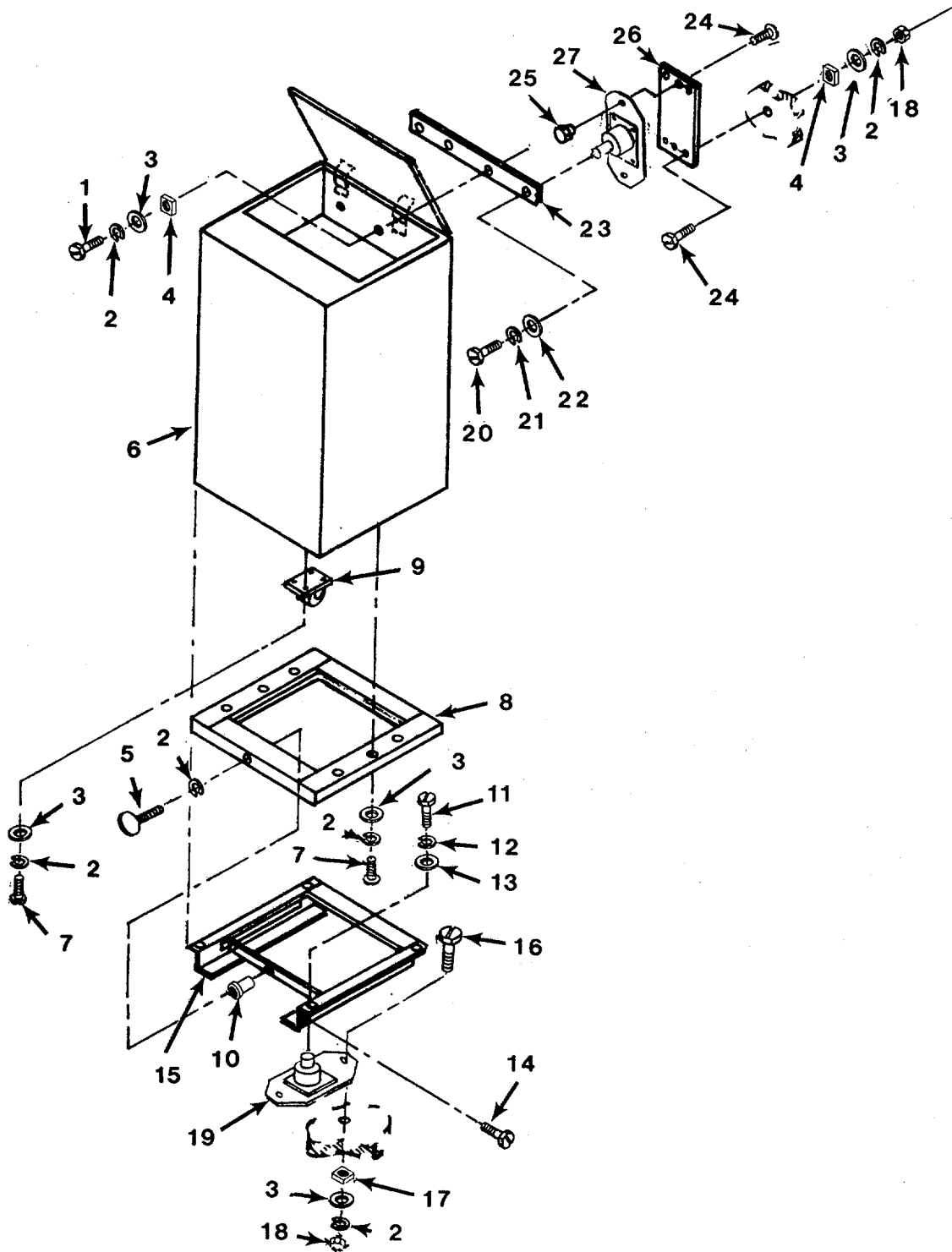


Figure 30. Phototypesetter Digital Slave Installation

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 19 PHOTOTYPESETTER ASSEMBLY					
FIG. 30 PHOTOTYPESETTER DIGITAL SLAVE INSTALLATION					
	XCOOO	81337	1-6-6104	..INSTL,DIG SLAVE MTG .....	1
1	XDOZZ	96906	MS90728-8	..SCREW,CAP,HEXAGON H .....	2
2	XDOZZ	96906	MS35338-44	..WASHER,LOCK .....	35
3	XDOZZ	96906	MS15795-410	..WASHIER,FLAT,.25 .....	34
4	XDOZZ	81337	1-6-6106	..PLAIE,RETAINING .....	2
5	XDOZZ	96906	MS21316-36	..THUMBSCREW .....	1
6	MDOOO	81337	1-6-6159	..SLAVE,DIGITAL;MODIF MODIFIED .....	1
FROM VARITYPER (62812) MODEL 6.810W .....					
7	XDOZZ	96906	MS90725-3	..SCREW,CAP,HEXAGON H.....	14
8	XDOZZ	81337	1-6-6109	..SLIDE TRACK, TOP .....	1
9	XDOZZ	25472	13-40-XKN	..CASTER,PIANO .....	2
10	XDOZZ	96906	MS27130-33	..NUT,BLIND,RIVET .....	1
11	XDOZZ	96906	MS90726-109	..SCREH,CAP,HEXAGON H .....	4
12	XDOZZ	96906	MS35338-48	..WASIIER,LOCK .....	4
13	XDOZZ	96906	MS27183-18	..WASHIER,FLAT .....	4
14	XDOZZ	96906	MS90725-6	..SCREW,CAP,HEXAGON H .....	2
15	XDOZZ	81337	1-6-6108	..SLIDE TRACK,BTM .....	1
16	XDOZZ	96906	MS90725-18	..SCREW,CAP,HEXAGON H .....	18
17	XDOZZ	81337	6-1-7547-6	..PLATE,WASHER,EXT .....	18
18	XDOZZ	96906	MS35649-2252	..NUT,PLAIN,HEXAGON .....	16
19	XDOZZ	81860	T94AB110	..MOUNT .....	4
20	XDOZZ	96906	MS90725-58	..SCREW,HEX .....	2
21	XDOZZ	96906	MS35338-46	..WASHER,LOCK .....	2
22	XDOZZ	96906	M515795-412	..WASHER,FLAT .....	2
23	XDOZZ	81337	1-6-6105	..BRACKET,REAR SPT .....	1
24	XDOZZ	96906	MS35190-271	..SCREW,MACHINE .....	8
25	XDOZZ	96906	MS17828-3C	..NUT,LOCK .....	4
26	XDOZZ	81337	1-6-6107	..PLATE,MOUNTING .....	2
27	XDOZZ	81860	T94AB110	..MOUNT .....	2

END OF FIGURE

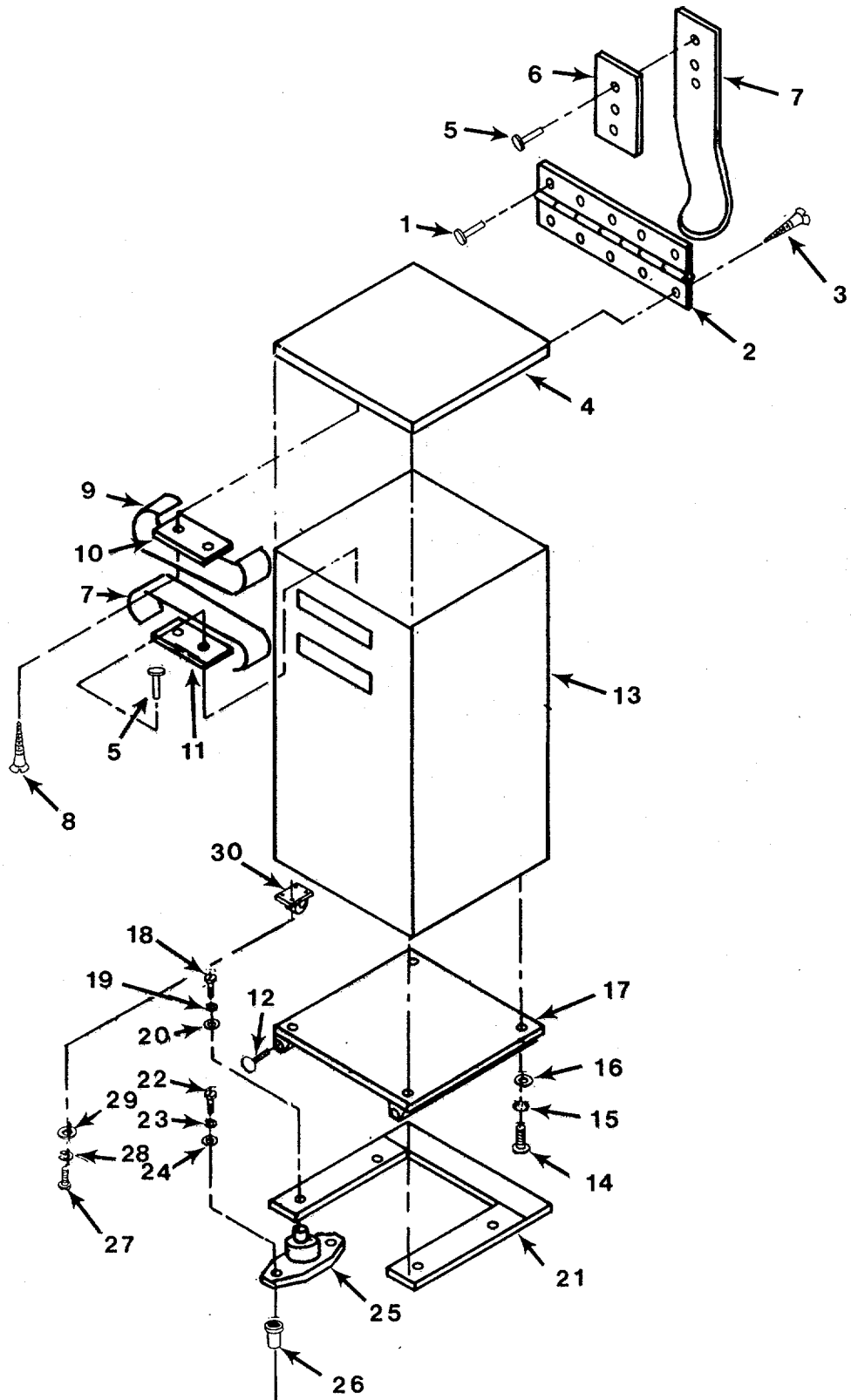


Figure 31. Phototypesetter Controller and Table Installation Digital Slave Installation

Change 2 F-70

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 19 PHOTOTYPESETTER ASSEMBLY					
FIG. 31 PHOTOTYPESETTER CONTROLLER AND TABLE INSTALLATION					
	XCOOO	81337	1-6-6115	..INSTL,CONT AND TABL .....	1
1	XDOZZ	96906	M24243/6-604H	..RIVET,BLIND .....	5
2	XDOZZ	81337	1-6-6120	..HINGE .....	1
3	XDOZZ	96906	MS35492-52	..SCREW,WOOD .....	5
4	XDOZZ	81337	1-6-6118	..TABLE,CONTROLLER TO .....	1
5	XDOZZ	81349	M24243/1-B404	..RIVET,BLIND .....	6
6	XDOZZ	81337	1-6-6119-2	..BRACKET,VELCRO .....	1
7	XDOZZ	81349	MIL-F-24243	..HOOK,VELCRO TYPE II,CLASS 1I .....	V
8	XDOZZ	96906	MS35492-50	..SCREW,WOOD .....	2
9	XDOZZ	81349	MIL-F-21840	..FASTENER TAPE,HOOK TYPE II,CLASS .....	V
10	XDOZZ	81337	1-6-6119-3	..BRACKET,VELCRO .....	1
11	XDOZZ	81337	1-6-6119-1	..BRACKET,VELCRO .....	1
12	XDOZZ	96906	MS21316-23	..THUMBSCREW .....	2
13	MDOOO	81337	1-6-6160	..CONTROLLER,CPU,MODI MODIFIED .....	1
FROM VARITYPER (62812) MODEL 6818					
CONTROLLER.....					
14	XDOZZ	96906	MS90725-34	..BOLT,MACHINE .....	4
15	XDOZZ	96906	MS35338-45	..WASHER,LOCK .....	4
16	XDOZZ	96906	MS15795-412	..WASHER,FLAT .....	4
17	XDOZZ	81337	1-6-6116	..PLATE,MOUNTING .....	1
18	XDOZZ	96906	MS90726-60	..SCREW,CAP,HEXAGON H .....	4
19	XDOZZ	96906	MS35338-46	..WASHER,LOCK .....	4
20	XDOZZ	96906	MS15795-412	..WASHER,FLAT .....	4
21	XDOZZ	81337	1-6-6117	..BRACKET,SHOCK .....	1
22	XDOZZ	96906	MS35207-265	..SCREW,MACHINE .....	16
23	XDOZZ	96906	MS35338-43	..WASHER,LOCK .....	16
24	XDOZZ	96906	MS15795-408	..WASHER,FLAT .....	16
25	XDOZZ	81337	1-6-6115-8	..MOUNT,SHOCK .....	4
26	XDOZZ	96906	MS27130-A27	..NUT,BLIND,RIVET .....	16
27	XDOZZ	96906	MS90725-5	..SCREW,CAP,HEXAGON H .....	4
28	XDOZZ	96906	MS35338-44	..WASHER,LOCK .....	4
29	XDOZZ	96906	MS15795-410	..WASHER,FLAT,.25 .....	4
30	XDOZZ	81337	6X129-13-40-XKN	..CASTER,PIANO .....	2

END OF FIGURE

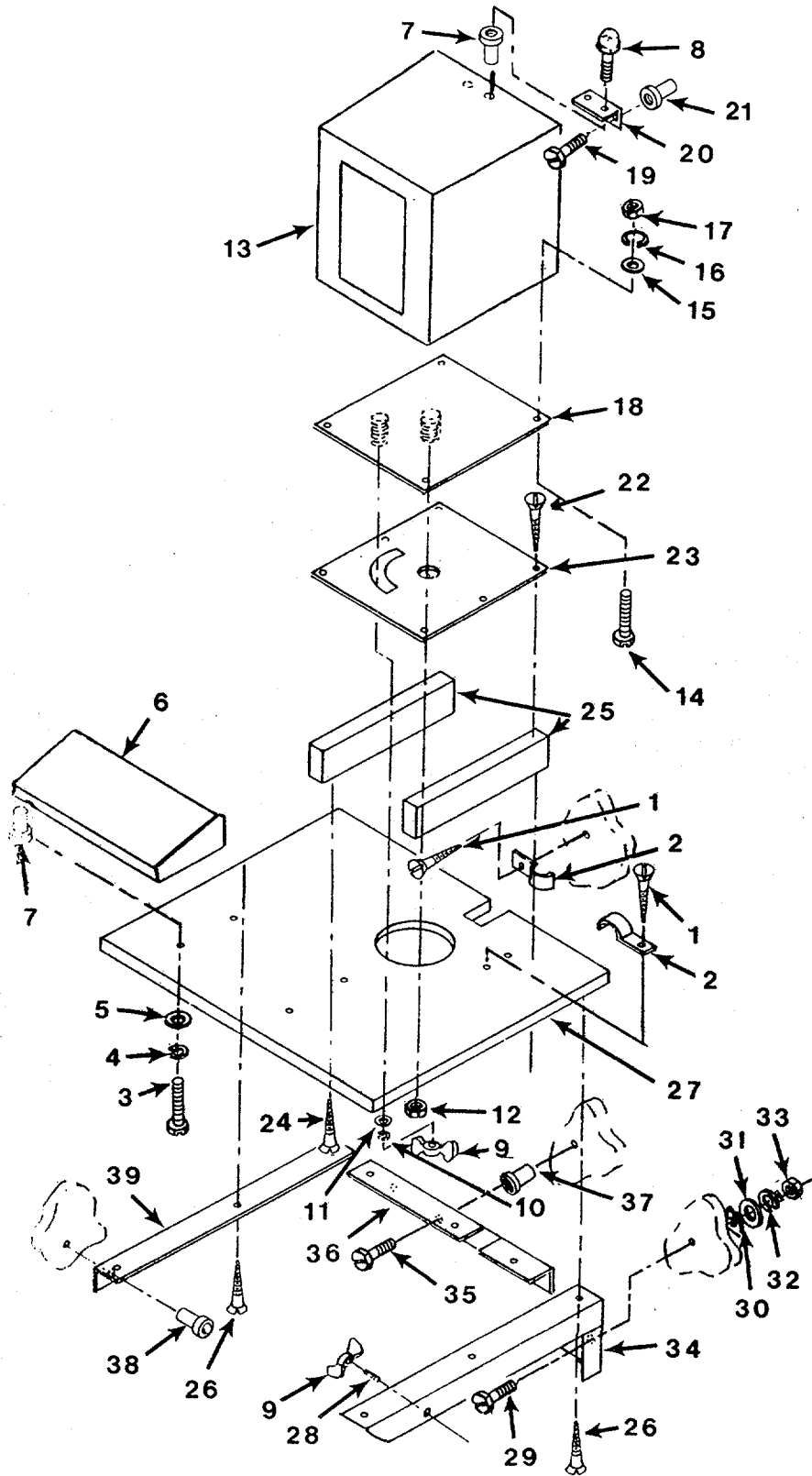


Figure 32. Phototypesetter Monitor and Keyboard Installation

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 19 PHOTOTYPESETTER ASSEMBLY					
FIG. 32 PHOTOTYPESETTER MONITOR AND KEYBOARD INSTALLATION					
	XCOOO	81337	1-6-6093	INSTL,MON & KYBD .....	1
1	XDOZZ	96906	MS51861-27	SCREW,TAPPING #6 X .75 .....	3
2	XDOZZ	96906	MS25281-R6	CLAMP,LOOP .....	3
3	XDOZZ	96906	MS35206-251	SCREW,MACHINE .....	4
4	XDOZZ	96906	MS35335-31	WASHER,LOCK .....	4
5	XDOZZ	96906	MS27183-6	WASHER,FLAT .....	4
6	MDOOO	81337	1-6-6158	KEYBOARD,MODIFIED MODIFIED FROM..... VARITYPER (62812) P/N: 20-7980-0	1
				KEYBOARD ASSY .....	
7	XDOZZ	6906	MS27130-A20	NUT,BLIND,RIVET #10-24 .....	6
8	XDOZZ	96906	MS21316-23	THUMBSCREW .....	2
9	XDOZZ	96906	MS35425-75	NUT,PLAIN,WING .....	2
10	XDOZZ	96906	MS35338-46	WASHER,LOCK .....	2
11	XDOZZ	96906	MS27183-14	WASHER,FLAT .....	2
12	XDOZZ	96906	MS35649-2382	NUT,PLAIN,HEXAGON .....	1
13	MDOOO	81337	1-6-6157	MONITOR,MODIFIED MODIFIED FROM..... VARITYPER (62812) P/N: 20-7456-0	1
				MONITOR ASSY .....	
14	XDOZZ	96906	M535191-273	SCREW,MACHINE .....	4
15	XDOZZ	96906	MS15795-408	WASHER,FLAT .....	4
16	XDOZZ	96906	MS35338-43	WASHER,LOCK .....	4
17	XDOZZ	96906	MS35650-302	NUT,PLAIN,HEXAGON .....	4
18	XDOZZ	81337	1-6-6099	PLATE.MOUNTING .....	1
19	XDOZZ	96906	MS35190-271	SCREW,MACHINE *10-24 X .438 .....	2
20	XDOZZ	81337	1-6-6100	BRACKET,MONITOR .....	1
21	XDOZZ	96906	MS27130-A14	NUT,PLAIN,BLIND RIV *8-32 .....	2
22	XDOZZ	96906	MS35492-274	SCREW,WOOD .....	6
23	XDOZZ	81337	1-6-6098	SHELF,BASE .....	1
24	XDOZZ	96906	MS35492-276	SCREW,WOOD .....	6
25	XDOZZ	81348	MM-L-736 TYPE 1, S25	SPACER.....	2
26	XDOZZ	96906	MS35492-253	SCREW,WOOD .....	9
27	XDOZZ	81337	1-6-6097	SHELF,MONITOR TOP .....	1
28	XDOZZ	96906	MS16187-31	STUD,CONT.,375-16X2 .....	1
29	XDOZZ	96906	MS90725-18	SCREW,CAP,HEXAGON H .....	2
30	XDOZZ	81337	6-1-7547-6	PLATE,WASHER,EXT .....	2
31	XDOZZ	96906	MS15795-410	WASHER,FLAT,.25 .....	2
32	XDOZZ	96906	MS35338-44	WASHER,LOCK .....	2
33	XDOZZ	96906	MS35649-2252	NUT,PLAIN,HEXAGON .....	2
34	XDOZZ	81337	1-6-6096	BRACKET,SUPPORT RIG .....	1
35	XDOZZ	96906	MS35207-265	SCREW,MACHINE .....	3
36	XDOZZ	81337	1-6-6095	BRACKET,SUPPORT REA .....	1
37	XDOZZ	96906	MS27130-A27	NUT,BLIND,RIVET .....	3
38	XDOZZ	81349	M24243/6-606H	RIVET,BLIND .....	3
39	XDOZZ	81337	1-6-6094	BRACKET,SUPPORT LEF .....	1

END OF FIGURE

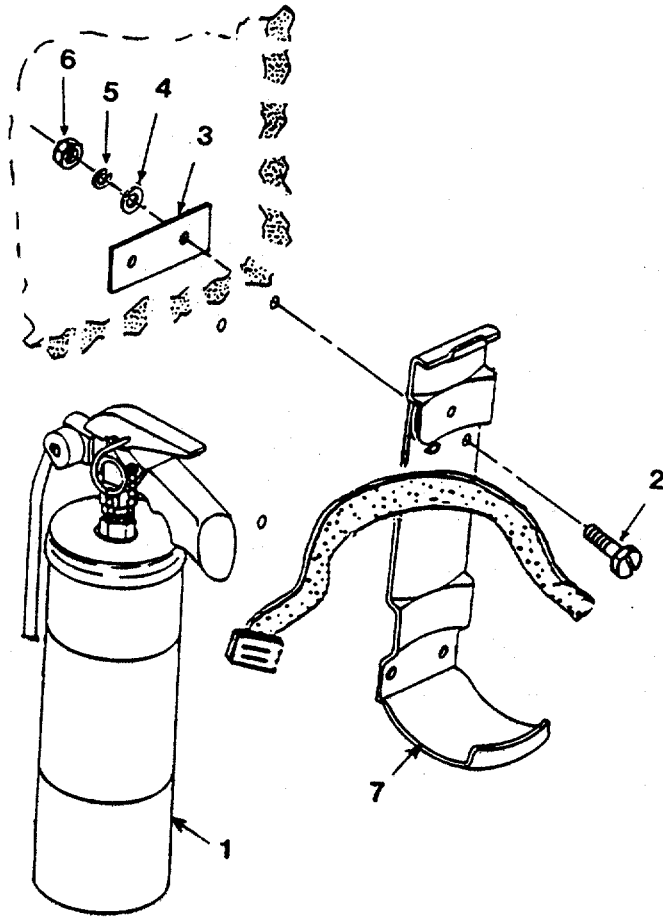


Figure 33 Fire Extinguisher Installation

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 20 MISCELLANEOUS COMPONENTS ASSEMBLY	
				FIG. 33 FIRE EXTINGUISHER INSTALLATION	
1	PAOZZ	58536	A-A-393	EXTINGUISHER,FIRE,D .....	1
2	XDOZZ	96906	MS90725-17	SCREW,CAP HEX HD .....	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 .....	4
7	XDOZZ	93510	OMB5	BRACKET,FIRE EXT.....	1

END OF FIGURE



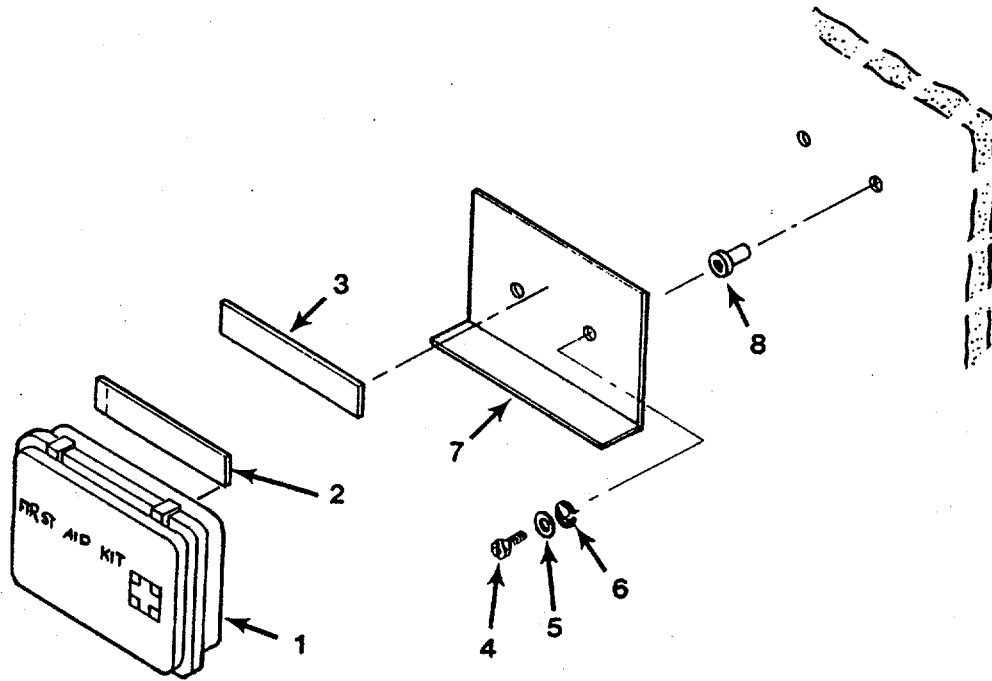


Figure 34. First Aid Installation

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 20 MISCELLANEOUS COMPONENTS ASSEMBLY					
FIG. 34 FIRST AID KIT INSTALLATION					
1	PAOZZ	19207	11677011	..FIRST AID KIT,GENER .....	1
2	XDOZZ	81349	MIL-F-21840CL I I,TY I	..FASTENER,PILE 2.0X7.55 .....	1
3	XDOZZ	81349	MIL-F-21840 CL I ,TYII	..FASTENER,HOOK 2.0X7.55 .....	1
4	XDOZZ	96906	MS35191-274	..SCREW ,MACHINE#10-32X75.....	2
5	XDOZZ	96906	MS35338-43	..WASHER,LOCK.....	2
6	XDOZZ	96906	MS15795-442	..INASHER,FLAT#10 .....	2
7	XDOZZ	81337	5-13-4777	..BRACKET,MOUNTING,FI .....	1
8	XDOZZ	96906	MS20600-B6W3	..RIVET,BLIND .....	6

END OF FIGURE

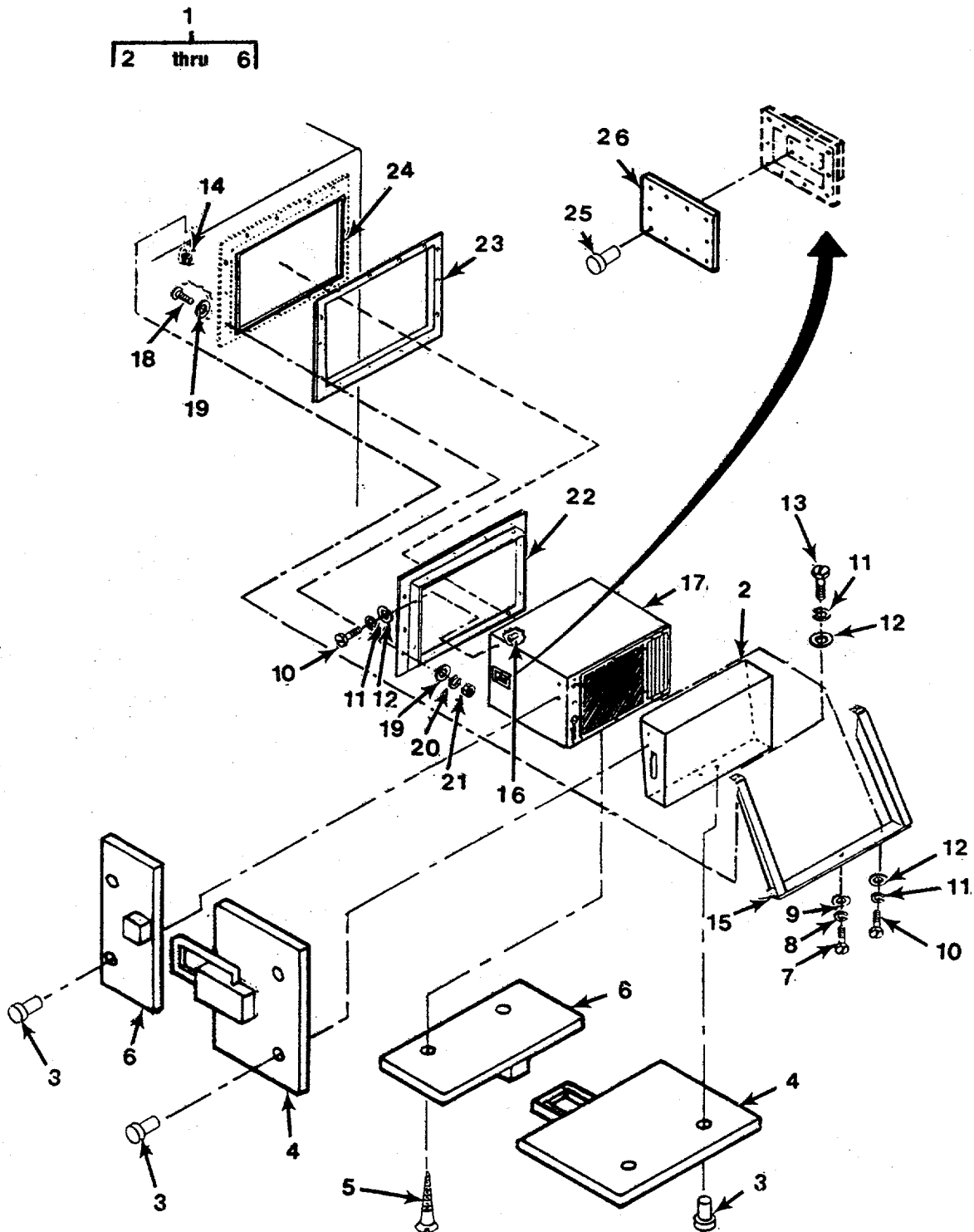


Figure 35. Air conditioner Installation

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 21 AIR CONDITIONER ASSEMBLY					
FIG. 35 AIR CONDITIONER INSTALLATION					
	XCOOO	81337	6-1-7540	..INSTL,A/C & MTG .....	1
1	XDOZZ	81337	6-1-7541	..COVER,CONDENSER,A/C .....	2
2	XDOZZ	81337	6-1-7541-1	...COVER,A/C .....	2
3	XDOZZ	96906	MS16535-116	...RIVET,TUBE .....	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,HEX,HD 3/8 X IN .....	4
8	XDOZZ	96906	MS35335-63	..WASHER,LOCK .....	4
9	XDOZZ	96906	MS27183-13	..WASHER,FLAT 3/8 .....	4
10	XDOZZ	96906	MS90785-13	..BOLT,MACHINE 15/16-24 X 1 .....	16
11	XDOZZ	96906	MS35335-62	..WASHER,LOCK .....	16
12	XDOZZ	96906	MS27183-11	..WASHER,FLAT .....	16
13	XDOZZ	96906	MS35307-337	..SCREW,CAP,HEX HD 5/16-18 X 1-3/8.....	4
14	XDOZZ	96906	MS27130-A45	..NUT,BLIND,RIVET 15/16-18UNC-3B.....	4
15	XDOZZ	81337	6-1-7540-5	..FRAME,SUPPORT .....	2
16	XDOZZ	96906	MS27130-50	..NUT,BLIND,RIVET .....	16
17	MDOFF	81337	1-6-6162	..AIR CONDITIONER,MOD MIDIFIED..... FROM NSN 4120-01-136-2214 (57107)..... MODEL A9KH-115P .....	2
18	XDOZZ	96906	MS35307-319	..SCREW,MACHINE 1/4-20 X 3-1/4 .....	28
19	XDOZZ	96906	MS27183-9	..WASHER,FLAT .....	56
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

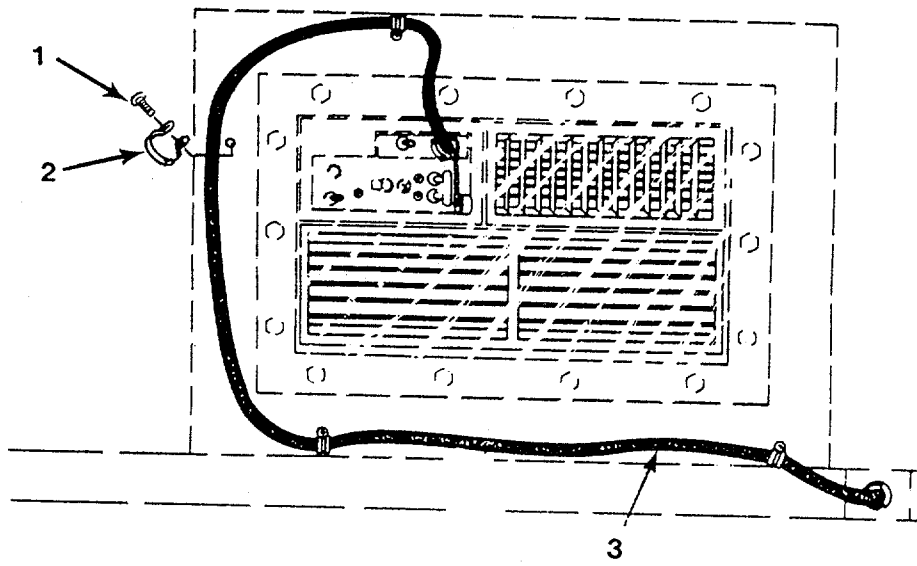


Figure 36. Air Conditioner Cable Installation

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR	CAGEC	PART		
NO	CODE		NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 21 AIR CONDITIONER ASSEMBLY

FIG. 36 AIR CONDITIONER CABLE  
INSTALLATION

	XCOOO	81337	6-1-7544	.CABLE INSTL,A/C .....	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,A/C,7FT .....	2

END OF FIGURE

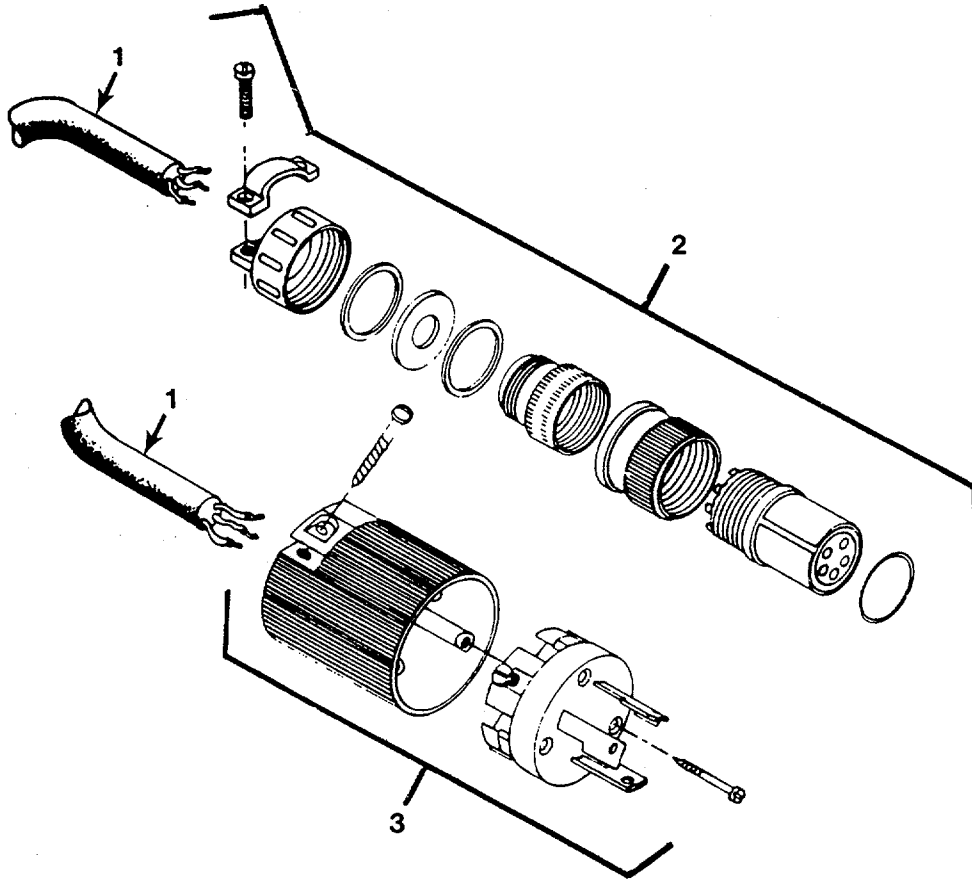


Figure 37.. Air Conditioner Cable Assembly

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 21 AIR CONDITIONER ASSEMBLY					
FIG. 37 AIR CONDITIONER CABLE ASSEMBLY					
1	XDOZZ	81348	J-C-580ST6CK3/12 TTJ	...CABLE,POWER,TYPE504 .....3 CONDUCTOR, 12 GA, 7 FT LG .....	1
2	XDOZZ	96906	MS3456W18-11S	...CONNECTOR,PLUG,ELEC ORDER WITH..... BACKSHELL NSN 5935-01-177-9556 (96906) M85049/52-1-18W .....	1
3	XDOZZ	74545	3331C	...PLUG,REG,INSUL GRIP .....	1

END OF FIGURE





## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
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GROUP 21 AIR CONDITIONER ASSEMBLY

FIG. 38 AIR CONDITIONER DUCT  
INSTALLATION

	XCDDD	81337	6-1-7507	.INSTL,AIRCON DUCT .....	1
1	XDDZZ	81337	6-1-7507-14	..DIFFUSER,AIR SUPPLY .....	1
2	XDDZZ	96906	MS20600-AD4WI	..RIVET,BLIND .....	80
3	XDDZZ	81337	6-1-7507-15	..CLIP,MOUNTING .....	20
4	XDDZZ	81337	6-1-7507-19	..DUCT END PANEL .....	1
5	XDDZZ	81337	6-1-7507-12	..DUCT,AIR,EDITORIAL .....	1
6	XDDZZ	81337	6-1-7507-18	..DUCT,JOINT,S TYPE .....	1
7	XDDZZ	81337	6-1-7507-13	..DUCT,AIR,DARKROOM .....	1
8	XDDZZ	81337	6-1-7507-17	..STRAP SUPPORT .....	1
9	XDDZZ	81337	6-1-7507-1	..DUCT,AIR,TRANSITION .....	1

END OF FIGURE

Change 2 F-85

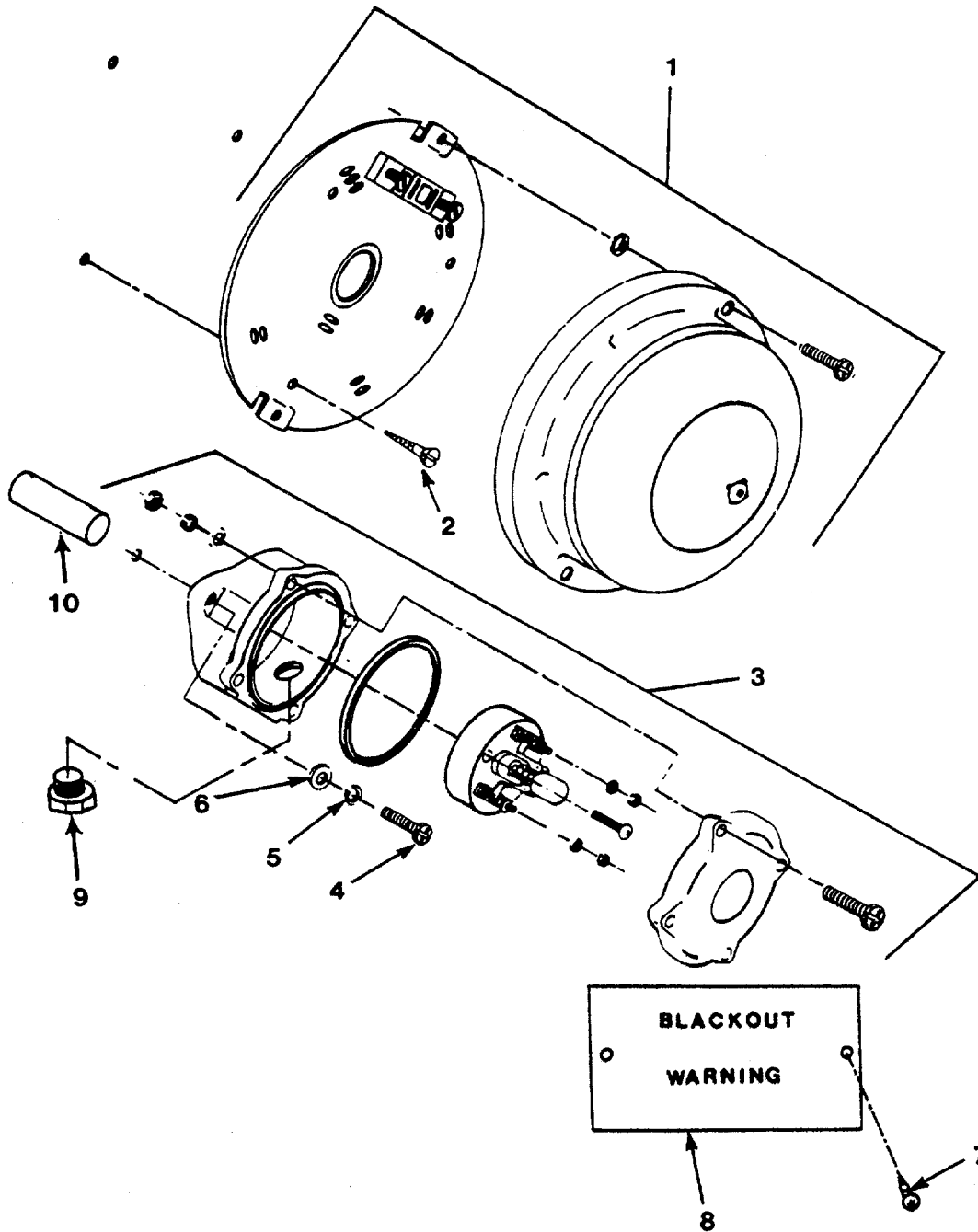


Figure 39. Blackout Warning Assembly

Change 2 F-86

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 22 BLACKOUT WARNING ASSEMBLY					
FIG. 39 BLACKOUT WARNING ASSEMBLY					
1	PBOZZ	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	27183-10	.WASHER,FLAT .....	2
7	XDOZZ	96906	MS51861-240	.SCREW,TAP,NO6X3/8IN .....	2
8	XDOZZ	81337	6-1-7532-6	PLATE,ID .....	1
9	XDOZZ	81337	6-1-7532-19	.PLUG,PIPE 1/2NPT .....	1
10	XDOZZ	81337	6-1-7532-8	.SLEEVE,TUBING .....	1

END OF FIGURE

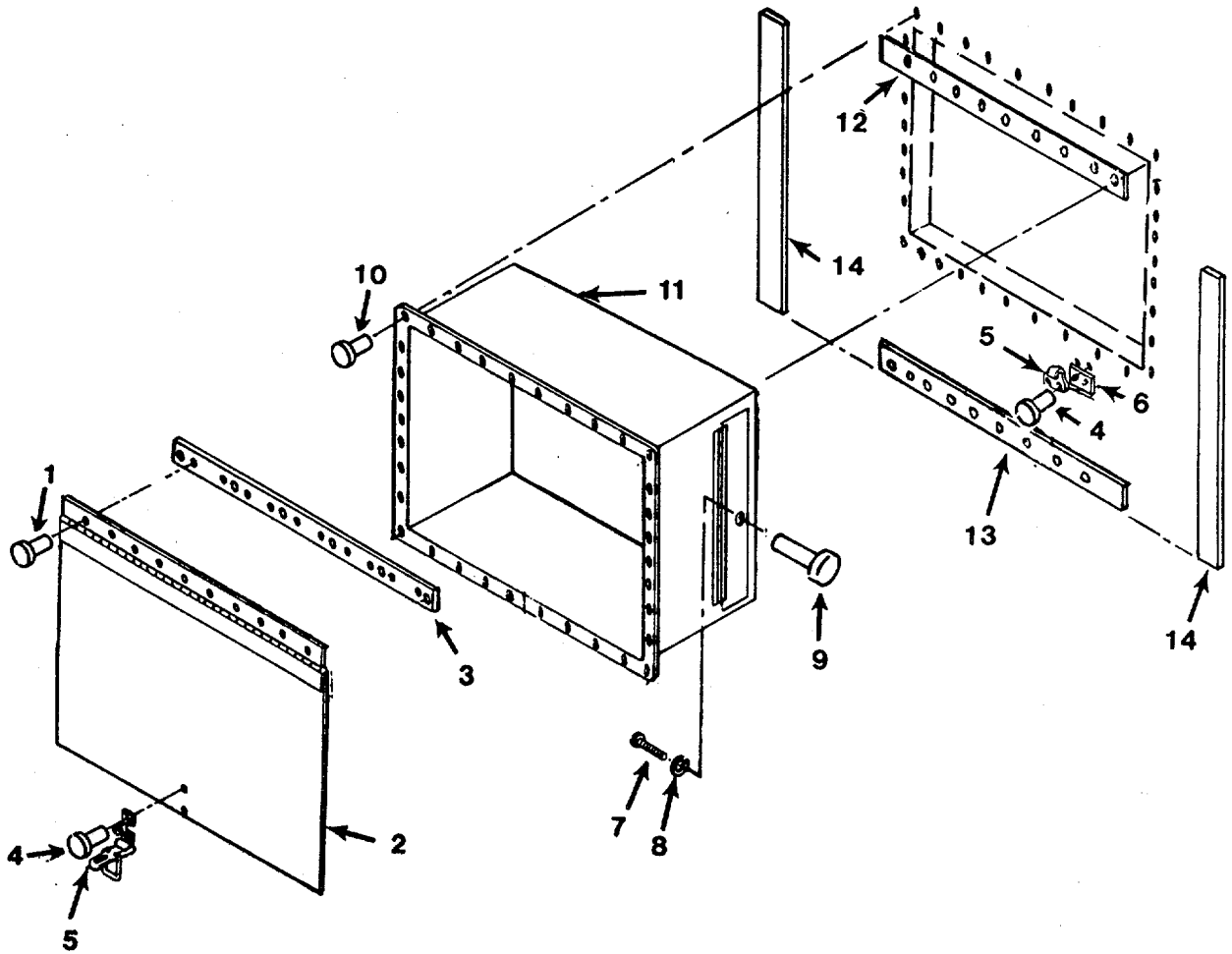


Figure 40. Drop Off Box Assembly

Change 2 F-88

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 23 EXTERNAL COMPONENTS ASSEMBLY					
FIG. 40 DROP OFF BOX ASSEMBLY					
	XDOOO	81337	6-1-7508	..ASSY,DROP OFF BOX .....	1
1	XDOZZ	81349	MIL-R-24243	..RIVET,BLIND /6-A608H .....	14
2	XDOZZ	81337	6-1-7508-2	..DOOR,OUTSIDE .....	1
3	XDOZZ	81337	6-1-7508-3	..SPACER .....	1
4	XDOZZ	81349	MIL-R-24243	..RIVET,BLIND /6-A602H .....	4
5	XDOZZ	14608	156425	..LATCH,DRAW PULL .....	1
6	XDOZZ	81337	6-1-7508-18	..SPACER .....	1
7	XDOZZ	96906	MS35207-262	..SCREW,MACHINE .....	1
8	XDOZZ	96906	MS35338-32	..WASHER,LOCK .....	1
9	XDOZZ	14608	1570	..KNOB,DOOR .....	1
10	XDOZZ	81349	MIL-R-24243	..RIVET,BLIND /6-A606H .....	34
11	XDOZZ	81337	6-1-7508-1	..BOX .....	1
12	XDOZZ	81337	6-1-7508-16	..SPACER .....	1
13	XDOZZ	81337	6-1-7508-17	..SPACER .....	1
14	XDOZZ	81337	6-1-7508-14	..PAD .....	1

END OF FIGURE

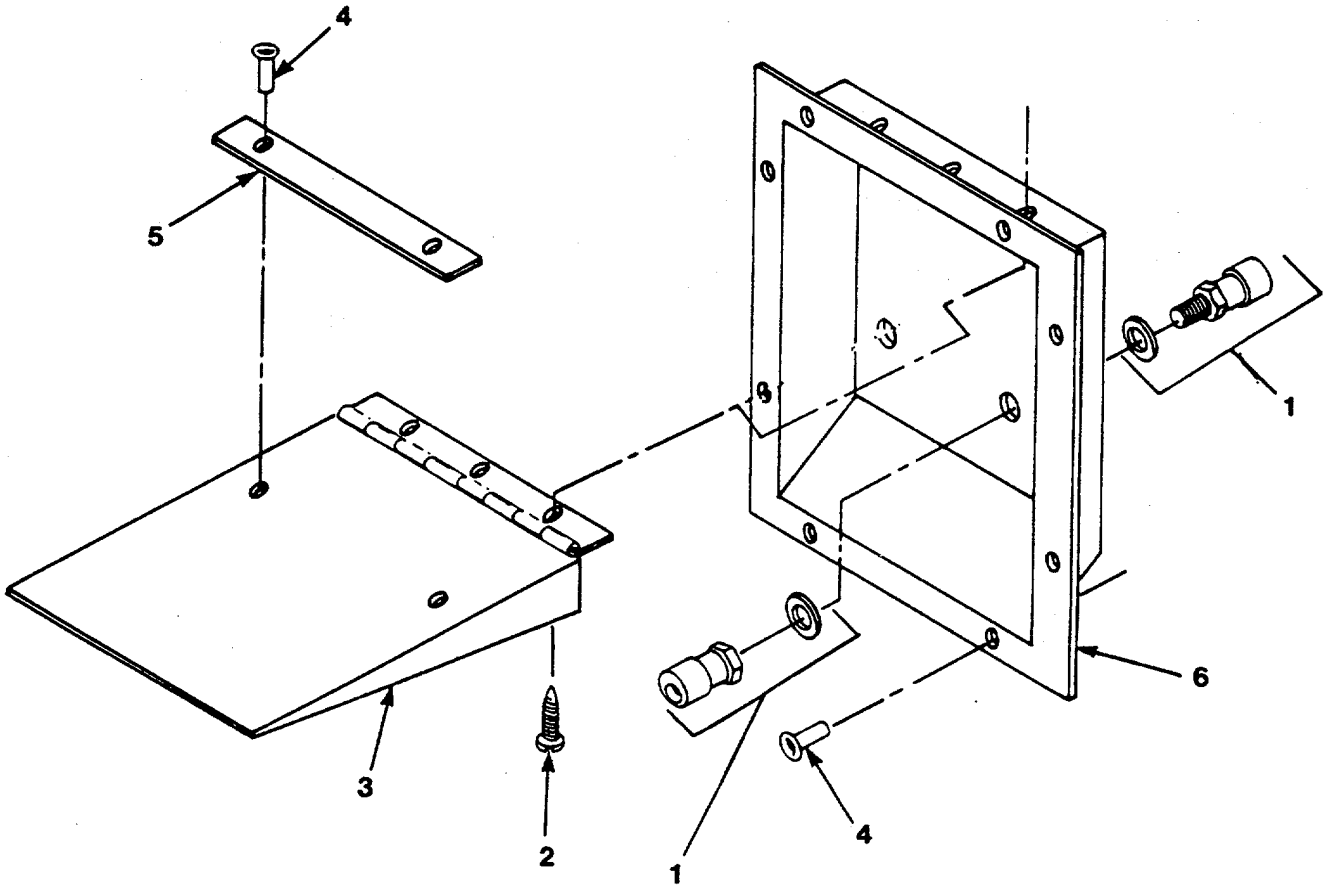


Figure 41. Telephone Binding Post Installation

Change 2 F-90

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 23 EXTERNAL COMPONENTS ASSEMBLY					
FIG. 41 TELEPHONE BINDING POST INSTALLATION					
1	PAOZZ	81349	PB08NAO1	..POST,BINDINCI[,ELECIR .....	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,BLIID .....	8
5	XDOZZ	81337	6-1-7532-7	..PLATE,ID,TELEPHONE .....	1
6	XDOZZ	81337	6-1-7532-3	..FRAME RECEPTACLE .....	1

END OF FIGURE



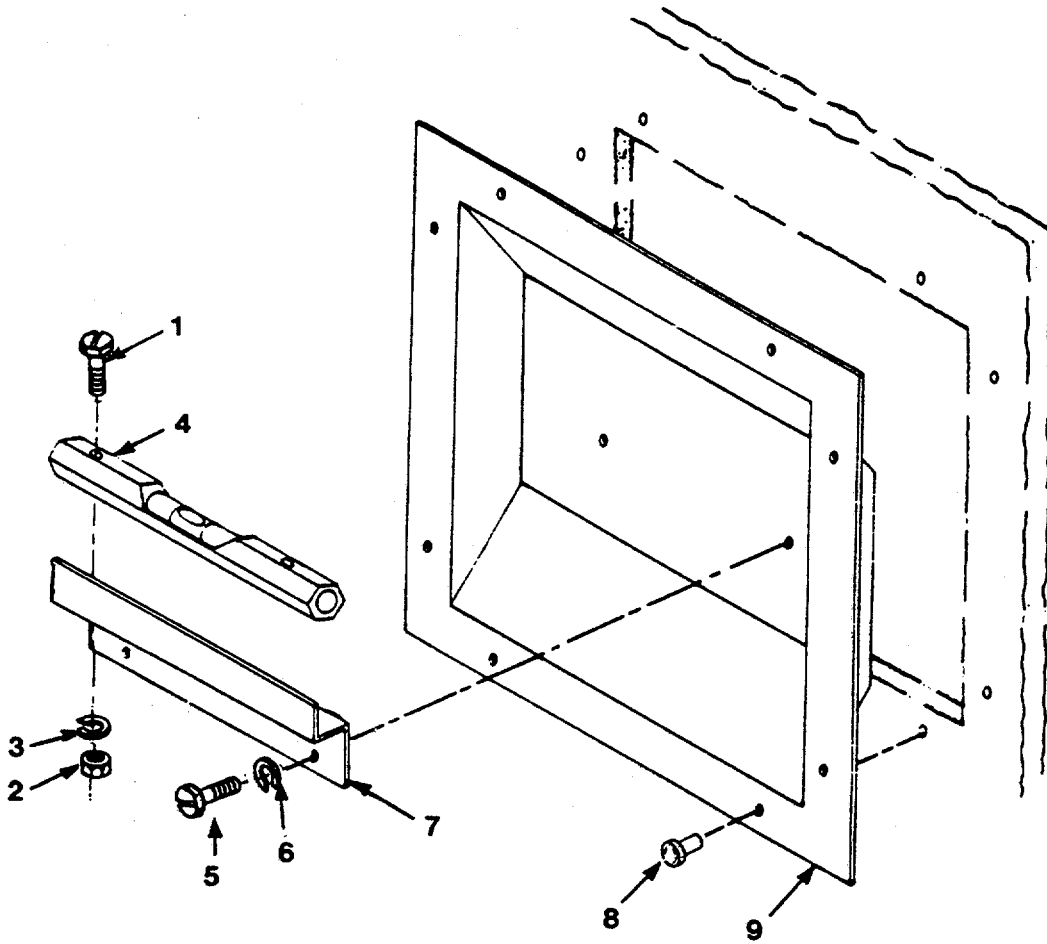


Figure 42. Level Indicator Assembly

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 23 EXTERNAL COIMPONENTS ASSEMBLY					
FIG. 42 LEVEL INDICATOR ASSEMBLY					
	XCOOO	81337	6-1-5859	..ASSY,LEVEL IND .....	2
1	XDOZZ	96906	MS35206-2t7	..SCREW,MACHINE 8-32UNC-2A X 3/4..... PLATED .....	2
2	XDOZZ	96906	M535649--28	..NUT,PLAIN,HIEXAGON .....	2
3	XDOZZ	96906	S1535338-42	..WHASER,LOCK .....	2
4	XDOZZ	85002	42-313	..LEVEL,POCKET,MOD .....	1
5	XDOZZ	96906	MS51861-24	..SCREW,TAPPING,THREA .....	2
6	XDOZZ	96906	MS35338-e41	..WASHER,LOCK .....	2
7	XDOZZ	81337	6-1-5859-2	..BRACKET,LEVEL .....	1
8	XDOZZ	96906	MS20600-6W14	..RIVET,BLIND .....	8
9	XDOZZ	81337	6-1-5859-1	..FRAME,RECEPTACLE .....	1

END OF FIGURE

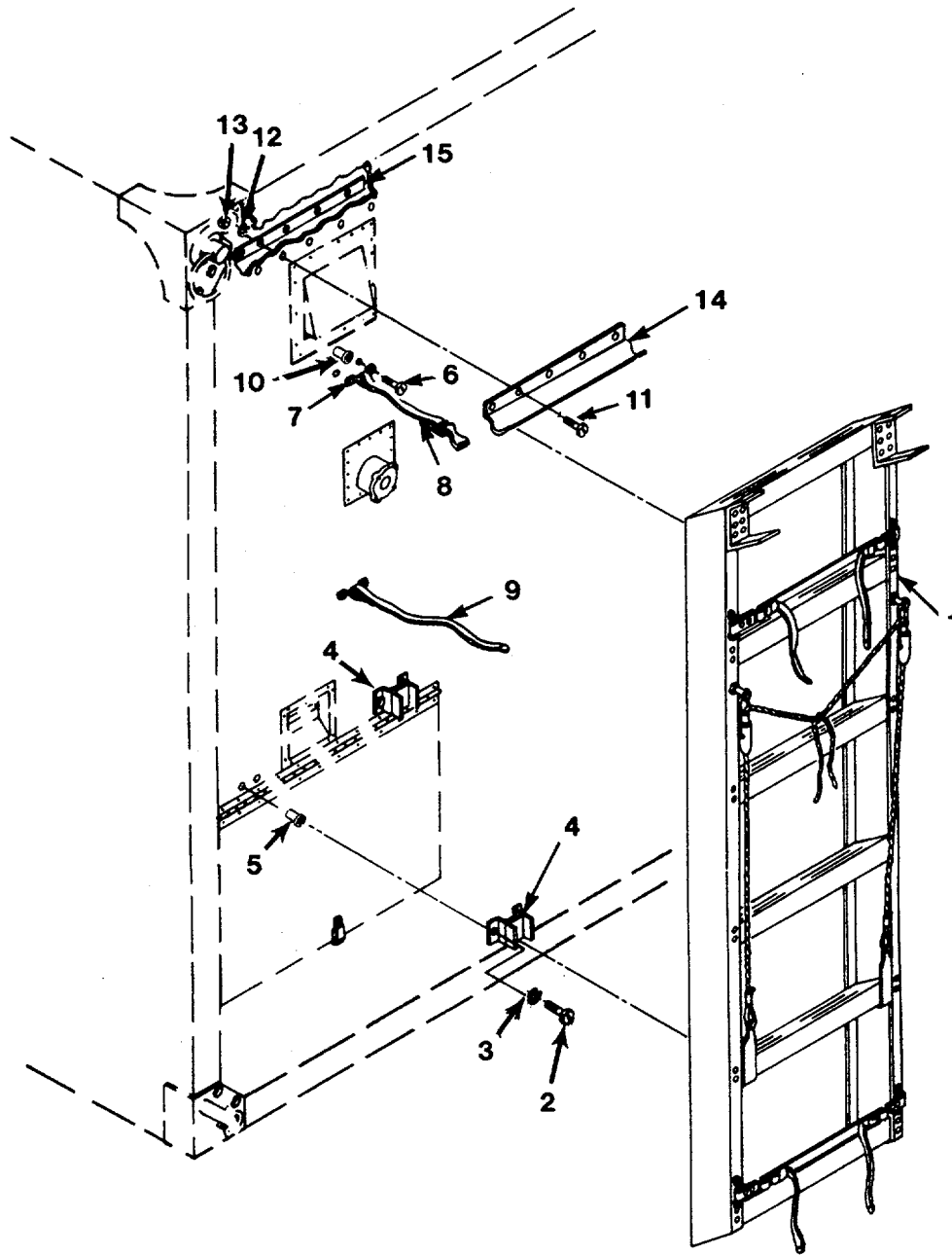


Figure 43. Ladder Installation

Change 2 F-94

## SECTION II

TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 23 EXTERNAL COMPONENTS ASSEMBLY					
FIG. 43 LADDER INSTALLATION					
1	XDOZZ	22585	MX3319G	LADDER ASSY .....	1
2	XDOZZ	96906	MS90725-11	SCREW,CAP HEX HD .....	4
3	XDOZZ	96906	MS35338-44	WASHER,LOCK .....	4
4	XDOZZ	81337	6-1-5878-3	MOUNT,LADDER .....	2
5	XDOZZ	96906	MS27130-A28	NUT,BIIND,RIVET .....	4
6	XDOZZ	96906	MS35191-272	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,SHORT .....	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 .....	5
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

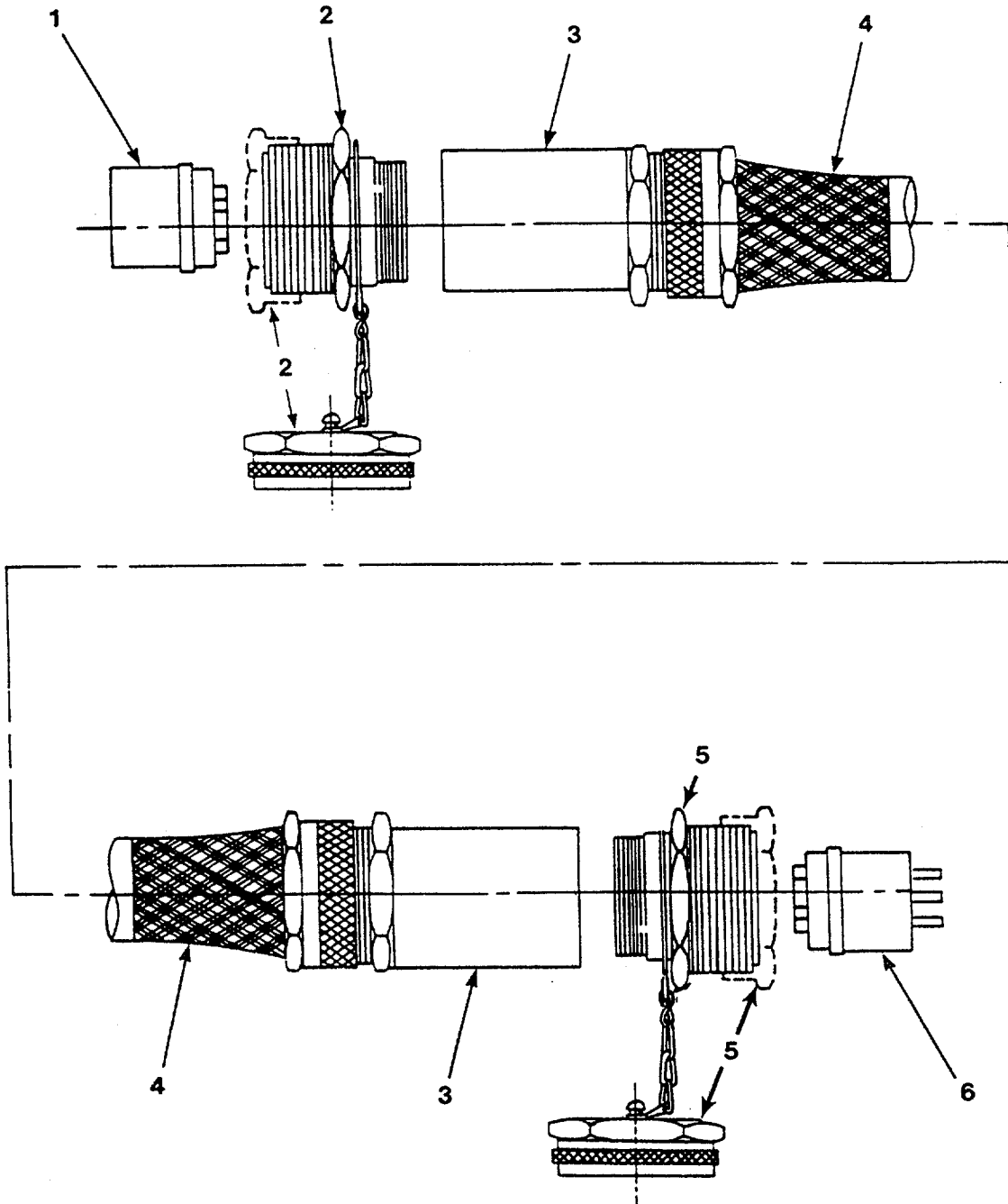


Figure 44. Male/Female Cable Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 24 MAIN POWER ASSEMBLY					
FIG. 44 MALE/FEMALE CABLE ASSEMBLY					
	PDOFF	81337	5-4-6728	CABLE ASSEMBLY, POWE ALE; 50 FT .....	2
1	XDFZZ	49367	ZZM-16-23S	.INSERT, FEMALE .....	1
2	XDFZZ	49367	ZZM-WB-1516	.BARREL, FEMALE 60AMP .....	1
3	XDFZZ	49367	ZZM-W-2016-2050	.ADAPTER, CABLE CLAMP .....	2
4	XDFZZ	81349	MIL-C-3432	.CABLE, POWER, TYPESO .....	50
5	XDFZZ	49367	ZZM-WB-1116	.BARREL, MALE .....	1
6	XDFZA	49367	ZZM-16-23P	.INSERT, ELECTRICAL C .....	1

END OF FIGURE

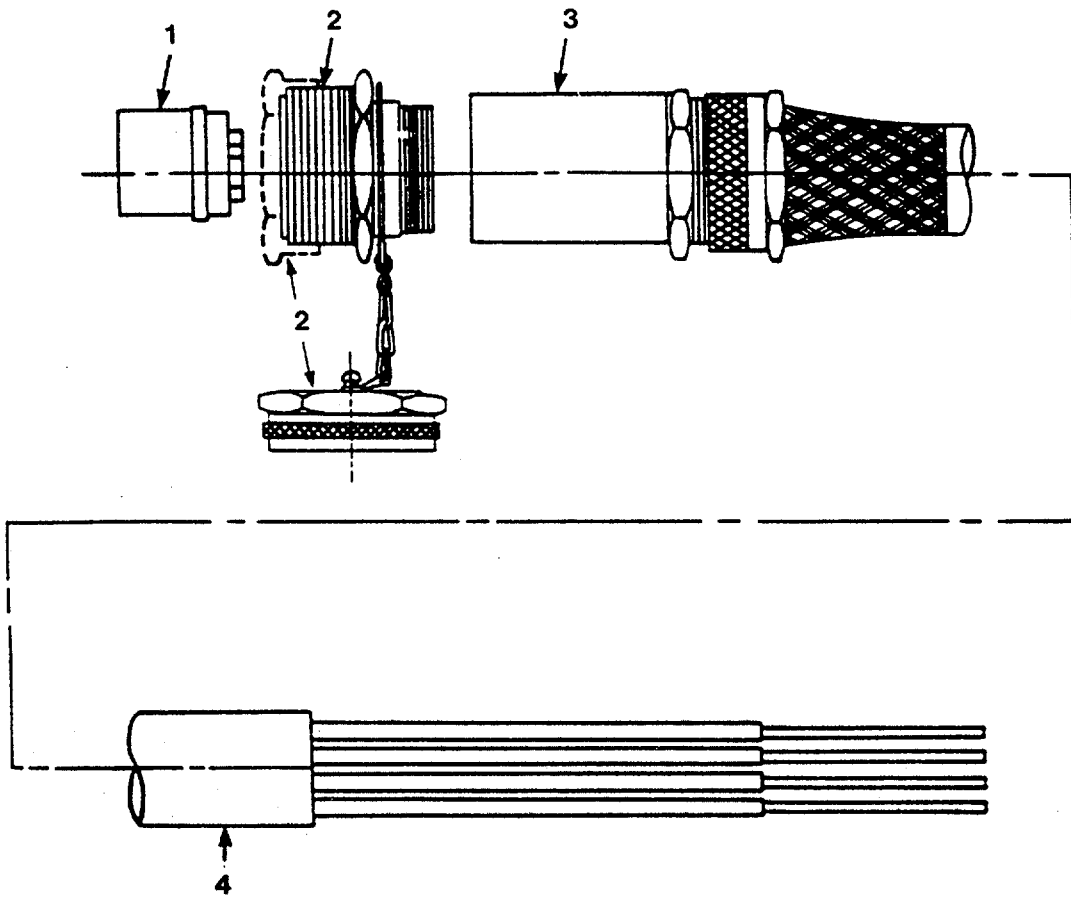


Figure 45. Female Cable Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR	CAGEC	PART	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
NO	CODE		NUMBER		

GROUP 24 MAIN POWER ASSEMBLY

FIG. 45 FEMALE CABLE ASSEMBLY

	PDOFF	81337	5-4-6727	CABLE ASSEMBLY, POWE 6 FT .....	1
1	XDFZZ	49367	ZZM-16-23S	.INSERT, FEMALE .....	1
2	XDFZZ	49367	ZZM-WB-1516	.BARREL, FEMALE 60AMP .....	1
3	XDFZZ	49367	ZZM-W-2016-2050	.ADAPTER, CABLE CLAMP .....	1
4	XDFZZ	81349	MIL-C-3432	.CABLE, POWER, TYPESO .....	6

END OF FIGURE



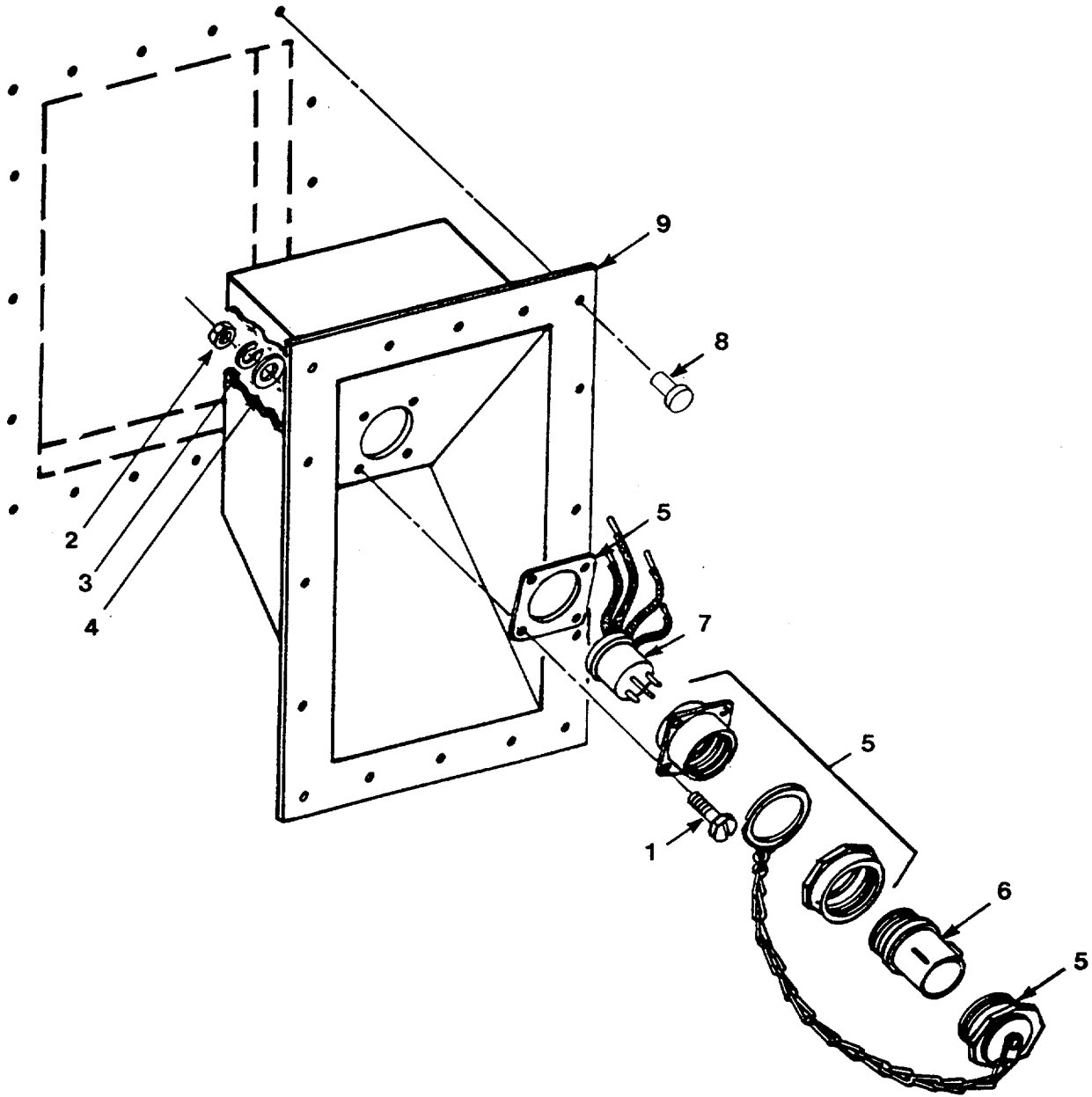


Figure 46. Main Power Receptacle Assembly (Sheet 1 of 2)

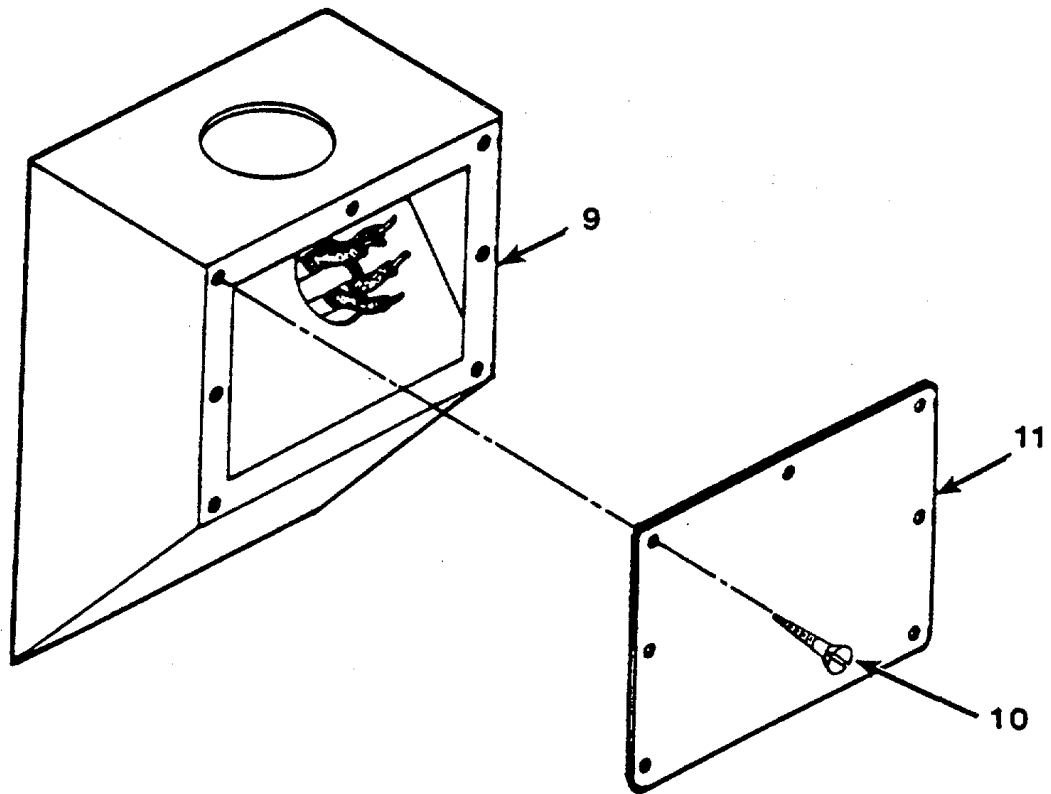


Figure 46. Main Power Receptacle Assembly (Sheet 2 of 2)

**SECTION II TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 24 MAIN POWER ASSEMBLY	
				FIG. 46 MAIN POWER RECEPTACLE ASSEMBLY	
1	XDFZZ	96906	MS35214-59	..SCREW, MACHINE .....	4
2	XDFZZ	96906	MS35649-202	..NUT, PLAIN, HEXAGON .....	4
3	XDFZZ	96906	MS35338-100	..WASHER, LOCK .....	4
4	XDFZZ	96906	MS15795-907	..WASHER, FLAT .....	4
5	XDFZZ	49369	ZZM-W-2116	..ADAPTER, MALE 60AMP .....	1
6	XDFZZ	49369	ZZM-WB-1016	..BARREL, MALE 60AMP .....	1
7	XDFZZ	49369	ZZM-16-23P	..INSERT, MALE .....	1
8	XDFZZ	96906	MS20600-B6W4	..RIVET, BLIND .....	16
9	XDFZZ	81337	6-1-7502-1	..RECEPTACLE BOX .....	1
10	XDFZZ	96906	MS51861-24	..SCREW, TAPPING, THREA .....	7
11	XDFZZ	81337	6-1-7502-2	..COVER, RECEPTACLE .....	1

END OF FIGURE

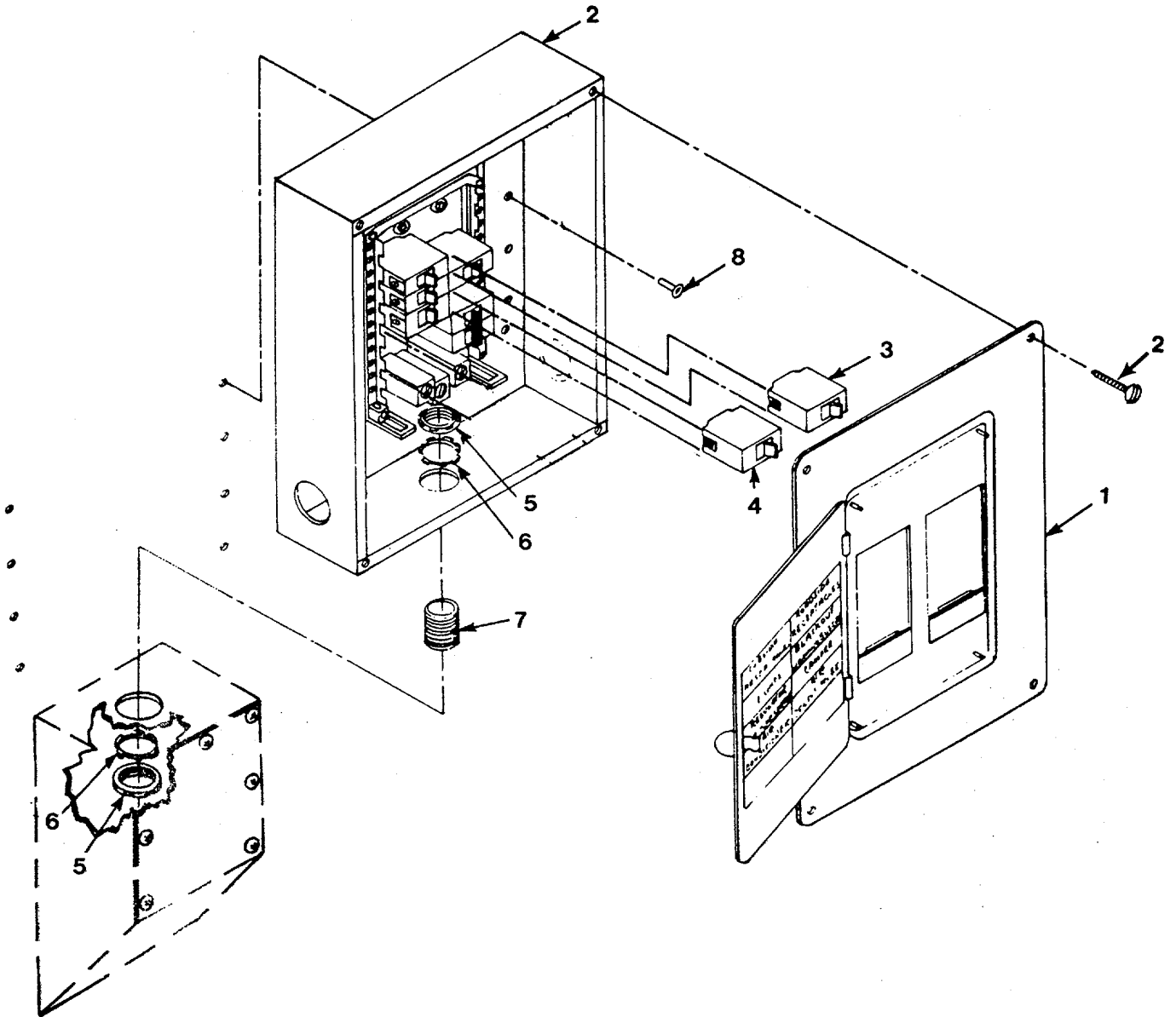


Figure 47. Main Power Service Box Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 24 MAIN POWER ASSEMBLY	
				FIG. 47 MAIN POWER SERVICE BOX ASSEMBLY	
1	XDOZZ	30086	SU-150	..SURFACE TRIM W/DOOR .....	1
2	XDFFF	30086	ITE-B150	..BOX, CIRCUIT BREAKER .....	1
3	PAOZZ	30086	Q115	...CIRCUIT BREAKER 1 POLE, 15 AMP .....	5
4	PAOZZ	30086	Q120	...CIRCUIT BREAKER 1 POLE, 20 AMP .....	1
5	XDFZZ	03350	SP-145	..LOCKNUT, 1.50NPT .....	2
6	XDFZZ	03350	PES-6	..BUSHING, INSUL 1.50 NPT .....	2
7	XDFZZ	83879	7-150T	..NIPPLE, CLOSE, 1.50 NPT X 1.75 LONG .....	1
8	XDFZZ	94222	38-104-05-13	..RIVET, BUTTON HD .....	8

END OF FIGURE

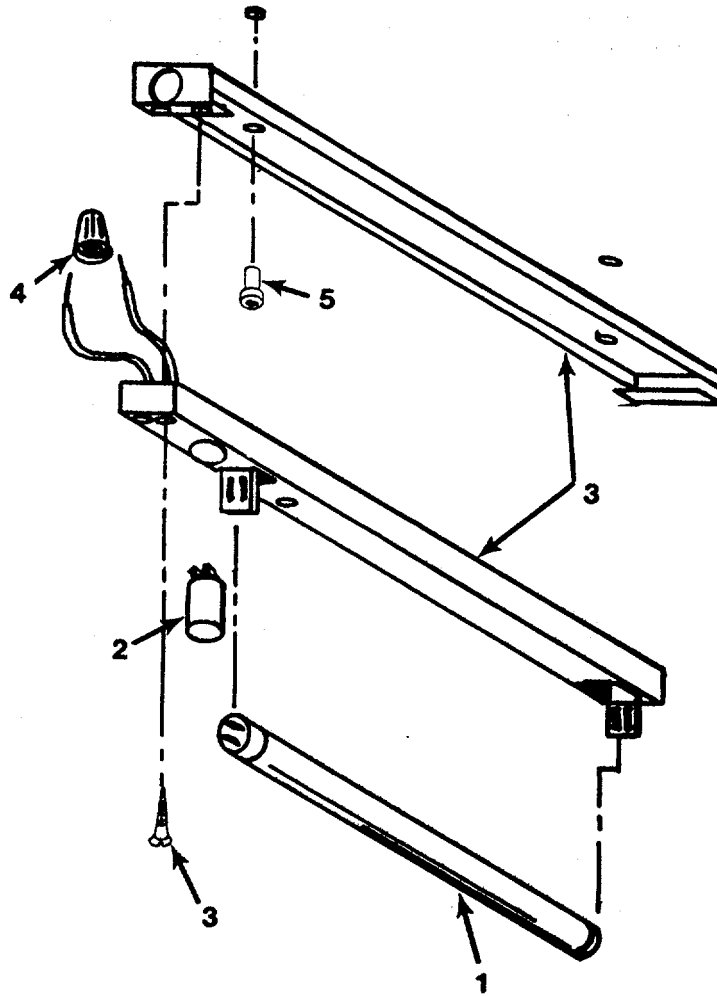


Figure 48. Ceiling Lamp Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 25 ELECTRICAL SYSTEM ASSEMBLY					
FIG. 48      CEILING LAMP ASSEMBLY					
1	PAOZZ	08108	F15T8/CW	..LAMP, FLUORESCENT .....	6
2	PAOZZ	04655	FS2	..STARTER, FLUORESCENT .....	6
3	XDOOO	11855	20A-10	..FIXTURE, LIGHTING 15 WATT .....	6
4	PAOZZ	30119	78B	..SPLICE, CONDUCTOR .....	6
5	XDOZZ	96906	MS20600-B6W5	..RIVET, BLIND 3/16 .....	12

END OF FIGURE

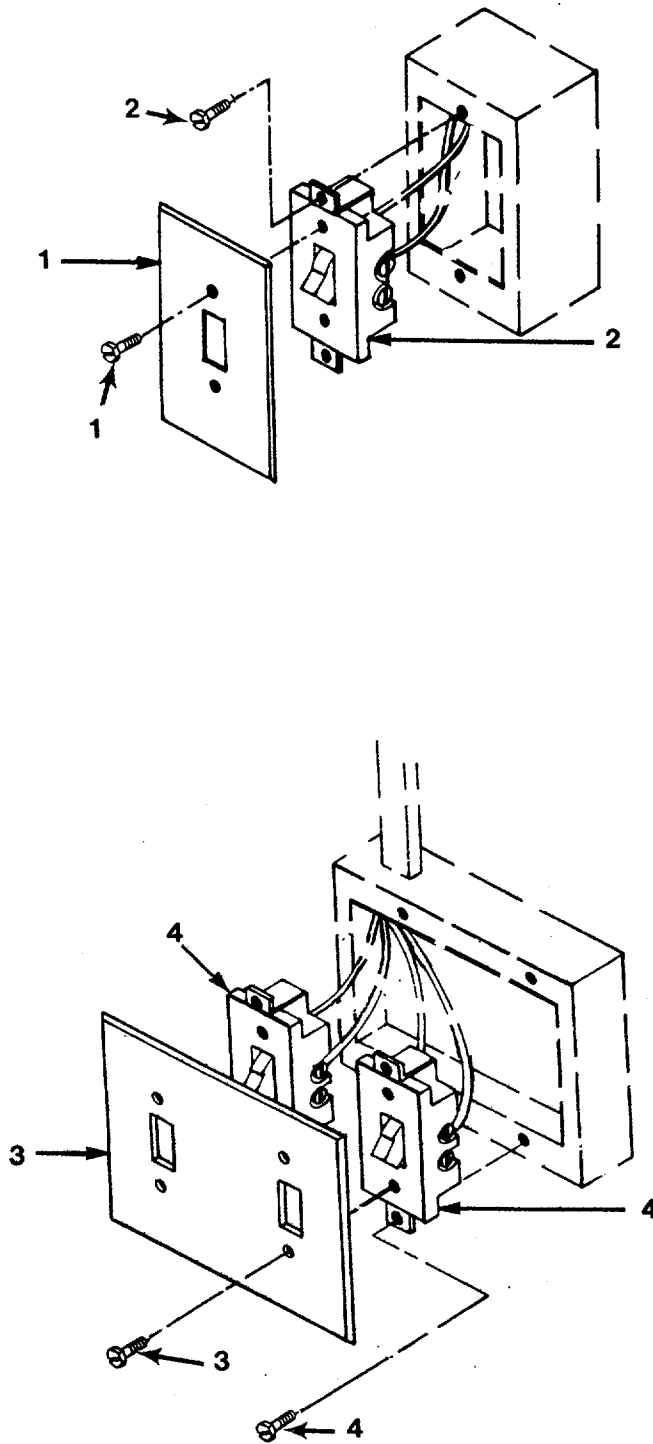


Figure 49. Wall Lamp Switch Assembly



**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 25 ELECTRICAL SYSTEM ASSEMBLY	
				FIG. 49 WALL LAMP SWITCH ASSEMBLY	
1	XDOZZ	79725	G-3040CE	..COVER, PLATE SWITCH 1 GANG .....	1
2	PAOZZ	74545	1221PL	..SWITCH, TOGGLE .....	1
3	XDOZZ	74545	97071	..PLATE, WALL, ELECTRIC 2 GAG .....	2
4	PAOZZ	81348	WS896/2-03A	..SWITCH, TOGGLE .....	4

END OF FIGURE

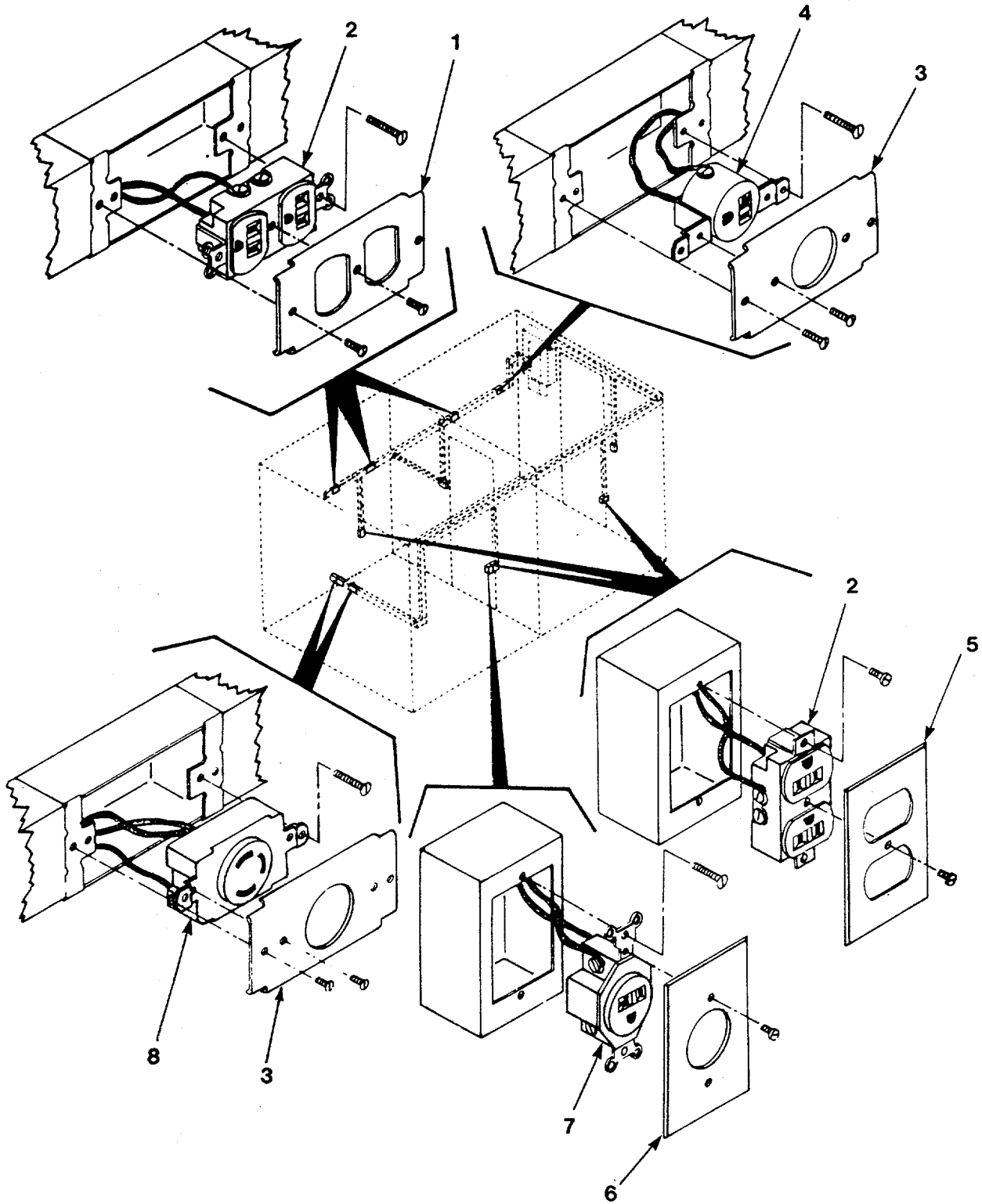


Figure 50. Equipment Receptacles Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 25 ELECTRICAL SYSTEM ASSEMBLY	
				FIG. 50 EQUIPMENT RECEPTACLES ASSEMBLY	
1	XDOZZ	79725	G3046B	..COVER, REC DUPLEX .....	4
2	XDOZZ	81348	WC596/12-4	..CONNECTOR, RECEPTACL .....	6
3	XDOZZ	03350	G3033J	..COVER, RECEPTACLE .....	3
4	XDOZZ	81348	WC596/41-2	..CONNECTOR, RECEPTACL .....	1
5	XDOZZ	74545	97101	..COVER, RECEPTACLE .....	3
6	XDOZZ	74545	91091	..COVER, RECEPTACLE SI .....	1
7	XDOZZ	74545	5861	..RECEPTACLE SPEC .....	1
8	XDOZZ	04009	5737	..RECEPTACLE, ELECTRIC .....	2

END OF FIGURE

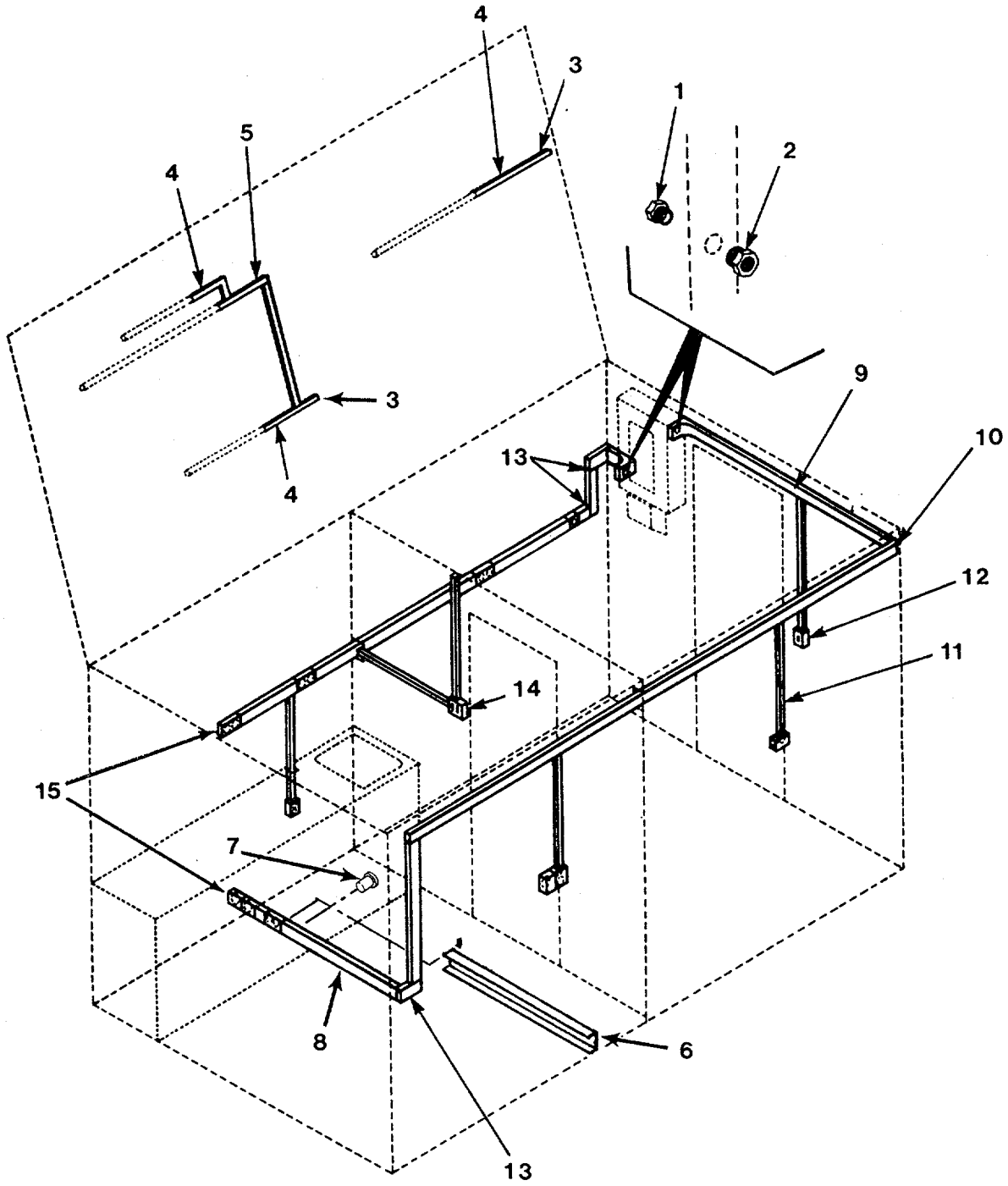


Figure 51. Rigid Conduit Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 25 ELECTRICAL SYSTEM ASSEMBLY					
FIG. 51 RIGID CONDUIT ASSEMBLY					
1	XDFZZ	79725	BB125	..BUSHING, INS, MALE, .....	2
2	XDFZZ	79725	PES-5	..BUSHING, INS, FEM .....	2
3	XDFZZ	79725	2110A	..ENTRANCE, ENDFITTING .....	6
4	XDFZZ	79725	200	..RACEWAY, 1/2IN .....	V
5	XDFZZ	79725	211	..ELBOW, FLAT, 90DEG .....	2
6	XDFZZ	79725	G3000C	..COVER, RACEWAY .....	V
7	XDFZZ	96906	MS20600-AD6W3	..RIVET, BLIND .....	100
8	XDFZZ	79725	G3000B	..CHANNEL, RACEWAY .....	V
9	XDFZZ	79725	2115	..TEE .....	2
10	XDFZZ	79725	G3017	..ELBOW, INTERNAL RACE .....	1
11	XDFZZ	79725	2100	..RACEWAY 1-1/4IN.....	V
12	XDFZZ	79725	5747-2	..JUNCTION BOX .....	5
13	XDFZZ	79725	G3011	..ELBOW, FLAT, 90DEG .....	2
14	XDFZZ	79725	G3010B	..BOX, JUNCTION .....	1
15	XDFZZ	79725	G3086	..CONNECTOR, RACEWAY .....	2

END OF FIGURE

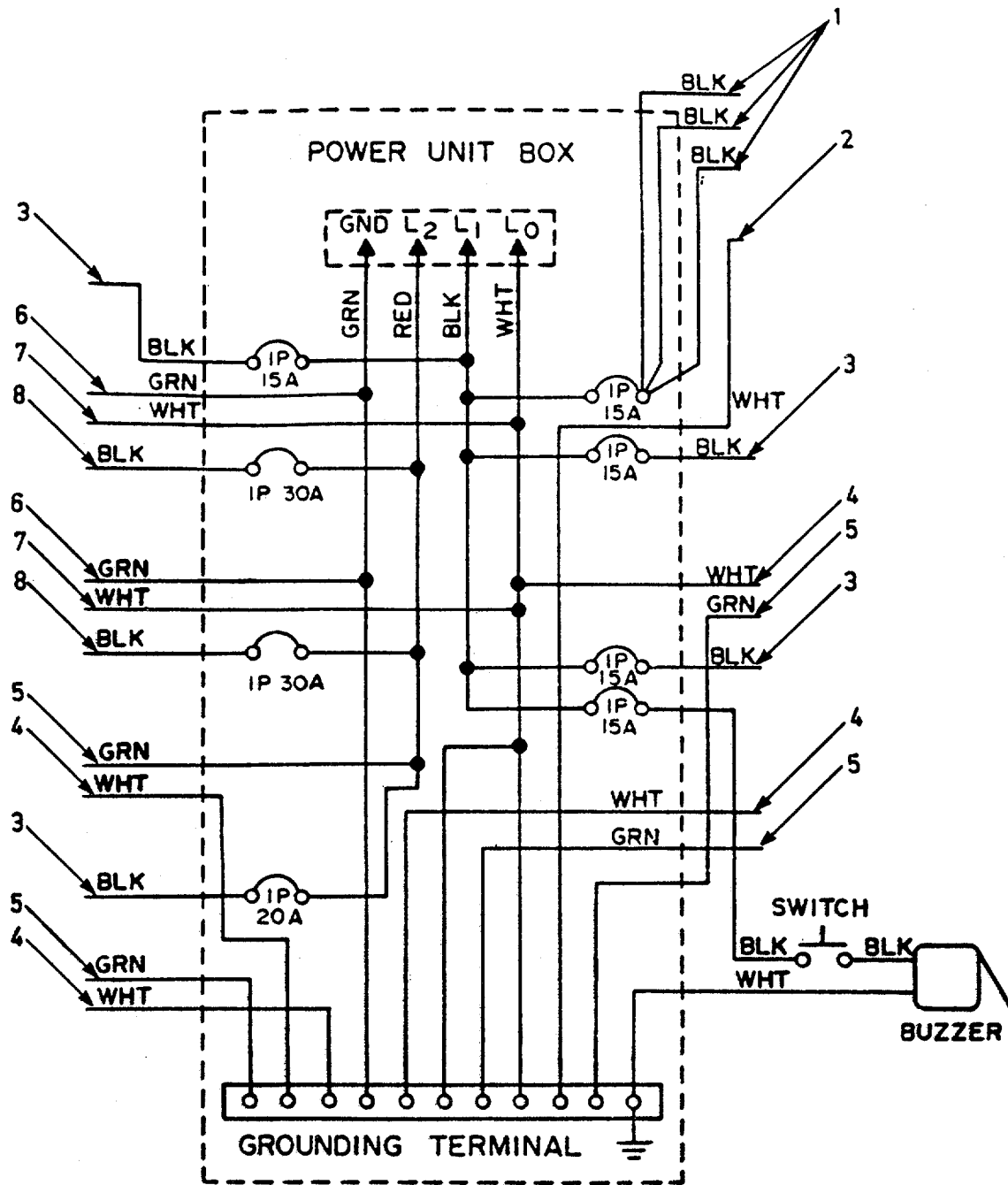


Figure 52. Electrical Wiring Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 25 ELECTRICAL SYSTEM ASSEMBLY	
				FIG. 52 ELECTRICAL WIRING ASSEMBLY	
1	XDFZZ	81349	THW06CF1/14TUJO	..WIRE, NO.14, BLACK .....	V
2	XDFZZ	81349	TIW06CF1/14TUJ9	..WIRE, NO.14, WHITE .....	V
3	XDFZZ	81349	THIO6CF1/12TUJO	..WIRE, NO.12, BLACK .....	V
4	XDFZZ	81349	THWO6CF1/12TUJ9	..WIRE, NO.12, WHITE .....	V
5	XDFZZ	81349	THWO6CF1/12TUJ5	..WIRE, NO.12, GREEN .....	V
6	XDFZZ	81349	THW06CF1/10TUJ5	..WIRE, NO.10, GREEN .....	V
7	XDFZZ	81349	TIHW06CF1/10TUJ9	..WIRE, NO.10, WHITE .....	V
8	XDFZZ	81349	THW06CF1/10TUJO	..WIRE, NO.10, BLACK .....	V

END OF FIGURE

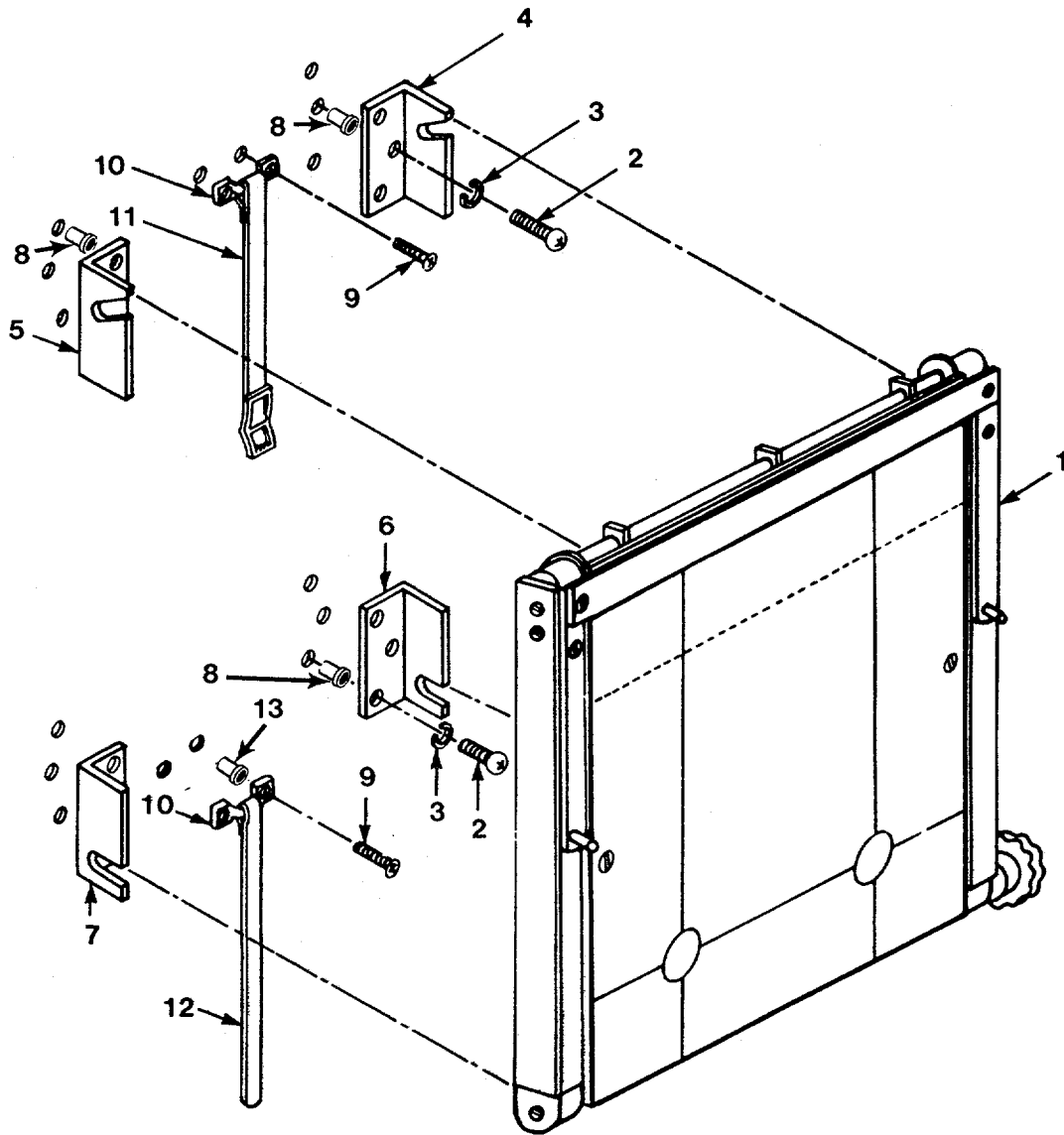


Figure 53. Composing Table Installation



**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 26 COMPOSING TABLE ASSEMBLY	
				FIG. 53 COMPOSING TABLE INSTALLATION	
	XCOOO	81337	6-1-7529	INSTL-COMPOSING TAB .....	1
1	PDOOO	94767	PRODUCTION OUTFI T	.VARIGRAPH PRODUCTIO .....	1
2	XDOZZ	96906	MS35207-267	.SCREW, MACHINE .....	12
3	XDOZZ	96906	MS35338-43	.WASHER, LOCK .....	12
4	XDOZZ	81337	6-1-7529-2	.BRACKET, UPPER, RH .....	1
5	XDOZZ	81337	6-1-7529-1	.BRACKET, UPPER, LH .....	1
6	XDOZZ	81337	6-1-7529-4	.BRACKET, LOWER RH .....	1
7	XDOZZ	81337	6-1-7529-3	.BRACKET, LOWER LH .....	1
8	XDOZZ	96906	MS27130-27	.NUT, BLIND, RIVET .....	12
9	XDOZZ	96906	MS35191-274	.SCREW, MACHINE .....	4
10	XDOZZ	76786	662R1	.LOOP, STRAP FASTENER .....	2
11	XDOZZ	81337	6-1-5877-1	CHAPE ASSEMBLY .....	1
12	XDOZZ	81337	6-1-5877-2	STRAP ASSY, SHORT .....	1
13	XDOZZ	96906	MS27130-28	.NUT, BLIND, RIVET .....	4

END OF FIGURE

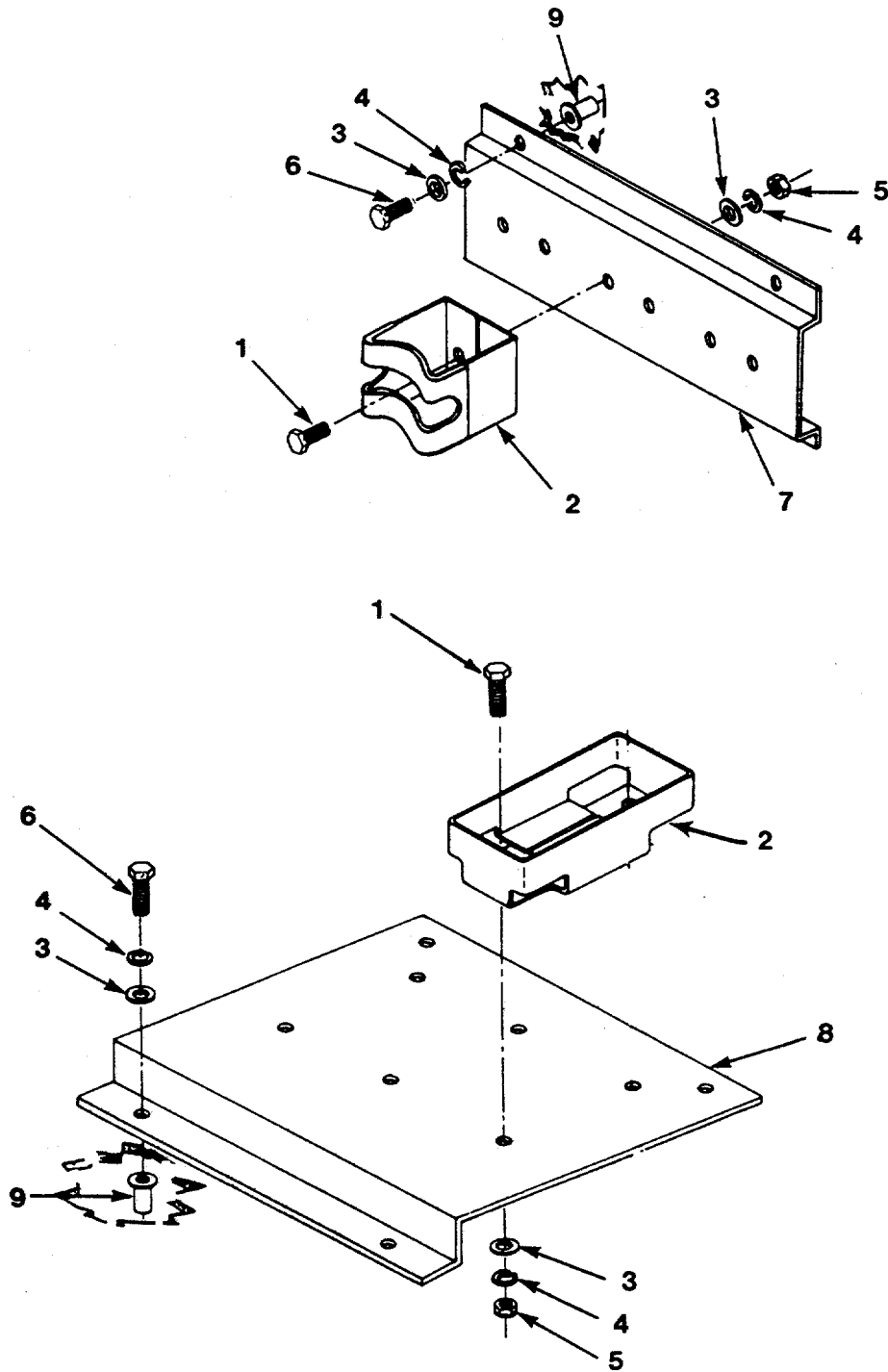


Figure 54. Gun Rack Installation

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 27 GUN RACK ASSEMBLY	
				FIG. 54 GUN RACK INSTALLATION	
	XCOOO	81337	6-1-7542	INSTL, GUN RACK .....	1
1	XDOZZ	96906	MS90725-3	.SCREW, CAP, HEXAGON H .....	12
2	PDOZZ	19207	11630529	.RACK, STORAGE, SMALL .....	1
3	XDOZZ	96906	M527183-10	.WASHER, FLAT .....	20
4	XDOZZ	96906	MS35338-10	.WASHER, LOCK .....	20
5	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON .....	12
6	XDOZZ	96906	MS90728-8	.SCREW, CAP, HEXAGON H .....	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	A25K40	.NUT, BLIND RIVET .....	8

END OF FIGURE

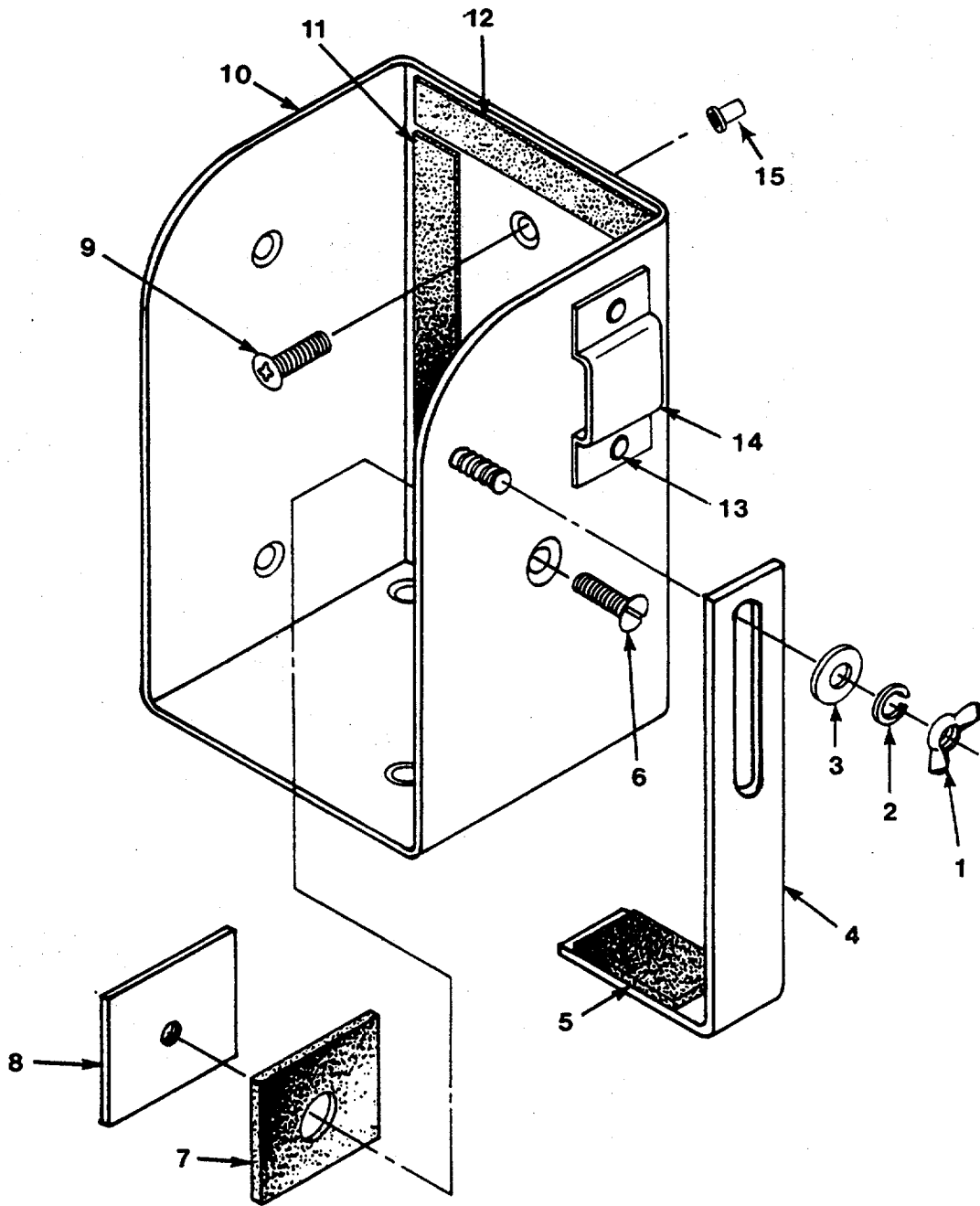


Figure 55. Telephone Bracket Assembly

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 28 TELEPHONE BRACKET ASSEMBLY	
				FIG. 55 TELEPHONE BRACKET ASSEMBLY	
	XDOOO	81337	6-1-7543	ASSY, TELEPHONE BRAC .....	1
1	XDOZZ	96906	MS35425-70	.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	MS35190-287	.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	XDOZZ	81337	6-1-7543-1	.BOX, PHONE MOUNTING .....	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	MS27130-40	.NUT, BLIND, RIVET .....	2

END OF FIGURE

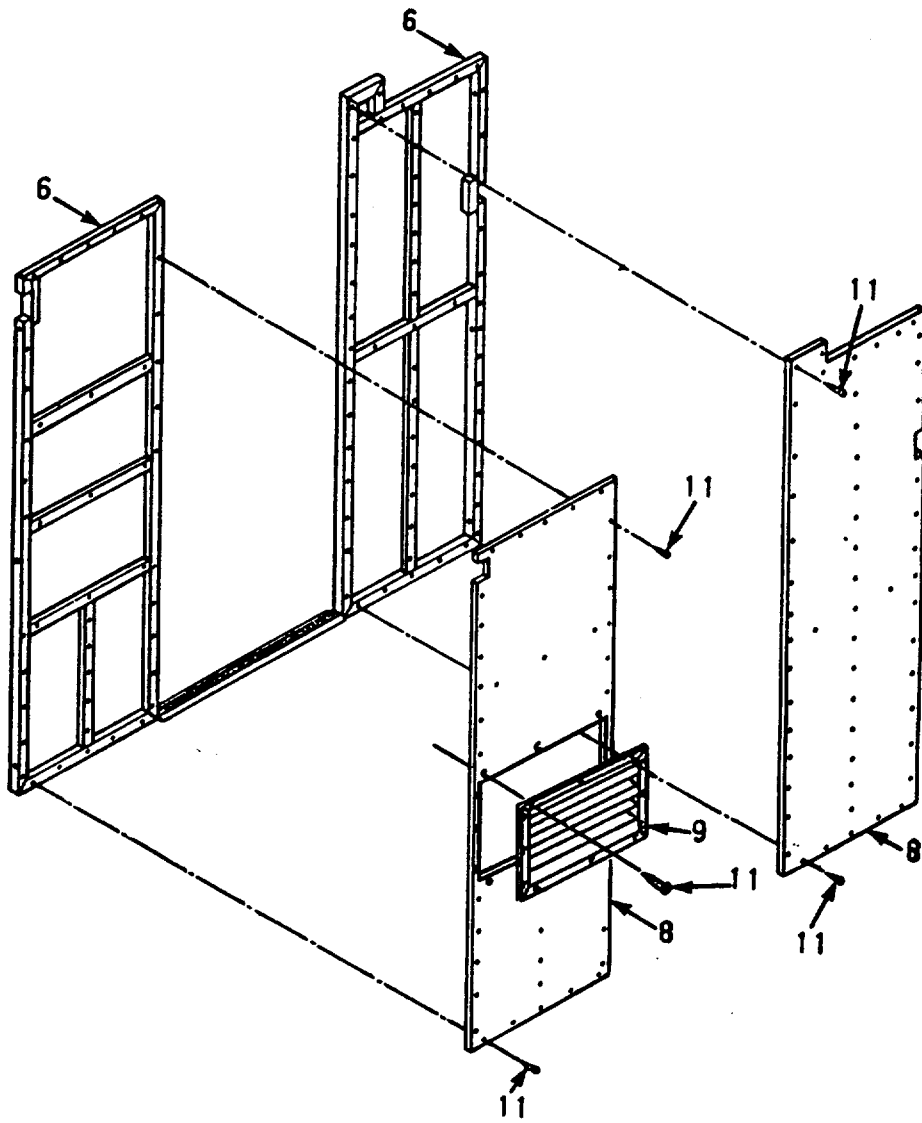


Figure 56. Wall Partition Assembly (Sheet 1 of 2)

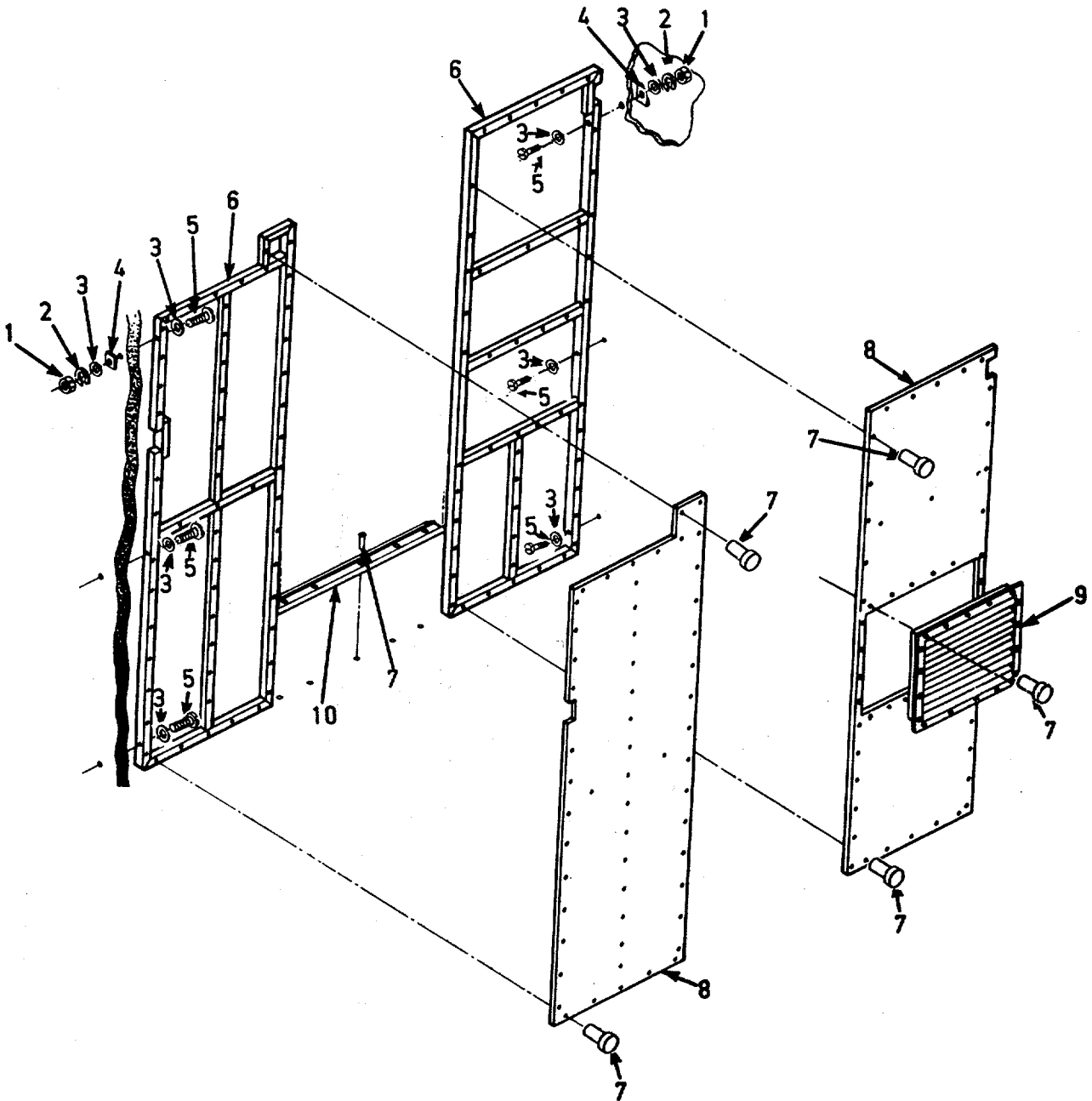


Figure 56. Wall Partition Assembly (Sheet 2 of 2)

## SECTION II

## TM 5-3610-295-13&amp;P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 29 WALL PARTITION ASSEMBLY	
				FIG. 56 WALL PARTITION ASSEMBLY	
	XCOOO	81337	6-1-7503	ASSY, WALL PARTITION .....	1
1	XDOZZ	96906	MS35649-2252	.NUT, PLAIN, HEXAGON .....	6
2	XDOZZ	96906	MS35338-44	.WASHER, LOCK .....	6
3	XDOZZ	96906	MS15795-809	.WASHER, FLAT .....	12
4	XDOZZ	81337	6-1-7547-6	.PLATE, WASHER, EXT .....	6
5	XDOZZ	96906	MS35309-18	.BOLT, HEX HEAD .....	6
6	XDDZZ	02959	20430	.SQ TUBE 1 1/4X1 1/4 .....	V
7	XDOZZ	96906	MS20600-AD6W3	.RIVET, BLIND .....	110
8	XDOZZ	02959	1100-H14	.COVER, AL .....	4
9	XDOZZ	00807	C0619S	.LOUVER, LIGHT PROOF .....	2
10	XDOZZ	81337	6-1-7503-27	THRESHOLD .....	1
11	XDOZZ	96906	MS51863-34C	.SCREW, TAPPING ... ..	110

END OF FIGURE



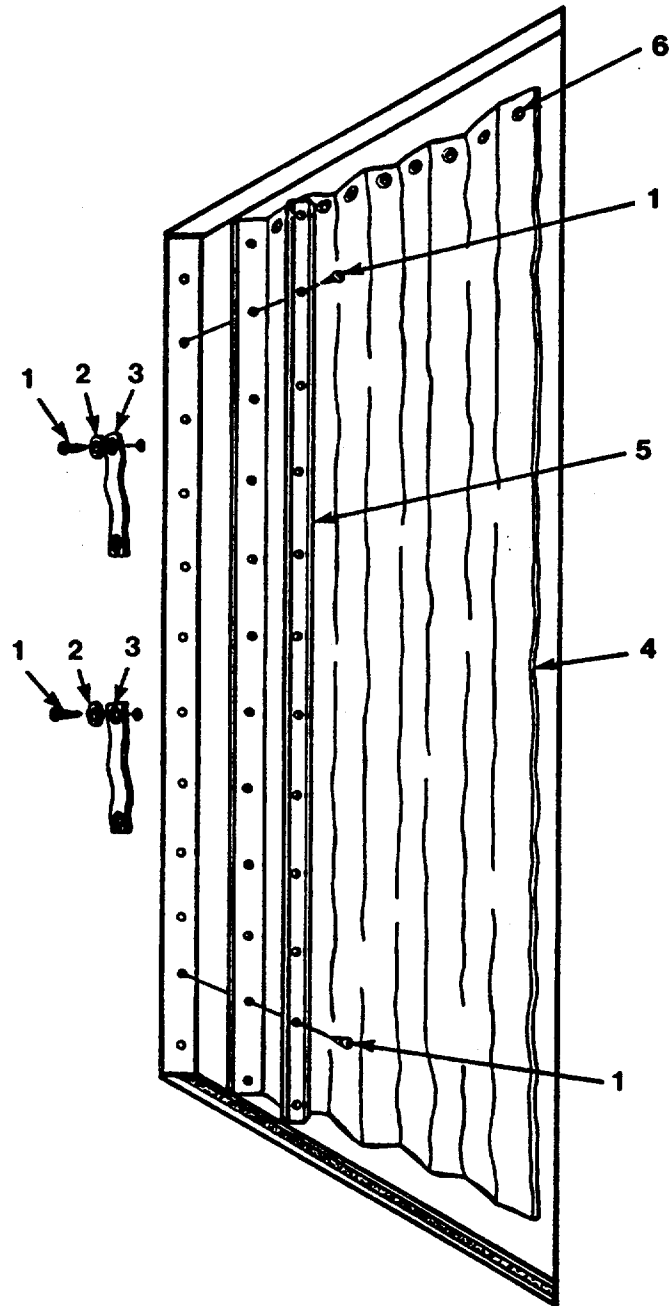


Figure 57. Curtain Assembly (Sheet 1 of 2)

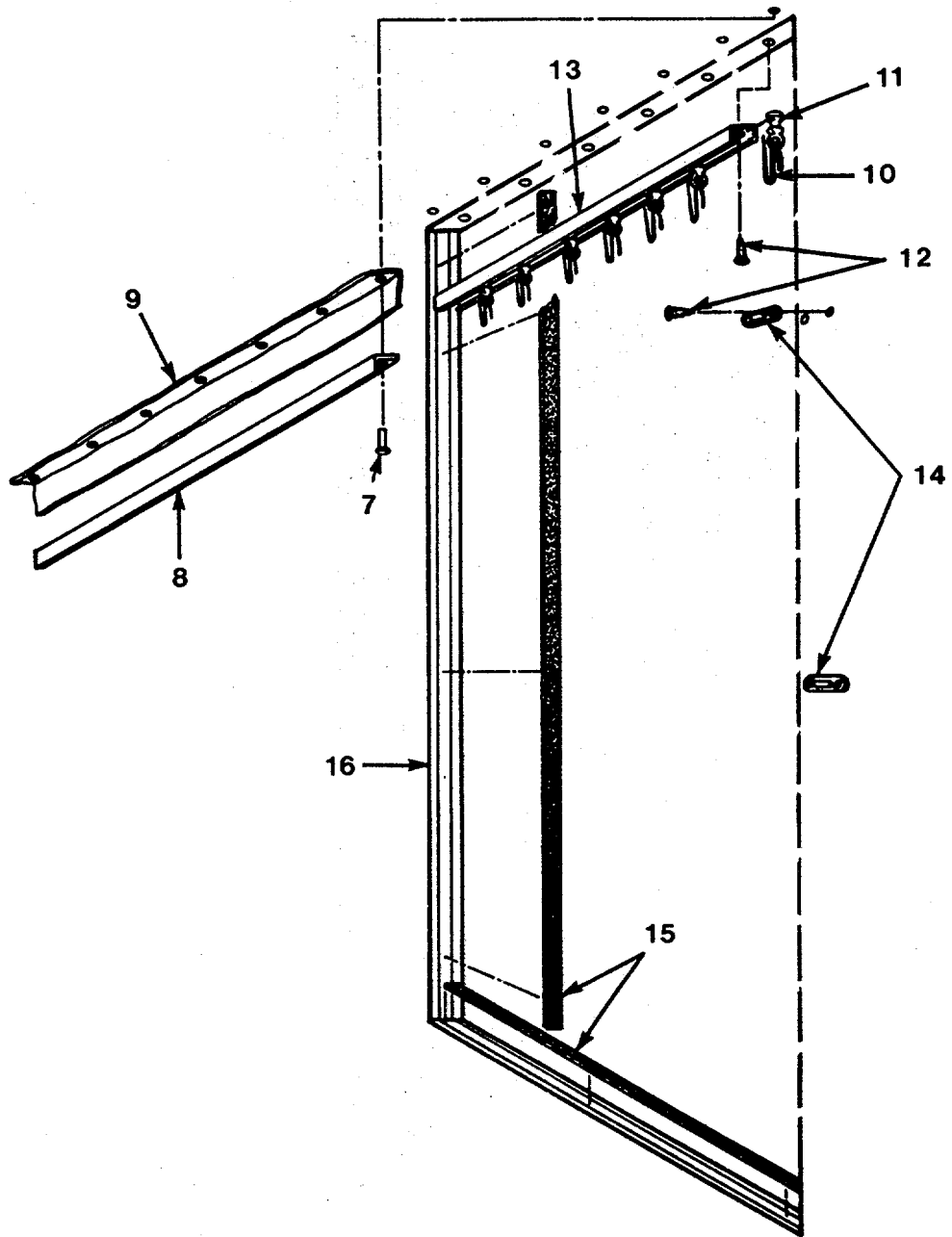


Figure 57. Curtain Assembly (Sheet 2 of 2)

**SECTION II**

**TM 5-3610-295-13&P-1**

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 29 WALL PARTITION ASSEMBLY	
				FIG. 57 CURTAIN ASSEMBLY	
	PDOOO	81337	6-1-7504	.CURTAIN ASSEMBLY, DA .....	1
1	XDOZZ	96906	MS51960-61	.SCREW, MACIINE .....	4
2	XDOZZ	96906	MS15795-904	.WASHER, FLAT .....	2
3	XDOZZ	81337	6-1-7504-2	.TIE-BACK, BLACKOUT C .....	2
4	XDOZZ	81337	6-1-7504	.CURTAIN ASSEMBLY, DA .....	1
5	XDOZZ	25934	A221	.MOLDING, EDGE .....	1
6	XDOZZ	81337	6-1-7504-6	.EYELET .....	9
7	XDOZZ	96906	MS20600-AD4W4	.RIVET, BLIND .....	4
8	XDOZZ	81337	6-1-7503-16	.AIGLE .....	1
9	XDOZZ	81337	6-1-7503-10	VALENCE .....	1
10	XDOZZ	75349	1034	.HOOK, DRAPERY .....	1
11	XDOZZ	75349	9406	.SLIDE, SPECIAL .....	9
12	XDOZZ	96906	MS51862-14C	.SCREW, TAPPING .....	12
13	XDOZZ	75349	9046	.TRACK, CURTAIN .....	1
14	XDOZZ	81860	XB78322	.STUD, SINGLE .....	2
15	XDOZZ	81349	MILF21840 TYPEII CL-1, BLK	.CLOSURE, HOOK, STRIP .....	V
16	XDOZZ	25934	S212	.MOLDING, JAM .....	1

END OF FIGURE

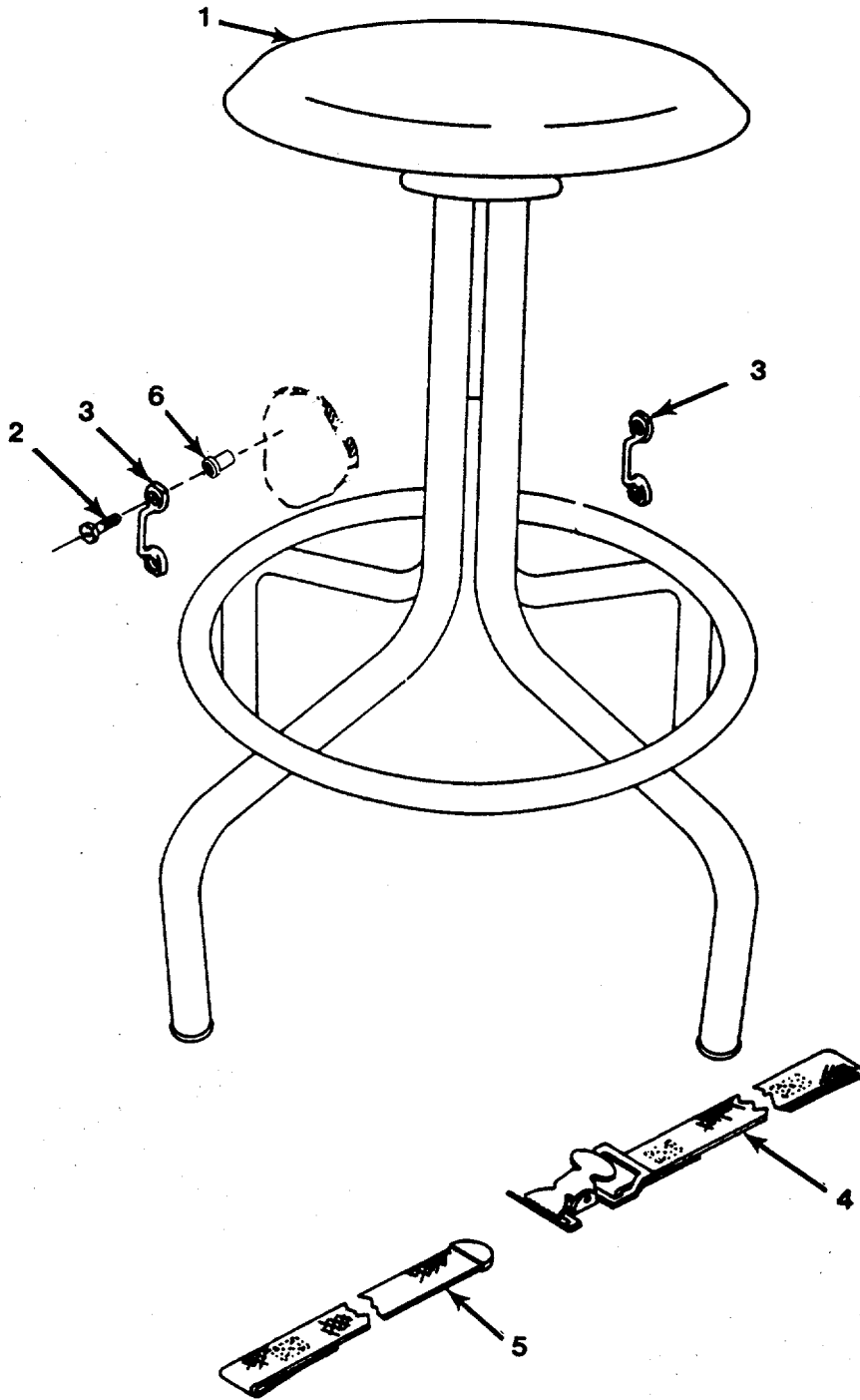


Figure 58. Stool and Holdown Assembly

SECTION II

TM 5-3610-295-13&P-1

(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY

GROUP 30 STOOL HOLDDOWN ASSEMBLY

FIG. 58 STOOL AND HOLDDOWN ASSEMBLY

1	XDOZZ	81348	AAS700TYPE2SIZE1	.STOOL, REVOLVING .....	2
2	XDOZZ	96906	MS35191-274	.SCREW, MACHINE 10-32 UNF-24X1/2L.....	8
3	XDOZZ	76786	662R1	.LOOP, STRAP FASTENER .....	4
4	XDOZZ	81337	6-1-5877-1	.CHAPE ASSEMBLY .....	2
5	XDOZZ	81337	6-1-5877-3	.STRAP ASSEMBLY, LONG .....	2
6	XDOZZ	96906	MS27130-28	.NUT, BLIND, RIVET .....	8

END OF FIGURE

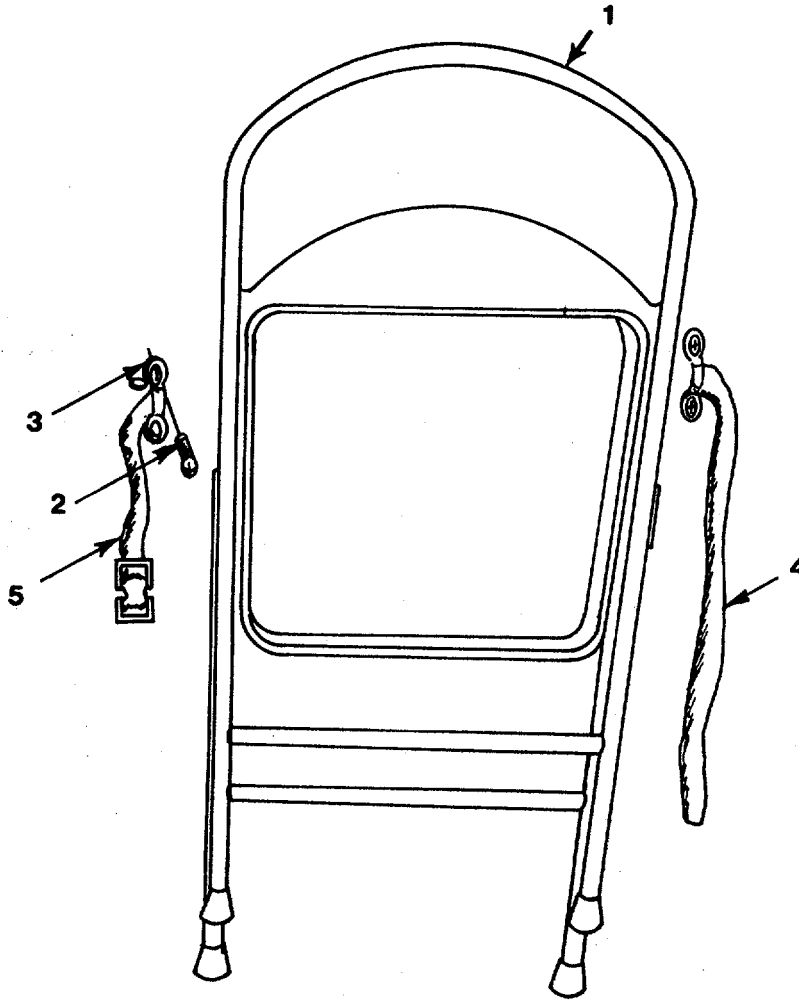


Figure 59. Folding Chair Assembly

Change 2 F-132

SECTION II

TM 5-3610-295-13&P-1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 31 FOLDING CHAIR HOLDDOWN ASSEMBLY	
				FIG. 59 FOLDING CHAIR ASSEMBLY	
1	XDOZZ	81348	AA-C-291TY1CL1ST 4	.CHAIR, FOLDING TYPE I, CLASS 1,..... STYLE A.	1
2	XDOZZ	96906	MS35191-274	.SCREW, MACHINE .....	4
3	XDOZZ	76786	662R1	.LOOP, STRAP FASTENER .....	2
4	XDOZZ	81337	6-1-5877-3	.STRAP ASSEMBLY, LONG .....	1
5	XDOZZ	81337	6-1-5877-1	.CHAPE ASSEMBLY .....	1

END OF FIGURE

**Section III. SPECIAL TOOLS LIST**

**(Not Applicable)**



## CROSS-REFERENCE INDEXES

STOCK NUMBER	FIG.	NATIONAL STOCK NUMBER INDEX		FIG.	ITEM
		ITEM	STOCK NUMBER		
5930-00-051-4448	49	4			
6760-00-137-6137	28	4			
6240-00-152-2982	5	3			
	48	1			
5325-00-276-6090	8	9			
6250-00-299-2884	48	2			
6350-00-383-1189	39	1			
1095-00-763-7348	54	2			
5925-00-878-4077	47	4			
4720-00-882-1379	23	9			
4210-00-889-2491	33	1			
6545-00-922-1200	34	1			
5940-00-937-5237	41	1			
6240-00-964-3728	12	2			
6740-01-033-1075	20	1			
3610-01-037-6326	18	5			
5940-01-069-8914	48	4			
5925-01-107-8786	47	3			
6740-01-136-3107	13	6			
2030-01-168-9371	11	12			
4540-01-212-5566	21	8			
6240-01-212-5567	29	9			
5930-01-212-9579	39	3			
4730-01-223-4931	23	10			
3610-01-223-8480	7				
7110-01-223-8490	2	1			
5930-01-233-8370	49	2			
3610-01-256-0544	26	12			
3610-01-311-6905	57				
3610-01-313-4773	14	1			
6675-01-313-9944	4	9			
3610-01-314-1096	53	1			
7125-01-318-9056	1	6			
4320-01-321-9961	21	5			
6150-01-326-6572	44				
6150-01-326-6573	45				

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
58536	A-A-393	4210-00-889-2491	33	1
81348	AA-C-291TY1CL1ST 4		59	1
81348	AAS700TYPE2SIZE1		58	1
81337	AN		14	
65586	ARTM-1000L	4540-01-2.12-5566	21	8
25934	A221		57	5
03481	A25K:40		54	9
79725	BB125		51	1
60847	BVL-16.17	3610-01-256-0544	26	12
838:7 9	C-15'2:		21	9
00807	C06:195-		56	9
6 62:95	C16P		23	4
93791	DLV2-0	6760-00--137-6137	28	4
77881	D21		21	11
93791	ET4		5	1
93791	ET5		5	2
04655	FS2	6250-00-299- 2884	48	2
08108.	F15T8/CW	6:240-00-152-2982	5	3
			48	1
08108	F20T12R	6240-00-964-3728:	12	2
79725	G-3040CE		49	1
79725	G300B		51	8
79725	G 300C.		51	6
79725	G3010B		51	14
79:725	G3011		51	13
79725	G3017		51	10
03350	G3033J		50	3
79725.	G3046B		50	1
79725	G3086:		51	15
35550	HF18S		16	1
30086.	ITE-B150		47	2
81348	J-C-580ST6CK3 1/2 TTJ.		37	1
81394	MIL-C-3432		44	4
			45	4
81349	M-L-F-21840		31	9
81349	MIL-F-21840 CL I ,TY II		34	3
81349	MIL-F-21840 CL I I, TY I		34	2
81349.	MIL-F-24243		31	7
81349	MIL-R-24243		40	1
			40	4
			40	10
81349	MIL-F-21840; TYPE II CL-I, BLK:		57	15
81348	MM-L.-736 TYPE- 1, S25		32	25
96906	MS15795-408		31	24
			32	15

CROSS-REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS15795-410		9	9
			30	3
			31	29
			32	31
96906	MS15795-412		30	22
			31	16
			31	20
96906	MS15795-442		34	6
96906	MS15795-809		56	3
96906	MS15795-810		11	9
			13	5
			28	3
			57	2
96906	MS15795-904		46	4
96906	MS15795-907		32	28
96906	MS16187-31		35	3
96906	MS16535-116		30	25
96906	MS17828-3C		9	22
			11	4
			9	7
			55	13
96906	MS18154-6		13	8
			38	2
			57	7
			12	3
			51	7
			56	7
			7	3
			8	10
			35	25
			34	8
96906	MS20470-AD6-8		24	1
			41	4
96906	MS20600		42	8
			46	8
			48	5
			15	3
			28	5
			4	1
			7	1
			8	1
			11	1
			13	1
96906	MS20600-AD4W1		31	12
			32	8
			11	6
			8	2
96906	MS20600-AD4W4		26	10
			30	5
96906	MS20600-AD6W3		36	2
			29	3
96906	MS20600-B4W3		7	3
			8	10
96906	MS20600-B6W3		35	25
			34	8
96906	MS20600-B6W4		24	1
			41	4
			42	8
			46	8
			48	5
			15	3
			28	5
			4	1
			7	1
			8	1
96906	MS20600-B6W5		11	1
			13	1
			31	12
			32	8
96906	MS20613-4P4		11	6
			8	2
96906	MS21316-15		26	10
			30	5
96906	MS21316-23		36	2
			29	3
96906	MS21316-25		7	1
			8	1
96906	MS21316-35		11	1
			13	1
96906	MS21316-36		31	12
			32	8
96906	MS21919-D12		11	6
			8	2
96906	MS21919-14		26	10
			30	5

**SECTION IV TM 5-3610-295-13&P-1**  
**CROSS-REFERENCE INDEXES**

**NATIONAL STOCK NUMBER INDEX**

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS21919-5		26	3
96906	MS21919-6		29	2
96906	MS24629-50		39	2
96906	MS24693-274		9	20
96906	MS25281-R6		32	2
96906	MS27022-5		23	16
96906	MS27025-5	4730-01-223-4931	23	10
96906	MS27028-5		23	12
96906	MS27130-A14		32	21
96906	MS27130-A20		32	7
96906	MS27130-A21		13	7
96906	MS27130-A27		31	26
			32	37
96906	MS27130-A28		8	13
			11	15
			43	5
96906	MS27130-A32		9	11
96906	MS27130-A33		10	6
			21	6
			43	10
96906	MS27130-A45		35	14
96906	MS27130-A56		11	16
96906	MS27130-21		7	7
96906	MS27130-27		53	8
96906	MS27130-28		18	7
			53	13
			58	6
96906	MS27130-33		26	8
			28	10
			29	10
			30	10
96906	MS27130-38		27	9
96906	MS27130-40		55	15
96906	MS27130-50		35	16
96906	MS27183-10		1	2
			2	7
			6	2
			10	3
			14	9
			19	2
			21	4
			26	6
			27	2
			29	6
			33	4
			54	3
			55	3
96906	MS27183-11		35	12
96906	MS27183-13		35	9
96906	MS27183-14		4	5
			32	11

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	M527183-18		30	13
96906	MS27183-42		25	2
96906	MS27183-6		32	5
96906	MS27183-8		16	2
96906	MS27183-9		35	19
96906	MS3456W18-11S		37	2
96906	MS35190-271		30	24
			32	19
96906	MS35190-287		55	6
96906	MS35191-272		26	4
			43	6
96906	MS35191-273		32	14
96906	MS35191-274		11	13
			18	1
			34	4
			53	9
			58	2
			59	2
96906	MS35191-291		55	9
96906	MS35206-247		42	1
96906	MS35206-251		32	3
96906	MS35206-263		23	13
96906	MS35206-281		11	8
96906	MS35206-284		13	3
96906	MS35207-262		40	7
96906	MS35207-264		14	5
96906	MS35207-265		11	3
			31	22
			32	35
96906	MS35207-267		53	2
96906	MS35214-59		46	1
96906	MS35219-71		29	4
96906	MS35307-31		9	18
96906	MS35307-319		9	14
			35	18
96906	MS35307-337		35	13
96906	MS35309-18		56	5
96906	MS35335-31		32	4
96906	MS35335-61		35	20
96906	MS35335-62		35	11
96906	MS35335-63		35	8
96906	MS35338-10		54	4
96906	MS35338-100		46	3
96906	MS35338-138		8	4
			14	6
96906	MS35338-32		40	8
96906	MS35338-41		42	6
96906	MS35338-42		42	3
96906	MS35338-43		23	14
			25	3
			31	23

CROSS-REFERENCE INDEXES  
NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS35338-43		32	16
			34	5
			53	3
96906	MS35338-44		1	4
			2	9
			6	4
			9	8
			10	2
			13	4
			14	11
			19	4
			21	3
			26	2
			26	5
			27	3
			28	2
			29	5
			30	2
			31	28
			32	32
			33	5
			39	5
43	3			
43	12			
55	2			
56	2			
96906	MS35338-45		31	15
96906	MS35338-46		4	4
			30	21
			31	19
			32	10
96906	MS35338-48		30	12
96906	MS35425-70		55	1
96906	MS35425-75		32	9
96906	MS35489-18	5325-00-276-6090	8	9
96906	MS35492-253		32	26
96906	MS35492-274		32	22
96906	MS35492-276		32	24
96906	MS35492-50		31	8
96906	MS35492-52		31	3
96906	MS35649-202		23	15
			25	4
			46	2
96906	MS35649-204		8	6
96906	MS35649-2252		1	5
			2	10
			6	5
			9	17
			14	12
			19	5
			30	18

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS35649-2252		32	33
			33	6
			43	13
			54	5
			56	1
96906	MS35649-2254		35	21
96906	MS35649-2382		32	12
96906	MS35649-282		42	2
96906	MS35650-302		14	7
			32	17
96906	MS35650-3402		22	17
96906	MS35842-11		22	12
96906	MS35842-12		22	1
96906	MS35842-8		22	6
96906	MS51847-2		22	18
96906	MS51850-34		35	5
96906	MS51861-24		23	11
			42	5
			46	10
96906	MS51861-24C		41	2
96906	MS51861-240		39	7
96906	MS51861-27		32	1
96906	MS51861-34C		4	11
96906	MS51861-45C		26	1
			29	1
			36	1
			39	4
96906	MS51861-65		39	4
96906	MS51862-14C		57	12
96906	MS51863-34C		56	11
96906	MS51957-63		8	3
			25	1
96906	MS51960-61		57	1
96906	MS51967-2		27	4
96906	MS51968-11		9	3
96906	MS51968-9		9	6
96906	MS90725-11		43	2
96906	MS90725-17		1	1
			2	6
			6	1
			14	8
			19	1
			33	2
			43	11
96906	MS90725-18		30	16
96906	MS90725-3		32	29
			28	1
			30	7
96906	MS90725-34		54	1
			31	14
			31	27
			30	20

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS90725-6		10	1
			21	2
			27	1
			28	7
			29	7
			30	14
96906	MS90725-63		4	3
96906	MS90725-68		4	7
96906	MS90725-92		9	4
96906	MS90726-109		30	11
96906	MS90726-6		27	5
96906	MS90726-60		31	18
96906	MS90726-66		9	5
96906	MS90726-99		9	2
96906	MS90728-8		26	9
			30	1
			54	6
96906	MS90785-13		35	10
96906	MS9786-13		35	7
22585	MX3319G		43	1
81349	M24243/1-B404		31	5
81349	M24243/6-A604H		25	6
96906	M24243/6-604H		31	1
81349	M24243/6-606H		4	10
			32	38
93510	OMB5		33	7
81349	PB08NA01	5940-00-937-5237	41	1
79725	PES-5		51	2
03350	PES-6		47	6
94767	PRODUCTION OUTFI T	3610-01-314-1096	53	1
34784	P505-T1414		21	1
30086	Q115	5925-01-107-8786	47	3
30086	Q120	5925-00-878-4077	47	4
03350	SP-145		47	5
30086	SU-150		47	1
16543	S120TS120		12	1
35550	5135N61/2		16	4
25934	S212		57	16
81349	THW06CF1/10TUJ0		52	8
81349	THW06CF1/10TUJ5		52	6
81349	THW06CF1/10TUJ9		52	7
81349	THW06CF1/12TUJ0		52	3
81349	THW06CF1/12TUJ5		52	5
81349	THW06CF1/12TUJ9		52	4
81349	THW06CF1/14TUJ0		52	1
81349	THW06CF1/14TUJ9		52	2
81860	T64AB50		9	21
81860	T94AB110		9	15
			30	19
			30	27



## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
93791	VE162		5	4
93791	VE176		5	5
93791	VE50		5	6
93791	VLT18T	6675-01-313-9944	4	9
81348	WC596/12-4		50	2
81348	WC596/41-2		50	4
81348	WS896/2-03A	5930-00-051-4448	49	4
81860	XB78322		57	14
49367	ZZM-W-2016-2050		44	3
			45	3
49369	ZZM-W-2116		46	5
49369	ZZM-WB-1016		46	6
49367	ZZM-WB-1116		44	5
49367	ZZM-WB-1516		44	2
			45	2
49367	ZZM-16-23P		44	6
			46	7
49367	ZZM-16-23S		44	1
			45	1
60847	0211-103AC8CX		27	8
06424	0770-9		8	5
81337	1-6-6078		8	
81337	1-6-6079		8	8
81337	1-6-6080		8	11
81337	1-6-6083		8	12
81337	1-6-6085		25	7
81337	1-6-6086		25	5
81337	1-6-6087		13	
81337	1-6-6088		13	2
81337	1-6-6089		21	
81337	1-6-6089-11		21	10
81337	1-6-6090		21	7
81337	1-6-6091		22	
81337	1-6-6093		32	
81337	1-6-6094		32	39
81337	1-6-6095		32	36
81337	1-6-6096		32	34
81337	1-6-6097		32	27
81337	1-6-6098		32	23
81337	1-6-6099		32	18
81337	1-6-6100		32	20
81337	1-6-6104		30	
81337	1-6-6105		30	23
81337	1-6-6106		30	4
81337	1-6-6107		30	26
81337	1-6-6108		30	15
81337	1-6-6109		30	8
81337	1-6-6115		31	
81337	1-6-6115-8		31	25
81337	1-6-6116		31	17
81337	1-6-6117		31	21

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## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
81337	1-6-6118		31	4
81337	1-6-6119-1		31	11
81337	1-6-6119-2		31	6
81337	1-6-6119-3		31	10
81337	1-6-6120		31	2
81337	1-6-6125-1		9	10
81337	1-6-6125-2		9	12
81337	1-6-6126		9	13
81337	1-6-6127		9	19
81337	1-6-6128		11	5
81337	1-6-6129		11	2
81337	1-6-6130		11	7
81337	1-6-6131		11	10
81337	1-6-6132		11	11
81337	1-6-6133		10	5
81337	1-6-6134		10	4
81337	1-6-6135		9	
81337	1-6-6157		32	13
81337	1-6-6158		32	6
81337	1-6-6159		30	6
81337	1-6-6160		31	13
81337	1-6-6161		9	1
81337	1-6-6162		35	17
16327	1P805A	4320-01-321-9961	21	5
03699	100W, 1A	6240-01-212-5567	29	9
75349	1034		57	10
02959	1100-H14		56	8
10066	1114T		20	2
19207	11630529	1095-00-763-7348	54	2
19207	11677011	6545-00-922-1200	34	1
74545	1221PL	5930-01-233-8370	49	2
25472	13-40-XKN		30	9
10066	1400	6740-01-033-1075	20	1
07183	1418	6740-01-136-3107	13	6
66607	150-019		24	3
14608	15642S		40	5
14608	1570		40	9
1G601	1785	5930-01-212-9579	39	3
11855	20A-10		48	3
79725	200		51	4
02959	20430		56	6
79725	2100		51	11
79725	211		51	5
79725	2110A		51	3
79725	2115		51	9
98441	219-16	4720-00-882-1379	23	9
39428	2672K13		23	1
96906	27183-10		39	6
30327	303E		22	19
74545	3331C		37	3
19557	340-4N5	6350-00-383-1189	39	1

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
94222	38-104-05-13		47	8
85002	42-313		42	4
94222	43-1-3-0		15	5
94222	43-10-3-0		15	4
62531	439-211		23	8
39428	4547K11		22	9
39428	4823K16		23	6
39428	4880K12		22	3
81337	5-13-4777		34	7
81337	5-4-6727	6150-01-326-6573	45	
81337	5-4-6728	6150-01-326-6572	44	
71286	51L-1-1-AA		35	4
71286	51L71AA		35	6
39428	5108K68		23	5
39428	5231K17		22	7
39428	5231K19		22	13
39428	5231K24		22	4
39428	5233K34		22	2
39428	5372K17		22	10
39428	5372K25		22	14
39428	5372K35		23	3
39428	5373K18		22	8
39428	5373K24		22	11
39428	5373K35		22	5
			23	2
53711	5562163 PIECE 20 4	2030-01-168-9371	11	12
04009	5737		50	8
79725	5747-2		51	12
74545	5861		50	7
81337	6-1-5851-25		6	9
81337	6-1-5856		23	
81337	6-1-5856-14		23	18
81337	6-1-5856-3		23	19
81337	6-1-5856-6		23	17
81337	6-1-5857	7110-01-223-8490	2	1
81337	6-1-5857-10		2	3
81337	6-1-5857-11		2	4
81337	6-1-5857-15		3	1
81337	6-1-5857-16		3	3
81337	6-1-5857-17		3	4
81337	6-1-5857-7		2	5
81337	6-1-5857-9		2	2
81337	6-1-5858		6	6
81337	6-1-5859		42	
81337	6-1-5859-1		42	9
81337	6-1-5859-2		42	7
81337	6-1-5865		13	9
81337	6-1-5873	3610-01-037-6326	18	5
81337	6-1-5873-5		18	6
81337	6-1-5877-1		18	3

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## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
81337	6-1-5877-1		43	8
			53	11
			58	4
			59	5
81337	6-1-5877-2		18	4
			43	9
			53	12
81337	6-1-5877-3		58	5
			59	4
81337	6-1-5878-1		43	14
81337	6-1-5878-2		43	15
81337	6-1-5878-3		43	4
81337	6-1-7501-103		26	13
81337	6-1-7502-1		46	9
81337	6-1-7502-2		46	11
81337	6-1-7502-4		41	3
81337	6-1-7503		56	
81337	6-1-7503-10		57	9
81337	6-1-7503-16		57	8
81337	6-1-7503-17		1	9
81337	6-1-7503-27		56	10
81337	6-1-7504	3610-01-311-6905	57	
			57	4
81337	6-1-7504-2		57	3
81337	6-1-7504-6		57	6
81337	6-1-7505	3610-01-313-4773	14	1
81337	6-1-7505-1		16	5
81337	6-1-7505-17		17	3
			19	9
81337	6-1-7505-20		16	3
81337	6-1-7505-22		14	2
81337	6-1-7505-23		14	4
81337	6-1-7505-25		14	3
81337	6-1-7505-31		15	6
81337	6-1-7505-47		19	6
81337	6-1-7506-20		22	16
81337	6-1-7507		38	
81337	6-1-7507-1		38	9
81337	6-1-7507-12		38	5
81337	6-1-7507-13		38	7
81337	6-1-7507-14		38	1
81337	6-1-7507-15		38	3
81337	6-1-7507-17		38	8
81337	6-1-7507-18		38	6
81337	6-1-7507-19		38	4
81337	6-1-7508		40	
81337	6-1-7508-1		40	11
81337	6-1-7508-14		40	14
81337	6-1-7508-16		40	12
81337	6-1-7508-17		40	13
81337	6-1-7508-18		40	6

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
81337	6-1-7508-2		40	2
81337	6-1-7508-3		40	3
81337	6-1-7518		4	
81337	6-1-7518-1		4	12
81337	6-1-7518-2		4	14
31337	6-1-7518-3		4	13
81337	6-1-7518-4		4	6
81337	6-1-7518-5		4	8
81337	6-1-7519		4	2
81337	6-1-7523		28	
81337	6-1-7523-2		28	8
81337	6-1-7523-3		28	9
81337	6-1-7523-9		28	6
81337	6-1-7524		27	
81337	6-1-7524-1		27	6
81337	6-1-7524-8		27	7
81337	6-1-7525-1		29	8
81337	6-1-7526		24	4
81337	6-1-7527	3610-01-223-8480	7	
81337	6-1-7527-1		7	4
81337	6-1-7527-2		7	2
81337	6-1-7527-3		7	5
81337	6-1-7527-4		7	6
81337	6-1-7529		53	
81337	6-1-7529-1		53	5
81337	6-1-7529-2		53	4
81337	6-1-7529-3		53	7
81337	6-1-7529-4		53	6
81337	6-1-7530		24	2
81337	6-1-7532-19		39	9
81337	6-1-7532-3		41	6
81337	6-1-7532-6		39	8
81337	6-1-7532-7		41	5
81337	6-1-7532-8		39	10
81337	6-1-7539	7125-01-318-9056	1	6
81337	6-1-7540		35	
81337	6-1-7540-1		35	22
81337	6-1-7540-2		35	24
81337	6-1-7540-4		35	23
81337	6-1-7540-5		35	15
81337	6-1-7540-6		35	26
81337	6-1-7541		35	1
81337	6-1-7541-1		35	2
81337	6-1-7542		54	
81337	6-1-7542-1		54	7
81337	6-1-7542-2		54	8
81337	6-1-7543		55	
81337	6-1-7543-1		55	10
81337	6-1-7543-2		55	4
81337	6-1-7543-3		55	14
81337	6-1-7543-4		55	8

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## NATIONAL STOCK NUMBER INDEX

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
81337	6-1-7543-5		55	7
81337	6-1-7543-6		55	11
81337	6-1-7543-7		55	12
81337	6-1-7543-8		55	5
81337	6-1-7544		36	
81337	6-1-7544-1		36	3
81337	6-1-7547-2		26	11
81337	6-1-7547-4		26	7
81337	6-1-7547-5		33	3
81337	6-1-7547-6		1	3
			2	8
			6	3
			9	16
			14	10
			19	3
			30	17
			32	30
			56	4
81337	6X129-13-40-XKN		31	30
42689	60-016-24TYPEF		1	8
			6	8
42689	61-289-3		3	5
			15	1
42689	61-3255		3	2
42689	61-394		3	6
			15	2
76786	662R1		11	14
			18	2
			43	7
			53	10
			58	3
			59	3
42689	68-090		1	7
			6	7
			17	1
			19	7
42689	68-1624TYF		17	2
			19	8
39428	6809K16		23	7
83879	7-150T		47	7
62812	766W		8	7
30119	78B	5940-01-069-8914	48	4
34942	84596K52		22	15
75349	9046		57	13
74545	91091		50	6
75349	9406		57	11
74545	97071		49	3
74545	97101		50	5

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## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
1	1		96906	MS90725-17
1	2		96906	MS27183-10
1	3		81337	6-1-7547-6
1	4		96906	MS35338-44
1	5		96906	MS35649-2252
1	6	7125-01-318-9056	81337	6-1-7539
1	7		42689	68-090
1	8		42689	60-016-24TYPEF
1	9		81337	6-1-7503-17
2	1	7110-01-223-8490	81337	6-1-5857
2	2		81337	6-1-5857-9
2	3		81337	6-1-5857-10
2	4		81337	6-1-5857-11
2	5		81337	6-1-5857-7
2	6		96906	MS90725-17
2	7		96906	MS27133-10
2	8		81337	6-1-7547-6
2	9		96906	MS35338-44
2	10		96906	MS35649-2252
3	1		81337	6-1-5857-15
3	2		42689	61-3255
3	3		81337	6-1-5357-16
3	4		81337	6-1-5857-17
3	5		42689	61-289-3
3	6		42689	61-394
4			81337	6-1-7518
4	1		96906	MS21316-23
4	2		81337	6-1-7519
4	3		96906	MS90725-63
4	4		96906	MS35338-46
4	5		96906	MS27183-14
4	6		81337	6-1-7518-4
4	7		96906	M590725-68
4	8		81337	6-1-7518-5
4	9	6675-01-313-9944	93791	VLT18T
4	10		81349	M24243/6-606H
4	11		96906	MS51861-34C
4	12		81337	6-1-7518-1
4	13		81337	6-1-7518-3
4	14		81337	6-1-7518-2
5	1		93791	ET4
5	2		93791	ET5
5	3	6240-00-152-2982	08108	F15T8/CW
5	4		93791	VE162
5	5		93791	VE176
5	6		93791	VE50
6	1		96906	MS90725-17
6	2		96906	MS27183-10
6	3		81337	6-1-7547-6
6	4		96906	MS35338-44
6	5		96906	MS35649-2252

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
6	6		81337	6-1-5858
6	7		42689	68-090
6	8		42689	60-016-24TYPEF
6	9		81337	6-1-5851-25
7		3610-01-223-8480	81337	6-1-7527
7	1		96906	MS21316-23
7	2		81337	6-1-7527-2
7	3		96906	MS20600-B4W3
7	4		81337	6-1-7527-1
7	5		81337	6-1-7527-3
7	6		81337	6-1-7527-4
7	7		96906	MS27130-21
8			81337	1-6-6078
8	1		96906	SS21316-23
8	2		96906	MS21316-35
8	3		96906	MS51957-63
8	4		96906	MS35338-138
8	5		06424	0770-9
8	6		96906	MS35649-204
8	7		62812	766W
8	8		81337	1-6-6079
8	9	5325-00-276-6090	96906	MS35489-18
8	10		96906	MS20600-B4W3
8	11		81337	1-6-6080
8	12		81337	1-6-6083
8	13		96906	MS27130-A28
9			81337	1-6-6135
9	1		81337	1-6-6161
9	2		96906	MS90726-99
9	3		96906	MS51968-11
9	4		96906	MS90725-92
9	5		96906	M590726-66
9	6		96906	MS51968-9
9	7		96906	MS18154-6
9	8		96906	M535338-44
9	9		96906	M515795-410
9	10		81337	1-6-6125-1
9	11		96906	MS27130-A32
9	12		81337	1-6-6125-2
9	13		81337	1-6-6126
9	14		96906	M535307-319
9	15		81860	T.94AB110
9	16		81337	6-1-7547-6
9	17		96906	MS35649-2252
9	18		96906	MS35307-31
9	19		81337	1-6-6127
9	20		96906	MS24693-274
9	21		81860	T64AB50
9	22		96906	MS17828-3F
10	1		96906	MS90725-6
10	2		96906	MS35338-44



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## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
10	3		96906	MS27183-10
10	4		81337	1-6-6134
10	5		81337	1-6-6133
10	6		96906	MS27130-A33
11	1		96906	MS21316-23
11	2		81337	1-6-6129
11	3		96906	MS35207-265
11	4		96906	MS17828-3F
11	5		81337	1-6-6128
11	6		96906	MS21316-25
11	7		81337	1-6-6130
11	8		96906	MS35206-281
11	9		96906	MS15795-810
11	10		81337	1-6-6131
11	11		81337	1-6-6132
11	12	2030-01-168-9371	53711	5562163 PIECE 20 4
11	13		96906	MS35191-274
11	14		76786	662R1
11	15		96906	MS27130-A28
11	16		96906	MS27130-A56
12	1		16543	S120TS120
12	2	6240-00-964-3728	08108	F20T12R
12	3		96906	MS20600-AD6W3
13			81337	1-6-6087
13	1		96906	MS21316-23
13	2		81337	1-6-6088
13	3		96906	MS35206-284
13	4		96906	MS35338-44
13	5		96906	M515795-810
13	6	6740-01-136-3107	07183	1418
13	7		96906	MS27130-A21
13	8		96906	MS20600
13	9		81337	6-1-5865
14			81337	AN
14	1	3610-01-313-4773	81337	6-1-7505
14	2		81337	6-1-7505-22
14	3		81337	6-1-7505-25
14	4		81337	6-1-7505-23
14	5		96906	MS35207-264
14	6		96906	MS35338-138
14	7		96906	MS35650-302
14	8		96906	MS90725-17
14	9		96906	MS27183-10
14	10		81337	6-1-7547-6
14	11		96906	MS35338-44
14	12		96906	MS35649-2252
15	1		42689	61-289-3
15	2		42689	61-394
15	3		96906	MS20613-4P4
15	4		94222	43-10-3-0

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## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
15	5		94222	43-1-3-0
15	6		81337	6-1-7505-31
16	1		35550	HF18S
16	2		96906	MS27183-8
16	3		81337	6-1-7505-20
16	4		35550	S135N61/2
16	5		81337	6-1-7505-1
17	1		42689	68-090
17	2		42689	68-1624TYF
17	3		81337	6-1-7505-17
18	1		96906	MS35191-274
18	2		76786	662R1
18	3		81337	6-1-5877-1
18	4		81337	6-1-5877-2
18	5	3610-01-037-6326	81337	6-1-5873
18	6		81337	6-1-5873-5
18	7		96906	MS27130-28
19	1		96906	MS90725-17
19	2		96906	MS27183-10
19	3		81337	6-1-7547-6
19	4		96906	MS35338-44
19	5		96906	MS35649-2252
19	6		81337	6-1-7505-47
19	7		42689	68-090
19	8		42689	68-1624TYF
19	9		81337	6-1-7505-17
20	1	6740-01-033-1075	10066	1400
20	2		10066	1114T
21			81337	1-6-6089
21	1		34784	P505-T1414
21	2		96906	MS90725-6
21	3		96906	MS35338-44
21	4		96906	MS27183-10
21	5	4320-01-321-9961	16327	IP805A
21	6		96906	MS27130-A33
21	7		81337	1-6-6090
21	8	4540-01-212-5566	65586	ARTM-1000L
21	9		83879	C-152
21	10		81337	1-6-6089-11
21	11		77881	D21
22			81337	1-6-6091
22	1		96906	MS35842-12
22	2		39428	5233K34
22	3		39428	4880K12
22	4		39428	5231K24
22	5		39428	5373K35
22	6		96906	MS35842-8
22	7		39428	5231K17
22	8		39428	5373K18
22	9		39428	4547KII
22	10		39428	5372K17

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## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
22	11		39428	5373K24
22	12		96906	MS35842-11
22	13		39428	5231K19
22	14		39428	5372K25
22	15		34942	84596K52
22	16		81337	6-1-7506-20
22	17		96906	MS35650-3402
22	18		96906	MS51847-2
22	19		30327	303E
23			81337	6-1-5856
23	1		39428	2672K13
23	2		39428	5373K35
23	3		39428	5372K35
23	4		66295	C16P
23	5		39428	5108K68
23	6		39428	4823K16
23	7		39428	6809K16
23	8		62531	439-211
23	9	4720-00-882-1379	98441	219-16
23	10	4730-01-223-4931	96906	MS27025-5
23	11		96906	MS51861-24
23	12		96906	MS27028-5
23	13		96906	MS35206-263
23	14		96906	MS35338-43
23	15		96906	MS35649-202
23	16		96906	MS27022-5
23	17		81337	6-1-5856-6
23	18		81337	6-1-5856-14
23	19		81337	6-1-5856-3
24	1		96906	MS20600-B6W4
24	2		81337	6-1-7530
24	3		66607	150-019
24	4		81337	6-1-7526
25	1		96906	MS51957-63
25	2		96906	MS27183-42
25	3		96906	MS35338-43
25	4		96906	MS35649-202
25	5		81337	1-6-6086
25	6		81349	M24243/6-A604H
25	7		81337	1-6-6085
26	1		96906	MS51861-45C
26	2		96906	MS35338-44
26	3		96906	MS21919-5
26	4		96906	MS35191-272
26	5		96906	MS35338-44
26	6		96906	MS27183-10
26	7		81337	6-1-7547-4
26	8		96906	MS27130-33
26	9		96906	MS90728-8
26	10		96906	MS21316-35
26	11		81337	6-1-7547-2

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

FIGURE AND ITEM NUMBER INDEX  
STOCK NUMBER CAGEC

## PART NUMBER

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
26	12	3610-01-256-0544	60847	BVL-1617
26	13		81337	6-1-7501-103
27				81337 6-1-7524
27	1		96906	MS90725-6
27	2		96906	MS27183-10
27	3		96906	MS35338-44
27	4		96906	MS51967-2
27	5		96906	MS90726-6
27	6		81337	6-1-7524-1
27	7		81337	6-1-7524-8
27	8		60847	0211-103AC8CX
27	9		96906	MS27130-38
28			81337	6-1-7523
28	1		96906	MS90725-3
28	2		96906	MS35338-44
28	3		96906	MS15795-810
28	4	6760-00-137-6137	93791	DLV20
28	5		96906	MS21316-15
28	6		81337	6-1-7523-9
28	7		96906	MS90725-6
28	8		81337	6-1-7523-2
28	9		81337	6-1-7523-3
28	10		96906	MS27130-33
29	1		96906	MS51861-45C
29	2		96906	MS21919-6
29	3		96906	MS21919-14
29	4		96906	MS35219-71
29	5		96906	MS35338-44
29	6		96906	MS27183-10
29	7		96906	MS90725-6
29	8		81337	6-1-7525-1
29	9	6240-01-212-5567	03699	100W, 1A
29	10		96906	MS27130-33
30			81337	1-6-6104
30	1		96906	MS90728-8
30	2		96906	MS35338-44
30	3		96906	MS15795-410
30	4		81337	1-6-6106
30	5		96906	MS21316-36
30	6		81337	1-6-6159
30	7		96906	MS90725-3
30	8		81337	1-6-6109
30	9		25472	13-40-XKN
30	10		96906	MS27130-33
30	11		96906	MS90726-109
30	12		96906	MS35338-48
30	13		96906	MS27183-18
30	14		96906	MS90725-6
30	15		81337	1-6-6108
30	16		96906	MS90725-18
30	17		81337	6-1-7547-6

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
30	18		96906	MS35649-2252
30	19		81860	T94AB110
30	20		96906	MS90725-58
30	21		96906	MS35338-46
30	22		96906	MS15795-412
30	23		81337	1-6-6105
30	24		96906	MS35190-271
30	25		96906	MS17828-3C
30	26		81337	1-6-6107
30	27		81860	T94AB110
31			81337	1-6-6115
31	1		96906	M24243/6-604H
31	2		81337	1-6-6120
31	3		96906	MS35492-52
31	4		81337	1-6-6118
31	5		81349	M24243/1-B404
31	6		81337	1-6-6119-2
31	7		81349	MIL-F-24243
31	8		96906	MS35492-50
31	9		81349	MIL-F-21840
31	10		81337	1-6-6119-3
31	11		81337	1-6-6119-1
31	12		96906	MS21316-23
31	13		81337	1-6-6160
31	14		96906	MS90725-34
31	15		96906	MS35338-45
31	16		96906	1MS15795-412
31	17		81337	1-6-6116
31	18		96906	1MS90726-60
31	19		96906	MS35338-46
31	20		96906	MS15795-412
31	21		81337	1-6-6117
31	22		96906	MS35207-265
31	23		96906	1MS35338-43
31	24		96906	MS15795-408
31	25		81337	1-6-6115-8
31	26		96906	MS27130-A27
31	27		96906	MS90725-5
31	28		96906	MS35338-44
31	29		96906	MS15795-410
31	30		81337	6X129-13-40-XKN
32			81337	1-6-6093
32	1		96906	MS51861-27
32	2		96906	MS25281-R6
32	3		96906	MS35206-251
32	4		96906	MS35335-31
32	5		96906	MS27183-6
32	6		81337	1-6-6158
32	7		96906	MS27130-A20
32	8		96906	MS21316-23
32	9		96906	MS35425-75

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
32	10		96906	MS35338-46
32	11		96906	MS27183-14
32	12		96906	MS35649-2382
32	13		81337	1-6-6157
32	14		96906	MS35191-273
32	15		96906	MS15795-408
32	16		96906	MS35338-43
32	17		96906	M5S35650-302
32	18		81337	1-6-6099
32	19		96906	MS35190-271
32	20		81337	1-6-6100
32	21		96906	MS27130-A14
32	22		96906	MS35492-274
32	23		81337	1-6-6098
32	24		96906	MS35492-276
32	25		81348	MM-L-736 TYPE 1, S25
32	26		96906	MS35492-253
32	27		81337	1-6-6097
32	28		96906	MS16187-31
32	29		96906	MS90725-18
32	30		81337	6-1-7547-6
32	31		96906	M515795-410
32	32		96906	MS35338-44
32	33		96906	MS35649-2252
32	34		81337	1-6-6096
32	35		96906	MS35207-265
32	36		81337	1-6-6095
32	37		96906	MS27130-A27
32	38		81349	M24243/6-606H
32	39		81337	1-6-6094
33	1	4210-00-889-2491	58536	A-A-393
33	2		96906	MS90725-17
33	3		81337	6-1-7547-5
33	4		96906	MS27183-10
33	5		96906	1MS35338-44
33	6		96906	MS35649-2252
33	7		93510	OMB5
34	1	6545-00-922-1200	19207	11677011
34	2		81349	MIL-F-21840 CL I I, TY I
34	3		81349	MIL-F-21840 CL I , TY II
34	4		96906	MS35191-274
34	5		96906	MS35338-43
34	6		96906	MS:15795-442
34	7		81337	5-13-4777
34	8		96906	MS20600-B6W3
35			81337	6-1-7540
35	1		81337	6-1-7541
35	2		81337	6-1-7541-1

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
35	3		96906	MS16535-116
35	4		71286	51L-1-1-AA
35	5		96906	5S51850-34
35	6		71286	51L71AA
35	7		96906	M5S9786-13
35	8		96906	MS35335-63
35	9		96906	MS27183-13
35	10		96906	MS90785-13
35	11		96906	MS35335-62
35	12		96906	MS27183-11
35	13		96906	MS35307-337
35	14		96906	MS27130-A45
35	15		81337	6-1-7540-5
35	16		96906	MS27130-50
35	17		81337	1-6-6162
35	18		96906	MS35307-319
35	19		96906	MS27183-9
35	20		96906	MS35335-61
35	21		96906	MS35649-2254
35	22		81337	6-1-7540-1
35	23		81337	6-1-7540-4
35	24		81337	6-1-7540-2
35	25		96906	MS20600-B4W3
35	26		81337	6-1-7540-6
36			81337	6-1-7544
36	1		96906	MS51861-45C
36	2		96906	MS21919-D12
36	3		81337	6-1-7544-1
37	1		81348	J-C-580ST6CK3/12
				TTJ
37	2		96906	MS3456W18-11S
37	3		74545	3331C
38			81337	6-1-7507
38	1		81337	6-1-7507-14
38	2		96906	MS20600-AD4W1
38	3		81337	6-1-7507-15
38	4		81337	6-1-7507-19
38	5		81337	6-1-7507-12
38	6		81337	6-1-7507-18
38	7		81337	6-1-7507-13
38	8		81337	6-1-7507-17
38	9		81337	6-1-7507-1
39	1	6350-00-383-1189	19557	340-4N5
39	2		96906	MS24629-50
39	3	5930-01-212-9579	1G601	1785
39	4		96906	MS51861-65
39	5		96906	MS35338-44
39	6		96906	27183-10
39	7		96906	MS51861-240
39	8		81337	6-1-7532-6
39	9		81337	6-1-7532-19

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
39	10		81337	6-1-7532-8
40			81337	6-1-7508
40	1		81349	MIL-R-24243
40	2		81337	6-1-7508-2
40	3		81337	6-1-7508-3
40	4		81349	MIL-R-24243
40	5		14608	15642S
40	6		81337	6-1-7508-18
40	7		96906	MS35207-262
40	8		96906	MS35338-32
40	9		14608	1570
40	10		81349	MIL-R-24243
40	11		81337	6-1-7508-1
40	12		81337	6-1-7508-16
40	13		81337	6-1-7508-17
40	14		81337	6-1-7508-14
41	1	5940-00-937-5237	81349	PB0SNA01
41	2		96906	MS51861-24C
41	3		81337	6-1-7502-4
41	4		96906	MS20600-B6W4
41	5		81337	6-1-7532-7
41	6		81337	6-1-7532-3
42			81337	6-1-5859
42	1		96906	MS35206-247
42	2		96906	MS35649-282
42	3		96906	MS35338-42
42	4		85002	42-313
42	5		96906	MS51861-24
42	6		96906	MS35338-41
42	7		81337	6-1-5859-2
42	8		96906	MS20600-B6W4
42	9		81337	6-1-5859-1
43	1		22585	MX3319G
43	2		96906	MS90725-11
43	3		96906	MS35338-44
43	4		81337	6-1-5878-3
43	5		96906	MS27130-A28
43	6		96906	MS35191-272
43	7		76786	662R1
43	8		81337	6-1-5877-1
43	9		81337	6-1-5877-2
43	10		96906	MS27130-A33
43	11		96906	MS90725-17
43	12		96906	MS35338-44
43	13		96906	MS35649-2252
43	14		81337	6-1-5878-1
43	15		81337	6-1-5878-2
44		6150-01-326-6572	81337	5-4-6728
44	1		49367	ZZM-16-23S
44	2		49367	ZZM-WB-1516
44	3		49367	ZZM-W-2016-2050



## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
44	4		81349	MIL-C-3432
44	5		49367	ZZM-WB-1116
44	6		49367	ZZM-16-23P
45		6150-01-326-6573	81337	5-4-6727
45	1		49367	ZZM-16-23S
45	2		49367	ZZM-WB-1516
45	3		49367	ZZM-W-2016-2050
45	4		81349	MIL-C-3432
46	1		96906	MS35214-59
46	2		96906	MS35649-202
46	3		96906	MS35338-100
46	4		96906	M515795-907
46	5		49369	ZZM-W-2116
46	6		49369	ZZM-WB-1016
46	7		49369	ZZM-16-23P
46	8		96906	MS20600-B6W4
46	9		81337	6-1-7502-1
46	10		96906	M551861-24
46	11		81337	6-1-7502-2
47	1		30086	SU-150
47	2		30086	ITE-B150
47	3	5925-01-107-8786	30086	Q115
47	4	5925-00-878-4077	30086	Q120
47	5		03350	SP-145
47	6		03350	PES-6
47	7		83879	7-150T
47	8		94222	38-104-05-13
48	1	6240-00-152-2982	08108	F15T8/CW
48	2	6250-00-299-2884	04655	FS2
48	3		11855	20A-10
48	4	5940-01-069-8914	30119	78B
48	5		96906	MS20600-B6W5
49	1		79725	G-3040CE
49	2	5930-01-233-8370	74545	1221PL
49	3		74545	97071
49	4	5930-00-051-4448	81348	WS896/2-03A
50	1		79725	G3046B
50	2		81348	WC596/12-4
50	3		03350	G3033J
50	4		81348	WC596/41-2
50	5		74545	97101
50	6		74545	91091
50	7		74545	5861
50	8		04009	5737
51	1		79725	BB125
51	2		79725	PES-5
51	3		79725	2110A
51	4		79725	200
51	5		79725	211
51	6		79725	G3000C
51	7		96906	MS20600-AD6W3

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
51	8		79725	G3000B
51	9		79725	2115
51	10		79725	G3017
51	11		79725	2100
51	12		79725	5747-2
51	13		79725	G3011
51	14		79725	G3010B
51	15		79725	G3086
52	1		81349	THW06CF1/14TUJ0
52	2		81349	THW06CF1/14TUJ9
52	3		81349	THW06CF1/12TUJ0
52	4		81349	THW06CF1/12TUJ9
52	5		81349	THW06CF1/12TUJ5
52	6		81349	THW06CF1/10TUJ5
52	7		81349	THW06CF1/10TUJ9
52	8		81349	THW06CF1/10TUJ0
53			81337	6-1-7529
53	1	3610-01-314-1096	94767	PRODUCTION OUTFIT
53	2		96906	MS35207-267
53	3		96906	MS35338-43
53	4		81337	6-1-7529-2
53	5		81337	6-1-7529-1
53	6		81337	6-1-7529-4
53	7		81337	6-1-7529-3
53	8		96906	MS27130-27
53	9		96906	MS35191-274
53	10		76786	662R1
53	11		81337	6-1-5877-1
53	12		81337	6-1-5877-2
53	13		96906	MS27130-28
54			81337	6-1-7542
54	1		96906	MS90725-3
54	2	1095-00-763-7348	19207	11630529
54	3		96906	MS27183-10
54	4		96906	MS35338-10
54	5		96906	MS35649-2252
54	6		96906	MS90728-8
54	7		81337	6-1-7542-1
54	8		81337	6-1-7542-2
54	9		03481	A25K40
55			81337	6-1-7543
55	1		96906	MS35425-70
55	2		96906	MS35338-44
55	3		96906	MS27183-10
55	4		81337	6-1-7543-2
55	5		81337	6-1-7543-8
55	6		96906	MS35190-287
55	7		81337	6-1-7543-5
55	8		81337	6-1-7543-4
55	9		96906	MS35191-291

## CROSS-REFERENCE INDEXES

## NATIONAL STOCK NUMBER INDEX

## FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
55	10		81337	6-1-7543-1
55	11		81337	6-1-7543-6
55	12		81337	6-1-7543-7
55	13		96906	MS20470-AD6-8
55	14		81337	6-1-7543-3
55	15		96906	MS27130-40
56			81337	6-1-7503
56	1		96906	MS35649-2252
56	2		96906	MS35338-44
56	3		96906	MS15795-809
56	4		81337	6-1-7547-6
56	5		96906	MS35309-18
56	6		02959	20430
56	7		96906	MS20600-AD6W3
56	8		02959	1100-H14
56	9		00807	C06195
56	10		81337	6-1-7503-27
56	11		96906	MS51863-34C
57		3610-01-311-6905	81337	6-1-7504
57	1		96906	M551960-61
57	2		96906	MS15795-904
57	3		81337	6-1-7504-2
57	4		81337	6-1-7504
57	5		25934	A221
57	6		81337	6-1-7504-6
57	7		96906	MS20600-AD4W4
57	8		81337	6-1-7503-16
57	9		81337	6-1-7503-10
57	10		75349	1034
57	11		75349	9406
57	12		96906	MS51862-14C
57	13		75349	9046
57	14		81860	XB78322
57	15		81349	MILF21840 TYPEII CL-1, BLK
57	16		25934	S212
58	1		81348	AAS700TYPE2SIZE1
58	2		96906	MS35191-274
58	3		76786	662R1
58	4		81337	6-1-5877-1
58	5		81337	6-1-5877-3
58	6		96906	MS27130-28
59	1		81348	AA-C-291TY1CL1ST 4
59	2		96906	MS35191-274
59	3		76786	662R1
59	4		81337	6-1-5877-3
59	5		81337	6-1-5877-1

Change 2 F-163/(F-164 blank)

**APPENDIX G**

**ILLUSTRATED LIST OF MANUFACTURED ITEMS**

There are no manufactured parts listed for the Finishing Section.

By Order of the Secretary of the Army:

Official:


**THOMAS F. SIKORA**  
*Brigadier General, United States Army*  
*The Adjutant General*

**CARL E. VUONO**  
*General, United States Army*  
*Chief of Staff*

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## The Metric System and Equivalents

### *Linear Measure*

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

### *Weights*

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 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 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### *Square Measure*

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

### *Cubic Measure*

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

### Approximate Conversion Factors

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

### Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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**PIN: 045060-000**