

**TECHNICAL MANUAL**

**OPERATOR'S/, ORGANIZATIONAL, DIRECT SUPPORT,  
AND GENERAL SUPPORT MAINTENANCE MANUAL**

**(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)**

**FOR**

**REPAIR PARTS STOWAGE FACILITIES**

**AN/USM-378 NSN 5410-00-169-5113**

**AN/USM-379 NSN 5410-00-169-5114**

**AND**

**AN/USM-380 NSN 5410-00-169-5115**

**This publication is not available through AG Publications Center.  
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Readiness Activity, Vint Hill Farms Station, Warrenton, VA 22186.**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY  
NOVEMBER 1980**

**WARNING**

**DANGEROUS VOLTAGE**  
is present in the electrical circuits.

**DEATH ON CONTACT**

may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.

**WARNING**

**TRICHLOROETHANE FUMES ARE TOXIC.**

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

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**CURRENT AS OF 7 JUNE 1979**

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 AND GENERAL SUPPORT MAINTENANCE MANUAL  
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**FOR**

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**AN/USM-378  
 NSN 54104)0-169-113  
 AN/USM-379  
 NSN 5410-00-169-5114  
 AND AN/USM-380  
 NSN 5410-00-1695115**

**Current as of 7 June 1979**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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

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## SAFETY SUMMARY

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

### KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must at all times observe all safety regulations. Do not replace electrical components or make electrical repairs or adjustments with the power on.

### DO NOT SERVICE OR ADJUST ALONE

Under no circumstances should any person replace electrical components or make electrical repairs or adjustments except in the presence of someone who is capable of rendering aid.

### RESUSCITATION

Personnel working with or near electrical circuits should be familiar with modern methods of resuscitation.

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

#### WARNING

**The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR AN OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas (page 5-10).**

#### WARNING

**Dangerous voltage is present in the electrical circuits. Death on contact may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs (pages 5-10, 5-11, and 5-13).**

#### CAUTION

**Do not paint the typewriter, plastic surfaces, or electrical switches and contacts (page 4-1/5-1).**

## CHAPTER 1

## INTRODUCTION

## Section I. GENERAL

**1-1 SCOPE.** This manual provides operator/crew, organizational, direct support, and general support instructions for the installation and maintenance of Repair Parts Stowage Facilities AN/USM-378, AN/USM-379, and AN/USM-380 (RPSF) (figure 1-1). A repair parts list is also included.

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

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

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

**1-5 CALIBRATION.** No calibration of the equipment in this group is required.

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

## Section II. DESCRIPTION AND DATA

**1-7 PURPOSE AND USE.** The repair parts stowage facilities (RPSF) provides drawer, shelf and cabinet storage within a watertight, portable shelter. The storage facilities are designed to store electrical, electronics and communications maintenance repair parts and equipment. The shelter is designed for air, rail, or vehicle transport. It may be installed as a single fixed ground unit, mounted on a vehicle, or combined with other shelter facilities. The RPSF is normally part of Mobile Operations and Electrical Facility AN/MSA-34 (MOEF), a generator power equipped trailer with three shelters. The MOEF is normally used as part of an operational unit, transportable system (OUTS), a large communication complex consisting of seven MOEF's as shown in figure 1-2.

**1-8 DESCRIPTION.**

*a. General.* Repair Parts Stowage Facilities AN/USM378, AN/USM-379, and AN/USM-380, are portable shelters containing storage racks, cabinets, drawers, and a work console. These items are mounted to the shelter ceiling and floor and are fitted for mobility tiedown (figures 1-3, 1-4, 1-5, and 1-6).

*b. Electrical Equipment Shelter S-389/MSA-34 (modified).* The portable shelter is a standard Electrical Equipment Shelter S-389/MSA-34 with two modifications. Mounting hardware to secure the equipment is added. Two overhead light wall switches are removed and the lights are rewired directly to the LIGHTS circuit breaker.

The shelter is a rectangular unit constructed of aluminum sheets that form a double hollow-core wall filled with polyurethane insulation. Of four removable panels, two are blank and two (one end and one side) have a door. For a complete description of the shelter, refer to TM 32-5410-21714&P.

*c. Drawer Storage Rack MT-1579/G.* The drawer storage rack has two storage cabinets, five 3-1/2 inch high drawers, and three 7 inch high drawers.

*d. Shelf Storage Rack MT-1579/G.* The shelf storage rack has four adjustable shelves.

*e. Cabinet Safe CY4842/G.* The cabinet safe has a full length door and inside shelving.

*f. Work Console.* The work console has an upper and lower cabinet, a work surface, tack-board, light unit, and convenience receptacle. A typewriter and equipment tray is mounted on the work surface. A pencil sharpener is mounted on the right side of the upper cabinet.

*g. Rotary Chair.* The chair is a rotary type with a tiedown assembly.

*h. Fire Extinguisher MIL-B-52031.* A portable fire extinguisher is mounted in a quick-release bracket on the shelter ceiling.

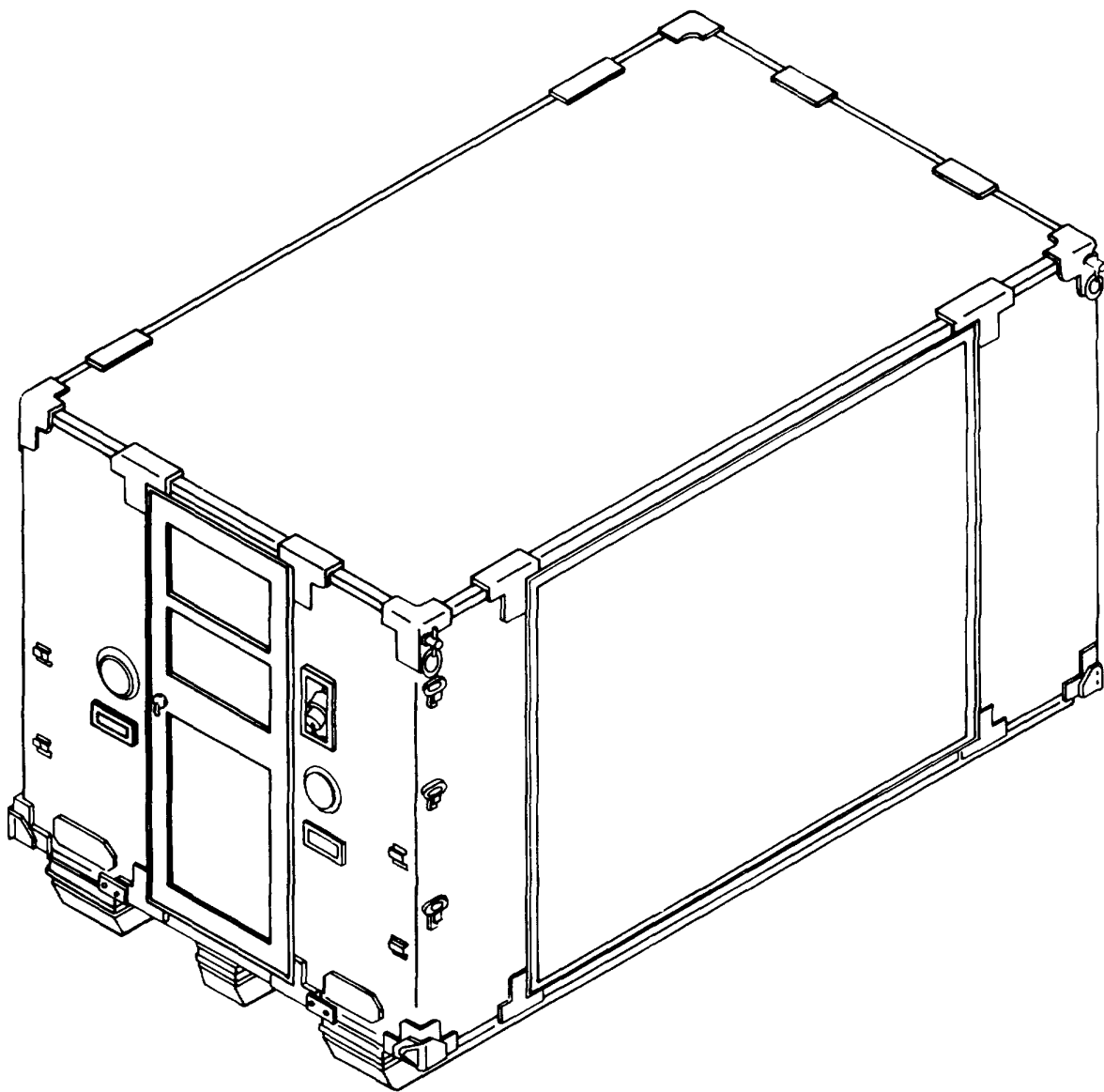
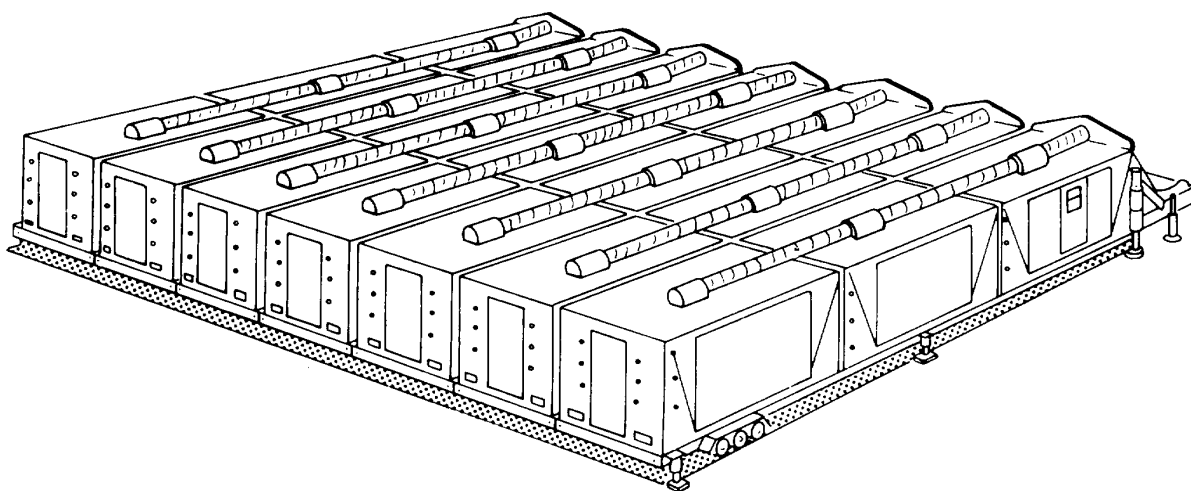
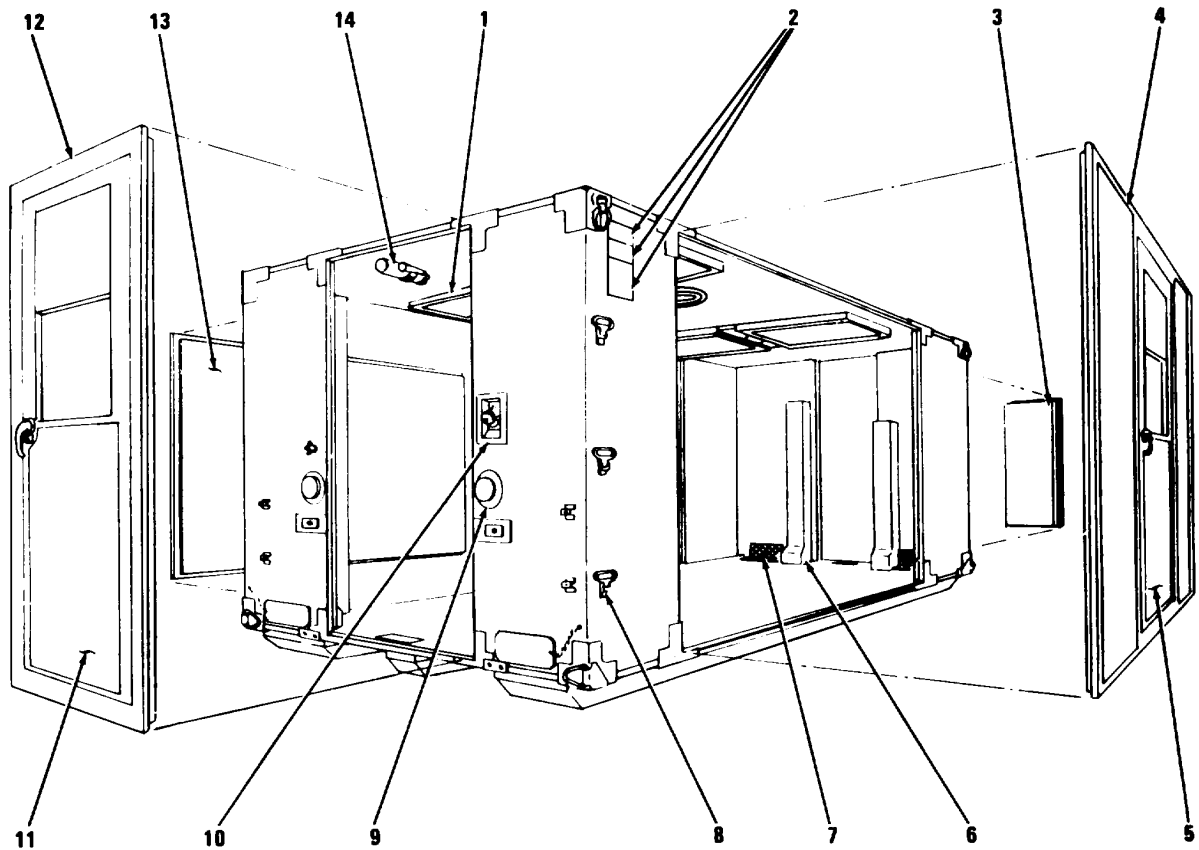


Figure 1-1. Repair Parts Stowage Facility AN/USM-3 78, AN/USM-3 79 ad AN/USM-380, Exterior View



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*Figure 1-2. Single Shelter Units Interconnected to Form a Large Communications Complex*



- 1. FLUORESCENT LIGHT UNIT
- 2. NAME PLATES
- 3. BLANK TYPE END PANEL
- 4. DOOR TYPE SIDE PANEL
- 5. LARGE DOOR ASSEMBLY

- 6. ELECTRICAL DUCT
- 7. AIR REGISTER
- 8. STEP
- 9. CABLING ACCESS CAP
- 10. MAIN POWER RECEPTACLE

- 11. SMALL DOOR ASSEMBLY
- 12. DOOR TYPE END PANEL
- 13. BLANK TYPE SIDE PANEL
- 14. FIRE EXTINGUISHER

Figure 1-3. Shelter, Main Component Identification

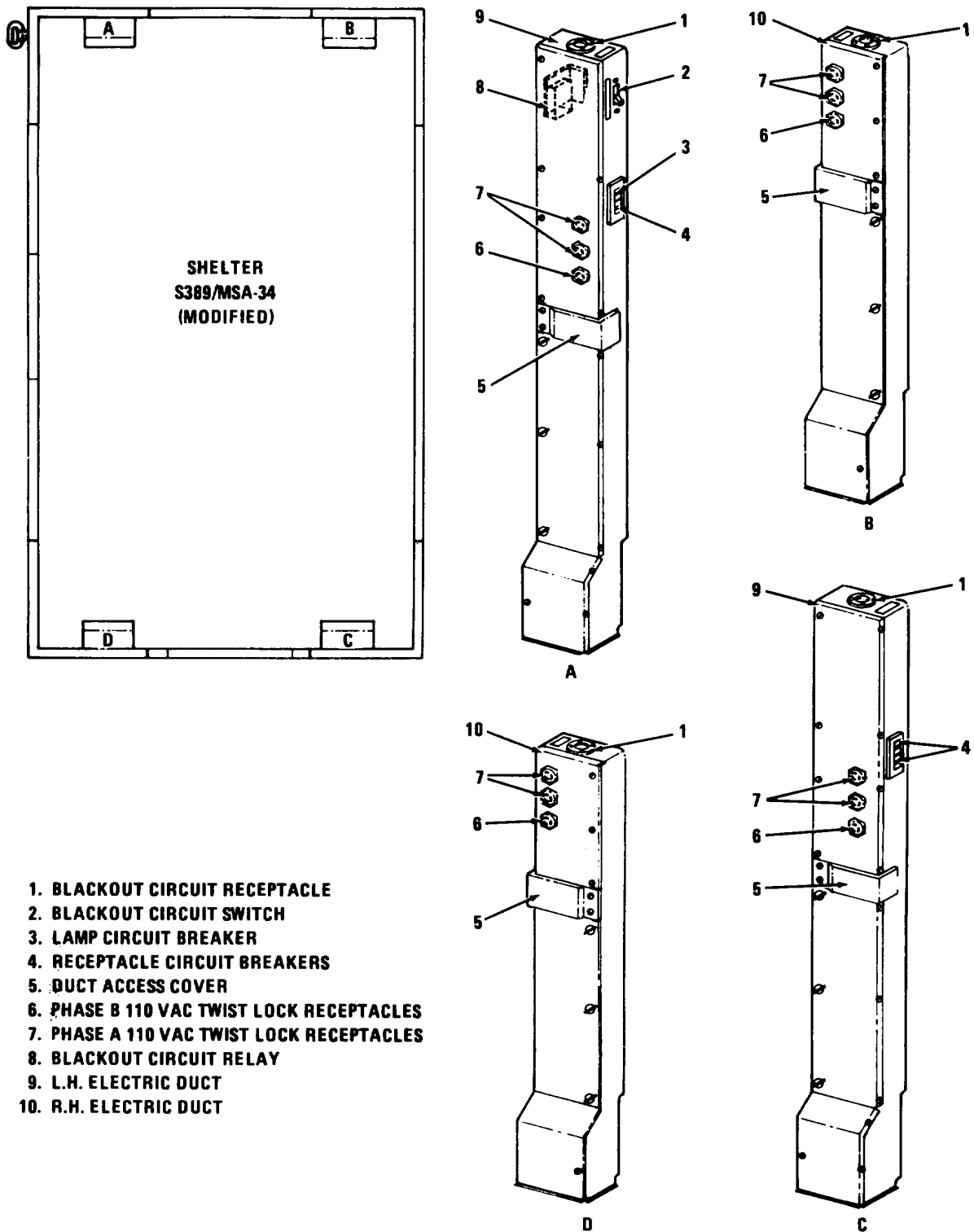
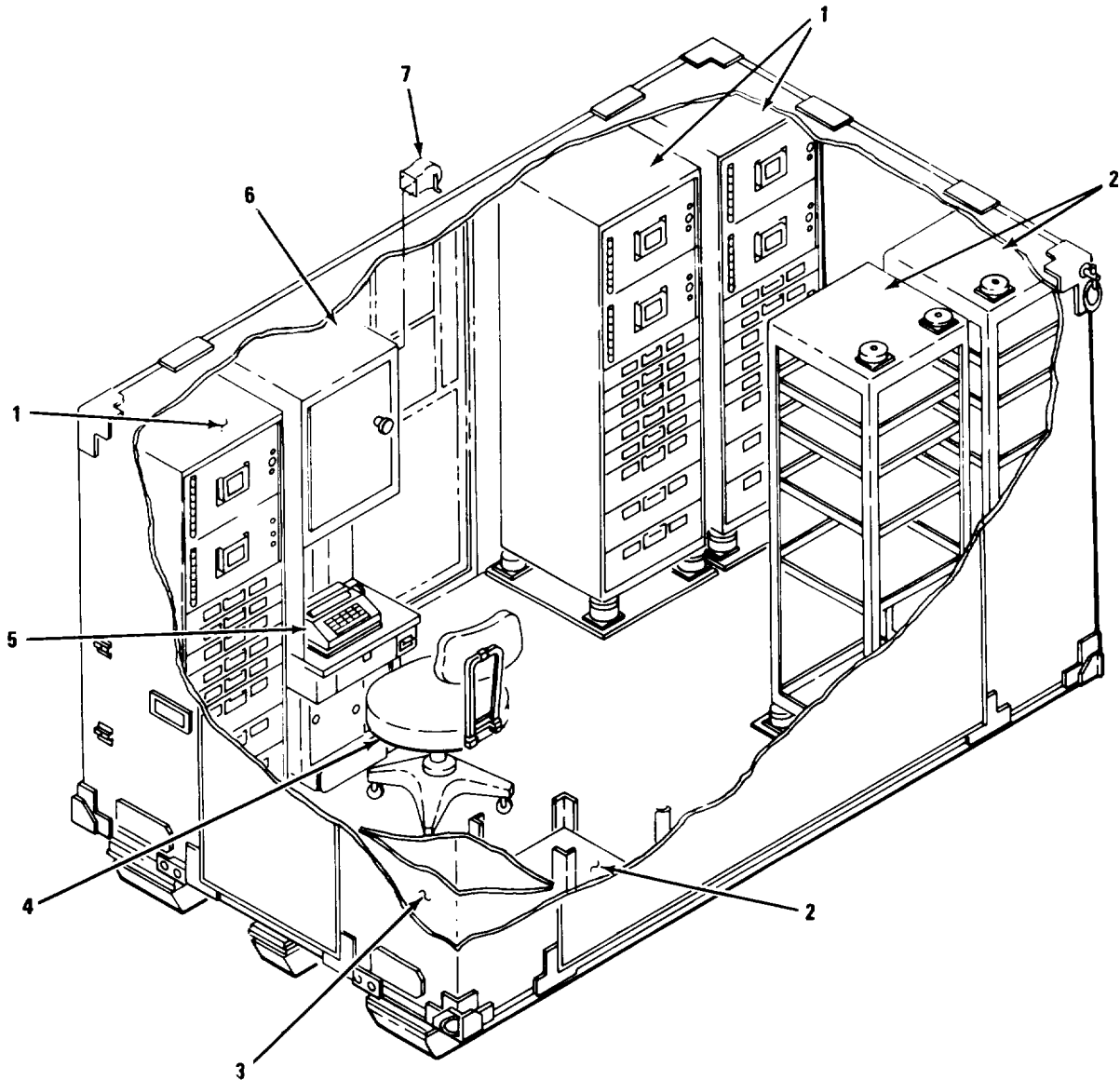
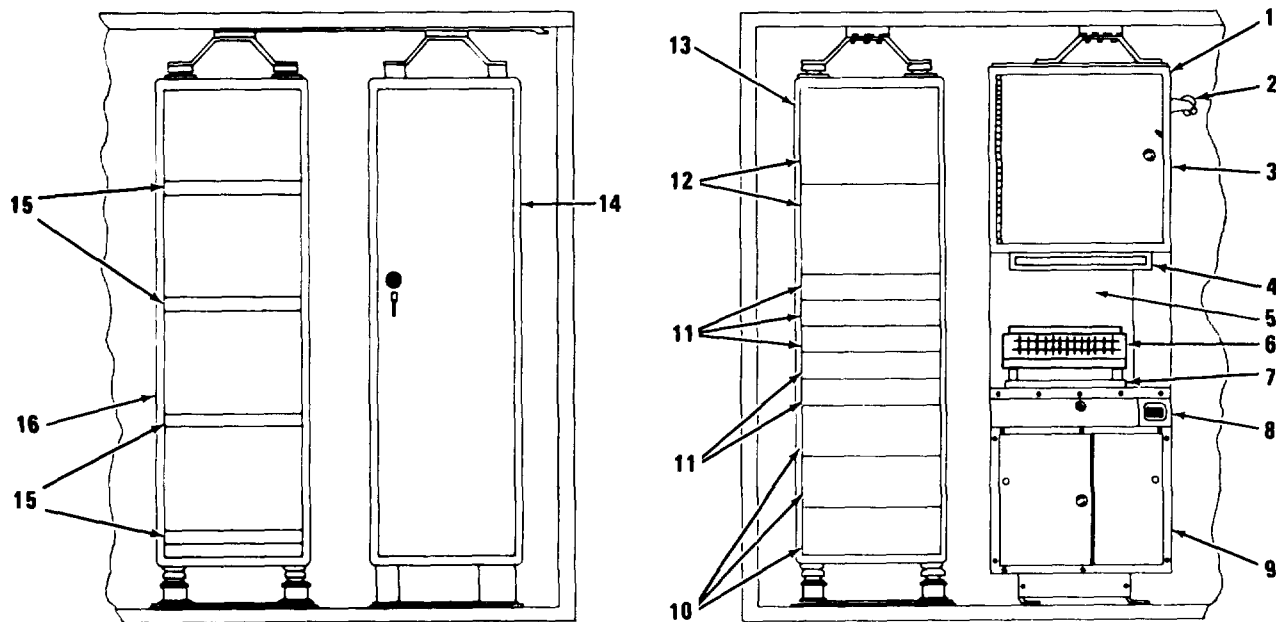


Figure 1-4. Shelter Electrical Cable Duct and Component Identification



- |                        |                     |
|------------------------|---------------------|
| 1. DRAWER STORAGE RACK | 5. TYPEWRITER       |
| 2. SHELF STORAGE RACK  | 6. WORK CONSOLE     |
| 3. MODIFIED SAFE       | 7. PENCIL SHARPENER |
| 4. ROTARY CHAIR        |                     |

Figure 1-5. Repair Parts Stowage Facility, Interior View, Typical



**A – VIEW OF SHELF STORAGE RACK AND ALTERED SAFE**

**B – VIEW OF WORK CONSOLE AND DRAWER STORAGE RACK**

- |                            |                                  |                                    |
|----------------------------|----------------------------------|------------------------------------|
| <b>1. WORK CONSOLE</b>     | <b>6. TYPEWRITER</b>             | <b>11. 3.5-INCH STORAGE DRAWER</b> |
| <b>2. PENCIL SHARPENER</b> | <b>7. EQUIPMENT TRAY</b>         | <b>12. STORAGE CABINET</b>         |
| <b>3. UPPER CABINET</b>    | <b>8. WORK SURFACE ASSEMBLY</b>  | <b>13. DRAWER STORAGE RACK</b>     |
| <b>4. LIGHT UNIT</b>       | <b>9. LOWER CABINET</b>          | <b>14. ALTERED SAFE</b>            |
| <b>5. TACK BOARD</b>       | <b>10. 7-INCH STORAGE DRAWER</b> | <b>15. SHELF</b>                   |
|                            |                                  | <b>16. SHELF STORAGE RACK</b>      |

Figure 1-6. Equipment and Component Identification

*i. Additional Authorized Equipment.* The equipment in table 1-1 may be used for auxiliary purposes as shown in the Use column of the table. Refer to Appendix C for authorization. For a complete description of the equipment, refer to the applicable manual listed in Appendix A.

**1-9 DIFFERENCES BETWEEN MODELS.** Table 1-2 lists components for each RPSF. Figure 1-7 illustrates component layout within each RPSF.

**1-10 TABULATED DATA.** Weight and dimensions are listed in tables 1-3 through 1-5.

*a. RPSF Electrical Characteristics.*

Power requirements.....208 Vac, 60 Hz  
3 Phase, 30 kW

*b. RPSF. External Dimensions and Weight.*

Height.....88 inches  
Depth.....148 inches  
Width.....90 inches  
Weight (approximate) .....3500 lbs.

**1-11 ITEMS COMPRISING AN OPERABLE EQUIPMENT.** Components comprising operable equipment AN/USM-378, AN/USM-379 and AN/USM-380 are listed in tables 1-3, 1-4, and 1-5 and in Appendix B of this manual.

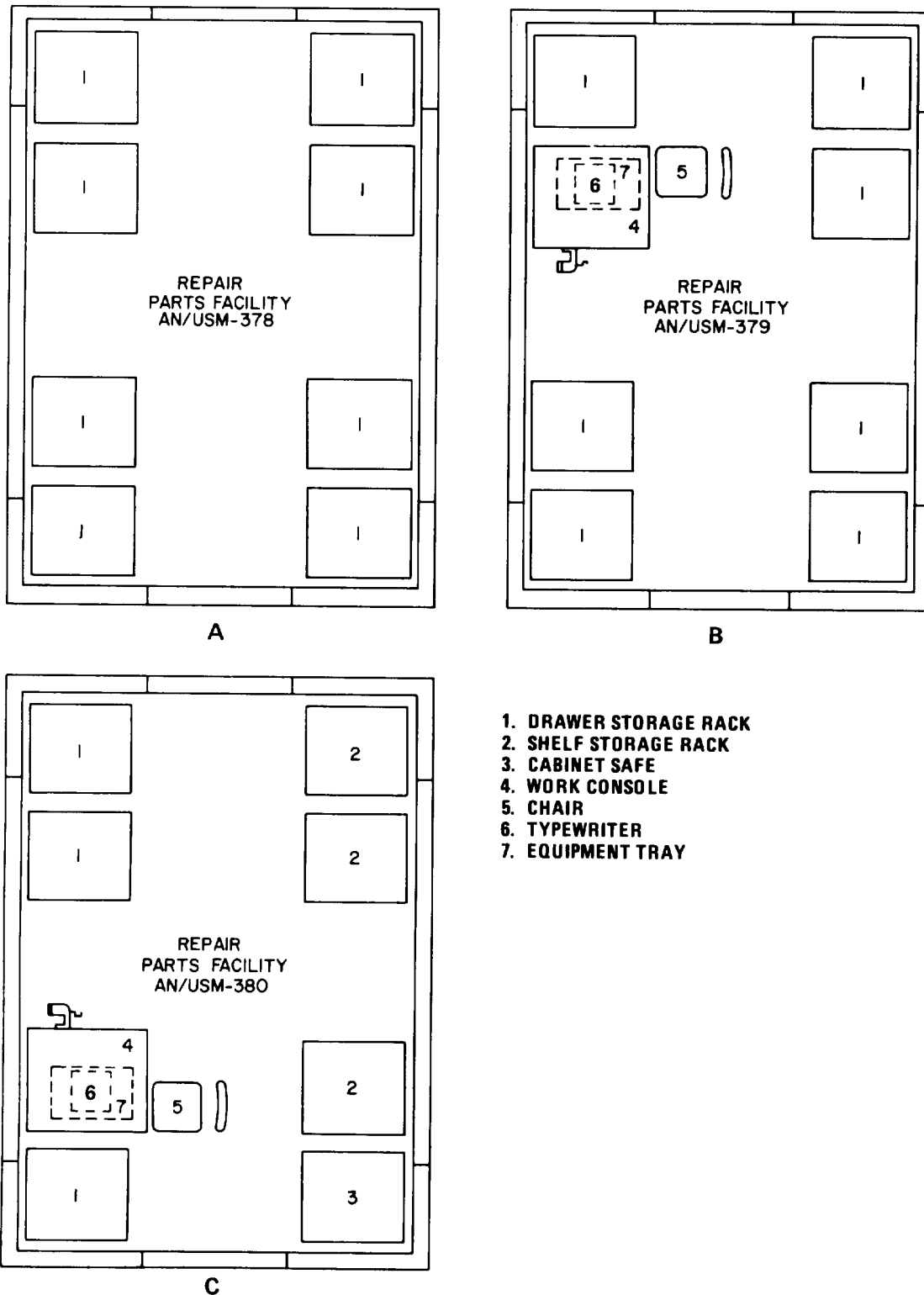


Table 1-1. Additional Authorized Equipment

Quantity	Item	Use
1	Air conditioner	Independently heat and cool shelter
1	Remote display	Remote display of OUTS central clock unit
1	Electric generator	Power source for independent operation
1	Kit, air conditioner mounting	Mount air conditioner
1	Kit, ground rod	Ground shelter
1	Kit, walkway	Access to shelter

Table 1-2. Components of Repair Parts Stowage Facilities

Component	Quantity		
	AN/USM-378	AN/USM-379	AN/USM-380
Electrical Equipment Shelter S-389/MSA-34 (modified)	1	1	1
Work console	0	1	1
Each consisting of:			
Cabinet base assembly	0	1	1
Lower cabinet	0	1	1
Work surface	0	1	1
Tack-board	0	1	1
Electrical duct extension	0	1	1
Console light unit	0	1	1
Upper cabinet	0	1	1
Rotary chair	0	1	1
Cabinet Safe CY-4842/G	0	0	1
Drawer Storage Rack MT-1579/G	8	7	3
Consisting of:			
Storage Cabinet CY-6154/G	16	14	6
Divided storage drawer, 3.5-inch	40	35	15
Divided storage drawer, 7-inch	24	21	9
Shelf Storage Rack MT-1579/G	0	0	3
Consisting of:			
Electrical Equipment Shelf MT-1582/G	0	0	12
Typewriter, Model 440	0	1	1
Equipment tray	0	1	1
Cable Assembly 0283-1-2226-1	1	1	1
Fire Extinguisher w/bracket MIL-B-52031	1	1	1
Pencil sharpener	0	1	1



- 1. DRAWER STORAGE RACK
- 2. SHELF STORAGE RACK
- 3. CABINET SAFE
- 4. WORK CONSOLE
- 5. CHAIR
- 6. TYPEWRITER
- 7. EQUIPMENT TRAY

Figure 1-7. Repair Parts Stowage Facilities, Component Layout

Table 1-3. Items Comprising An Operable Repair Parts Stowage Facility AN/USM-378

NSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lb.)
4210-00-555-8837	Electrical Equipment Shelter S-389/MSA-34 (modified)	1	88	148	90	3500 (approx)
	Drawer Storage Rack MT-1579/G	8	66	24	20	
	Cable Assembly 0283-1-2226-1	1				
	Fire Extinguisher w/bracket MIL-B-52031	1				

Table 1-4. Items Comprising An Operable Repair Parts Stowage Facility AN/USM-379

NSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lb.)
4210-00-555-8837	Electrical Equipment Shelter S-389/MSA-34 (modified)	1	88	148	90	3500 (approx)
	Drawer Storage Rack MT-1579/G	7	66	24	20	
	Work console	1	68	26.5	24	
	Rotary chair	1				
	Pencil sharpener	1				
	Typewriter	1				
	Equipment tray	1				
	Cable Assembly 0283-1-2226-1	1				
	Fire Extinguisher w/bracket MIL-B-52031	1				

Table 1-5. Items Comprising An Operable Repair Parts Stowage Facility AN/USM-380

NSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lb.)
	Electrical Equipment Shelter S-389/MSA-34 (modified)	1	88	148	90	3500 (approx)
	Drawer Storage Rack MT-1579/G	3	66	24	20	

Table 1-5. Items Comprising An Operable Repair Parts Stowage Facility AN/USM-380 - Continued

NSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lb.)
4210-00-555-8837	Shelf Storage Rack MT-1579/G	3	66	24	20	
	Work console	1	68	26.5	24	
	Altered safe	1	66	24	20	
	Rotary chair	1				
	Pencil sharpener	1				
	Typewriter	1				
	Equipment tray	1				
	Cable Assembly 0283-1-2226-1	1				
	Fire Extinguisher w/bracket MIL-B-52031	1				

CHAPTER 2

SERVICE UPON RECEIPT AND INSTALLATION

---

Section I. SYSTEMS PLANNING

**2-1 SCOPE.** Refer to TM 32-5811-021-14 when the repair parts storage facilities (RPSF) are used in the

operational unit, transportable system (OUTS).

Section II. SITE AND SHELTER REQUIREMENTS

**2-2 SITING.**

*a. Ground Installation.* Refer to TM 32-5410-217-14&P when the RPSF is installed on the ground.

*b. Vehicle Installation.* Refer to TM 32-9999-200-15-1 when the RPSF is installed on Mobile Operations and Electrical Facility AN/MSA-34.

*c. OUTS Installation.* Refer to TM 32-5811-021-14 when the RPSF is installed in the OUTS.

Section III. SERVICE UPON RECEIPT OF MATERIEL

**2-3 UNPACKING.** The RPSF is shipped fully assembled. Remove all waterproof, self-adhesive tape from shelter exterior openings. Open shelter to air it out.

**2-4 CHECKING UNPACKED EQUIPMENT.**

*a.* Inspect the equipment for damage during shipment. If the equipment has been damaged, report the damage on SF Form 364, Report of Deficiency (ROD).

*b.* Check the equipment received against the component listing (table 1-2) and the packing slip. Report all discrepancies on SF Form 364.

**NOTE**

**Equipment will be reported not ready only if components affecting safety or operation are missing.**

*c.* Inspect the equipment for modifications. Modified equipment will have the MWO number on the nomenclature plate. Also inspect for application of current MWO's. (Current MWO's applicable to the equipment are listed in DA PAM 310-7.)

**Section IV. INSTALLATION INSTRUCTIONS**

**2-5 TOOLS, TEST EQUIPMENT AND MATERIALS REQUIRED FOR INSTALLATION.** Refer to table 2-1 for tools required. There are no special tools, test equipment or materials required. Refer to TM 32-5410-217-14&P for tools, test equipment and materials required to install the RPSF on vehicles.

**2-6 INSTALLATION AND CONNECTIONS.** Installation of the RPSF is limited to ground or vehicular mounting and connecting the additional equipment required for operation. Refer to TM 32-5410-217-14&P for shelter installation, cabling and wiring interconnections.

*Table 2-1. Installation Tools*

Item	Purpose	Applicable publication
Tool Kit, Electronic Equipment TK-100/G	As required for installation	SC 5180-91-CL-S21
Tool Kit, Electronic Equipment TK-105/G	As required for installation	SC 5180-91-CL-R07
Multimeter AN/USM-223	Test electrical circuits	TM 11-6625-654-14

**Section V. PRELIMINARY ADJUSTMENT OF EQUIPMENT**

**2-7 EXTENT OF PRELIMINARY CHECKS AND ADJUSTMENTS.** Refer to TM 32-5410-217-14&P for preliminary adjustments of the shelter. Preliminary

adjustment of the equipment is limited to release of tiedowns (paragraph 3-2).

**Section VI. INSTALLATION AND CIRCUIT LINEUP**

Not applicable

**CHAPTER 3**  
**OPERATING INSTRUCTIONS**

**Section I. CONTROLS AND INSTRUMENTS**

**3-1 OPERATOR/CREW CONTROLS.** Table 3-1 lists the electrical controls for the RPSF. Refer to TM 32-

5410-217-14&P for a complete description of the shelter controls.

<i>Table 3-1. Electrical Controls</i>			
<b>Control</b>	<b>Figure</b>	<b>Description</b>	<b>Function</b>
Ceiling lights	3, figure 1-4	ON/OFF circuit breaker	Controls phase A power to ceiling lights. Provides circuit overload protection.
Blackout circuit	2, figure 1-4	ON/OFF switch	Controls blackout circuit.
Blackout	1, figure 1-4	Receptacle	Provides for blackout actuator cable input.
Blackout	8, figure 1-4	Circuit relay	ON position permits interlock switch to control shelter light circuit. OFF position will bypass interlock switch.
Blackout	figure 6-1	Door switch	Activates blackout light when door is opened.
Phase A	4, figure 1-4	Circuit breaker	Controls power to phase A receptacles. Provides circuit overload protection.
Phase A	7, figure 1-4	Receptacle	Provides phase A power to external circuits.
Phase B	4, figure 1-4	Circuit breaker	Controls power to phase B receptacles. Provides circuit overload protection.
Phase B	6, figure 1-4	Receptacle	Provides phase B power to external circuits.
Phase C	4, figure 1-4	Circuit breaker	Controls power to phase C receptacles. Provides circuit overload protection.
Phase C	figure 6-1	Receptacle	Provides phase C power to external circuits.
Work console	19, figure E-7	Plug	Controls power to work console circuit.
Work console circuit	30, figure E-7	Receptacle	Provides power to external circuits.
Work console, light unit	9, figure E-9	ON/OFF switch	Controls power to work console light unit.

## Section II. OPERATION UNDER USUAL CONDITIONS

**3-2 INITIAL ADJUSTMENTS.** Perform the procedures below to prepare for operational use.

*a. Chairs.* See figure 3-1. Each chair has a spring-loaded tiedown assembly at the bottom of the seat-adjusting stem. The assembly fits into a keyslot in the shelter floor. Release chair tiedown assembly as follows:

(1) Loosen seat height adjusting collar setscrew. Turn seat height adjusting stem counterclockwise until chair base swivels freely on floor.

(2) Depress floor socket cover and pull tiedown pin out of keyslot. When released, the floor socket cover will return flush with the floor. The tiedown pin will spring up into the tiedown housing. The chair is now released and can be adjusted to desired height.

*b. Drawers.* Each console work surface drawer has a key lock. Unlock each drawer with the key provided.

*c. Sliding Doors.* The work console lower cabinet sliding door assembly has a door latch to prevent movement during transit. Release the latch as follows:

(1) Turn black knob at center of doors counterclockwise until it hits the stop.

(2) Pull knob outward and slide doors open.

*d. Equipment Tray Assembly.* See figure 3-2. The equipment tray assembly has a tiedown built into the mounting hardware. Release the equipment tray assembly from its tiedown position by turning the two knurled barrels counterclockwise until the spring tension is released and the barrels are free turning.

*e. Equipment Tray Modification.* See figure 3-2. Mounting the typewriter or other equipment on the equipment tray may require additional mounting holes. If required, proceed as follows:

(1) Remove equipment tray assembly from work surface assembly (paragraph 5-22a).

(2) Center item to be mounted on equipment tray and mark new mounting hole locations on equipment tray. The foot rest retaining screws (5) will be used to mount the equipment.

(3) Drill and deburr new equipment tray mounting holes slightly larger than equipment foot rest retaining screws.

(4) Remove equipment foot rest (2), retaining screws and flat washers (4).

(5) Position equipment and foot rest to new

equipment tray mounting holes. Secure with equipment foot rest retaining screws and flat washers.

(6) Reinstall equipment tray assembly on work surface assembly (paragraph 5-22b).

**3-3 OPERATING PROCEDURE.** The using unit operates the RPSF in accordance with local unit directives. Operation of equipment within the RPSF is as follows:

*a. Adjustable Shelf Rearrangement.*

(1) Open cabinet doors (sliding or hinged type).

(2) Pull out spring loaded plunger, located directly behind front edge, on each side of shelf.

(3) Slide shelf forward to clear rear corner brackets.

(4) Fit shelf in rear corner brackets at desired height.

(5) While holding spring loaded plungers out, align them with proper holes in front corner brackets.

(6) Release spring loaded plungers and seat properly in holes.

*b. Sliding Doors.* Each cabinet with sliding doors has a door latch. See paragraph 3-5c for the procedure for preparing the door latch for transit. See paragraph 3-2c for the procedure for releasing the door latch after it has been locked for transit. The procedure for normal use is:

(1) Pull on black knob at center of door.

(2) Slide door open.

(3) To close, slide door closed until the latch engages.

*c. Work Surface Drawer.* Each work console has a drawer located below the work surface. Stops built into the door slides prevent accidental removal of the drawer during normal operation. To remove and reinstall the drawer, proceed as follows:

(1) Pull drawer out to slide stops.

(2) Depress slide stops on both sides of drawer and remove drawer.

(3) To reinstall drawer, align drawer slide rollers with table extension slides and push drawer into place.

*d. Typewriter.* Refer to the commercial manual.



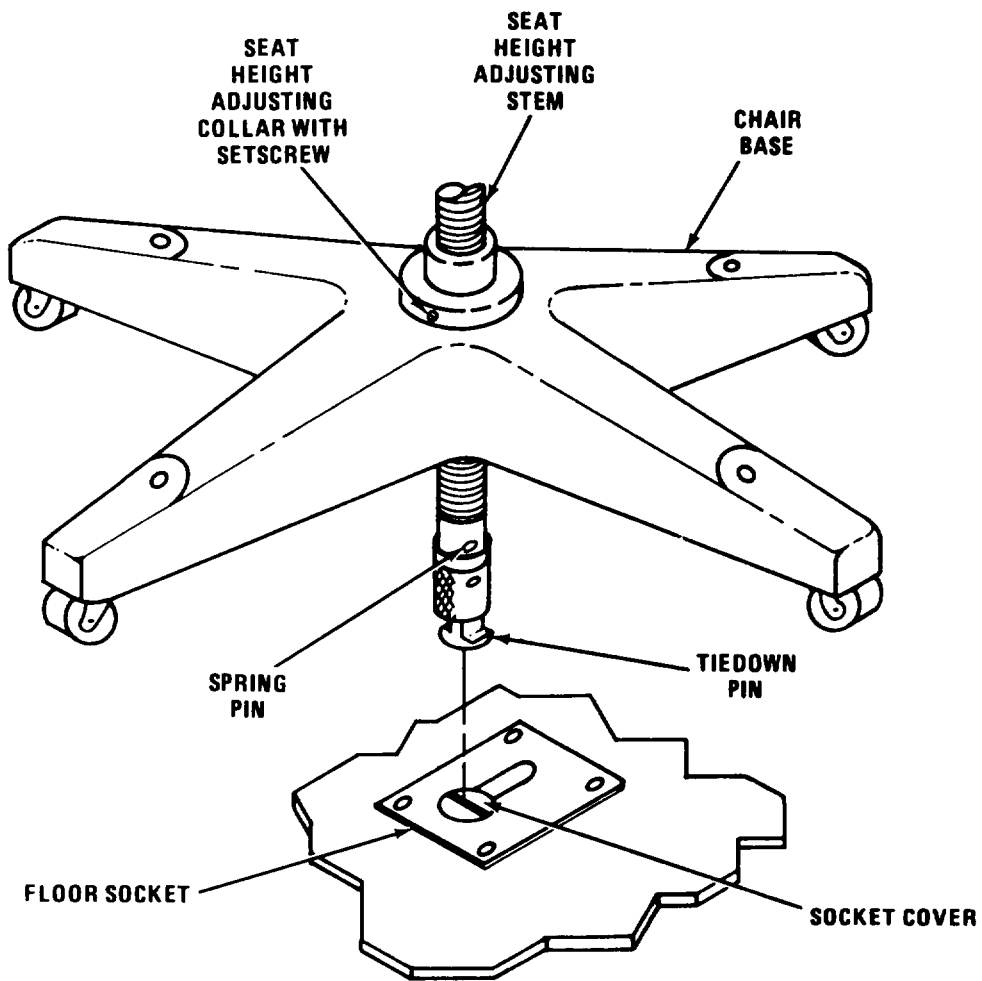
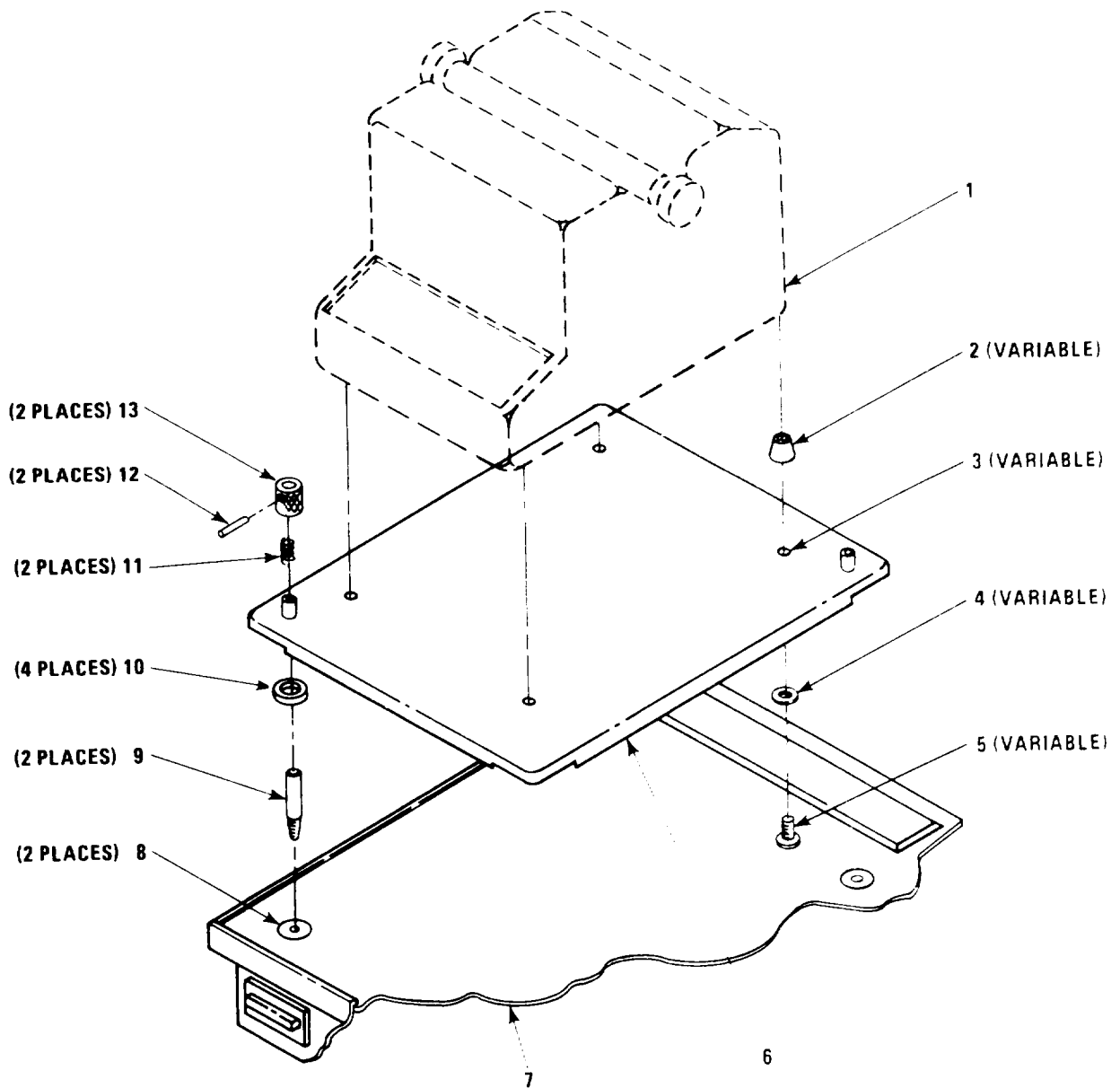


Figure 3-1. Chair Tiedown Assembly



- 1. TYPEWRITER (OR OTHER EQPT)
- 2. EQUIPMENT FOOT REST
- 3. EQUIPMENT MOUNTING HOLE
- 4. FOOT REST FLAT WASHER
- 5. FOOT REST RETAINING SCREW

- 6. EQUIPMENT TRAY
- 7. WORK CONSOLE
- 8. TRAY MOUNTING SOCKET
- 9. STUD

- 10. RUBBER GROMMET
- 11. SPRING
- 12. STRAIGHT PIN
- 13. KNURLED KNOB

Figure 3-2. Equipment Mounting to Equipment Tray

### Section III. OPERATION UNDER UNUSUAL CONDITIONS

**3-4 GENERAL.** It may be necessary to operate the RPSF under abnormal conditions of extreme cold, heat, humidity, moisture or sand. The shelter will protect personnel and material in temperatures ranging from -30°F to +120°F when equipped with external air conditioning.

*a. Operation in Arctic Climates.* Subzero temperatures and climatic conditions associated with subzero weather affect the efficient operation of the equipment. Handle the equipment carefully. Parts (particularly plastics and wire insulation) become brittle at these temperatures. Keep equipment as warm and dry as possible. When possible, keep equipment operating to remain warm. Place a blanket or other barrier between equipment and the shelter entrance. This helps reduce heat loss and lessens the danger of a cold draft striking heated elements in the equipment. Moisture will condense on equipment when it is exposed to cold air. Dry the equipment thoroughly.

*b. Operation in Tropical Climates.* Moisture conditions are acute when the equipment is operated in warm, damp climates. Poor ventilation and high relative humidity may cause condensation on equipment. Dry the equipment thoroughly at the first signs of moisture.

*c. Operation in Desert Climates.* Sand, dust and dirt enter moving parts in equipment during desert operation. The best precaution is to dustproof the shelter as much as possible with available materials. Hang wet sacking over doors to reduce incoming sand when the doors are opened. Do not remove panel and chassis assemblies unless absolutely necessary. Clean assemblies thoroughly before replacing them. Keep equipment as free from dust as possible. Make frequent preventive maintenance checks. Dust, sand, or dirt, mixed with oil and grease, becomes grit which damages moving parts.

### Section IV. PREPARATION FOR MOVEMENT

**3-5 DISMANTLING FOR MOVEMENT.** The RPSF is a completely portable facility and no special packaging or protection is required. Disconnect all external connections to the RPSF (TM 32-5410-217-14&P). Secure all internal equipment with the mobility tiedowns provided, as follows:

*a. Chair Tiedown.* See figure 3-1.

(1) Loosen seat height adjusting collar setscrew.

(2) Turn seat height adjusting stem clockwise to lower tiedown pin to approximately 1/8 inch above floor.

(3) Position chair over floor socket, aligning tiedown pin with socket well cover and key slot.

(4) Grasp knurled sleeve on tiedown pin and push pin into socket.

(5) Slide pin into key slot until socket well cover snaps up, locking pin into socket.

(6) Turn seat height adjusting stem counterclockwise until chair base is tight against floor.

(7) Tighten seat height adjusting collar setscrew.

*b. Work Surface Drawer.* Lock all console work surface drawers.

*c. Sliding Doors.*

(1) Slide doors closed.

(2) Turn black knob at center of drawers clockwise until it hits the stop.

*d. Cabinet Safe CY4842/G.* Close and lock cabinet safe door.

*e. Equipment Tray Assembly.* See figure 3-2. Turn two knurled knobs clockwise until they are hand tight.

## CHAPTER 4

## OPERATOR/CREW MAINTENANCE INSTRUCTIONS

**4-1 GENERAL.** Operator/Crew maintenance is limited to initial inventory and visual inspection during operation.

## CHAPTER 5

## ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

## Section I. TOOLS AND EQUIPMENT

**5-1 TOOLS AND TEST EQUIPMENT.** Tools and test equipment required are listed in Appendix D of this manual. There are no special tools or test equipment required.

**5-2 REPAIR PARTS.** Repair parts required are listed and illustrated in Appendix E of this manual.

**5-3 MATERIALS.** Materials required are listed in Appendix F of this manual. There are no special materials required.

## Section II. REPAINTING AND REFINISHING INSTRUCTIONS

## CAUTION

**Do not paint the typewriter, plastic surfaces or electrical switches and contacts.**

**5-4 REPAINTING, REFINISHING AND RETOUCHING.** Repainting, refinishing and retouching of the repair parts

stowage facilities (RPSF) will be according to TB 43-0118, Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters. Paints and finishes will be according to SB 11-573, Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment, and AR 746-1, Packaging of Army Materiel for Shipment and storage.

## Section III. LUBRICATION INSTRUCTIONS

**5-5 GENERAL.** There is no lubrication order for the RPSF. Lubrication is limited to the sliding and rotating parts listed below. These parts should be checked and lubricated as required quarterly. Checks should be more often if operating under unusual conditions. Refer to the commercial manual for lubrication of the typewriter.

*a. Shelter Door.* Apply a light film of oil, item 9, Appendix F, to shelter door hinges and latch assembly.

*b. Chair and Tiedown Assembly.* Apply a light film of oil, item 9, Appendix F, to the chair adjusting screw and inside the chair tiedown pin sliding collar (figure 3-1).

*c. Drawer Slides.* Apply a light film of dry graphite, item 8, Appendix F, to all drawer slides.

**Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

**5-6 SCOPE.** Organizational preventive maintenance checks and services (PMCS) are weekly, monthly and quarterly checks and services as authorized by the maintenance allocation chart (MAC). These periodic checks and services help maintain the RPSF in operating condition. Defects that cannot be corrected will be reported to direct support maintenance.

a. Table 5-1 outlines the inspection sequence in column one, inspection interval in column two, item to be inspected in column three, procedure in column four, and

reasons for reporting the RPSF not ready (Red) to perform its primary mission in column five. Footnotes indicate requirements for some checks and services to be performed more often than specified in column two when unusual conditions prevail.

b. Records and reports will be in accordance with TM 38-750.

c. All organizational PMCS will be performed at initial installation and when the equipment is reinstalled after removal.

Table 5-1. Organizational Preventive Maintenance Checks and Services

**NOTE**

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

The item number column will be used as a source of item numbers for the "TM-Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet.

**Legend**

W - Weekly  
M - Monthly

Q - Quarterly  
S - Semiannually

A - Annually  
B - Biennially

H - Hours  
MI - Miles

Item No.	Interval								Item To Be Inspected	Procedures	Equipment will be reported Not Ready (Red) if:
	W	M	Q	S	A	B	H	MI			
1	•								LIGHT BULBS	Check ceiling and work console light units for defective bulbs. Replace defective bulbs.	Lighting is insufficient.
2	•								FIRE EXTINGUISHER	Inspect cylinder for mechanical damage. Replace extinguisher if cylinder is damaged.  Check stamp, tag or label for hydrostatic test within specified time limit. If not, replace extinguisher.	Cylinder is damaged and replacement is not available.  No hydrostatic test within specified time limit and replacement is not available.
3		•							PUBLICATIONS	Verify that all publications are present, current, complete and serviceable. Replace or update as necessary.	

Table 5-1. Organizational Preventive Maintenance Checks and Services - Continued

Item No.	Interval								Item To Be Inspected	Procedures	Equipment will be reported Not Ready (Red) if:
	W	M	Q	S	A	B	H	MI			
4		•							EQUIPMENT INVENTORY	Check for missing equipment and equipment sub-assemblies. Replace missing items.	Missing items render RPSF inoperative.
5		•							MODIFICATIONS	Verify application of all current MWO's. Apply urgent MWO's immediately. When possible, schedule normal MWO's to avoid disrupting operations.	One or more urgent MWO's not applied.
*6a		•							PRESERVATION	Clean RPSF by removing all accumulated soil such as dust, dirt, grease and grit.  Inspect all painted surfaces for damage such as cracked, chipped, flaked, peeled, weathered and worn paint. Refinish as necessary.	Surface damage is severe.
*7b		•							INSTALLATION AND SUPPORT	Inspect all surfaces for deterioration such as rust, corrosion, and fungus.  Check shelter and its support for stability. Reposition, realign, or resupport shelter as necessary.  Check shelter support fittings for loose connections. Tighten as necessary.	Shelter or support cannot be stabilized.

a. Preservation procedures may be required more frequently when the RPSF is operated under unusual conditions.

b. Installation and support procedures may be required more frequently when the RPSF is not installed on a solid and level base.

Table 5-1. Organizational Preventive Maintenance Checks and Services - Continued

Item No.	Interval								Item To Be Inspected	Procedures	Equipment will be reported Not Ready (Red) if:
	W	M	Q	S	A	B	H	MI			
8		•							<p>EXTERIOR POWER CABLES RECEPTACLES AND EARTH GROUND CONNECTION</p> <p>Check for loose connections. Tighten as necessary.</p> <p>Inspect insulation, wires, and terminals for damage such as cuts, abrasions, frays, breaks, kinks and bends. Repair damage or replace parts as necessary.</p>	<p>Damage renders RPSF inoperative or causes safety hazard.</p>	
9		•							<p>SHELTER EXTERIOR</p> <p>Inspect overall exterior for damage such as holes, open seams, cracks and punctures. Repair or replace as necessary.</p>	<p>Damage renders RPSF inoperative.</p>	
10		•							<p>SHELTER DOOR</p> <p>Check for fit and proper operation of hinges and latch. Repair or replace as necessary.</p>	<p>Door is inoperative.</p>	
11		•							<p>SHELTER INTERIOR</p> <p>Check for signs of seepage or leaks. Repair as necessary.</p>		
12		•							<p>ELECTRICAL WIRING, SHELTER AND WORK CONSOLE</p> <p>Check for loose connections. Tighten as necessary.</p> <p>Inspect insulation, wires, and terminals for damage such as cuts, abrasions, frays, breaks, kinks and bends. Repair damage or replace parts as necessary.</p>	<p>Damage renders PRSF inoperative or causes safety hazard.</p>	
13		•							<p>ELECTRICAL COMPONENTS, SHELTER AND WORK CONSOLE</p> <p>Check for proper operation of circuit breakers, relays, switches, light units, receptacles and plugs. Repair or replace as necessary. 4</p>	<p>Inoperative item renders RPSF 3 inoperative or causes safety</p>	



Table 5-1. Organizational Preventive Maintenance Checks and Services - Continued

Item No.	Interval								Item To Be Inspected	Procedures	Equipment will be reported Not Ready (Red) if:
	W	M	Q	S	A	B	H	MI			
14		•							MECHANICAL EQUIPMENT	<p>Check for loose mountings on drawer storage rack, shelf storage rack, safe and work console. Tighten as necessary.</p> <p>Check for proper operation of drawer storage rack, shelf storage rack, safe, work console, typewriter, chair and tiedown assembly, sling assembly and padlocks. Repair or replace as necessary.</p>	<p>Inoperative item renders RPSF inoperative.</p> <p>Missing parts render RPSF inoperative.</p>
*15c			•						LUBRICATION	As required, lubricate shelter door hinges and latch, all drawer, cabinet and shelf slides and latches, safe hinges and latch, typewriter, and chair swivel, rollers, and tiedown assembly.	
16			•						EQUIPMENT PARTS AND INVENTORY	Inspect shelter, shelter support fittings, for loose or missing parts. Tighten or replace parts as necessary.	
17			•						FLOOR MAT	Check for excessive wear or other damage. Replace as necessary.	

c. Lubrication may be required more frequently when the RPSF is operated under unusual conditions.

**Section V. TROUBLESHOOTING**

**5-7 TROUBLESHOOTING PROCEDURE.**

Table 5-2 contains the most frequent malfunctions in the RPSF, their probable causes, and the corrective action required at the organizational level of maintenance as authorized by the MAC. Any trouble that is beyond the scope of organizational maintenance will be referred to direct support maintenance.

**WARNING**

**Dangerous voltage is present in the electrical circuits. Death on contact may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.**

*Table 5-2. Organizational Maintenance Troubleshooting*

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

---

**ELECTRICAL**

**1. NO POWER IN RPSF WHEN MAIN CIRCUIT BREAKER IS ON.**

Step 1. See if nearby facilities using same main power source have power.

**If main power is off, switch to auxiliary power until main power is restored.**

Step 2. Inspect main power cable for loose or broken connections.

**Reconnect, tighten, repair or replace as necessary.**

Step 3. Check output at main power source.

**If there is no power, switch to auxiliary power until main power is restored.**

Step 4. Check output or make point to point continuity tests from main power source to main circuit breaker until malfunction is isolated.

**Repair malfunction or replace defective component as necessary.**

**2. MAIN CIRCUIT BREAKER IS ON BUT NO POWER TO A LIGHT UNIT OR RECEPTACLE.**

Step 1. Check to see if in-line contact components (circuit breakers, relays, switches, etc.) are ON. See wiring diagrams, figures 6-1 and 6-2.

**If any in-line contact components are OFF, reset to ON.**

Step 2. Check output or make point to point continuity checks from main circuit breaker to light unit or receptacle until malfunction is isolated.

**Repair malfunction or replace defective component as necessary.**

Table 5-2. Organizational Maintenance Troubleshooting - Continued

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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**ELECTRICAL - continued****3. POWER TO BLACKOUT LIGHT UNIT BUT BULB DOES NOT LIGHT.**

Step 1. Check to see that bulb is tight in socket and making good contact.

**If bulb is loose in socket, tighten it.**

Step 2. Check socket for damage.

**Replace socket if damaged. If not, replace bulb.**

**4. POWER TO FLUORESCENT LIGHT UNIT BUT BULB(S) DOES (DO) NOT LIGHT.**

Step 1. Check for smoke or burnt smell from ballast. If smoke or burnt smell is present, inspect the ballast.

**Replace ballast if burnt.**

Step 2. Check to see that bulbs are tight in socket and making good contact.

**Tighten bulb if loose in socket.**

Step 3. Check sockets for damage.

**Replace socket(s) if damaged. If not, replace bulb(s).**

Step 4. Test light unit by replacing the new bulb with one that is known to be good.

**If the bulb that is known to be good does not light, proceed to Step 5.**

Step 5. Inspect inside the light unit for loose or broken connections.

**If loose or broken connections are found, repair them. If none are found, replace the ballast.**

**MECHANICAL****5. CHAIR TIEDOWN FAILS TO ENGAGE WHEN OPERATED.**

Step 1. Check to see that tiedown pin is set to proper height (paragraph 3-5a)

**Reset pin if not at proper height.**

Table 5-2. Organizational Maintenance Troubleshooting - Continued

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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**MECHANICAL - continued**

Step 2. Check floor tiedown socket for accumulated dirt.

**Clean socket if dirty.**

Step 3. Inspect tiedown assembly for damage.

**If damaged, repair or replace as necessary.**

**6. DRAWER FAILS TO OPEN OR CLOSE PROPERLY.**

Step 1. Check for items in drawer blocking drawer movement.

**Remove items if blocking drawer movement.**

Step 2. Check for drawer slide lubrication.

**Lubricate drawer slides if required.**

Step 3. Check for damaged parts.

**Repair or replace as necessary.**

**7. SHELF PLUNGER ASSEMBLY FAILS TO OPERATE PROPERLY.**

Step 1. Check for binding due to misalignment.

**Realign as necessary.**

Step 2. Check for plunger assembly lubrication.

**Lubricate plunger assembly as required.**

Step 3. Check for damaged parts.

**Repair or replace as necessary.**

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**Section VI. MAINTENANCE OF REPAIR PARTS STOWAGE FACILITIES  
AN/ USM-378 AN/USM..379 AND AN/USM-380 (RPSF)**

**5-8 GENERAL.** This section contains organizational maintenance instructions as allocated by the MAC. Instructions are for equipment cleaning, removal,

disassembly, assembly, and installation of equipment within the shelter.

**5-9 CLEANING.****WARNING**

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

- a. Remove dust and dirt from equipment with lint-free cloth or vacuum cleaner.
- b. Remove dust and dirt from hard to reach areas with one-inch bristle brush or vacuum cleaner.
- c. Remove grease or oil with trichloroethane. Wipe dry with clean, dry, lint-free cloth.
- d. Remove caked dirt with a one-inch bristle brush soaked with trichloroethane. Wipe dry with clean, dry, lint-free cloth.

**5-10 ELECTRICAL EQUIPMENT SHELTER S-389/MSA34 (MODIFIED).**

- a. Refer to TM 32-5410-217-14&P for maintenance of the shelter.
- b. See figure 6-1 for modifications to the shelter lighting circuit.
- c. Refer to the commercial manual for maintenance of the typewriter.
- d. Refer to the applicable manual in Appendix A for maintenance of additional authorized equipment listed in Appendix C.

**5-11 SHELTER LIGHTING-CEILING FLUORESCENT/ INCANDESCENT LAMPS.****WARNING**

**Dangerous voltage is present in the electrical circuits. Death on contact may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.**

- a. *Lamp Removal.*
  - (1) Set LIGHTS circuit breaker to OFF. Use other lighting as required.
  - (2) Remove two screws holding lamp cover closed. Lower cover slowly.
  - (3) Remove blackout lamp by turning bulb counterclockwise.
  - (4) Hold defective lamp gently with one hand.

(5) Press firmly against spring pressure of lampholder and carefully remove lamp from fixture.

*b. Lamp Installation*

- (1) Fit one lamp end into holder.
- (2) Press firmly against spring pressure of other lamp holder and fit other lamp end into it.
- (3) Release holder.
- (4) Check lamp ends for proper fit in holders.
- (5) Install blackout lamp by fitting bulb to socket and turning bulb clockwise.
- (6) Swing light cover up and secure with two screws.
- (7) Set LIGHTS circuit breaker to ON.

**5-12 DRAWER STORAGE RACKS.** Item numbers below refer to figure E-1, sheet 2 of 2 unless otherwise indicated.

*a. Removal*

- (1) Remove five drawer assemblies (8, figure E-3) and three drawer assemblies (9, figure E-3) (paragraph 5-14a).
- (2) Remove two storage cabinets (7, figure E-3) (paragraph 5-13a).
- (3) Detach rack from upper bracket (22) by removing two screws (35), lock washers (31), and flat washers (27).
- (4) Detach rack from shelter floor by removing four screws (26), lock washers (24), and flat washers (23).
- (5) Remove rack.

*b. Installation.*

- (1) Position rack over shelter floor mounting holes. Secure rack to shelter floor using four flat washers (23) lock washers (24), and screws, (26).
- (2) Secure rack to upper bracket using two flat washers (27), lock washers (31), and screws (35).
- (3) Install two storage cabinets (7, figure E-3) (paragraph 5-13b).
- (4) Install three drawer assemblies (9, figure E-3) and five drawer assemblies (8, figure E-3) (paragraph 5-14b).

**5-13 STORAGE CABINETS.** See figure E-4.

*a. Removal.*

- (1) Open cabinet door.
- (2) Detach cabinet from rack by removing four screws (15), lock washers (14), and flat washers (2).
- (3) Slide storage cabinet out of rack.

*b. Installation*

- (1) Slide storage cabinet into rack.
- (2) Align storage cabinet and rack mounting holes.
- (3) Secure using four flat washers (2), lock washers (14) and screws (15).
- (4) Close storage cabinet door.

**5-14 DRAWER ASSEMBLIES.** See figure E-5. The following procedures apply to a 3-1/2-inch or 7-inch drawer storage assembly.

*a. Removal.*

- (1) While holding latch to the left, pull drawer open until stops engage.
- (2) Lift drawer front.
- (3) Pull drawer free of rack.
- (4) Remove right and left drawer slides from rack by removing four screws, eight flat washers, and four nuts.

*b. Installation.*

- (1) Align right and left drawer slides with rack mounting holes. Secure slides to rack using eight flat washers, four screws, and four nuts.
- (2) Align drawer slides with rack slides.
- (3) Slide drawer into rack.

**5-15 SHELF STORAGE RACK.** See figure E-1 (sheet 2 of 2).

*a. Removal.*

- (1) Remove shelves from rack (paragraph 5-16a).
- (2) Detach rack from upper bracket by removing two screws (35) lock washers (31), and flat washers (27).
- (3) Detach rack base plate from shelter floor by removing four screws (26) lock washers (24), and flat washers (23)
- (4) Remove rack.

*b. Installation.*

- (1) Align rack base plate with shelter floor mounting holes.
- (2) Secure base plate to floor using four flat washers (23) lock washers (24), and screws (26).
- (3) Secure rack to upper bracket using two flat washers (27) lock washers (31), and screws (35).
- (4) Install shelves in rack (paragraph 5-16b).

**5-16 SHELF STORAGE RACK SHELVES.**

See figure E-6.

*a. Removal.*

- (1) Loosen two panel fasteners securing shelf in closed position.
- (2) Reach under each shelf side and press stops up.
- (3) While holding stops up, pull shelf out about one inch.
- (4) Release stops.
- (5) Pull shelf from rack.

*b. Installation.*

- (1) Align shelf slides and rack slides.
- (2) Slide shelf into rack.
- (3) Secure shelf to rack by tightening two panel fasteners.

**5-17 CABINET SAFE.** See figure E-1 (sheet 2 of 2).

*a. Removal.*

- (1) Open safe door.
- (2) Detach safe (17) from bracket (22) by removing two screws (20, 21) flat washers (27), nuts (28), and spacers (25)
- (3) Detach safe (17) from shelter floor by removing four screws (29, 30) lock washers (31), and flat washers (27)
- (4) Remove safe (17).
- (5) Remove four spacers (32).

*b. Installation.*

- (1) Position four spacers (32) and safe (17) over shelter floor mounting holes.
- (2) Secure safe (17) to floor using two flat washers (27), lock washers (31), and screws (29, 30).
- (3) Position two spacers (25) between safe (17) and bracket (22) mounting holes.
- (4) Secure safe (17) to bracket (22) using two flat washers (27), screws (20, 21), and nuts (28).
- (5) Close safe door.

**5-18 WORK CONSOLE.**

**WARNING**

**Dangerous voltage is present in the electrical circuits. Death on contact may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.**

- a. Removal.* Item numbers below refer to figure E-1, sheet 2 of 2, unless otherwise indicated

(1) Unplug work console electrical cord (11) from wall receptacle.

(2) Detach work console (11) from bracket (22) by removing two screws (26), lock washers (24), and flat washers (23).

(3) Remove work console front base plate (33, figure E-7) by removing two screws (31, figure E-7), lock washers (12, figure E-7), and flat washers (32, figure E-7).

(4) Detach work console from shelter floor by removing four screws (26), lock washers (24), and flat washers (23). Remove work console.

*b. Disassembly.* See figure E-7.

(1) Remove bracket (3) and stiffener (4) from upper cabinet assembly (5) by removing four nuts (6), screws (1), and lock washers (2).

(2) Tag and disconnect leads to light unit assembly (42).

(3) Remove light unit assembly (42) from upper cabinet assembly (5) by removing six screws (43), lock washers (13), and nuts (7).

(4) Remove cover (14) from electrical duct extension (27) by removing six screws (11), lock washers (12), and flat washers (13).

(5) Detach electrical duct extension (27) from upper cabinet assembly (5) and tack-board assembly (41) by removing six screws (8), six nuts (7), and one connector (9).

(6) Detach electrical duct extension (27) from work surface assembly (39) by removing four screws (11), lock washers (12), and flat washers (13). Remove electrical duct extension.

(7) Remove upper cabinet assembly (5) from tackboard assembly (41) by removing six screws (8) and nuts (7).

(8) Remove tack-board assembly (41) from work surface assembly (39) by removing six screws (40).

(9) Remove drawer from work surface assembly (39).

(10) Remove work surface assembly (39) from lower cabinet assembly (38) by removing eight screws (11), flat washers (13), and nuts (7).

(11) Remove cabinet base (35) from lower cabinet assembly (38) by removing four screws (1), lock washers (34), and flat washers (2).

*c. Assembly.* See figure 3-7.

(1) Install cabinet base (35) to lower cabinet assembly (38) using four screws (1), lock washers (34), and flat washers (2).

(2) Install work surface assembly (39) to lower cabinet assembly (38) using eight screws (11), flat washers (13), and nuts (7).

(3) Install drawer in work surface assembly (39).

(4) Install tack-board assembly (41) to work surface assembly (39) using six screws (40).

(5) Install upper cabinet assembly (5) to tack-board assembly (41) using six screws (8) and nuts (7).

(6) Install electrical duct extension (27).

(7) Secure to work surface assembly (39) using four flat washers (13), lock washers (12), and screws (11).

(8) Secure electrical duct extension (29) to upper cabinet assembly (5) and tack-board assembly (41) using six screws (8) and nuts (7).

(9) Feed wires from electrical duct extension (27) through hole in top of duct into upper cabinet assembly (5).

(10) Install and tighten connector (9).

(11) Install cover (14) on electrical duct extension (29) using six flat washers (13), lock washers (12), and screws (11).

(12) Install light unit assembly (42) to upper cabinet assembly (5) using six lock washers (13), screws (43), and nuts (7).

(13) Connect leads to light unit assembly (42).

(14) Install bracket (3) and stiffener (4) on upper cabinet assembly (5) using four lock washers (2), screws (1), and nuts (6).

*d. Installation.* Item numbers below refer to figure E-1, sheet 2 of 2, unless otherwise indicated.

(1) Position work console over shelter floor mounting holes.

(2) Secure work console to shelter floor using four flat washers (23), lock washers (24), and screws (26).

(3) Install work console front base plate (33, figure E-7) using two flat washers (32, figure E-7), lock washers (12, figure E-7), and screws (31, figure E-7).

(4) Secure work console to bracket (22) using two flat washers (23), lock washers (24), and screws (26).

(5) Plug work console electrical cord into wall receptacle.

**5-19 UPPER CABINET ASSEMBLY.** See figure E-8.

*a. Removal.* Procedures detailed in paragraphs 5-18 a and b must be accomplished before proceeding with paragraph b below.

***b. Disassembly.***

(1) Open cabinet door (7).

(2) Remove cabinet door (7) from upper cabinet assembly (1) by removing seven screws (8) and nuts (9)

(3) Remove knob cap (5) from door (7).

(4) Remove knob (5) from door (7) by removing one screw (5), lock washer (5), and flat washer (5).

(5) Remove adjustable pawl fastener (5) from door (7) by removing two screws (6) and nuts (4).

(6) Remove shelf (2) from cabinet (1) by pulling in spring loaded plungers (3) and lifting shelf out.

(7) Remove spring loaded plunger assembly (3) from shelf by grasping knob (3) and pin (3) with two pairs of pliers and pulling knob and pin apart while flexing knob a few degrees.

(8) Remove spring (3).

**NOTE**

**The standoff in step (9) below is not reusable.**

(9) Remove standoff (3) from shelf by drilling it out with a 7/16-inch drill bit.

*c. Assembly.*

(1) Insert new standoff (3) in shelf hole (2).

(2) Secure standoff to shelf using a flaring tool and backup tool.

(3) Insert spring (3) into standoff (3).

**NOTE**

**The knob and pin must remain aligned with each other during the press procedure (step (4) below) to ensure a proper fit.**

(4) Insert pin (3) and knob (3) into standoff (3) and press them together using a bench vise.

(5) Install shelf (2) into upper cabinet (1).

(6) Install adjustable pawl fastener (5) to door (7) using two screws (6) and nuts (4).

(7) Install knob (5) on adjustable pawl fastener (5), using one flat washer (5), lock washer (5), and screw (5).

(8) Install knob cap (5) on knob (5).

(9) Install door (7) to upper cabinet (1) using seven screws (8) and nuts (9).

*d. Installation.* Perform procedures detailed in paragraphs 5-18 c and d.

**5-20 LIGHT UNIT ASSEMBLY.** See figure E-9.

**WARNING**

**Dangerous voltage is present in the electrical circuits. Death on contact may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.**

*a. Removal.* Procedures detailed in paragraphs 5-18 a and b must be accomplished before proceeding with paragraph b below.

*b. Disassembly.*

(1) Remove fluorescent lamp (8) from lamp holders (4).

(2) Tag and disconnect leads to lamp holders (4) and ballast (14).

(3) Remove lamp reflector shade (7) and two lamp holders (4) from weldment (10) by removing two screws (5) and lock washers (6).

(4) Remove lamp ballast (14) from weldment (10) by removing two screws (11), lock washers (12), and nuts (13).

(5) Tag and disconnect leads to toggle switch (9).

(6) Remove toggle switch (9) from weldment (10) by removing one nut (9).

*c. Assembly.*

(1) Install toggle switch (9) in weldment (10) using one nut (9).

(2) Connect leads to toggle switch (9).

(3) Install lamp ballast (14) in weldment (10) using two lock washers (12), screws (1), and nuts (13).

(4) Install lamp reflector shade (7) and two lamp holders (4) on weldment (10) using two washers (6) and screws (5).

(5) Connect leads to lamp holders (4) and ballast (14).

(6) Install fluorescent lamp (8) in lamp holders (4).

*d. Installation.* Perform procedures detailed in paragraphs 5-18 c and d.

**5-21 WORK SURFACE ASSEMBLY.** See figure E-10.

*a. Removal.* Procedures detailed in paragraphs 5-18 a and b must be accomplished before proceeding with paragraph b below.

*b. Disassembly.*

(1) Remove equipment tray assembly (paragraph 5-22a).

(2) Remove drawer (16) from work surface (18).

(3) Remove lock tumbler (15) from drawer (16) by removing one screw (15), flat washer (15), pawl (15), and locknut (15).

(4) Remove full extension slides (7) from drawer (16) by removing eight screws (2) and nuts (5).

(5) Remove outer slides (7) from work surface (18) by removing eight screws (10), flat washers (11), and nuts (5).



(6) Remove file holder well (24) from work surface (18) by removing seven screws (2), lock washers (1), and nuts (5).

*c. Assembly.*

(1) Install file holder well (24) on work surface (18) using seven screws (2) lock washers (1), and nuts (5).

(2) Install outer slides (7) on work surface (18) using eight flat washers (11), screws (10), and nuts (5).

(3) Install full extension slides (7) on drawer (16) using eight screws (2) and nuts (5).

(4) Install lock tumbler (15) on drawer (16) using one flat washer (15), screw (15), pawl (15), and locknut (15).

(5) Install drawer (16) in work surface assembly (18).

(6) Install equipment tray assembly (paragraph 5-22b).

*d. Installation.* Perform procedures detailed in paragraphs 5-18 c and d.

**5-22 EQUIPMENT TRAY ASSEMBLY.** See figure E-13.

*a. Removal.*

(1) Remove two knobs (1) and two springs (3) from two studs (6) by removing two straight pins (2).

(2) Lift equipment tray weldment (4) to clear two studs (6) and remove equipment tray weldment from work surface assembly.

(3) Remove four rubber grommets (5) from work surface assembly.

(4) Remove two studs (6) from work surface assembly.

(5) Remove typewriter or other equipment from equipment tray weldment (4) by removing typewriter or other equipment retaining hardware set.

*b. Installation.*

**NOTE**

**If the equipment tray weldment does not have typewriter or other equipment mounting holes, drill them before doing step (1) in the procedure below. See paragraph 3-2e.**

(1) Install typewriter or other equipment on equipment tray weldment (4) using typewriter or other equipment retaining hardware set.

(2) Install two studs (6) on work surface assembly.

(3) Position four rubber grommets (5) on work surface assembly.

(4) Position equipment tray weldment (4) over two studs (6) and rest equipment tray weldment (4) on work surface assembly.

(5) Install two springs (3) on two studs (6).

(6) Install two knobs (1) on two studs (6) and secure with two straight pins (2).

**5-23 LOWER CABINET ASSEMBLY.** See figure E-1 1.

*a. Removal.* Procedures detailed in paragraphs 5-18 a and b must be accomplished before proceeding with paragraph b below.

*b. Disassembly.*

(1) Remove sliding door assembly (11) from lower cabinet assembly (2) by removing 10 screws (13), flat washers (12), and nuts (3).

(2) Align screws (15) in top slide blocks (14) with holes in top of sliding door assembly (11).

(3) Remove two slide blocks (14) from each door top (10, 16) by removing eight screws (15), flat washers (8), and nuts (9).

(4) Remove doors (10, 16) from sliding door assembly (11).

(5) Remove two slide blocks (14) from each door bottom (10, 16) by removing eight screws (15), flat washers (8), and nuts (9).

(6) Remove knob (22) from modified link lock (20) by removing spring pin (21).

(7) Remove bracket (19) from door (10) by removing two screws (5), flat washers (6), and nuts (3).

(8) Remove modified link lock (20) and spring (23) from bracket (19) by removing spring pin (24).

(9) Remove latch plate (7) from door (16) by removing two screws (5) flat washers (6), and nuts (18).

(10) Remove shelf (4) from lower cabinet (2).

(11) Remove spring loaded plunger assembly (1) from shelf (4) by grasping knob (1) and pin (1) with two pairs of pliers and pulling knob and pin apart with flexing knob a few degrees.

(12) Remove spring (1).

**NOTE**

**The standoff in step (13) below is not reusable.**

(13) Remove standoff (1) from shelf (4) by drilling it out with a 7/16-in drill bit.

*c. Assembly*

(1) Insert new standoff (1) in shelf hole (4). Secure standoff to shelf using a flaring tool and backup tool.

(2) Insert spring (1) into standoff (1).

**NOTE**

**To ensure a proper fit, the knob and pin must remain aligned with each other during the press procedure in step (3) below.**

(3) Insert pin (1) and knob (1) into standoff (1) and press them together using a bench vise.

(4) Install shelf (4) into lower cabinet (2).

(5) Install latch plate (7) on door (16) using two flat washers (6), screws (5), and nuts (18).

(6) Insert modified link lock (20) and spring (23) into bracket (19) and secure using spring pin (24).

(7) Install bracket (19) on door (10) using two flat washers (6), screws (5), and nuts (3).

(8) Install knob (22) on modified link lock (20) using spring pin (21).

(9) Install two slide blocks (14) on each door bottom (10, 16) using eight flat washers (8), screws (15), and nuts (9).

(10) Position doors (10, 16) in door frame (11).

(11) Align top slide block mounting holes in door (10, 16) with door frame access holes (11).

(12) Install two slide blocks (14) on each door top (10, 16) using eight flat washers (8), screws (15), and nuts (9).

(13) Install sliding door assembly (11) on lower cabinet assembly (2) using 10 flat washers (12), screws (13), and nuts (3).

*d. Installation.* Perform procedures detailed in paragraphs 5-18 c and d.

**5-24 TACK-BOARD ASSEMBLY.** See figure E-12.

*a. Removal.* Procedures detailed in paragraphs 5-18 a and b must be accomplished before proceeding with paragraph b below.

*b. Disassembly.*

(1) Remove four retaining brackets (3, 5, 6, 7) from tack-board assembly (9) by removing eight screws (2).

(2) Remove tack-boards (4, 8) from frame (9).

*c. Assembly.*

(1) Position tack-boards (4, 8) in frame (9).

(2) Install four retaining brackets (3, 5, 6, 7) using eight screws (2).

*d. Installation.* Perform procedures detailed in paragraphs 5-18 c and d.

**5-25 CHAIR TIEDOWN ASSEMBLY.** See figure E-14.

*a. Removal.*

(1) Turn chair (1) on its side and prop it to allow access to and removal of tiedown assembly spring pin (9).

(2) Remove spring pin (9) using a standard 3/16inch punch and hammer.

(3) Pull tiedown assembly (2) away from chair stem (1).

*b. Installation.*

(1) Slide tiedown housing (8) into chair stem (1). Align spring pin holes.

(2) Set spring pin (9) and tap in place with hammer.

(3) Turn chair upright.

## CHAPTER 6

## FUNCTIONING OF EQUIPMENT

**6-1 SCOPE.** The information in this chapter is limited to a brief explanation of the Repair Parts Storage Facilities (RPSF) lighting circuitry and fixtures. For additional information on shelter equipment functions refer to TM 32-5410-217-14&P, Shelter, Electrical Equipment S-389/MSA-34. For information on the typewriter refer to the commercial manual.

**6-2 MODIFIED SHELTER LIGHTING CIRCUIT.**

*a. Ceiling Light Switches.* The two three-way light switches in a standard S-389 shelter are removed as part of the RPSF modification. The LIGHTS circuit breaker controls operation of the ceiling lights (figure 6-1).

*b. Blackout Lighting Circuits.* A plug-in actuator consisting of a micro-switch is installed in each door and is plugged into one of the four blackout (BO) receptacles (fig. 6-1) located at the top of the electrical ducts. The BO electrical circuits are controlled by a master ON/OFF BO circuit breaker switch. This switch must be in the ON

position to energize the BO circuit which controls automatic switching from normal lighting to BO lighting. When the BO switch is ON and the door is opened, the fluorescent lights (normal lighting) are extinguished and the BO lamp comes on. When the door is closed, normal lighting is restored. When the BO circuit breaker switch is set to the OFF position, the BO circuit is discontinued and the normal lighting circuits restored.

*c. Ceiling Light Units.* The two dual fluorescent light units are identical to the units in a standard S-389 shelter. Refer to the maintenance section of TM 32-5410-217-14&P for replacement of light unit components.

**6-3 WORK CONSOLE ELECTRICAL CIRCUIT.** This circuit consists of a power cord, console electrical duct with two convenience receptacles, and a console light unit. The work console power cord plugs into a shelter receptacle providing power to the convenience receptacles and console light unit. Operation of the light is controlled by an ON/OFF toggle switch mounted on the light unit (figure 6-2).

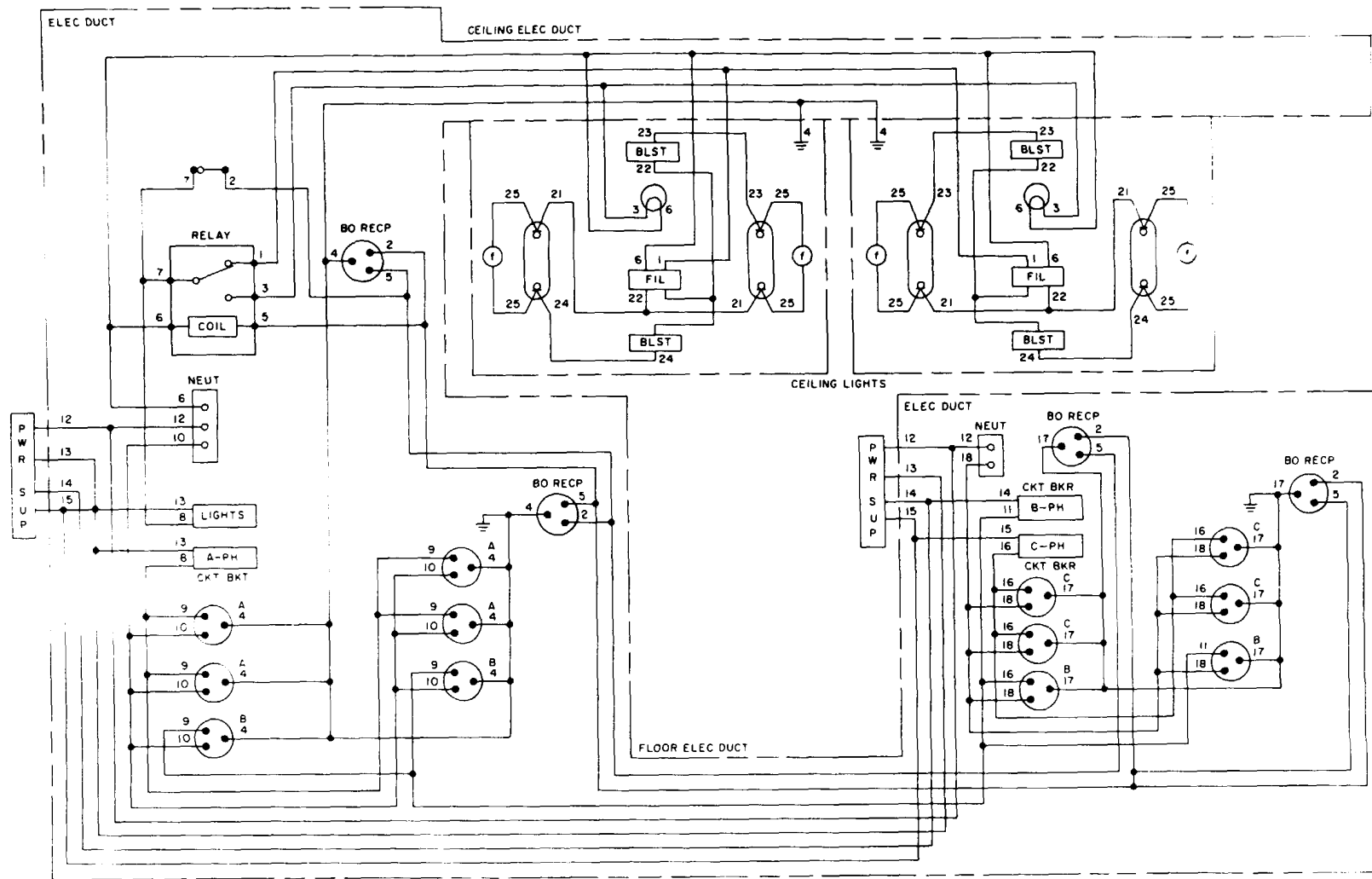


Figure 6-1. Modified Shelter Lighting Circuit, Schematic Wiring Diagram

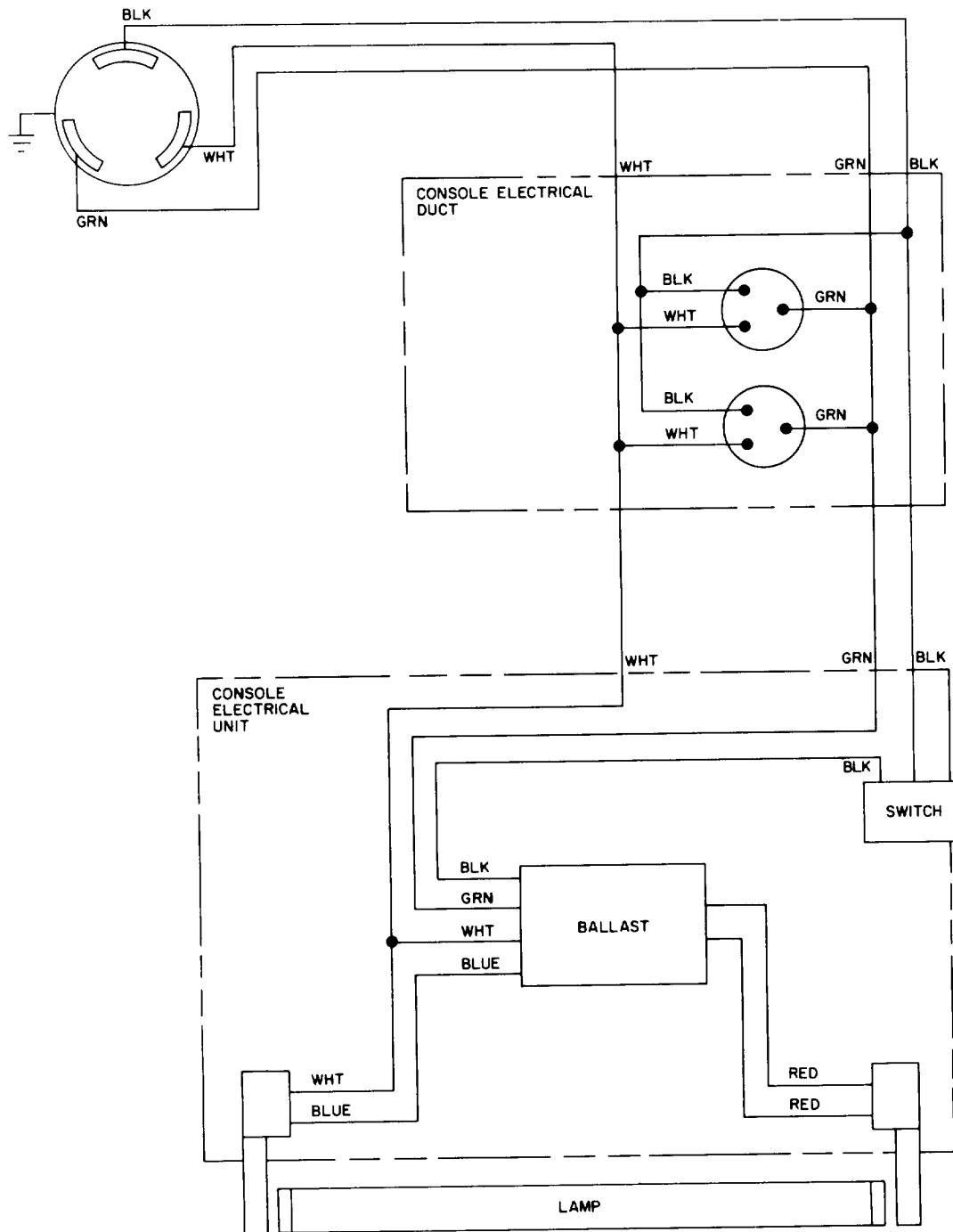


Figure 6-2. Work Console Electrical Circuits, Schematic Wiring Diagram

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## CHAPTER 7

### DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

**7-1 SCOPE.** This chapter contains maintenance instructions at the direct support and general support level of maintenance as authorized by the maintenance allocation chart (MAC). Direct support maintenance of the repair parts storage facilities is limited to repair of the shelter and the typewriter. No maintenance is allocated to general support.

**7-2 SHELTER REPAIR.** Refer to TM 32-5410-217-14&P, Shelter, Electrical Equipment S-389/MSA-34 for detailed shelter maintenance. See figure 6-1 in this manual for modified shelter lighting circuitry.

**7-3 TYPEWRITER REPAIR.** Refer to the commercial manual.

## CHAPTER 8

### MATERIAL USED IN CONJUNCTION WITH MAJOR ITEM

Not Applicable

## APPENDIX A

Reference	Title
TM 54120-308-15	Operator's Organizational, Direct Support, and Depot Maintenance Manual: Air Conditioner, 208 V, 3 phase, 50/60 Hz, 18, 000 BTUH cooling, 12,000 BTUH heating
TM 5-6115-449-15	Operator's, Organizational, Direct and General Support, and Depot Maintenance Manual: Electrical Generator, DED, 30 kW, 208V, 3 phase, 60 Hz
TM 11-6625-65414	Operator's, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List) for Multimeter AN/USM-223
TM 324940-200-14&P	Operator's, Organizational, Direct Support, and General Support Maintenance Manual: Teletype Maintenance Central AN/TGM-2, Radio Maintenance Central AN/TRM-18 (Including Remote Display)
TM 32-5410-217-14&P	Operator's, Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List): Shelter, Electrical Equipment S-389/MSA-34
TM 32-5811-021-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Operational Unit, Transportable System
TM 32-9999-200-24	Operator's Organizational, Direct Support, General Support, and Depot Maintenance Manual (Including Repair Parts List) for Operations and Electrical Facility, Mobile AN/MSA-34
TM 38-750	The Army Maintenance Management System (TAMMS)
TM 43-0139	Painting Instructions for Field Use
TM 740-90-1	Administrative Storage of Equipment
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command)
AR 700-42	Classification, Reclassification, Maintenance, Issuance and Reporting of Maintenance Training Aircraft
AR 746-1	Packaging of Army Materiel for Shipment and Storage
CTA 50-970	Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items)
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Type 7, 8, and 9), Supply Bulletins and Lubrication Orders
DA Pam 310-7	Military Publications: US Army Equipment Index of Modification Work Orders

## APPENDIX A - Continued

Reference	Title
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters
SB 11-573	Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment
SB 70841/42	Federal Supply Code for Manufactures; United States and Canada. Name to Code and Code to Name (GSA-FSS H4-1/H4-2)
SC 5180-91-CL-R07	Sets, Kits and Outfits Components List; Tool Kit, Electronic Equipment TK-105/G
SC 5180-91 -CL-S21	Sets, Kits and Outfits Components List; Tool Kit, Electronic Equipment TK-100/G
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA Form 2404	Equipment/Inspection and Maintenance Worksheet
SF Form 364	Report of Deficiency
SF 368	Quality Deficiency Report



APPENDIX B

COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

**B-1 SCOPE.** This appendix lists integral components of and Basic Issue Items (BII) for Repair Parts Stowage Facilities AN/USM-378, AN/USM-379 and AN/USM-380 (RPSF) to help you inventory items required for safe and efficient operation.

**B-2 GENERAL.** This Components of End Item List is divided into the following sections:

*a. Section II. Integral Components of the End Item.* These items, when assembled, comprise the RPSF and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

*b. Section III. Basic Issue Items (BII).* These are the minimum essential items required to place the RPSF in operation, to operate it, and to perform emergency repairs. Although shipped separately packed they must accompany the RPSF during operation and whenever it is transferred between accountable officers. The illustrations will assist you with hard-to-identify items. This manual is your authority to requisition replacement BII, based on TOE/ MTOE authorization of the end item.

**B-3 EXPLANATION OF COLUMNS.**

*a. Illustration.* This column is divided as follows:

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

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

*b. National Stock Number.* Indicates the National stock number assigned to the item and which will be used for requisitioning.

*c. Part Number.* Indicates the primary number used by the manufacturer, 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.

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

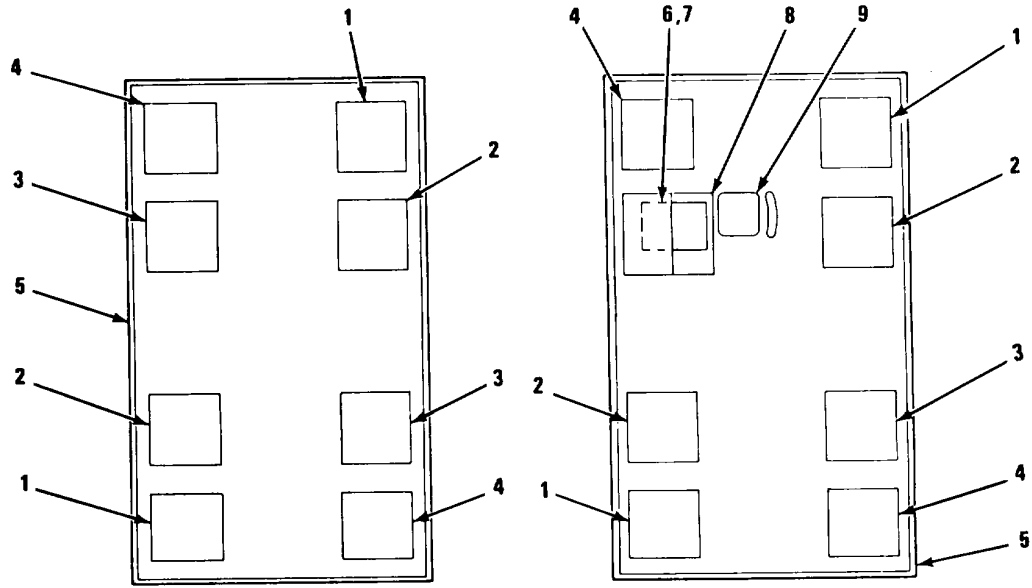
*e. Location.* The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

*f. Usable on Code.* "USABLE ON" codes are included to help you identify which component items are used on the different models. Identification of the codes used in these lists are:

Code	Application
A	Repair Parts Stowage Facility AN/USM-378
B	Repair Parts Stowage Facility AN/USM-379
C	Repair Parts Stowage Facility AN/USM-380

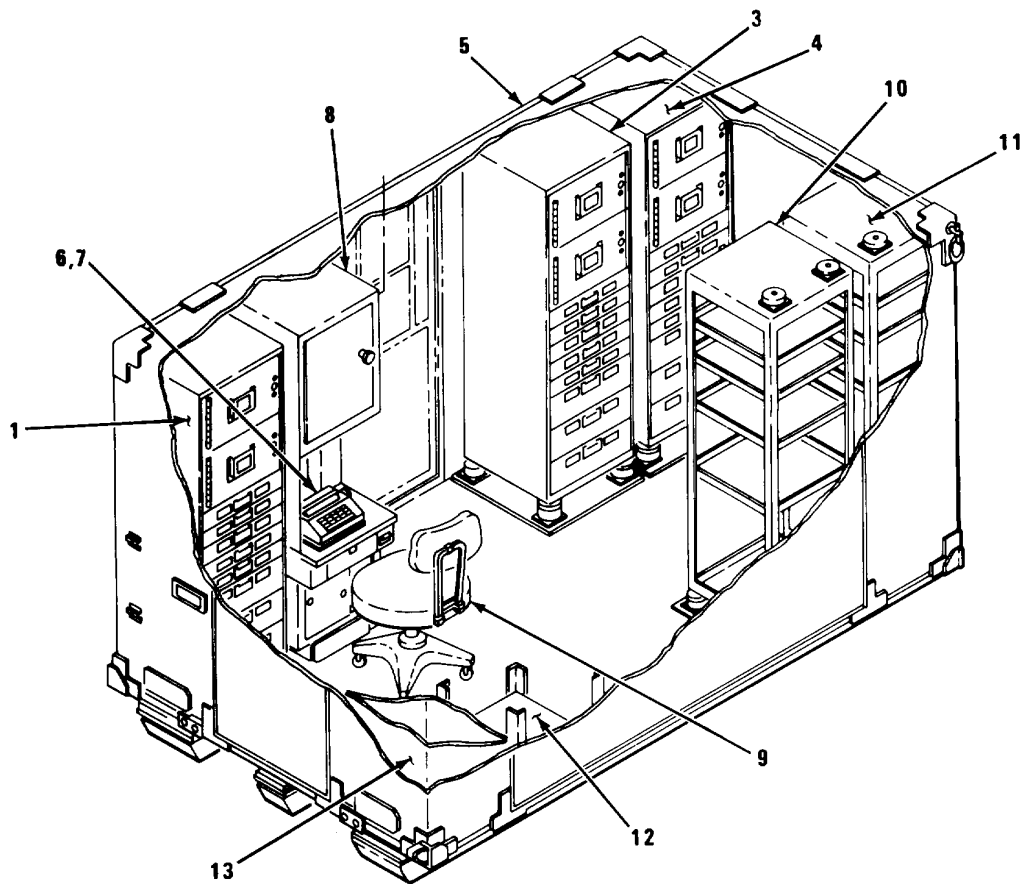
*g. Quantity Required (Qty Req'd).* This column lists the quantity of each item required for a complete major item.

*h. Quantity.* This column is left blank for use during an inventory. Under the Rcv'd column, list the quantity you actually receive on your major item. The Date columns are for your use when you inventory the major item at a later date; such as for shipment to another site.



A – AN/USM-378 FLOOR PLAN

B – AN/USM-379 FLOOR PLAN



C – AN/USM-380 INTERIOR VIEW

Figure B-1. Components of End Item

Section II. INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NO.	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(a) FIGURE NO.	(b) ITEM NO.							RDVD	DATE	DATE	DATE
B-1	3		0012-2-4002-2	RACK, STORAGE, DRAWER TYPE (15942)		A	2				
B-1	3		0012-2-4002-2	RACK, STORAGE, DRAWER TYPE (15942)		B, C	1				
B-1	4		0012-2-4002-4	RACK, STORAGE, DRAWER TYPE (15942)		A, B	2				
B-1	4		0012-2-4002-4	RACK, STORAGE, DRAWER TYPE (15942)		C	1				
B-1	10		0012-2-4003-1	RACK, STORAGE, SHELF TYPE (15942)		C	1				
B-1	11		0012-2-4003-3	RACK, STORAGE, SHELF TYPE (15942)		C	1				
B-1	9		0283-4-3004-1	CHAIR AND TIEDOWN ASSEMBLY (15942)		B, C	1				
B-1	12		0012-2-4003-2	RACK, STORAGE, SHELF TYPE (15942)		C	1				
B-1	13		0012-2-3002-1	SAFE, CABINET, ALTERED CY-4842/G (15942)		C	1				
B-1	1		0012-2-4002-3	RACK, STORAGE, DRAWER TYPE (15942)		A, B	2				
B-1	1		0012-2-4002-3	RACK, STORAGE, DRAWER TYPE (15942)		C	1				
B-1	6	7430-00-663-1241	(NO NUMBER)	TYPEWRITER, MODEL 440 (81349)		B, C	1				
B-1	7	7420-00-140-1640	566-3-3961	EQUIPMENT TRAY ASSEMBLY (15492)		B, C	1				
B-1	8		0012-2-4002-1	WORK CONSOLE ASSEMBLY (15942)		B	1				
B-1	8		0012-2-4002-2	WORK CONSOLE ASSEMBLY (15942)		C	1				
B-1	5		0012-2-4001-1	SHELTER, ELECTRICAL EQUIPMENT S-389/MSA-34 (MODIFIED) (15942)		A	1				
B-1	5		0012-2-4001-2	SHELTER, ELECTRICAL EQUIPMENT S-389/MSA-34 (MODIFIED) (15942)		B	1				
B-1	5		0012-2-4001-3	SHELTER, ELECTRICAL EQUIPMENT S-389/MSA-34 (MODIFIED) (15942)		C	1				
B-1	2		0012-2-4002-1	RACK, STORAGE, DRAWER TYPE (15942)		A, B	2				

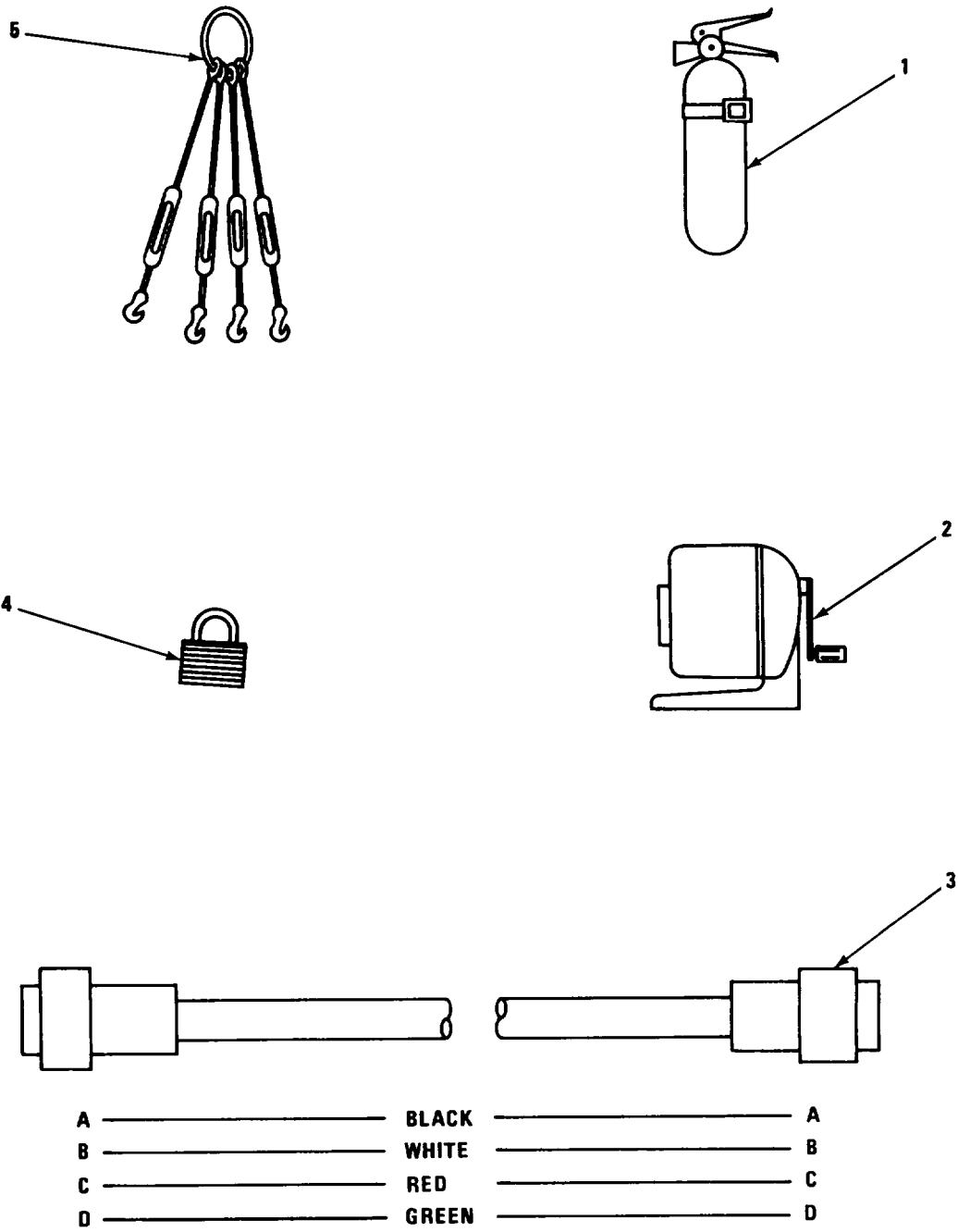


Figure B-2. Basic Issue Items

Section III. BASIC ISSUE ITEMS

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8) QUANTITY			
(a) FIGURE NO.	(b) ITEM NO.	NATIONAL STOCK NUMBER	PART NO.	DESCRIPTION	LOCATION	USABLE ON CODE	QTY REQD	RDVD	DATE	DATE	DATE
B-2	1	4210-00-555-8837	MIL-B-52031	EXTINGUISHER, FIRE W/BRACKET (99539)		A, B, C	1				
B-2	2		GG5746	PENCIL SHARPENER (81349)		B, C	1				
B-2	3		0283-1-2226-1	CABLE ASSEMBLY(15942)		A, B, C	1				
B-2	4		0283-2-2234-1	PADLOCK AND CHAIN ASSEMBLY (MODIFIED) (1 5942)		A, B, C	2				
B-2	5		0283-2-2000	SLING ASSEMBLY (15942)		A, B, C	1				

B-5/(B-6 blank)

APPENDIX C

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

**C-1 SCOPE.** This appendix lists additional items you are authorized for the support of the RPSF.

These codes are identified as:

**C-2 GENERAL.** This list identifies items that do not have to accompany the RPSF and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, or JTA.

Code	Used On
A	AN/USM-379 and AN/USM-380. This item is part of the OUTS digital clock subsystem.
B	AN/USM-378, AN/USM-379 and AN/USM-380. These items may be required for independent operation of the RPSF.

**C-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. If item required differs for different models of this equipment, the model is shown under the "Usable on" heading in the description column.

Section II. ADDITIONAL AUTHORIZATION LIST

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION  <i>PART NUMBER &amp; FSCM</i>	(3)  <i>USABLE ON CODE</i>	(4) QTY AUTH
4120-00-973-4589	AIR CONDITIONER, 208 V. 3-PHASE, 50-60 HZ CE20 VAL6 (60532)	B	EA 1
	-OR-		
4120-00-168-1781	AIR CONDITIONER, 208 V, 3-PHASE, 50-60 HZ CH620-2 (90598)	B	EA 1
--	REMOTE DISPLAY 6NR (11963)	A	EA 1
6115-00-935-5111	ELECTRIC GENERATOR, DED 30 KW, 208 V, 3-PHASE, 60 HZ SF30MDC1ED (01411)	B	EA 1
--	KIT, AIR CONDITIONER MOUNTING MK-001-1/U 0216-1-1100(15942)	B	EA 1
--	KIT, GROUND ROD, CONSISTING OF:	B	EA 1
	CABLE, GROUND 0283-1-2221-2 (15942)	B	EA 1
5975-00-186-3912	CLAMP, GROUND ROD 9592 (90190)	B	EA 1
5975-00-549-0011	ROD, GROUND 9438 (90190)	B	EA 1
--	KIT, WALKWAY, CONSISTING OF:	B	EA 1
--	WALKWAY. END 0283-14500-1 (15942)	B	EA 1
--	WALKWAY. SIDE 0283-1-4600-1 (15942)	B	EA 1

C-1/(C-2 blank)

APPENDIX D

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

D-1 GENERAL.

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

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

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

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

D-2 MAINTENANCE FUNCTIONS.

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

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

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

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

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

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

g. *Overhaul.* That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/ operational condition as prescribed by maintenance standards; i.e., Depot Maintenance Work Requirement in appropriate technical publications. Overhaul is normally the highest degree of

maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

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

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

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

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

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

- C..... Operator/Crew
- O..... Organizational maintenance
- F..... Direct support maintenance
- H..... General support maintenance
- D..... Depot maintenance

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

## APPENDIX- Continued

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

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

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

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

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

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

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

**D-5 EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.**

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

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



Section II. MAINTENANCE ALLOCATION CHART

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			C	O	F	H	D		
00	REPAIR PARTS STOWAGE FACILITY AN/USM -378 -379 -380	Inspect Test Service Install Replace Repair Overhaul		1.0 .5 .5 20.0 32.0 1.5				3 1, 2, 3 1, 2, 3 1, 2, 3 1.2,3 1, 2,3	A, B A, B A, B A, B A, B A, B, C A, B
01	SHELTER S-389/MSA-34 (MODIFIED)	Inspect Install Replace Repair Overhaul		.3 20.0 32.0	3.0			1, 2, 3 1, 2, 3 1, 2, 3 1,2,3	A, B A, B A, B A, B, C A, B
02	DRAWER STORAGE RACK	Inspect Replace Repair		.2 1.5 .5				1, 2 1, 2	
0201	STORAGE CABINET	Inspect Replace Repair		.05 .2 .5				1, 2 1, 2	
0202	DRAWER ASSEMBLIES	Inspect Replace Repair		.1 .2 .5				1, 2 1, 2	
03	SHELF STORAGE RACK	Inspect Replace Repair		.1 1.5 .5				1, 2 1, 2	
04	CABINET SAFE	Inspect Replace		.1 2.0				1, 2	
05	WORK CONSOLE	Inspect Test Replace Repair		.3 .5 1.5 .5				3 1, 2 1, 2, 3	
0501	UPPER CABINET ASSEMBLY	Inspect Replace Repair		.05 2.0 .5				1, 2 1, 2	
0502	LIGHT UNIT ASSEMBLY	Inspect Test Replace Repair		.05 .5 .5 .5				3 1, 2 1, 2, 3	
0503	WORK SURFACE ASSEMBLY	Inspect Replace Repair		.05 2.0 .5				1, 2 1, 2	
0504	LOWER CABINET ASSEMBLY	Inspect Replace Repair		.05 1.5 .5				1, 2 1, 2	

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			C	O	F	H	D		
0505	TACK-BOARD ASSEMBLY	Inspect Replace Repair		.01 2.5 .5				1, 2 1, 2	
0506	EQUIPMENT TRAY	Inspect Replace Repair		.01 .5 .3				1, 2 1, 2	
0507	TYPEWRITER	Inspect Replace Service Repair Overhaul		.1 .5 .5	1.0			1, 2 1, 2	D D D
06	CHAIR	Inspect Replace		.05 .05			2.0	1, 2	
0601	CHAIR TIEDOWN ASSEMBLY	Inspect Replace Repair		.05 .1 .5				1, 2 1, 2	
07	REMOTE DISPLAY	Inspect Replace Repair		.1 1.0 .5				2 1, 3	E

## Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Reference Code	Maintenance Level	Nomenclature	National/NATO Stock Number	Tool Number
1	0	TOOL KIT, ELECTRONIC EQUIPMENT TK-100/G (80058)	5180-00-605-0079	TK100G
2	0	TOOL KIT, ELECTRONIC EQUIPMENT TK-105/G (80058)	5180-00-610-8177	TK105G
3	0	MULTIMETER AN/USM-223 (80058)	6625-00-999-7465	ANUSM-223

**Section IV. REMARKS**

Reference Code	Remarks
A	Refer to TM 32-5410-217-14&P for shelter maintenance, with the exception of modified lighting circuitry which is shown in figure 4-1 of this manual.
B	Refer to TB 750-240 for shelter repair, with the exception of modified lighting circuitry which is shown in figure 4-1 of this manual.
C	Repair of electrical system by organizational maintenance is limited to replacement of breakers, switches and receptacles.
E	Refer to TM 32-4940-200-14&P for remote display repair.

APPENDIX E

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

**E-1 SCOPE.** This appendix lists spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Repair Parts Stowage Facilities AN/USM-378, AN/USM-379 and AN/ USM-380 (RPSF). It authorizes the requisitioning and issue of spare and repair parts as indicated by the source and maintenance codes.

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

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

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

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

**E-3 EXPLANATION OF COLUMNS.**

*a. Illustration.* This column is divided as follows:

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

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

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

(1) *Source Code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the uniform SMR code format as follows:

<u>Code</u>	<u>Definition</u>
PA -	Item procured and stocked for anticipated or known usage.
MO -	Item to be manufactured or fabricated at organizational level.
XB -	Item is not procured or stocked. If not available through salvage, requisition.
XD -	A support item that is not stocked. When required, item will be procured through normal support channels.

**NOTE:**

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

(2) *Maintenance Code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the uniform SMR code format as follows:

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

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

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

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

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

<u>Recoverability Code</u>	<u>Definition</u>
Z	- Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	- Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F	- Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
D	- Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

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

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

**NOTE**

**When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.**

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

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

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

*h. Quantity Incorporated in Unit.* Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.).

**E-4 SPECIAL INFORMATION.** Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable codes used in this appendix are:

<u>Code</u>	<u>Used On</u>
A	AN/USM-378
B	AN/USM-379
C	AN/USM-380

**E-5 HOW TO LOCATE REPAIR PARTS.**

*a. When National Stock Number or Part Number is unknown.*

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

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

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

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

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

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

cross-referenced to the illustration figure number and item number.

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

**E-6 ABBREVIATIONS.** Not applicable.

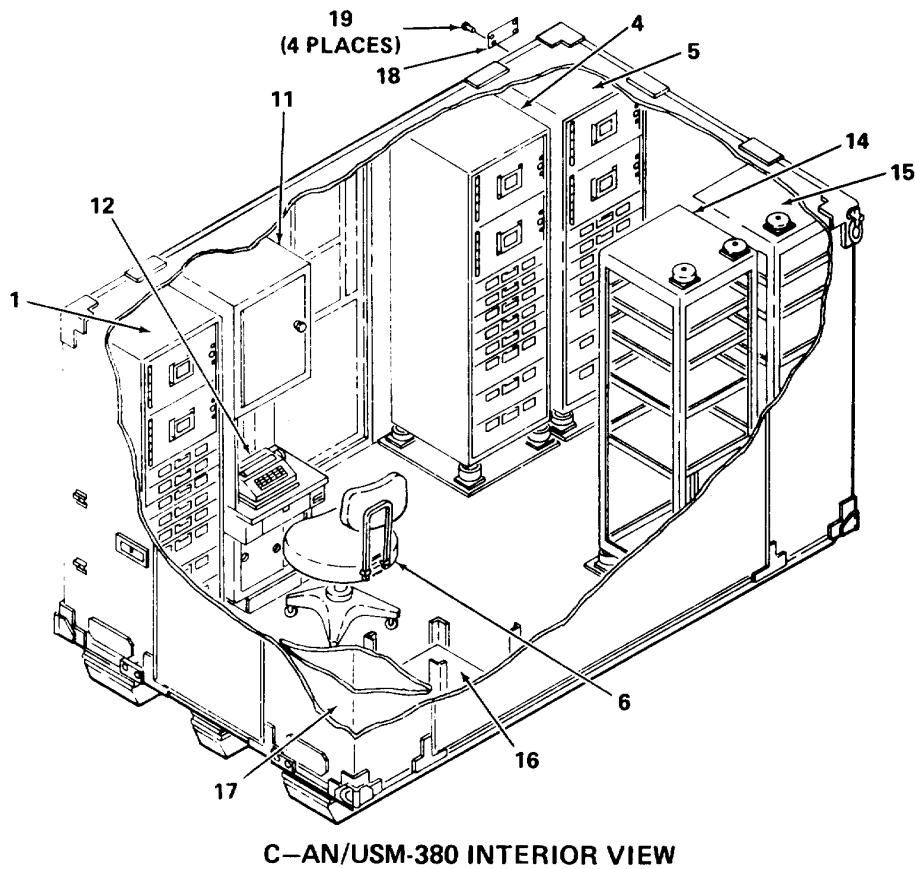
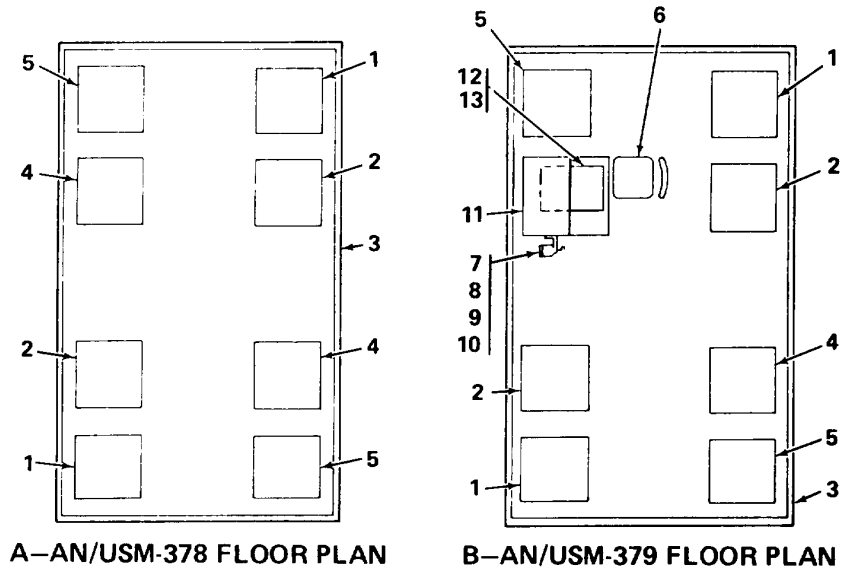
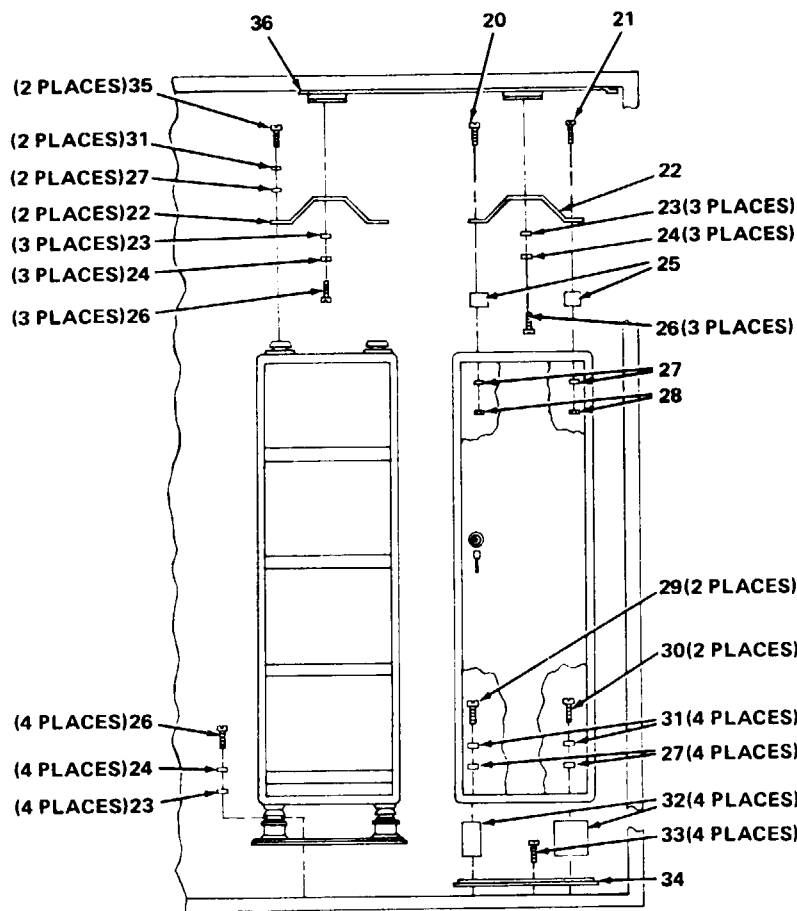
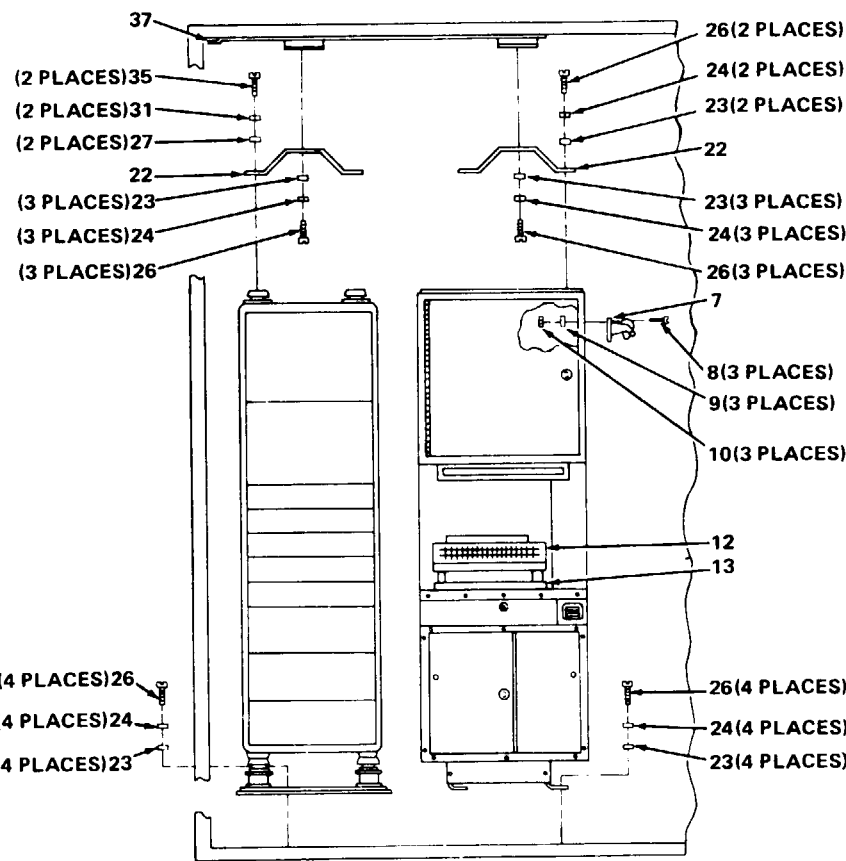


Figure E-1. Repair Parts Stowage Facilities AN/USM-378, AN/USM-379 and AN/USM-380 (Sheet 1 of 2)





**D – VIEW OF SHELF STORAGE RACK AND ALTERED SAFE**



**E – VIEW OF WORK CONSOLE AND DRAWER STORAGE RACK**

Figure E-1. Repair Parts Stowage Facilities AN/USM-378, AN/USM-379 and AN/USM-380 (Sheet 2 of 2)

Section II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 00 REPAIR PARTS STOWAGE FACILITIES AN/USM-378, AN/USM-379 AND AN/USM-380 (15942)		
E-1	1	XBOOO		0012-2-4002-3	15942	RACK, STORAGE, DRAWER TYPE	A, B EA	2
E-1	1	XBOOO		0012-2-4002-3	15942	RACK, STORAGE, DRAWER TYPE	C EA	1
E-1	2	XBOOO		0012-2-4002-1	15942	RACK, STORAGE, DRAWER TYPE	A, B EA	2
E-1	3	XBOFD		0012-2-4001-1	15942	SHELTER, ELECTRICAL EQUIPMENT, MODIFIED, S-3 89/MSA-34	A EA	1
E-1	3	XBOFD		0012-2-4001-2	15942	SHELTER, ELECTRICAL EQUIPMENT, MODIFIED, S-389/MSA-34	B EA	1
E-1	3	XBOFD		0012-2-4001-2	15942	SHELTER, ELECTRICAL EQUIPMENT, MODIFIED, S-389/M SA-34	C EA	1
E-1	4	XBOOO		0012-2-4002-2	15942	RACK, STORAGE, DRAWER TYPE	A EA	2
E-1	4	XBOOO		0012-2-4002-2	15942	RACK, STORAGE, DRAWER TYPE	B, C EA	1
E-1	5	XBOOO		0012-2-4002-4	15942	RACK, STORAGE, DRAWER TYPE	A, B EA	2
E-1	5	XBOOO		0012-2-4002-4	15942	RACK, STORAGE, DRAWER TYPE	C EA	1
E-1	6	XBOOO		0283-4-3004-1	15942	CHAIR AND TIEDOWN ASSEMBLY	B, C EA	1
E-1	7	PAOZZ	7520-00-162-6178	GG5746	81348	SHARPENER, PENCIL	B, C EA	1
E-1	8	PAOZZ	5305-00-054-6654	MS51957-30	96906	SCREW, MACHINE	B, C EA	3
E-1	9	PAOZZ	5310-00-880-5978	MS15795-807	96906	WASHER, FLAT	B, C EA	3
E-1	10	PAOZZ	5310-00-081-8087	F22NM62	72962	NUT, SELF-LOCKING, HEXAGON, NO. 6-32	B, C EA	3
E-1	11	XBOOO		0012-24004-1	15942	WORK CONSOLE ASSEMBLY	B EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-1	11	XBOOO		0012-2-4004-2	15942	WORK CONSOLE ASSEMBLY	C EA	1
E-1	12	PAOFD	7430-00-663-1241	(NO REF)	81349	TYPEWRITER, MODEL 440	B, C EA	1
E-1	13	PAOZZ	7420-00-140-1640	566-3-3961	15942	EQUIPMENT TRAY ASSEMBLY	B, C EA	1
E-1	14	XBOOO		0012-2-4003-1	15942	RACK, STORAGE, DRAWER TYPE	C EA	1
E-1	15	XBOOO		0012-2-4003-3	15942	RACK, STORAGE, DRAWER TYPE	C EA	1
E-1	16	XBOOO		0012-2-4003-2	15942	RACK, STORAGE, SHELF TYPE	C EA	1
E-1	17	XBOOO		0012-2-3002-1	15942	SAFE, CABINET, ALTERED GFE TYPE CY4842/G (NSN 71 25-00-95 2-9286)	C EA	1
E-1	18	PAOZZ		0012-1-3999-2	15942	PLATE, IDENTIFICATION	A EA	1
E-1	18	PAOZZ		0012-1-3999-3	15942	PLATE, IDENTIFICATION	B EA	1
E-1	18	PAOZZ		0012-1-3999-4	15942	PLATE, IDENTIFICATION	C EA	1
E-1	19	PAOZZ	5310-00-882-8388	AD43H	07707	RIVET, BLIND	EA	4
E-1	20	PAOZZ	5305-00-879-2736	MS35307-372	96906	SCREW, MACHINE	C EA	1
E-1	21	PAOZZ	5305-00-822-5853	MS35307-368	96906	SCREW, MACHINE	C EA	1
E-1	22	XBOZZ		0283-4-4709-1	15942	BRACKET, DOUBLE ANGLE	EA	8
E-1	23	PAOZZ	5310-00-582-5677	MS15795-810	96906	WASHER, FLAT	A, B EA	144
E-1	23	PAOZZ	5310-00-582-5677	MS15795-810	96906	WASHER, FLAT	C EA	136
E-1	24	PAOZZ	5310-00-933-8121	MS35338-139	96906	WASHER, LOCK	A, B EA	144
E-1	24	PAOZZ	5310-00-933-8121	MS35338-139	96906	WASHER, LOCK	C EA	136
E-1	25	XBOZZ		0283-4-2300-2	15942	SPACER, SLEEVE	C EA	2
E-1	26	PAOZZ	5305-00-207-8253	MS35307-308	96906	SCREW, MACHINE	A, B EA	144
E-1	26	PAOZZ	5305-00-207-8253	MS35307-308	96906	SCREW, MACHINE	C EA	136
E-1	27	PAOZZ	5310-00-773-7618	MS15795-814	96906	WASHER, FLAT	A EA	16
E-1	27	PAOZZ	5310-00-773-7618	MS15795-814	96906	WASHER, FLAT	B EA	14
E-1	27	PAOZZ	5310-00-773-7618	MS15795-814	96906	WASHER, FLAT	C EA	12
E-1	28	PAOZZ	5310-00-087-4652	MS51922-17	96906	NUT, SELF-LOCKING, HEXAGON	C EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-1	29	PAOZZ		3-8-16X5-50	70318	SCREW, CAP, HEXAGON HEAD, CORROSION-RESISTANT STEEL, NO. 3/8-16, 5 1/2 INCH LONG	C EA	2
E-1	30	PAOZZ	5305-00-558-5428	MS35307-374	96906	SCREW, MACHINE	C EA	2
E-1	31	PAOZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	A, C EA	16
E-1	31	PAOZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	B EA	14
E-1	32	XBOZZ		0283-4-2300-1	15942	SPACER, SLEEVE	C EA	4
E-1	33	PAOZZ	5305-00-988-7835	MS16995-54	96906	SCREW, MACHINE	C EA	7
E-1	34	XBOZZ		0012-2-2004-1	15942	PLATE, MOUNTING, MODIFIED C	EA	1
E-1	35	PAOZZ	5305-00-717-5467	MS35307-362	96906	SCREW, MACHINE	A EA	16
E-1	35	PAOZZ	5305-00-717-5467	MS35307-362	96906	SCREW, MACHINE	B EA	14
E-1	35	PAOZZ	5305-00-717-5467	MS35307-362	96906	SCREW, MACHINE	C EA	12
E-1	36	XBOZZ		0283-4-4714-1	15942	BRACKET ASSEMBLY, TWIN STABILIZER MOUNT	EA	2
E-1	37	XBOZZ		0283-4-4714-2	15942	BRACKET ASSEMBLY, TWIN STABILIZER MOUNT	EA	2

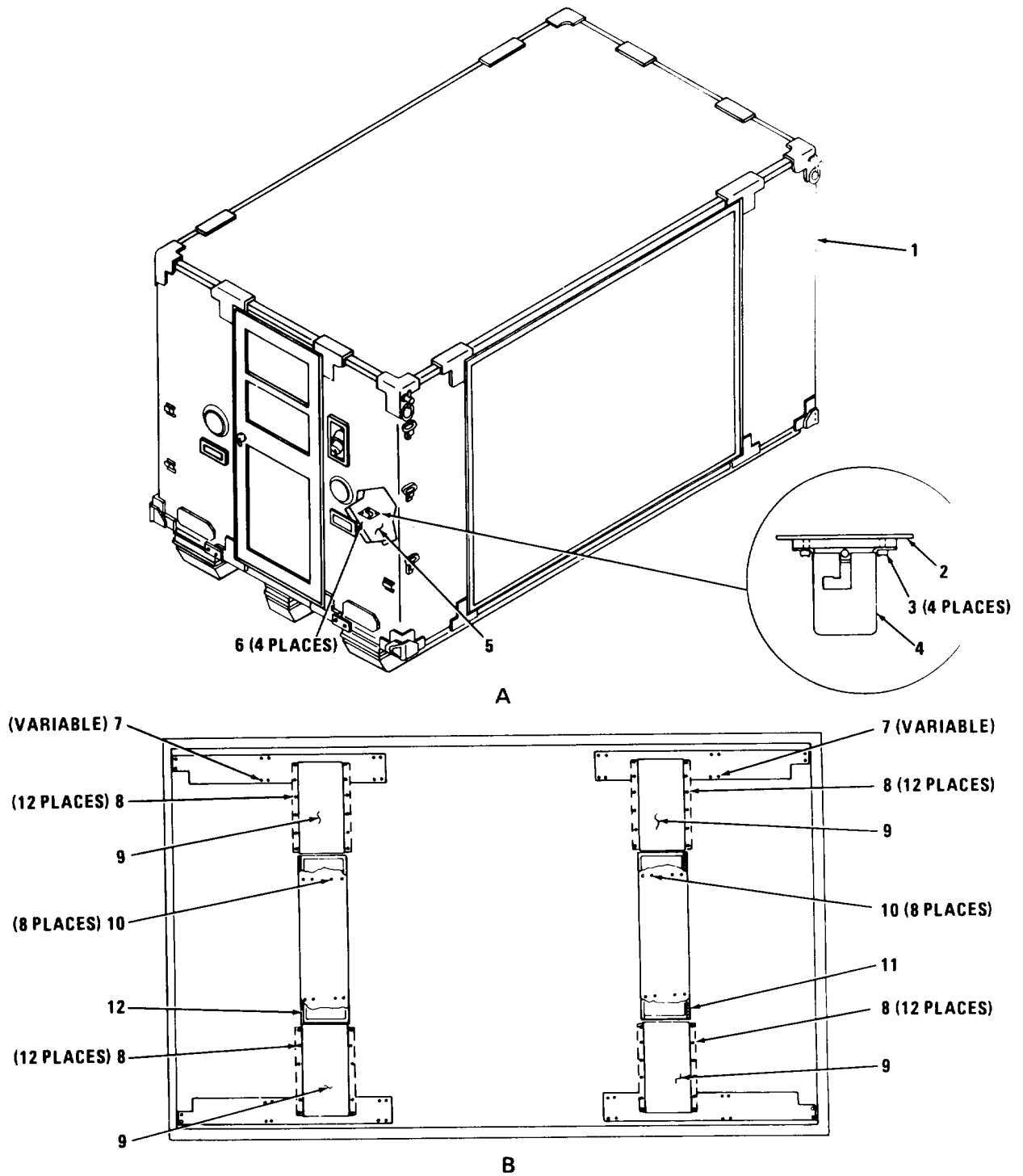


Figure E-2. Electrical Equipment Shelter S-389/1ASA-34 (modified)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-2	1	XBOFD		0283-2-1000	15942	GROUP: 01 ELECTRICAL EQUIP- S-389/MSA-34 (MODIFIED) (15942)  SHELTER, ELECTRICAL EQUIPMENT S-389/MSA-34	EA	1
E-2	2	XBOZZ		0283-4-2025	15942	PLATE, FLOOR, CHAIR TIE- DOWN, PART OF KIT P/N 02834-2003	B, C EA	1
E-2	3	PAOZZ		FH4-40X1-4	70318	SCREW, MACHINE, FILLIS- TER HEAD CORROSION- RESISTANT STEEL, NO. 4-40. 1/4 INCH LONG, PART OF KIT P/N 02834-2003	B, C EA	4
E-2	4	XDOZZ		SP2189	96603	FITTING, FLOOR, PART OF KIT P/N 0283-4-2003	B, C EA	1
E-2	5	PAOZZ		0012-2-3004-1	15942	MAT, FLOOR	A EA	1
E-2	5	PAOZZ		0012-2-3005-1	15942	MAT, FLOOR	B EA	1
E-2	5	PAOZZ		0012-2-3005-2	15942	MAT, FLOOR	C EA	1
E-2	6	PAOZZ	5320-00-956-7355	AD64H	07707	RIVET, BLIND	B, C EA	4
E-2	7	PAOZZ	5310-00-827-8976	S25B200	03481	NUT, BLIND RIVET	A EA	104
E-2	7	PAOZZ	5310-00-827-8976	S25B200	03481	NUT, BLIND RIVET	B EA	100
E-2	7	PAOZZ	5310-00-827-8976	S25B200	03481	NUT, BLIND RIVET	C EA	99
E-2	8	PAOZZ	5320-00-904-4136	AD43ABS	07707	RIVET, BLIND	EA	48
E-2	9	XBOZZ		0012-2-3001-1	15942	COVER, LIGHT RECESS	EA	4
E-2	10	PAOZZ	5320-00-904-4136	AD43ABS	07707	RIVET, BLIND	EA	16
E-2	11	XBOFF		0012-2-3003-2	15942	LIGHT UNIT, ALTERED	EA	1
E-2	12	XBOFF		0012-2-3003-1	15942	LIGHT UNIT, ALTERED	EA	1
E-2		XBOOO		0283-4-2003	15942	FLOOR SOCKET KIT	B, C EA	1
E-2	2					PLATE, FLOOR, CHAIR TIE-DOWN	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-2	3					SCREW, MACHINE, FILLISTER HEAD, CORROSION-RESISTANT STEEL, NO. 4-40, 1/4 INCH LONG	EA	4
E-2	4					FITTING, FLOOR	EA	1

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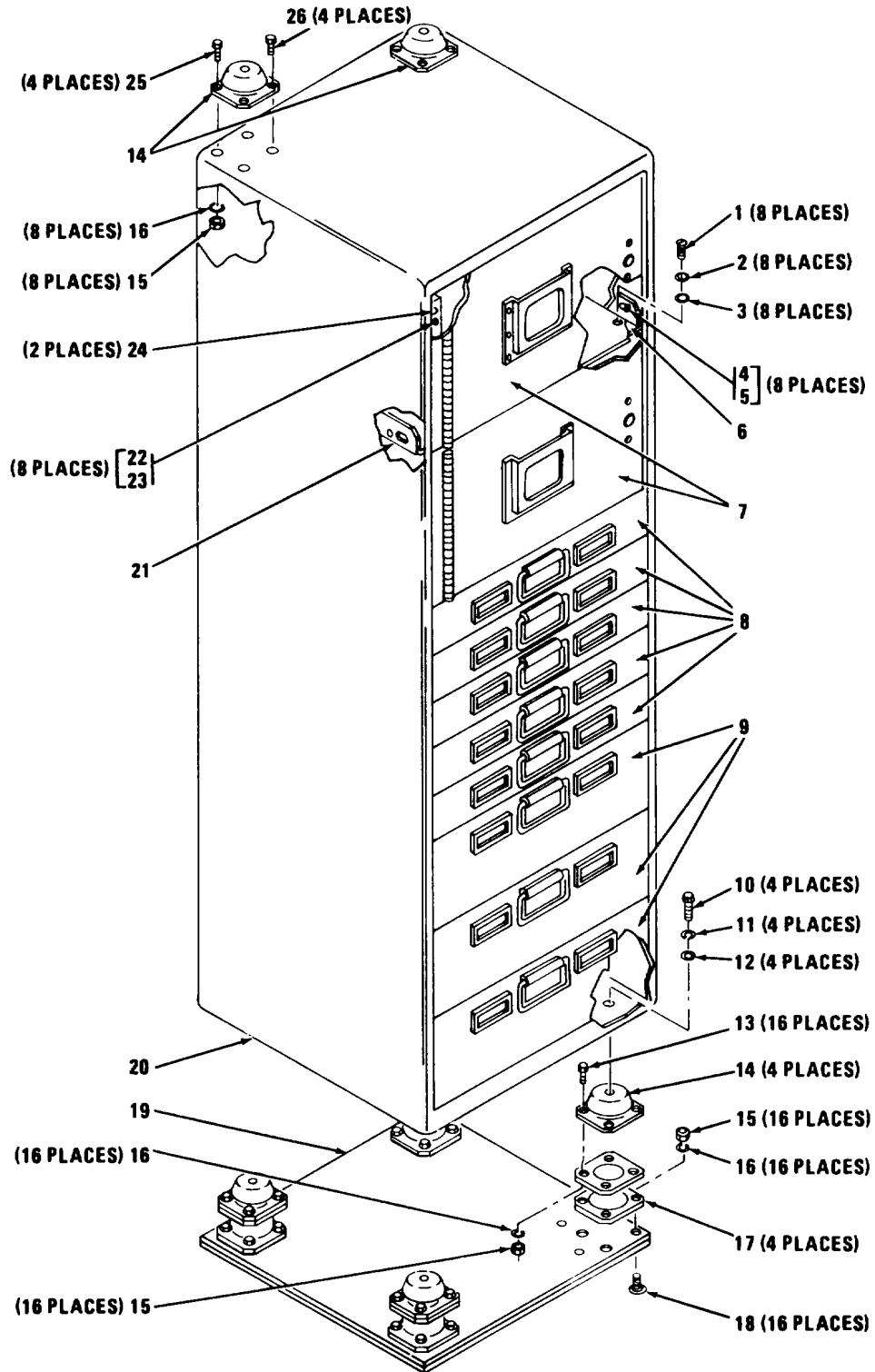


Figure E-3. Drawer Storage Rack

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-3	1	PAOZZ	5305-00-059-3657	MS51958-61	96906	GROUP: 02 DRAWER STORAGE RACK (15942) SCREW, MACHINE	EA	8
E-3	2	PAOZZ	5310-00-933-8124	MS35338-138	96906	WASHER, LOCK	EA	8
E-3	3	PAOZZ	5310-00-595-6772	MSI5795-808	96906	WASHER, FLAT	EA	8
E-3	4	PAOZZ		MS15958-65	96906	SCREW, MACHINE	EA	8
E-3	5	PAOZZ	5835-00-466-8508	566-1-2998-2	15942	CHANNEL NUT ASSEMBLY	EA	8
E-3	6	XBOZZ		0012-2-3006-2	15942	SUPPORT, CABINET, RIGHT HAND	EA	1
E-3	7	XBOOO		0283-4-4627-1	15942	CABINET, STORAGE	EA	2
E-3	8	XBOOO		0283-4-4629-1	15942	DRAWER ASSEMBLY, 3-1/2 INCH HIGH	EA	5
E-3	9	XBOOO		0283-4-4629-2	15942	DRAWER ASSEMBLY, 7 INCH HIGH	EA	3
E-3	10	PAOZZ	5305-00-717-5467	MS35307-362	96906	SCREW, MACHINE	EA	4
E-3	11	PAOZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	EA	4
E-3	12	PAOZZ	5310-00-773-7618	MS15795-814	96906	WASHER, FLAT	EA	4
E-3	13	PAOZZ		MS35307-307	96906	SCREW, MACHINE	EA	16
E-3	14	PAOZZ	5340-00-597-6190	C2090T6	80058	MOUNT, RESILIENT	EA	6
E-3	15	PAOZZ	5310-00-834-2945	F42NE040	72962	NUT, SELF-LOCKING, HEXAGON, NO. 1/4-20	EA	40
E-3	16	PAOZZ		MS15795-809	96906	WASHER, FLAT	EA	40
E-3	17	PAOZZ		0283-4-2039	15942	STANDOFF, ELECTRICAL EQUIPMENT RACK	EA	4
E-3	18	PAOZZ	5305-00-719-5007	MS51959-83	96906	SCREW, MACHINE	EA	16
E-3	19	XBOZZ		0012-2-2003-1	15942	BASE, ELECTRICAL EQUIPMENT RACK (USED ON RACK 0012-2-4002-1 AND -2)	EA	1
E-3	19	XBOZZ		0283-4-3023-1	15942	BASE, ELECTRICAL EQUIPMENT RACK (USED ON RACK 0012-2-4002-3 AND 4)	EA	1
E-3	20	PAOOO	5830-00-327-5066	MT-1579/G	80058	RACK, ELECTRICAL EQUIPMENT	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-3	21	XBOZZ		0012-2-3006-1	15942	SUPPORT, CABINET, LEFT HAND	EA	1
E-3	22	PAOZZ	5305-00-071-1327	MS51960-70	96906	SCREW, MACHINE	EA	8
E-3	23	PAOZZ	5835-00-466-8505	566-1-2998-2	15942	CHANNEL NUT ASSEMBLY	EA	8
E-3	24	XBOZZ		0012-2--2005-1	15942	SPACER, PLATE	EA	2
E-3	25	PAOZZ	5305-00-616-6370	MS35307-313	96906	SCREW, MACHINE	EA	4
E-3	26	PAOZZ	5305-00-576-5807	MS35307-311	96906	SCREW, MACHINE	EA	4

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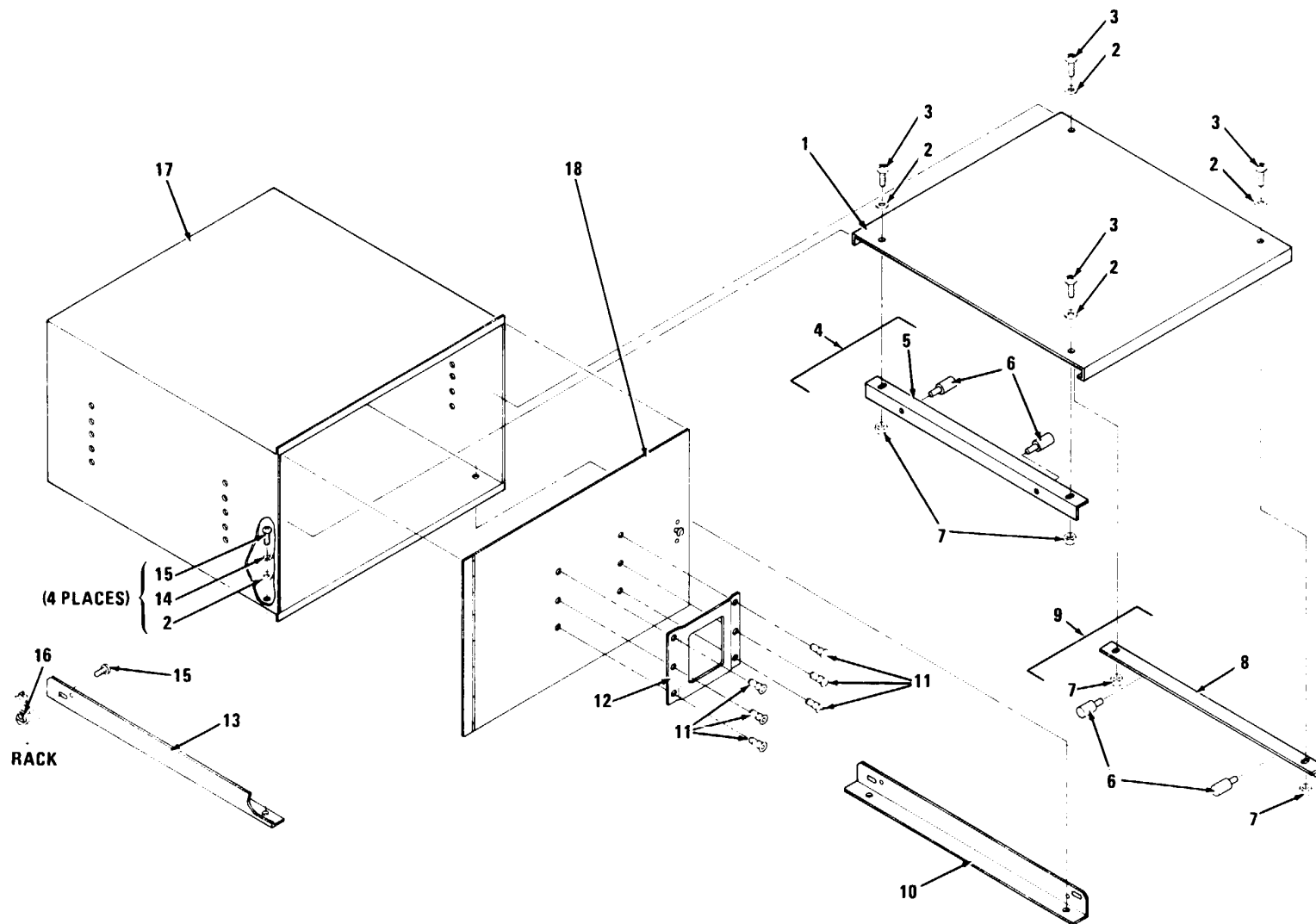


Figure E-4. Storage Cabinet

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
						GROUP: 0201 STORAGE CABINET (15942)		
E-4	1	XBOZZ		0283-4-3628	15942	SHELF, ADJUSTABLE	EA	1
E-4	2	PAOZZ	5310-00-550-5054	MS15795-809	96906	WASHER, FLAT	EA	8
E-4	3	PAOZZ	5305-00-059-3659	MS51958-63	96906	SCREW, MACHINE	EA	4
E-4	4	XBOZZ		0283-4-3629-1	15942	SUPPORT, SHELF	EA	1
E-4	5	XBOZZ		0283-4-3629-3	15942	SUPPORT, LEFT HAND	EA	1
E-4	6	PAOZZ	5325-491-1402	56-10-801-10	94222	PLUNGER, SPRING LOADED	EA	4
E-4	7	PAOZZ	5310-00-877-5797	MS21044N3	96906	NUT, SELF-LOCKING	EA	4
E-4	8	XBOZZ		0283-4-3629-3	15942	SUPPORT, RIGHT HAND	EA	1
E-4	9	XBOZZ		0283-4-3629-2	15942	SUPPORT, SHELF	EA	1
E-4	10	XBOZZ		0283-4-3630-2	15942	SUPPORT, CABINET	EA	1
E-4	11	PAOZZ	5320-00-177-6814	AN470AD3-3	88044	RIVET, SOLID	EA	6
E-4	12	XDOZZ		1923-1-4H	14608	CARDHOLDER	EA	1
E-4	13	XBOZZ		0283-4-3630-1	15942	SUPPORT, CABINET	EA	1
E-4	14	PAOZZ	5310-00-933-8120	MS35338-138	96906	WASHER, LOCK	EA	4
E-4	15	PAOZZ	5305-00-059-3656	MS51958-61	96906	SCREW, MACHINE	EA	8
E-4	16	XBOOO		566-1-2998-2	15942	SPRING AND NUT ASSEMBLY	EA	4
E-4	17	XBOOO		0283-4-4627-1	15942	CABINET, STORAGE (M/F CY6154G)	EA	1
E-4	17	PAOOO	7125-00-749-3008	CY6154G	06840	CABINET, STORAGE (ALTER TO 0283-4-4627-1)	EA	1
E-4	18	XBOOO		0283-4-4627	15942	CABINET, MODIFIED	EA	1

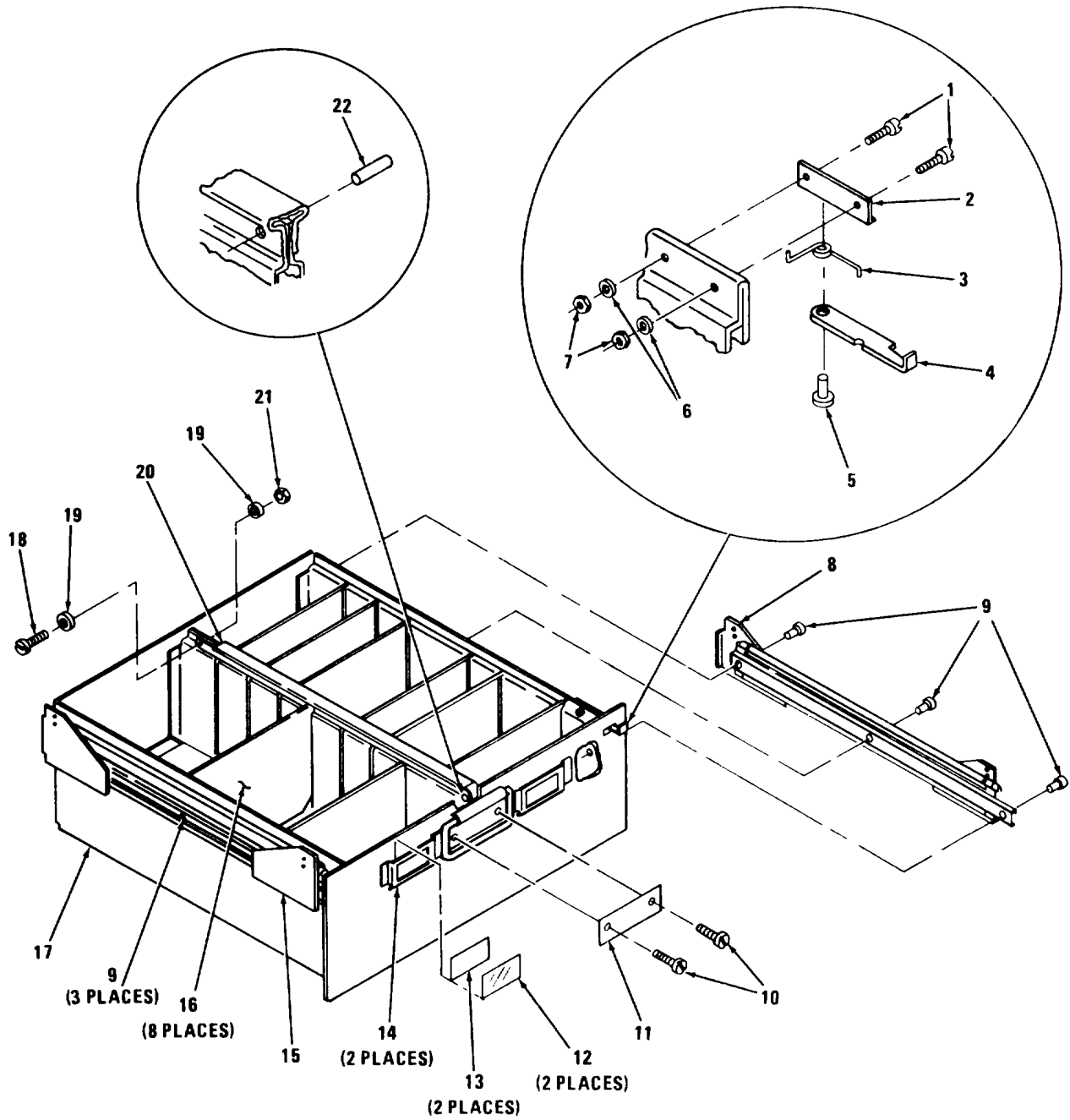


Figure E-5. Drawer Assemblies

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 0202 DRAWER ASSEMBLIES (15942)		
E-5	1	PAOZZ	5305-00-940-9491	MS35275-30	96906	SCREW, MACHINE PART OF SET P/N 0293-4-2622	EA	2
E-5	2	XBOZZ		0283-4-2526	15942	BRACKET PART OF SET P/N 0293-4-2622	EA	1
E-5	3	XBOZZ		0283-4-2626	15942	STRING, TORSION PART OF SET P/N 0293-4-2622	EA	1
E-5	4	XBOZZ		0283-4-2626	15942	LATCH PART OF SET P/N 02934-2622	EA	1
E-5	5	PAOZZ		(NO NUMBER)	12014	RIVET, SHOULDER, 1/4 INCH DIA, METER, 1/4 INCH LONG SHOLDER PART OF SET P/N 0293-4-2622	EA	1
E-5	6	PAOZZ	5310-00-722-5998	MS15795-805	96906	WASHER, FLAT PART OF SET P/N 0293-4-622	EA	2
E-5	7	PAOZZ	5310-00-982-6813	79M62	72962	NUT, SELF-LOCKING, HEXAGON, NO, 6-32 PART OF SET P/N 0293-4-2622	EA	2
E-5	8	XBOZZ		0283-4-3631-2	15942	SLIDE, RIGHT HAND	EA	1
E-5	9	PAOZZ		R3705-1-4	12014	RIVET, TUBULAR	EA	6
E-5	10	PAOZZ	5305-00-253-5603	MS21318-1	96906	SCREW, DRIVE	EA	2
E-5	11	XBOZZ		0283-4-4629-9	15942	PLATE, IDENTIFICATION	EA	1
E-5	12	MOOZZ				PLASTIC, CLEAR	EA	2
E-5	13	MOOZZ				PLATE, IDENTIFICATION, CARD STOCK	EA	2
E-5	14	PAOZZ		(NO NUMBER)	15942	PLATE, IDENTIFICATION	EA	2
E-5	15	XBOZZ		0283-4-3631-6	15942	SLIDE, LEFT HAND	EA	1
E-5	16	XBOZZ		0283-4-2623-1	15942	PARTITION, 3 INCH HIGH (USED ON DRAWER 0283-4-4629-1)	EA	8
E-5	16	XBOZZ		0283-4-2623-2	15942	PARTITION, 6-1/2 INCH HIGH (USED ON DRAWER 0283-4-4629-2)	EA	8
E-5	17	XBOZZ		0283-4-4631	15942	WELDMENT, DRAWER (USED ON DRAWER 0283-4-4629-1)	EA	1
E-5	17	XBOZZ		0283-4-4630	15942	WELDMENT, DRAWER (USED ON DRAWER 0283-4-4629-2)	EA	1



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U/M	QTY INC IN UNIT
						<i>Usable On Code</i>		
E-5	18	PAOZZ	5305-00-912-4837	MS35276-264	96906	SCREW, MACHINE	EA	1
E-5	19	PAOZZ	5310-00-619-1148	MS15795-808	96906	WASHER, FLAT	EA	2
E-5	20	XBOZZ		0283-4-3632	15942	BAR, RETAINER	EA	1
E-5	21	PAOZZ	5310-00-208-9255	79NM02	72962	NUT, SELF-LOCKING, HEXAGON, NO. 10-32	EA	1
E-5	22	PAOZZ	5325-00-286-1157	XX49203	83058	PIN, SPRING	EA	1
E-5		XBOOO		0293-4-2622	15942	LATCH ASSEMBLY SET	EA	1
E-5	1					SCREW, MACHINE	EA	2
E-5	2					BRACKET	EA	1
E-5	3					SPRING, TORSION	EA	1
E-5	4					LATCH	EA	1
E-5	5					RIVET, SHOULDER, 1/4 INCH DIAMETER, 1/4 INCH LONG SHOULDER	EA	1
E-5	6					WASHER, FLAT	EA	2
E-5	7					NUT, SELF- LOCKING, HEXAGON, NO. 6-32	EA	2

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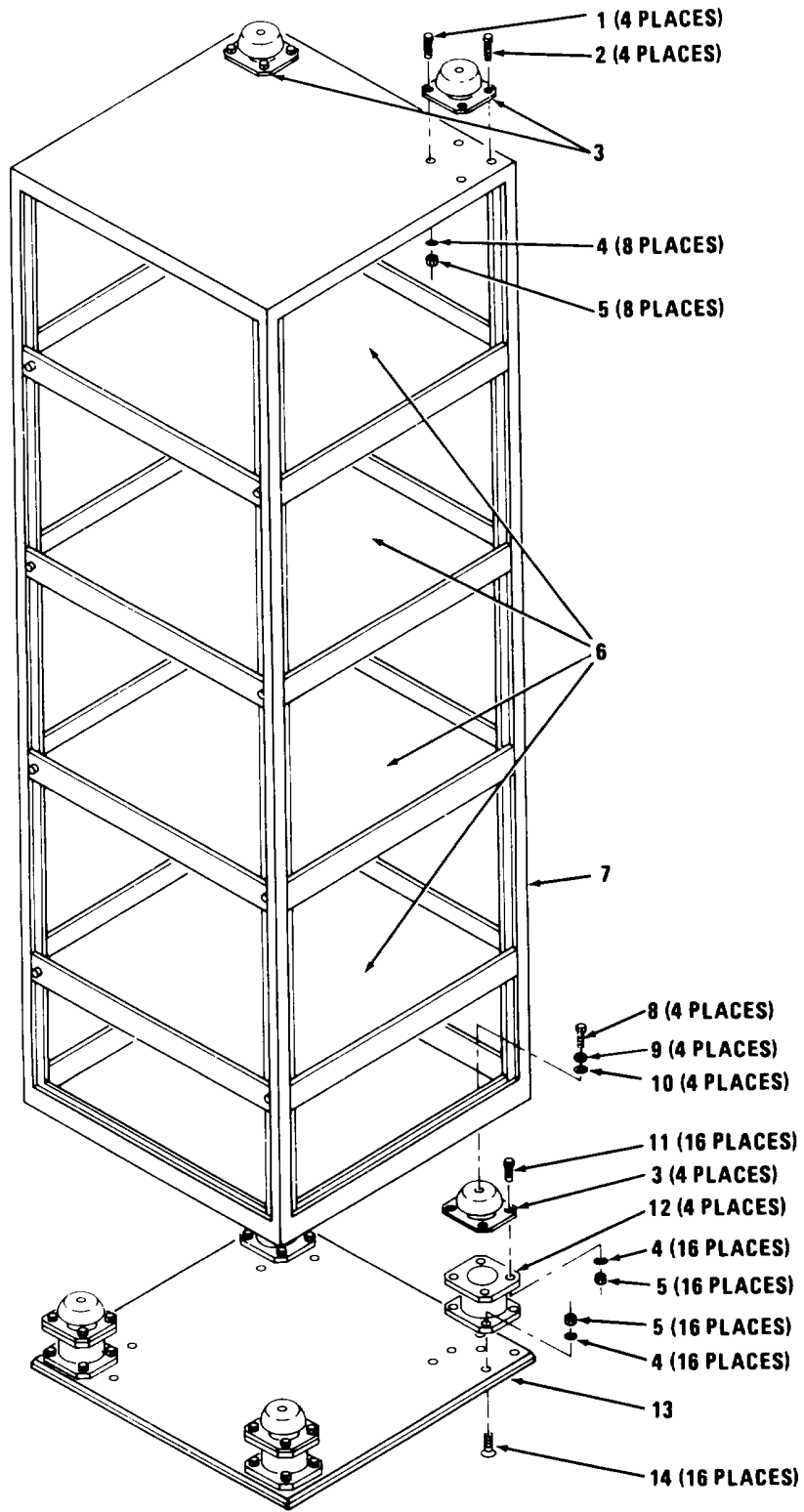


Figure E-6. Shelf Storage Rack

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 03 SHELF STORAGE RACK (15942)		
E-6	1	PAOZZ	5305-00-576-5807	MS35307-311	96906	SCREW, MACHINE	C EA	4
E-6	2	PAOZZ	5305-00-616-6370	MS35307-313	96906	SCREW, MACHINE	C EA	4
E-6	3	PAOZZ	5340-00-597-6190	C2090T6	81860	MOUNT, RESILIENT	C EA	6
E-6	4	PAOZZ	5310-00-582-5677	MS15795-810	96906	WASHER, FLAT	C EA	40
E-6	5	PAOZZ	5310-00-834-2945	F42NE040	72962	NUT, SELF-LOCKING, HEXAGON, NO. 1/4 -20	C EA	40
E-6	6	XDOZZ		582-1	15578	SHELF, ELECTRICAL EQUIPMENT (MODIFIED MT-1582/A TYPE)	C EA	4
E-6	7	PAOOO	5830-00-327-5066	MT-1579/G	80058	RACK, ELECTRICAL EQUIPMENT	C EA	1
E-6	8	PAOZZ	5305-00-717-5467	MS35307-362	96906	SCREW, MACHINE	C EA	4
E-6	9	PAOZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	C EA	4
E-6	10	PAOZZ	5310-00-773-7616	MS15795-814	96906	WASHER, FLAT	C EA	4
E-6	11	PAOZZ	5305-00-021-3620	MS35307-307	96906	SCREW, MACHINE	C EA	16
E-6	12	PAOZZ	5895-00-475-9470	0283-4-2039	15942	STANDOFF, ELECTRICAL EQUIPMENT RACK	C EA	4
E-6	13	XBOZZ		0012-2-2003-1	15942	BASE, ELECTRICAL EQUIPMENT RACK (USED ON RACK 0012-4-4003-1 AND -2)	C EA	1
E-6	13	XBOZZ		0283-3023-1	15942	BASE, ELECTRICAL EQUIPMENT RACK (USED ON RACK 0012-4-4003-3)	C EA	1
E-6	14	PAOZZ		MS51959-83	96906	SCREW, MACHINE	C EA	16

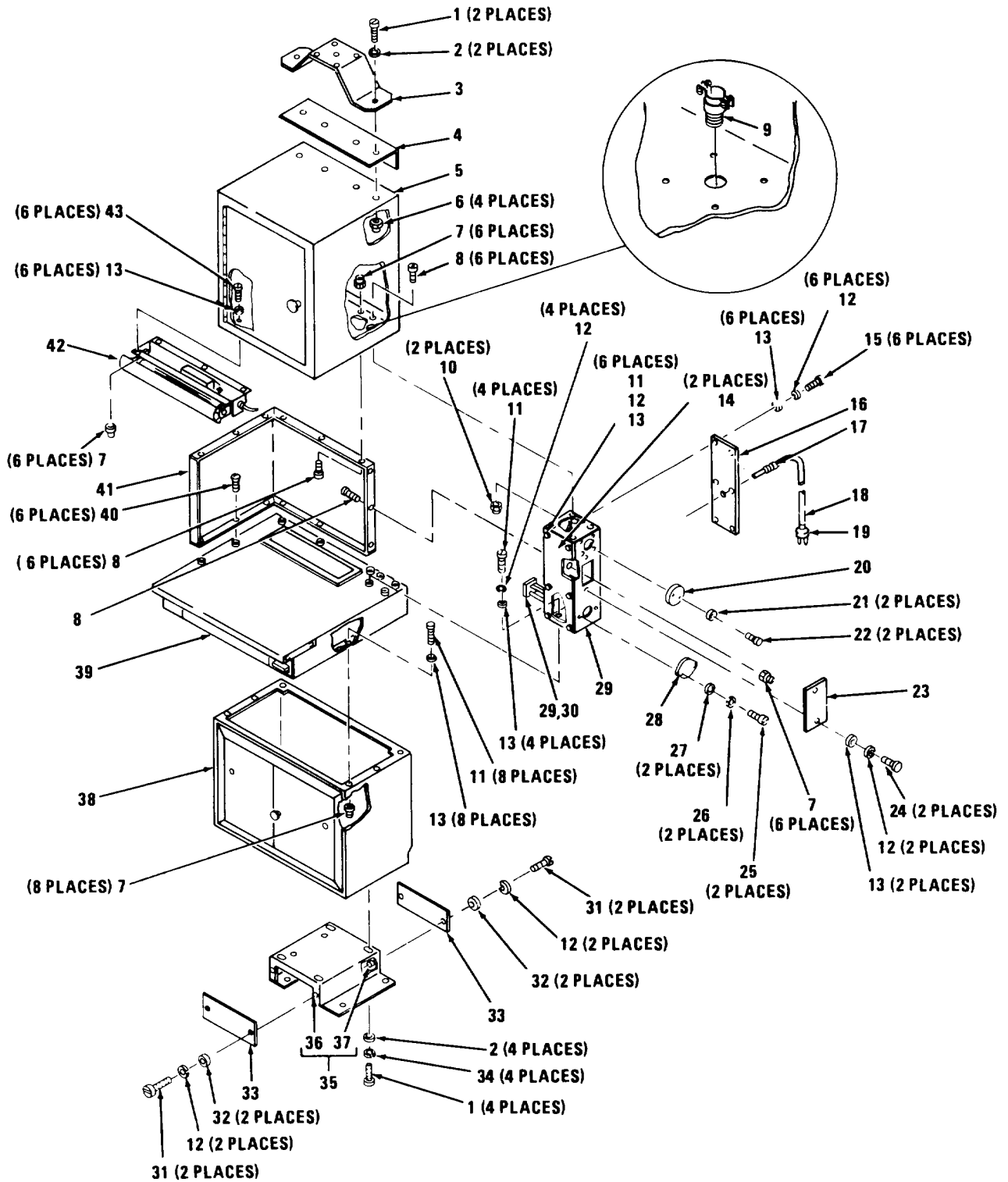


Figure E-7. Work Console Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 05 WORK CONSOLE ASSEMBLY (15942)		
E-7	1	PAOZZ	5305-00-702-4523	MS35307-306	96906	SCREW, MACHINE	B, C	EA 8
E-7	2	PAOZZ	5310-00-582-5677	MS15795-810	96906	WASHER, FLAT	B, C	EA 8
E-7	3	XBOZZ		0283--4-4709-1	15942	BRACKET, DOUBLE ANGLE	B, C	EA 1
E-7	4	XBOZZ		0012-2-2001-1	15942	STABILIZER, STIFFENER	B	EA 1
E-7	4	XBOZZ		0012-2-2001-2	15942	STABILIZER, STIFFENER	C	EA 1
E-7	5	XBOOO		0012-2-3008-1	15942	UPPER CABINET ASSEMBLY	B	EA 1
E-7	5	XBOOO		0012-2-3008-2	15942	UPPER CABINET ASSEMBLY	C	EA 1
E-7	6	PAOZZ	5310-00-088-1251	MS51922-1	96906	NUT, SELF-LOCKING	B, C	EA 4
E-7	7	PAOZZ	5310-00-877-5797	MS21044N3	96906	NUT, SELF-LOCKING	B, C	EA 20
E-7	8	PAOZZ	5305-00-071-1322	MS51960-65	96906	SCREW, MACHINE	B, C	EA 12
E-7	9	PAOZZ	5975-00-152-1144	3302	59730	CONNECTOR	B, C	EA 1
E-7	10	PAOZZ	5310-00-088-0551	F22NM40	72962	NUT, SELF-LOCKING	B, C	EA 2
E-7	11	PAOZZ	5305-00-059-3660	MS51958-64	96906	SCREW, MACHINE	B, C	EA 18
E-7	12	PAOZZ	5310-00-933-8120	MS35338-138	96906	WASHER, LOCK	B	EA 20
E-7	12	PAOZZ	5310-00-933-8120	MS35338-138	96906	WASHER, LOCK	C	EA 22
E-7	13	PAOZZ	5310-00-619-1148	MS15795-808	96906	WASHER, FLAT	B	EA 26
E-7	13	PAOZZ	5310-00-619-1148	MS15795-808	96906	WASHER, FLAT	C	EA 24
E-7	14	XBOZZ		0283-4-3510-1	15942	COVER, PANEL, ELECTRICAL DUCT	B, C	EA 2
E-7	15	PAOZZ	5305-00-059-3663	MS51958-67		SCREW, MACHINE	B, C	EA 6
E-7	16	XBOZZ		0012-2-2000-1	15942	PANEL, BLANK COVER	B, C	EA 1
E-7	17	PAOZZ		722-0009	24618	BUSHING, STRAIN RELIEF	B, C	EA 1
E-7	18	PAOZZ		1953-3	70331	CORD, ELECTRICAL, 15 FEET	B, C	EA 1
E-7	19	PAOZZ		7567-6	74545	PLUG, TWIST LOCK	B, C	EA 1
E-7	20	XBOZZ		0012-2-2007-1	15942	PLATE	B, C	EA 1
E-7	21	PAOZZ	5310-00-782-1349	MS15795-804	96906	WASHER, FLAT	B, C	EA 2
E-7	22	PAOZZ	5305-00-770-2579	MS51959-15	96906	SCREW, MACHINE	B, C	EA 2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-7	23	XBOZZ		0012-2-2008-1	15942	PLATE	C	EA 1
E-7	24	PAOZZ	5305-00-059-3663	MS51958-67	96906	SCREW, MACHINE	C	EA 2
E-7	25	PAOZZ	5305-00-054-6654	MS51957-30	96906	SCREW, MACHINE	B, C	EA 2
E-7	26	PAOZZ	5310-00-929-6395	MS35338-136	96906	WASHER, LOCK	B, C	EA 2
E-7	27	PAOZZ	5310-00-880-5976	MS15795-806	96906	WASHER, FLAT	B, C	EA 2
E-7	28	XBOZZ		0012-2-2006-1	15942	PLATE	B, C	EA 1
E-7	29	XBOZZ		0012-2-3009-1	15942	EXTENSION, DUCT, ELECTRICAL	B	EA 1
E-7	29	XBOZZ		0012-2-3009-2	15942	EXTENSION, DUCT, ELECTRICAL	C	EA 1
E-7	30	PAOZZ	5935-00-432-7733	1369	75582	OUTLET, ELECTRICAL CONVENIENCE	B, C	EA 2
E-7	31	PAOZZ	5305-00-059-3661	MS51958-65	96906	SCREW, MACHINE	B, C	EA 10
E-7	32	PAOZZ	5310-00-550-5054	MS15795-809	96906	WASHER, FLAT	B, C	EA 4
E-7	33	XBOZZ		0012-2-2002-1	15942	PLATE, BASE, WORK CONSOLE	B, C	EA 2
E-7	34	PAOZZ	5310-00-933-8121	MS35338-139	96906	WASHER, LOCK	B, C	EA 4
E-7	35	XBOOO		0012-2-3000-1	15942	BASE, CABINET	B, C	EA 1
E-7	36	XBOZZ		0012-2-3000-2	15942	BASE	B, C	EA 1
E-7	37	PAOZZ	5310-00-180-5117	S10-130	03481	NUT, BLIND RIVET	B, C	EA 4
E-7	38	XBOOO		028344508-1	15942	LOWER CABINET ASSEMBLY	B	EA 1
E-7	38	XBOOO		028344508-2	15942	LOWER CABINET ASSEMBLY	C	EA 1
E-7	39	XBOOO		028344509-7	15942	WORK SURFACE ASSEMBLY	B	EA 1
E-7	39	XBOOO		0283-44509-2	1594'	WORK SURFACE ASSEMBLY	C	EA 1
E-7	40	PAOZZ	5305-00-071-1323	MS51960-66	96906	SCREW, MACHINE	B, C	EA 6
E-7	41	XBOOO		0283-44510-1	15942	TACKBOARD ASSEMBLY	B, C	EA 1
E-7	42	PAOOO		02834-3533-1	15942	LIGHT UNIT ASSEMBLY	B	EA 1
E-7	42	PAOOO		028343533-2	15942	LIGHT UNIT ASSEMBLY	C	EA 1
E-7	43	PAOZZ	5305-00-059-3659	MS51958-63	96906	SCREW, MACHINE	B, C	EA 6
E-7	44	PAOZZ		B4072	14726	SPLICE, CONDUCTOR, NO. 10	B, C	EA 3

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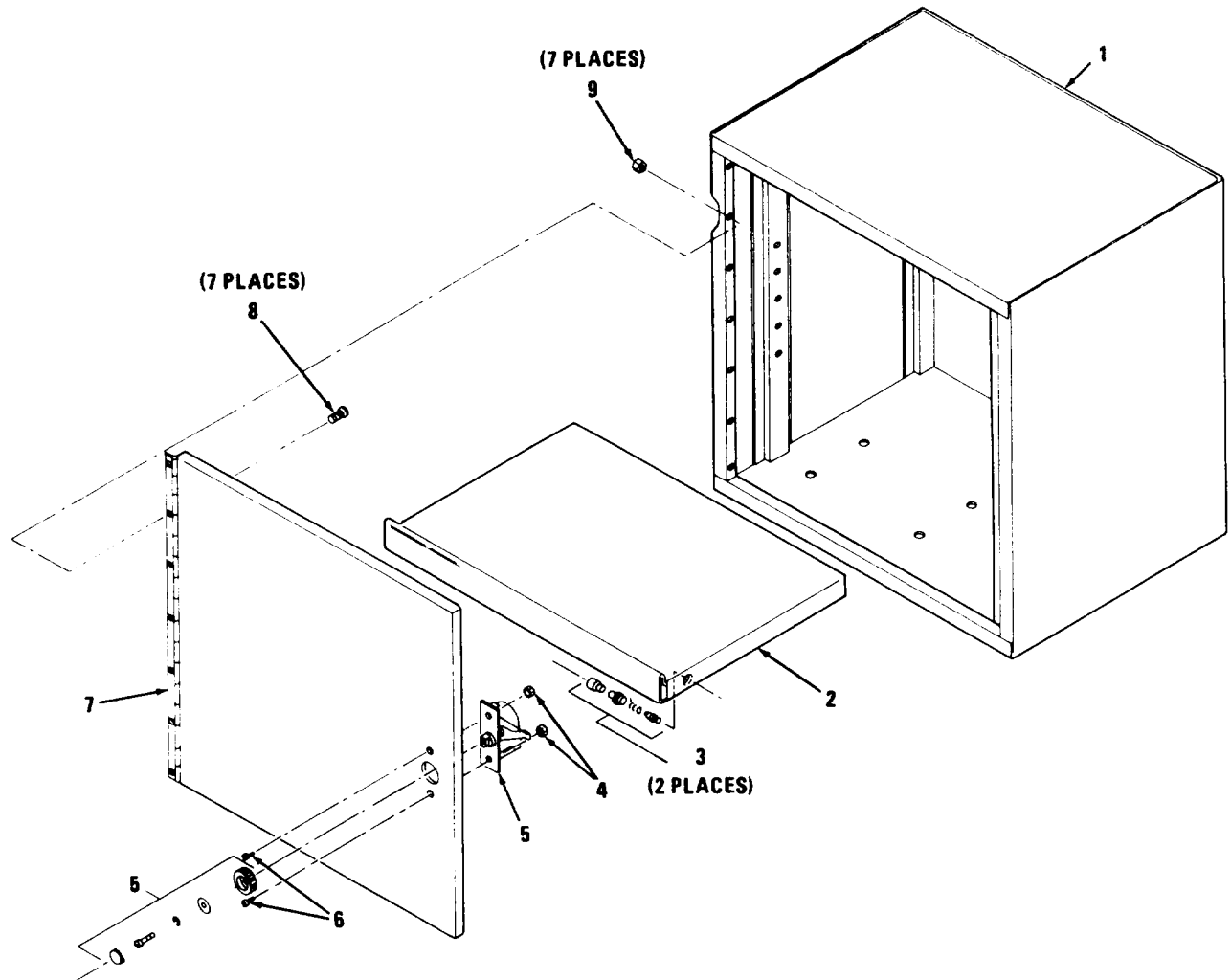


Figure E-8. Upper Cabinet Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 0501 UPPER CABINET ASSEMBLY (15942)		
E-8	1	XBOZZ		0283-4-4520-1	15942	WELDMENT, UPPER CABINET	B	EA 1
E-8	1	XBOZZ		0283-4-4520-2	15942	WELDMENT, UPPER CABINET	C	EA 1
E-8	2	XBOZZ		0283-4-2520	15942	SHELF, UPPER CABINET	B,C	EA 1
E-8	3	PAOOO	5310-00-481-1402	56-10-801-10	94222	PLUNGER, SPRING LOADED	B,C	EA 2
E-8	4	PAOZZ	5310-00-081-8087	F22NM62	72962	NUT, SELF-LOCKING, HEXAGON, NO. 6-32	B,C	EA 2
E-8	5	PAOOO	5340-00-070-2060	44-99-116-13	94222	FASTENER, PAWL, ADJUSTABLE	B	EA 1
E-8	5	XDOOO		44-99-117-13	94222	FASTENER, PAWL, ADJUSTABLE (6 PARTS)	C	EA 1
E-8	6	PAOZZ		BH6-32X1-2	70318	SCREW, MACHINE, BINDING HEAD, CORROSION-RESIS- TANT STEEL, NO. 6-32, 1/2 INCH LONG	B, C	EA 2
E-8	7	XBOZZ		0283-4-4521-1	15942	WELDMENT, DOOR, UPPER CABINET	B	EA 1
E-8	7	XBOZZ		0283-4-4521-2	15942	WELDMENT, DOOR, UPPER CABINET	C	EA 1
E-8	8	PAOZZ		BH6-32X1-2	70318	SCREW, MACHINE, BINDING HEAD, CORROSION-RESIS- TANT STEEL, NO. 6-32, 1/2 INCH LONG	B, C	EA 7
E-8	9	PAOZZ	5310-00-81-8087	F22NM62	72962	NUT, SELF-LOCKING, HEXAGON, NO. 6-32	B, C	EA 7

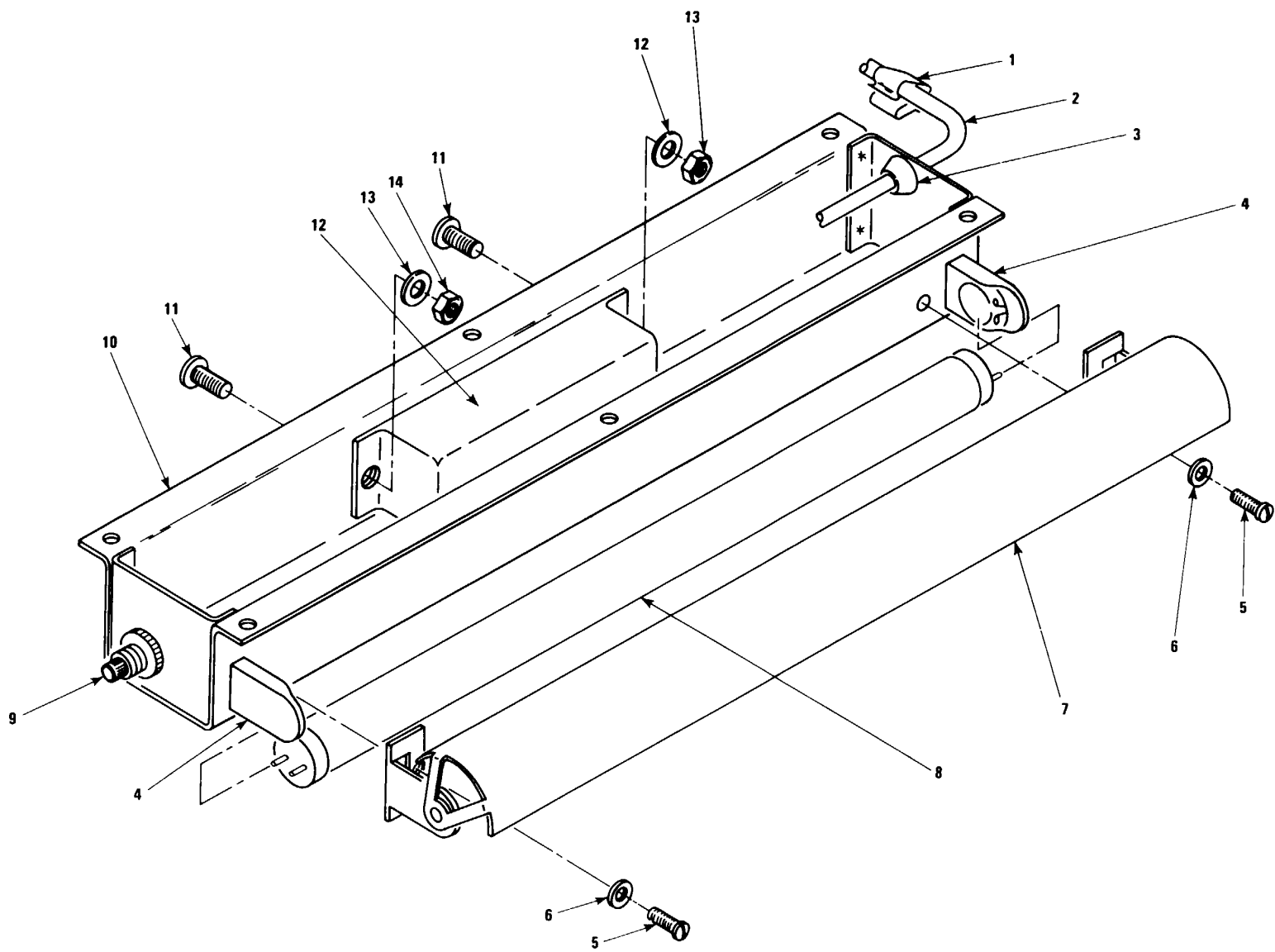


Figure E-9. Light Unit Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-9	1	XDOZZ		C5484-017-1	78553	GROUP: 0502 LIGHT UNIT		
E-9	2	PAOOO	6145-00-350-3497	8453	70903	ASSEMBLY (15942)		
E-9	3	PAOZZ		722-0007	24618	CLIP, SPRING TENSION	B, C	EA
E-9	4	XDOZZ		653W	12084	WIRE, ELECTRICAL, 18	B, C	FT
E-9	5	PAOZZ		BH6-32X1-2	70318	GAUGE		
						BUSHING, STRAIN RELIEF	B, C	EA
						LAMPHOLDER	B, C	EA
						SCREW, MACHINE, BINDING	B, C	EA
						HEAD, CORROSION-RESIS-		
						TANT STEEL, NO. 6-32, 1/2		
						INCH LONG		
E-9	6	PAOZZ		NO6SPLIT	70318	WASHER, LOCK, SPLIT,	B, C	EA
						CORROSION-RESISTANT		
						STEEL NO. 6		
E-9	7	XDOZZ		HRC15	12084	SHADE, LAMP REFLECTOR	B, C	EA
E-9	8	PAOZZ		F15T12	12084	LAMP, FLUORESCENT	B, C	EA
E-9	9	PAOZZ	5930-00-954-5872	579	75582	SWITCH, TOGGLE	B, C	EA
E-9	10	XBOZZ		0283-4-3519-1	15942	WELDMENT, LIGHT UNIT	B	EA
						HOUSING		
E-9	10	XBOZZ		0283-4-3519-2	15942	WELDMENT, LIGHT UNIT	C	EA
						HOUSING		
E-9	11	PAOZZ		BH10-32X1-2	70318	SCREW, BINDING HEAD,	B, C	EA
						CORROSION-RESISTANT		
						STEEL, NO. 10-32, 1/2		
						INCH LONG		
E-9	12	PAOZZ		NO10SPLIT	70318	WASHER, LOCK, SPLIT,	B, C	EA
						CORROSION-RESISTANT		
						STEEL NO. 10		
E-9	13	PAOZZ		NO10-32	70318	NUT, PLAIN, HEXAGON,	B, C	EA
						CORROSION-RESISTANT STEEL,		
						NO. 10-32		
E-9	14	PAOZZ	6250-00-844-3854	R120	02241	BALLAST, LAMP	B, C	EA

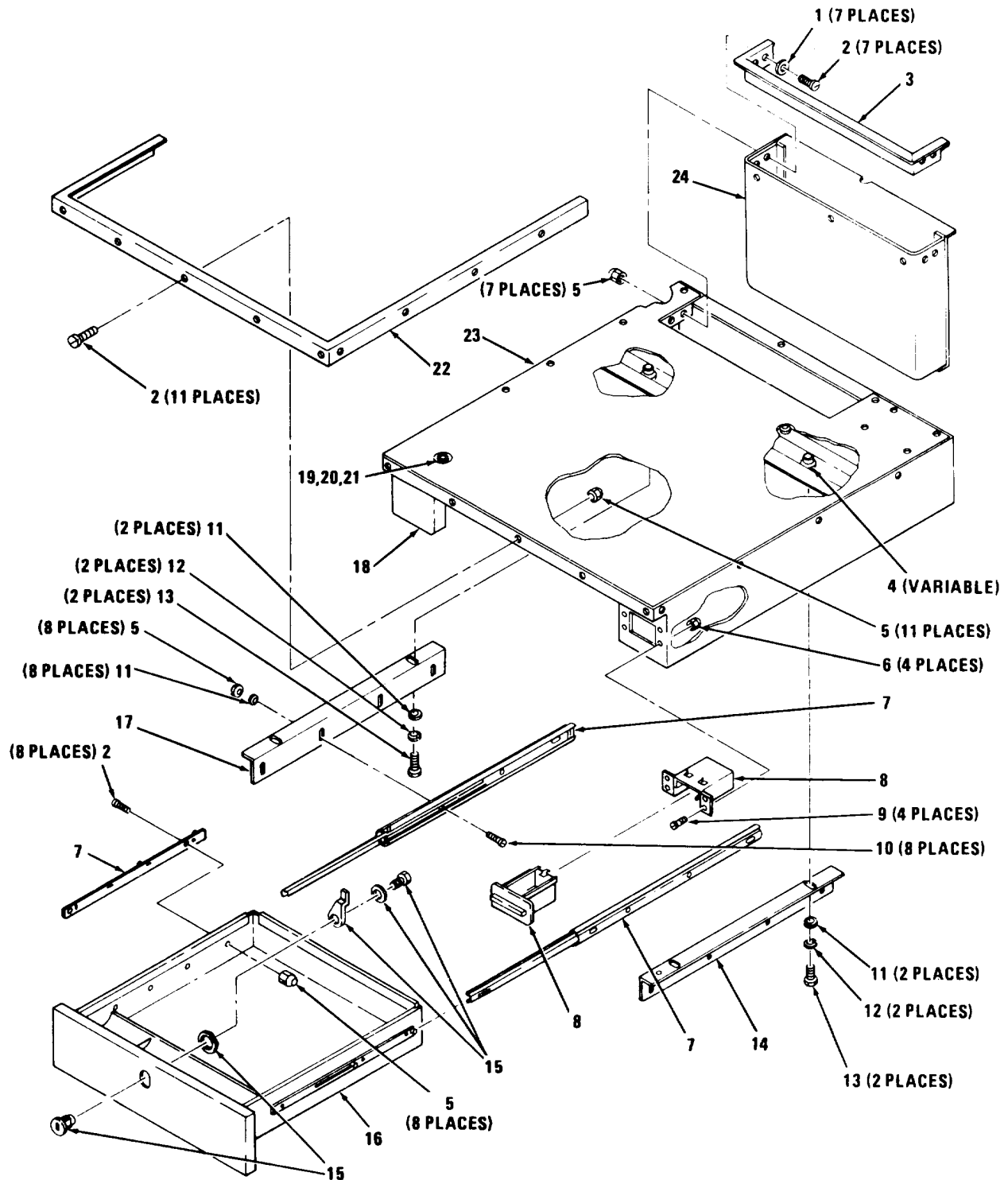


Figure E-10. Work Surface Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-10	1	PAOZZ		NO6SPLIT	70318	GROUP: 0503 WORK SURFACE ASSEMBLY (15942) WASHER, LOCK, SPLIT, CORROSION-RESISTANT STEEL NO. 6	B, C EA	7
E-10	2	PAOZZ		BH6-32X3-8	70318	SCREW, MACHINE, CORROSION-RESISTANT STEEL NO. 6-32, 3/8 INCH LONG	B, C EA	26
E-10	3	XBOZZ		0283-4-2510	15942	TRIM, EDGE, FILE FOLDER WELL	B, C EA	1
E-10	4	PAOZZ	5310-00180-5117	S10-130	03481	NUT, BLIND RIVET	B EA	19
E-10	4	PAOZZ	5310-00-180-5117	S10-130	03481	NUT, BLIND RIVET	C EA	15
E-10	5	PAOZZ	5310-00-081-8081	F22NM62	72962	NUT, SELF-LOCKING, HEXAGON, NO. 6-32	B, C EA	34
E-10	6	PAOZZ	5310-00-088-0551	F22NM40	72962	NUT, SELF-LOCKING, HEXAGON, NO. 4-40	B, C EA	4
E-10	7	XDOZZ		320X18	83508	SLIDE ASSEMBLY, FULL EXTENSION, 18 INCH LONG	B, C PR	1
E-10	8	XBOZZ		566-1-2006	15942	TRAY, ASH RECEIVER	B, C EA	1
E-10	9	PAOZZ		BH4-40X1-2	70318	SCREW, MACHINE, BINDING HEAD, CORROSION-RESISTANT STEEL, NO. 4-40. 1/2 INCH LONG	B, C EA	4
E-10	10	PAOZZ		FH8-32X1-2	70318	SCREW, MACHINE, FILLISTER HEAD, CORROSION-RESISTANT STEEL, NO. 8-32, 112 INCH LONG	B, C EA	8
E-10	11	PAOZZ		NO10	70318	WASHER, FLAT, CORRO- SION-RESISTANT STEEL, NO. 10	B, C EA	12
E-10	12	PAOZZ		NO10SPLIT	70318	WASHER, LOCK, SPLIT, CORROSION-RESISTANT STEEL, NO. 10	B, C EA	4
E-10	13	PAOZZ		HH10-32X34	70318	SCREW, MACHINE, HEX- AGON HEAD, CORROSION- RESISTANT STEEL, NO. 10-32, 3/4 INCH LONG	B, C EA	4

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)	
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT	
E-10	14	XBOZZ		0283-4-2511-1	15942	ANGLE, DRAWER SUPPORT	B, C	EA	1
E-10	15	PAOZZ		15752XC5L	14608	LOCK ASSEMBLY, DISC TUMBLER (5 PARTS)	B, C	EA	1
E-10	16	XBOZZ		0283-4-3516	15942	DRAWER, WELDMENT	B, C	EA	1
E-10	17	XBOZZ		0283-4-2511-2	15942	ANGLE, DRAWER SUPPORT	B, C	EA	1
E-10	18	XBOZZ		0283-4-4517-7	15942	WELDMENT, WORK SURFACE	B	EA	1
E-10	18	XBOZZ		0283-4-4517-2	15942	WELDMENT, WORK SURFACE	C	EA	1
E-10	19	XBOZZ		566-3-2966	15942	SOCKET, TIE-DOWN	B, C	EA	1
E-10	20	PAOZZ		NO5-8	70318	WASHER, FLAT, CORRO- SION-RESISTANT STEEL, NO. 5/8	B, C	EA	1
E-10	21	PAOZZ		NO5-8-24	70318	NUT, PLAIN, HEXAGON, CORROSION-RESISTANT STEEL, NO. 5/8-24	B, C	EA	1
E-10	22	XBOZZ		0283-4-3514-1	15942	TRIM, EDGE	B	EA	1
E-10	22	XBOZZ		0283-4-3514-4	15942	TRIM, EDGE	C	EA	1
E-10	23	XBOZZ		0283-4-3513-1	15942	COVER, WORK SURFACE	B	EA	1
E-10	23	XBOZZ		0283-4-3513-2	15942	COVER, WORK SURFACE	C	EA	1
E-10	24	XBOZZ		0283-4-3515-1	15942	WELL, FILE FOLDER	B	EA	1
E-10	24	XBOZZ		0283-4-3515-2	15942	WELL, FILE FOLDER	C	EA	1

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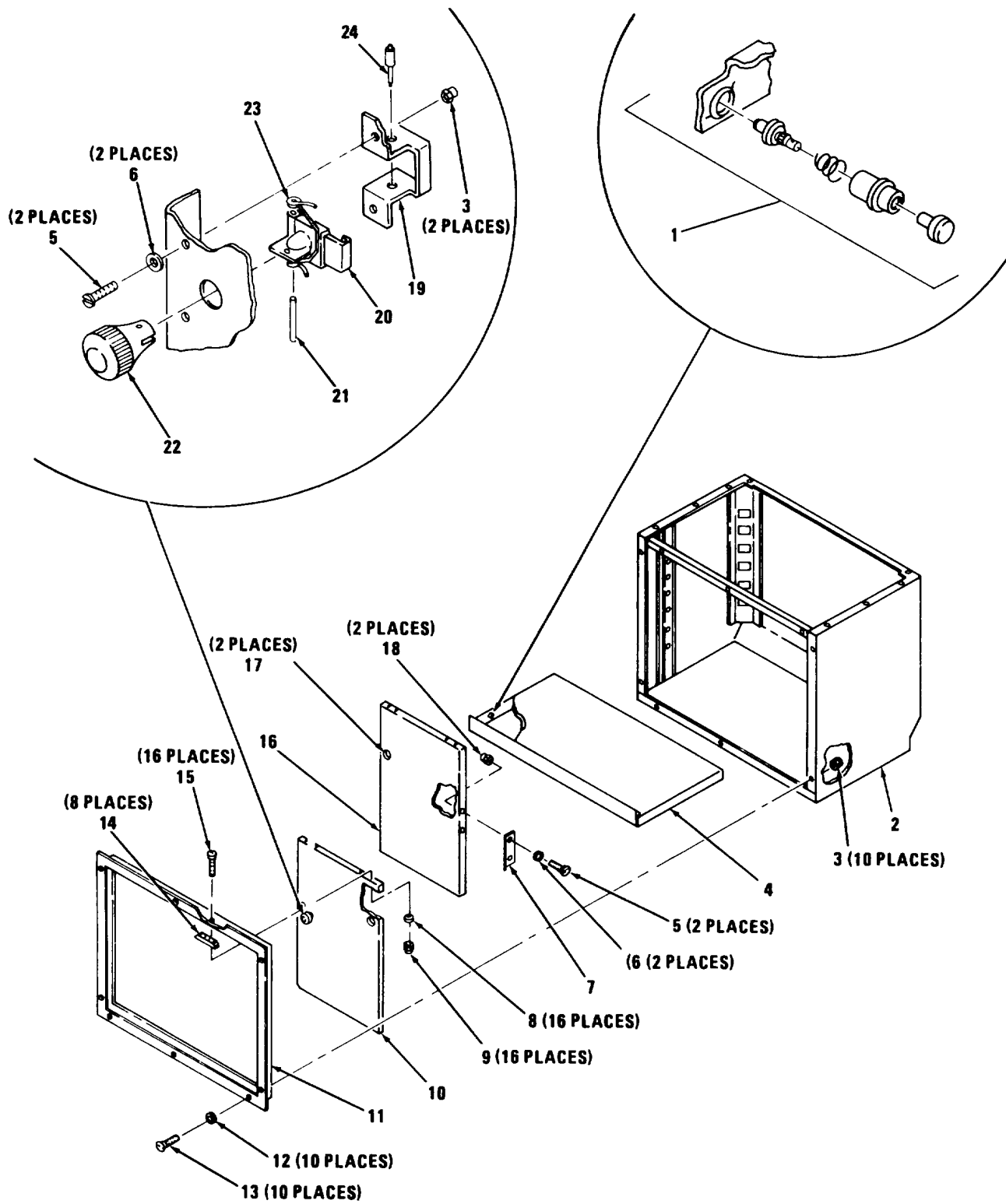


Figure E-11. Lower Cabinet Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
						GROUP: 0504 LOWER CABINET ASSEMBLY (15942)		
E-11	1	PAOOO	5325-00-491-1402	56-10-801-10	94222	PLUNGER ASSEMBLY, SPRING LOADED	B, C	EA 2
E-11	2	XBOZZ		0283-4-4515-1	15942	WELDMENT, LOWER CABINET	B	EA 1
E-11	2	XBOZZ		0283-4-4515-2	15942	WELDMENT, LOWER CABINET	C	EA 1
E-11	3	PAOZZ	5310-00-877-5797	F22NM02	72962	NUT, SELF-LOCKING, HEXAGON, NO. 10-32	B, C	EA 12
E-11	4	XBOZZ		0283-4-2509	15942	SHELF, LOWER CABINET	B, C	EA 1
E-11	5	PAOZZ		BH10-32X1-2	70318	SCREW, MACHINE, BINDING HEAD, CORRO- SION-RESISTANT STEEL, NO. 10-32, 1/2 INCH LONG	B, C	EA 4
E-11	6	PAOZZ		NO10	70318	WASHER, FLAT, CORRO- SION-RESISTANT STEEL, NO. 10	B, C	EA 4
E-11	7	XBOZZ		566-1-2032	15942	PLATE, LATCH	B, C	EA 1
E-11	8	PAOZZ		NO8	70318	WASHER, FLAT, CORRO- SION-RESISTANT STEEL, NO.8	B, C	EA 16
E-11	9	PAOZZ		F22NM82	72962	NUT, SELF-LOCKING, HEXAGON, NO. 8-32	B, C	EA 16
E-11	10	XBOZZ		0283-4-3523	15942	WELDMENT, DOOR, RIGHT HAND	B, C	EA 1
E-11	11	XBOOO		0283-4-4516-1	15942	SLIDING DOOR ASSEMBLY	B, C	EA 1
E-11	12	PAOZZ	5310-00-550-5054	MS15795-809	96906	WASHER, FLAT	B, C	EA 10
E-11	13	PAOZZ		BH10-32X5-8	70318	SCREW, MACHINE, BINDING HEAD, CORRO- SION-RESISTANT STEEL, NO. 10-32, 5/8 INCH LONG	B, C	EA 10
E-11	14	XBOZZ		566-1-2028	15942	BLOCK, SLIDE	B, C	EA 8
E-11	15	PAOZZ		FH8-32X3-4	70318	SCREW, MACHINE, FILLISTER HEAD, CORRO- SION-RESISTANT STEEL, NO. 8-32, 3/4 INCH LONG	B, C	EA 16

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	UOC	U/M	QTY INC IN UNIT
E-11	16	XBOZZ		0283-4-3524	15942	WELDMENT, DOOR, LEFT HAND	B, C	EA 1
E-11	17	XDOZZ		T5100-14	89198	FINGER PULL	B, C	EA 2
E-11	18	PAOZZ	5310-00-877-5797	F22NM02	72962	NUT, SELF-LOCKING, HEXAGON, NO. 10-32	B, C	EA 2
E-11	19	XBOZZ		566-1-2031	15942	BRACKET	B, C	EA 1
E-11	20	XBOZZ		566-1-2030	15942	LOCK, LINK, MODIFIED	B, C	EA 1
E-11	21	PAOZZ	5315-10-844-3943	52-012-062- 0750	72962	PIN, SPRING	B, C	EA 1
E-11	22	PAOZZ		566-1-2027	15942	KNOB	B, C	EA 1
E-11	23	XBOZZ		566-1-2029	15942	SPRING, TORSION	B, C	EA 1
E-11	24	PAOZZ	5315-00-821-9729	5-0222-094- 1250	72962	PIN, SPRING	B, C	EA 1

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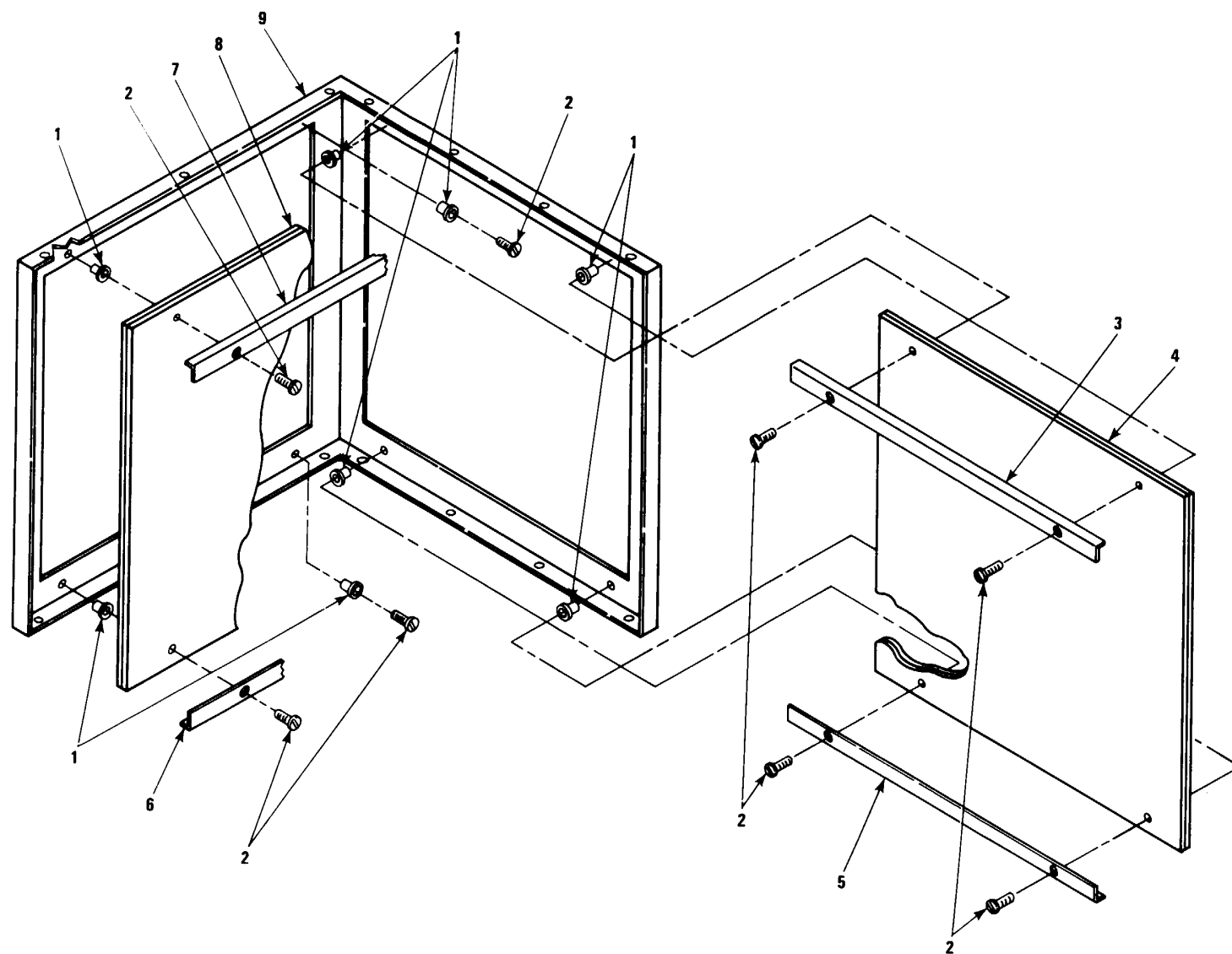


Figure E-12. Tack Board Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 0505 TACK BOARD ASSEMBLY (15942)		
E-12	1	PAOZZ	5310-00-180-5117	S10-130	03481	NUT, BLIND RIVET	B, C	EA 8
E-12	2	PAOZZ	5305-00-071-1326	MS51960-69	96906	SCREW, MACHINE	B, C	EA 8
E-12	3	XBOZZ		0283-4-2515-2	15942	BRACKET, ANGLE, RETAINING, UPPERSIDE	B, C	EA 1
E-12	4	XBOZZ		0283-4-2513	15942	TACK BOARD, SIDE	B, C	EA 1
E-12	5	XBOZZ		0283-4-2515-1	15942	BRACKET, ANGLE, RETAINING, LOWER SIDE	B, C	EA 1
E-12	6	XBOZZ		0283-4-2514-1	15942	BRACKET, ANGLE, RETAINING, LOWER REAR	B, C	EA 1
E-12	7	XBOZZ		0283-4-2514-2	15942	BRACKET, ANGLE, RETAINING, REAR	B, C	EA 1
E-12	8	XBOZZ		0283-4-2512	15942	TACK BOARD, REAR	B, C	EA 1
E-12	9	XBOZZ		0283-4-3517	15942	WELDMENT, FRAME	B, C	EA 1

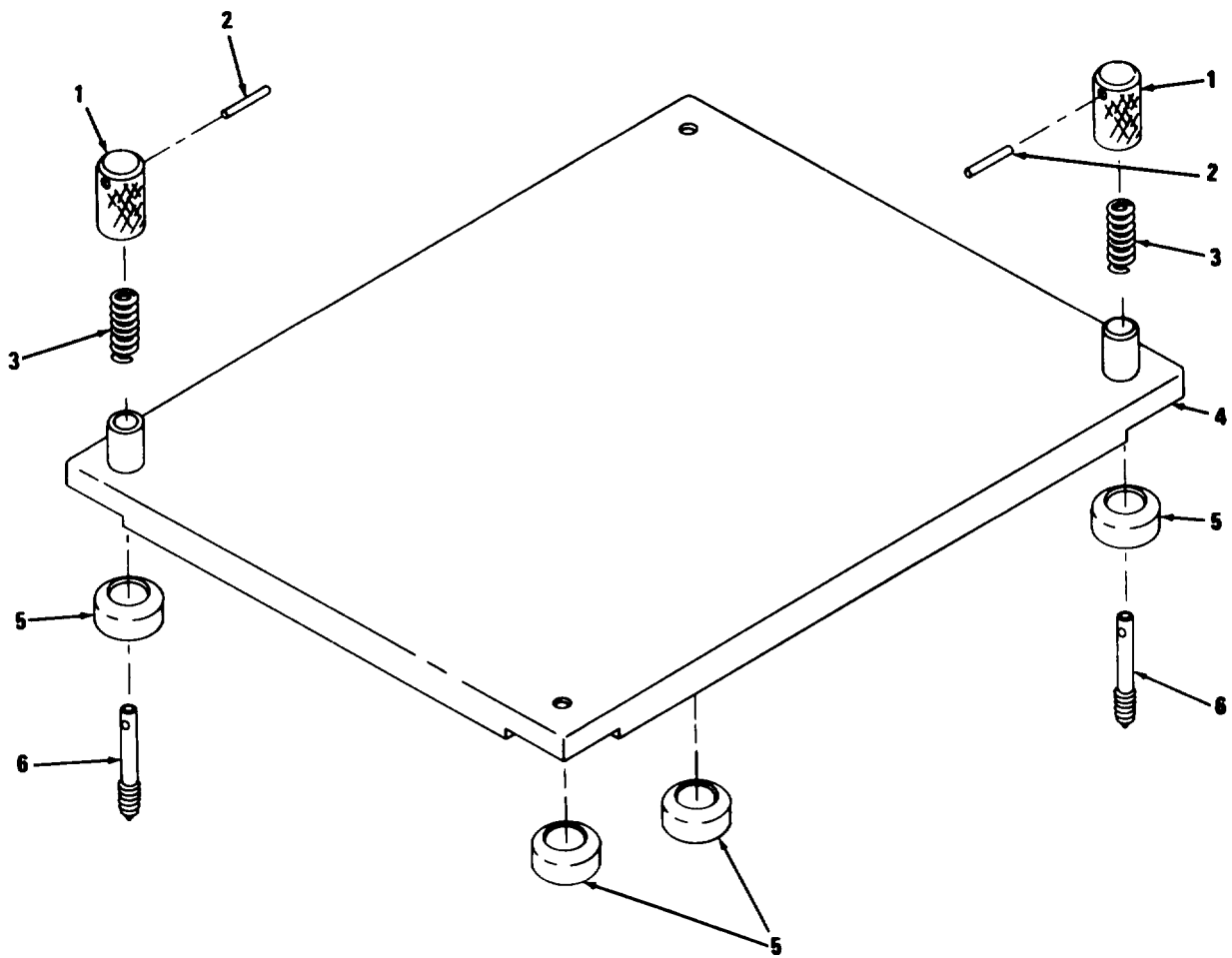


Figure E-13. Equipment Tray Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	<i>Usable On Code</i>	U/M	QTY INC IN UNIT
						GROUP: 0506 EQUIPMENT TRAY ASSEMBLY (15942)		
E-13	1	PAOZZ	5355-00-784-1683	566-3-2960	15942	KNOB	B, C	EA 2
E-13	2	PAOZZ	5315-00-841-4442	79-028-125-0750	72962	PIN, STRAIGHT, HEADLESS	B, C	EA 2
E-13	3	XBOZZ		566-3-2962	15942	SPRING, HELICAL, COMPRESSION	B, C	EA 2
E-13	4	XBOZZ		566-3-3962	15942	WELDMENT, EQUIPMENT TRAY	B, C	EA 1
E-13	5	PAOZZ	5325-00-276-5926	2595	70485	GROMMET, RUBBER	B, C	EA 4
E-13	6	PAOZZ	5315-00-163-5115	566-3-2961	15942	STUD, NO. 3/8-24, UNIFIED FINE THREAD - 2A THREAD	B, C	EA 2



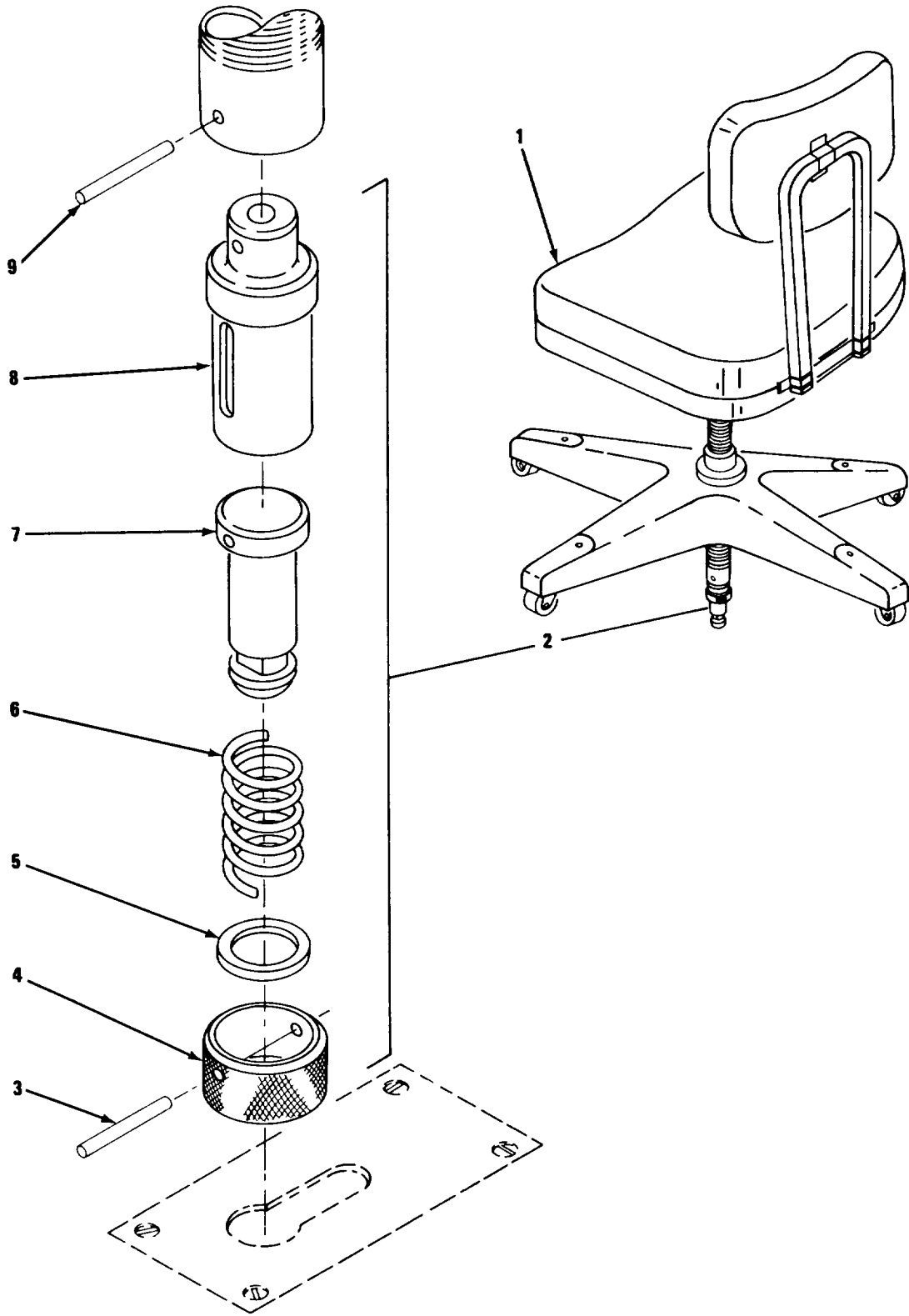


Figure E-14. Chair and Tiedown Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION  <i>Usable On Code</i>	U/M	QTY INC IN UNIT
E-14	1	PAOZZ	7110-00-754-0760	AAC00293	81349	GROUP: 06 CHAIR (15942) CHAIR	B, C EA	1
E-14	2	XBOOO		0283-4-2021-1	15942	GROUP: 0601 CHAIR TIEDOWN ASSEMBLY (15942) TIEDOWN ASSEMBLY, CHAIR	B, C EA	1
E-14	3	PAOZZ		0283-4-2033-1	15942	PIN, STRAIGHT, HEADLESS	B, C EA	1
E-14	4	XBOZZ		0283-4-2031-1	15942	SLEEVE, CHAIR TIEDOWN	B, C EA	1
E-14	5	XBOZZ		0283-4-2032-1	15942	RING, RETAINING	B, C EA	1
E-14	6	XBOZZ		0283-4-2030-1	15942	SPRING, HELICAL, COMPRESSION	B, C EA	1
E-14	7	XBOZZ		0283-4-2029-1	15942	RETAINER, CHAIR TIEDOWN	B, C EA	1
E-14	8	XBOZZ		0283-4-2034-1	15942	HOUSING, CHAIR TIEDOWN	B, C EA	1
E-14	9	PAOZZ	5315-00-619-3155	79-040-187-0937	72962	PIN, STRAIGHT, HEADLESS	B, C EA	1
BULK		PAOZZ	7530-00-223-8063	B-7000		GROUP: 99 BULK MATERIALS (15942) CARD, INDEX, 1 X 3-1/2 INCH	MX	50
BULK		PAOZZ	7530-00-782-6277	UU-C-128		CARD, INDEX, 1-3/4 X 3-1/4 INCH	MX	30
BULK		PAOZZ	8135-00-542-5761	LP375		PLASTIC STRIP, 6 X 5 INCH, CLEAR	PK	100

**Section III. SPECIAL TOOLS LIST**

(Not Applicable)

## Section IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER	FIGURE NO.	ITEM NO.	NATIONAL STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-021-3620	E-6	11	5310-00-481-1402	E-8	3
5305-00-054-6654	E-1	8	5325-00-491-1402	E-4	6
5305-00-054-6654	E-7	25	5325-00-491-1402	E-11	1
5305-00-059-3656	E-4	15	5310-00-550-5054	E-4	2
5305-00-059-3657	E-3	1	5310-00-550-5054	E-7	32
5305-00-059-3659	E-4	3	5310-00-550-5054	E-11	12
5305-00-059-3659	E-7	43	5305-00-558-5428	E-1	30
5305-00-059-3660	E-7	11	5305-00-576-5807	E-3	26
5305-00-059-3661	E-7	31	5305-00-576-5807	E-6	1
5305-00-059-3663	E-7	15	5310-00-582-5677	E-1	23
5305-00-059-3663	E-7	24	5310-00-582-5677	E-1	23
5340-00-070-2060	E-8	5	5310-00-582-5677	E-6	4
5305-00-071-1322	E-7	8	5310-00-582-5677	E-7	2
5305-00-071-1323	E-7	40	5310-00-595-6772	E-3	3
5305-00-071-1326	E-12	2	5340-00-597-6190	E-3	14
5305-00-071-1327	E-3	22	5340-00-597-6190	E-6	3
5310-00-081-8081	E-10	5	5305-00-616-6370	E-3	25
5310-00-081-8087	E-1	10	5305-00-616-6370	E-6	2
5310-00-081-8087	E-8	4	5310-00-619-1148	E-5	19
5310-00-081-8087	E-8	9	5310-00-619-1148	E-7	13
5310-00-087-4652	E-1	28	5310-00-619-1148	E-7	13
5310-00-088-0551	E-7	10	5315-00-619-3155	E-14	9
5310-00-088-0551	E-10	6	7430-00-633-1241	E-1	12
5310-00-088-1251	E-7	6	5305-00-702-4523	E-7	1
7420-00-140-1640	E-1	13	5305-00-717-5467	E-1	35
5975-00-152-1144	E-7	9	5305-00-717-5467	E-1	35
7520-00-162-6178	E-1	7	5305-00-717-5467	E-1	35
5315-00-163-5115	E-13	6	5305-00-717-5467	E-3	10
5320-00-177-6814	E-4	11	5305-00-717-5467	E-6	8
5310-00-180-5117	E-7	37	5305-00-719-5007	E-3	18
5310-00-180-5117	E-10	4	5310-00-722-5998	E-5	6
5310-00-180-5117	E-12	1	7125-00-749-3008	E-4	17
5305-00-207-8253	E-1	26	7110-00-754-0760	E-14	1
5305-00-207-8253	E-1	26	5305-00-770-2579	E-7	22
5310-00-208-9255	E-5	21	5310-00-773-7616	E-6	10
5305-00-253-5603	E-5	10	5310-00-773-7618	E-1	27
5325-00-276-5926	E-13	5	5310-00-773-7618	E-1	27
5325-00-286-1157	E-5	22	5310-00-773-7618	E-1	27
5830-00-327-5066	E-3	20	5310-00-773-7618	E-3	12
5830-00-327-5066	E-6	7	5310-00-782-1349	E-7	21
6145-00-350-3497	E-9	2	5355-00-784-1683	E-13	1
5935-00-432-7733	E-7	30	5315-00-821-9729	E-11	24
5835-00-466-8505	E-3	23	5305-00-822-5853	E-1	21
5835-00-466-8508	E-3	5	5310-00-827-8976	E-2	7
5895-00-475-9470	E-6	12	5310-00-827-8976	E-2	7

NATIONAL STOCK NUMBER	FIGURE NO.	ITEM NO.	NATIONAL STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-827-8976	E-2	7	5310-00-929-6395	E-7	26
5310-00-834-2945	E-3	15	5310-00-933-8120	E-4	14
5310-00-834-2945	E-6	5	5310-00-933-8120	E-7	12
5315-00-841-4442	E-13	2	5310-00-933-8120	E-7	12
6250-00-844-3854	E-9	14	5310-00-933-8121	E-1	24
5315-00-844-3943	E-11	21	5310-00-933-8121	E-1	24
5310-00-877-5797	E4	7	5310-00-933-8121	E-7	34
5310-00-877-5797	E-7	7	5310-00-933-8124	E-3	2
5310-00-877-5797	E-11	3	5305-00-940-9491	E-5	1
5310-00-877-5797	E-11	18	5930-00-954-5872	E-9	9
5305-00-879-2736	E-1	20	5320-00-956-7355	E-2	6
5310-00-880-5976	E-7	27	5310-00-982-6813	E-5	7
5310-00-880-5978	E-1	9	5310-00-984-7042	E-1	31
5310-00-882-8388	E-1	19	5310-00-984-7042	E-1	31
5320-00-904-4136	E-2	8	5310-00-984-7042	E-3	11
5320-00-904-4136	E-2	10	5310-00-984-7042	E-6	9
5305-00-912-4837	E-5	18	5305-00-988-7835	E-1	33

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG NO.	ITEM NO.
		E-2	2	F22NM62	72962	E-10	5
		E-2	3	F22NM82	72962	E-11	9
		E-2	4	F42NE040	72962	E-3	15
		E-5	1	F42NE040	72962	E-6	5
		E-5	2	GG5746	81348	E-1	7
		E-5	3	HH10-32X3-4	70318	E-10	13
		E-5	4	HRC15	12084	E-9	7
		E-5	5	MS15795-804	96906	E-7	21
		E-5	6	MS15795-805	96906	E-5	6
		E-5	7	MS15795-806	96906	E-7	27
		E-5	12	MS15795-807	96906	E-1	9
		E-5	13	MS15795-808	96906	E-3	3
(NO NUMBER)	12014	E-5	5	MS15795-808	96906	E-5	19
(NO NUMBER)	15942	E-5	14	MS15795-808	96906	E-7	13
(NO REF)	81349	E-1	12	MS15795-808	96906	E-7	13
AAC00293	81349	E-14	1	MS15795-809	96906	E-3	16
AD43ABS	07707	E-2	8	MS15795-809	96906	E-4	2
AD43ABS	07707	E-2	10	MS15795-809	96906	E-7	32
AD43H	07707	E-1	19	MS15795-809	96906	E-11	12
AD64H	07707	E-2	6	MS15795-810	96906	E-1	23
AN470AD3-3	88044	E-4	11	MS15795-810	96906	E-1	23
BH10-32X1-2	70318	E-9	11	MS15795-810	96906	E-6	4
BH10-32X1-2	70318	E-11	5	MS15795-810	96906	E-7	2
BH10-32X5-8	70318	E-11	13	MS15795-814	96906	E-1	27
BH4-40X1-2	70318	E-10	9	MS15795-814	96906	E-1	27
BH6-32X1-2	70318	E-8	6	MS15795-814	96906	E-1	27
BH6-32X1-2	70318	E-8	8	MS15795-814	96906	E-3	12
BH6-32X1-2	70318	E-9	5	MS15795-814	96906	E-6	10
BH6-32X3-8	70318	E-10	2	MS15958-65	96906	E-3	4
B4072	14726	E-7	44	MS16995-54	96906	E-1	33
CY6154G	06840	E-4	17	MS21044N3	96906	E-4	7
C2090T6	80058	E-3	14	MS21044N3	96906	E-7	7
C2090T6	81860	E-6	3	MS21318-1	96906	E-5	10
C5484-017-1	78553	E-9	1	MS35275-30	96906	E-5	1
FH4-40X1-4	70318	E-2	3	MS35276-264	96906	E-5	18
FH8-32X1-2	70318	E-10	10	MS35307-306	96906	E-7	1
FH8-32X3-4	70318	E-11	15	MS35307-307	96906	E-3	13
F15T12	12084	E-9	8	MS35307-307	96906	E-6	11
F22NM02	72962	E-11	3	MS35307-308	96906	E-1	26
F22NM02	72962	E-11	18	MS35307-308	96906	E-1	26
F22NM40	72962	E-7	10	MS35307-311	96906	E-3	26
F22NM40	72962	E-10	6	MS35307-311	96906	E-6	1
F22NM62	72962	E-1	10	MS35307-313	96906	E-3	25
F22NM62	72962	E-8	4	MS35307-313	96906	E-6	2
F22NM62	72962	E-8	9	MS35307-362	96906	E-1	35

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG NO.	ITEM NO.
MS35307-362	96906	E-1	35	NO5-8	70318	E-10	20
MS35307-362	96906	E-1	35	NO5-8-24	70318	E-10	21
MS35307-362	96906	E-3	10	NO6SPLIT	70318	E-9	6
MS35307-362	96906	E-6	8	NO6SPLIT	70318	E-10	1
MS35307-368	96906	E-1	21	NO8	70318	E-11	8
MS35307-372	96906	E-1	20	R120	02241	E-9	14
MS35307-374	96906	E-1	30	R3705-1-4	12014	E-5	9
MS35338-136	96906	E-7	26	SP2189	96603	E-2	4
MS35338-138	96906	E-3	2	S10-130	03481	E-7	37
MS35338-138	96906	E-4	14	S10-130	03481	E-10	4
MS35338-138	96906	E-7	12	S10-130	03481	E-10	4
MS35338-138	96906	E-7	12	S10-130	03481	E-12	1
MS35338-139	96906	E-1	24	S25B200	03481	E-2	7
MS35338-139	96906	E-1	24	S25B200	03481	E-2	7
MS35338-139	96906	E-7	34	S25B200	03481	E-2	7
MS35338-141	96906	E-1	31	T5100-14	89198	E-11	17
MS35338-141	96906	E-1	31	XX49203	83058	E-5	22
MS35338-141	96906	E-3	11	0012-1-3999-2	15942	E-1	18
MS35338-141	96906	E-6	9	0012-1-3999-3	15942	E-1	18
MS51922-1	96906	E-7	6	0012-1-3999-4	15942	E-1	18
MS51922-17	96906	E-1	28	0012-2-2000-1	15942	E-7	16
MS51957-30	96906	E-1	8	0012-2-2001-1	15942	E-7	4
MS51957-30	96906	E-7	25	0012-2-2001-2	15942	E-7	4
MS51958-61	96906	E-3	1	0012-2-2002-1	15942	E-7	33
MS51958-61	96906	E-4	15	0012-2-2003-1	15942	E-3	19
MS51958-63	96906	E-4	3	0012-2-2003-1	15942	E-6	13
MS51958-63	96906	E-7	43	0012-2-2004-1	15942	E-1	34
MS51958-64	96906	E-7	11	0012-2-2005-1	15942	E-3	24
MS51958-65	96906	E-7	31	0012-2-2006-1	15942	E-7	28
MS51958-67		E-7	15	0012-2-2007-1	15942	E-7	20
MS51958-67	96906	E-7	24	0012-2-2008-1	15942	E-7	23
MS51959-15	96906	E-7	22	0012-2-3000-1	15942	E-7	35
MS51959-83	96906	E-3	18	0012-2-3000-2	15942	E-7	36
MS51959-83	96906	E-6	14	0012-2-3001-1	15942	E-2	9
MS51960-65	96906	E-7	8	0012-2-3002-1	15942	E-1	17
MS51960-66	96906	E-7	40	0012-2-3003-1	15942	E-2	12
MS51960-69	96906	E-12	2	0012-2-3003-2	15942	E-2	11
MS51960-70	96906	E-3	22	0012-2-3004-1	15942	E-2	5
MT-1579/G	80058	E-3	20	0012-2-3005-1	15942	E-2	5
MT-1579/G	80058	E-6	7	0012-2-3005-2	15942	E-2	5
NO10	70318	E-10	11	0012-2-3006-1	15942	E-3	21
NO10	70318	E-11	6	0012-2-3006-2	15942	E-3	6
NO10-32	70318	E-9	13	0012-2-3008-1	15942	E-7	5
NO10SPLIT	70318	E-9	12	0012-2-3008-2	15942	E-7	5
NO10SPLIT	70318	E-10	12	0012-2-3009-1	15942	E-7	29

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG NO.	ITEM NO.
0012-2-3009-2	15942	E-7	29	0283-4-2626	15942	E-5	4
0012-2-4001-1	15942	E-1	3	0283-4-3004-1	15942	E-1	6
0012-2-4001-2	15942	E-1	3	0283-4-3023-1	15942	E-3	19
0012-2-4001-2	15942	E-1	3	0283-4-3023-1	15942	E-6	13
0012-2-4002-1	15942	E-1	2	0283-4-3510-1	15942	E-7	14
0012-2-4002-2	15942	E-1	4	0283-4-3513-1	15942	E-10	23
0012-2-4002-2	15942	E-1	4	0283-4-3513-2	15942	E-10	23
0012-2-4002-3	15942	E-1	1	0283-4-3514-1	15942	E-10	22
0012-2-4002-3	15942	E-1	1	0283-4-3514-4	15942	E-10	22
0012-2-4002-4	15942	E-1	5	0283-4-3515-1	15942	E-10	24
0012-2-4002-4	15942	E-1	5	0283-4-3515-2	15942	E-10	24
0012-2-4003-1	15942	E-1	14	0283-4-3516	15942	E-10	16
0012-2-4003-2	15942	E-1	16	0283-4-3517	15942	E-12	9
0012-2-4003-3	15942	E-1	15	0283-4-3519-1	15942	E-9	10
0012-2-4004-1	15942	E-1	11	0283-4-3519-2	15942	E-9	10
0012-2-4004-2	15942	E-1	11	0283-4-3523	15942	E-11	10
0283-2-1000	15942	E-2	1	0283-4-3524	15942	E-11	16
0283-4-2003	15942	E-2		0283-4-3533-1	15942	E-7	42
0283-4-2021-1	15942	E-14	2	0283-4-3533-2	15942	E-7	42
0283-4-2025	15942	E-2	2	0283-4-3628	15942	E4	1
0283-4-2029-1	15942	E-14	7	0283-4-3629-1	15942	E4	4
0283-4-2030-1	15942	E-14	6	0283-4-3629-2	15942	E4	9
0283-4-2031-1	15942	E-14	4	0283-4-3629-3	15942	E4	5
0283-4-2032-1	15942	E-14	5	0283-4-3629-3	15942	E4	8
0283-4-2033-1	15942	E-14	3	0283-4-3630-1	15942	E4	13
0283-4-2034-1	15942	E-14	8	0283-4-3630-2	15942	E4	10
0283-4-2039	15942	E-3	17	0283-4-3631-2	15942	E-5	8
0283-4-2039	15942	E-6	12	0283-4-3631-6	15942	E-5	15
0283-4-2300-1	15942	E-1	32	0283-4-3632	15942	E-5	20
0283-4-2300-2	15942	E-1	25	0283-4-4508-1	15942	E-7	38
0283-4-2509	15942	E-11	4	0283-4-4508-2	15942	E-7	38
0283-4-2510	15942	E-10	3	0283-4-4509-2	15942	E-7	39
0283-4-2511-1	15942	E-10	14	0283-4-4509-7	15942	E-7	39
0283-4-2511-2	15942	E-10	17	0283-4-4510-1	15942	E-7	41
0283-4-2512	15942	E-12	8	0283-4-4515-1	15942	E-11	2
0283-4-2513	15942	E-12	4	0283-4-4515-2	15942	E-11	2
0283-4-2514-1	15942	E-12	6	0283-4-4516-1	15942	E-11	11
0283-4-2514-2	15942	E-12	7	0283-4-4517-2	15942	E-10	18
0283-4-2515-1	15942	E-12	5	0283-4-4517-7	15942	E-10	18
0283-4-2515-2	15942	E-12	3	0283-4-4520-1	15942	E-8	1
0283-4-2520	15942	E-8	2	0283-4-4520-2	15942	E-8	1
0283-4-2526	15942	E-5	2	0283-4-4521-1	15942	E-8	7
0283-4-2623-1	15942	E-5	16	0283-4-4521-2	15942	E-8	7
0283-4-2623-2	15942	E-5	16	0283-4-4627	15942	E-4	18
0283-4-2626	15942	E-5	3	0283-4-4627-1	15942	E-3	7

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG NO.	ITEM NO.
0283-4-4627-1	15942	E-4	17	566-1-2027	15942	E-11	22
0283-4-4629-1	15942	E-3	8	566-1-2028	15942	E-11	14
0283-4-4629-2	15942	E-3	9	566-1-2029	15942	E-11	23
0283-4-4629-9	15942	E-5	11	566-1-2030	15942	E-11	20
0283-4-4630	15942	E-5	17	566-1-2031	15942	E-11	19
0283-4-4631	15942	E-5	17	566-1-2032	15942	E-11	7
0283-4-4709-1	15942	E-1	22	566-1-2998-2	15942	E-3	5
0283-4-4709-1	15942	E-7	3	566-1-2998-2	15942	E-3	23
0283-4-4714-1	15942	E-1	36	566-1-2998-2	15942	E-4	16
0283-4-4714-2	15942	E-1	37	566-3-2960	15942	E-13	1
0293-4-2622	15942	E-5		566-3-2961	15942	E-13	6
1369	75582	E-7	30	566-3-2962	15942	E-13	3
15752XC5L	14608	E-10	15	566-3-2966	15942	E-10	19
1923-14H	14608	E-4	12	566-3-3961	15942	E-1	13
1953-3	70331	E-7	18	566-3-3962	15942	E-13	4
2595	70485	E-13	5	579	75582	E-9	9
3-8-16X5-50	70318	E-1	29	582-1	15578	E-6	6
320X18	83508	E-10	7	653W	12084	E-9	4
3302	59730	E-7	9	722-0007	24618	E-9	3
44-99-116-13	94222	E-8	5	722-0009	24618	E-7	17
44-99-117-13	94222	E-8	5	7567-6	74545	E-7	19
52-012-062-0750	72962	E-11	21	79-028-125-0750	72962	E-13	2
52-022-094-1250	72962	E-11	24	79-040-187-0937	72962	E-14	9
56-10-801-10	94222	E-4	6	79M62	72962	E-5	7
56-10-801-10	94222	E-8	3	79NM02	72962	E-5	21
56-10-801-10	94222	E-11	1	8453	70903	E-9	2
566-1-2006	15942	E-10	8				



APPENDIX F

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

**F-1 SCOPE.** This appendix lists expendable supplies and materials required to operate and maintain the repair parts stowage facilities. These items are authorized to you by CTA 50-970, Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items).

**F-2 EXPLANATION OF COLUMNS.**

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

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

O ..... Organizational maintenance  
 D..... Depot maintenance

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

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

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

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
1	D		ADHESIVE, DRY MOUNTING, PRESSURE SENSITIVE 1142 (70707)	CN
2	D		ACOUSTICAL FOAM SHEET, 1/2 INCH THICK, PRESSURE SENSITIVE ADHESIVE BACKED 725SEGRAY (16749)	FT
3	D		CABLE, SP, ELECTRICAL 8750 (70903)	FT
4	O	6850-00-597-9765	CLEANING COMPOUND, TRICHLOROETHANE MILC-18718 (81349)	GL
5	O	8305-00-267-3015	CHEESECLOTH, LINT FREE, TYPE I, CLASS 2. CCCC440 (81348)	YD
6	D	7920-00-985-6849	CLOTH, POLISHING, CHEMICALLY TREATED, NONABRASIVE, DUST-ABSORBENT, LINT-FREE. 11 X 13-1/2 INCH. DDDC00450 (81348)	EA
7	D	7930-00-634-1362	DETERGENT (25 LB) P-D-220 (81348)	DR
8	D	9620-00-233-6712	GRAPHITE, DRY (1 LB) SSG 659 (81348)	LB
9	O	9150-00-231-6639	OIL, GENERAL PURPOSE	CN
10	D		POLYURETHANE FOAM RI 10/R223 (89262)	FT
11	D	5350-00-223-5582	PUMICE, TECHNICAL, (1 LB), SSP-821 (81348)	LB
12	D		SEALER, CLASS A-2 MIL-S-7124 (81349)	OZ
13	D		SOLDER SN60 (81349)	OZ
14	D		WIRE, ELECTRICAL, 14 GAGE, BLACK 8520-14GA (70903)	FT
15	D		WIRE, ELECTRICAL, 18 GAGE 8453 (70903)	FT

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None

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