TECHNICAL MANUAL

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

TOPOGRAPHIC SUPPORT SYSTEM STORAGE AND DISTRIBUTION SECTION MODEL ADC-TSS-2 NSN: 6675-01-105-5752

THIS MANUAL SUPERSEDES TM 5-6675-314-14 DATED 15 JUNE 1983

HEADQUARTERS, DEPARTMENT OF THE ARMY

17 MAY 1985

WARNING

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

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

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

CAUTION

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

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

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

TM 5-6675-314-14
C4

Change
No. 4

HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, DC, 1 September 2005

Operator's, Unit, Direct Support and General Support Maintenance Manual
Topographic Support System
Storage and Distribution Section, Model ADC-TSS-2
(NSN 6675-01-105-5752) (EIC: YTQ)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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

In any case, we will send you a reply.

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TM 5-6675-314-14, dated 17 May 1985, is changed as follows:

1. Title of manual is changed as shown above.

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

Remove Pages	*Insert Pages*
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B-1 through B-8	B-1 through B-8

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Maintenance Manual

TOPOGRAPHIC SUPPORT SYSTEM
STORAGE AND DISTRIBUTION SECTION
MODEL ADC-TSS-2
NSN 6675-01-105-5752

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Operator's Organizational, Direct
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TOPOGRAPHIC SUPPORT SYSTEM
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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 13 June 1986

Operator's, Organizational, Direct Support and General Support Maintenance Manual

TOPOGRAPHIC SUPPORT SYSTEM STORAGE AND DISTRIBUTION SECTION MODEL ADC-TSS-2 NSN: 6675-01-105-5752

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1-51 and 1-52	1-51 and 1-52
1-57 through 1-60	1-57 through 1-60
1-67 and 1-68	1-67 and 1-68
1-73 and 1-74	1-73 and 1-74
1-81 and 1-82	1-81 and 1-82
1-87 and 1-88	1-87 and 1-88
1-91 and 1-92	1-91 and 1-92
1-95 through 1-98	1-95 through 1-98
1-101 and 1-102	1-101 and 1-102
2-9 and 2-10	2-9 and 2-10
A-1 and A-2	A-1 and A-2
B-5 through B-8	B-5 through B-8
C-1 through C-10	C-1 through C-10
C-11 and C-12	---
D-1/D-2	D-1/D-2
E-1 and E-2	E-1 and E-2
---	E-3 and E-4

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Cover	0
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i and ii	1
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1-14 through 1-18	0
1-19 and 1-20	2
1-21 through 1-47	0
1-48	1
1-49 and 1-50	0
1-51 and 1-52	1
1-53 through 1-57	0
1-58	1
1-59	0
1-60	1
1-61 through 1-67	0
1-68	1
1-69 through 1-72	0
1-73	1
1-74 through 1-80	0
1-81	1
1-82 through 1-87	0
1-88	1
1-89 and 1-90	0
1-91	1
1-92 through 1-94	0
1-95	1
1-96 and 1-97	0
1-98	1
1-99 through 1-101	0
1-102	1
1-103	0
2-0 through 2-9	0
2-10	1
2-11 through 2-25	0
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B-1 through B-8	**4**
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NO. 5-6675-314-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 17 May 1985

Operator's, Organizational, Direct Support and General Support Maintenance Manual

TOPOGRAPHIC SUPPORT SYSTEM
STORAGE AND DISTRIBUTION SECTION
MODEL ADC-TSS-2
NSN: 6675-01-105-5752

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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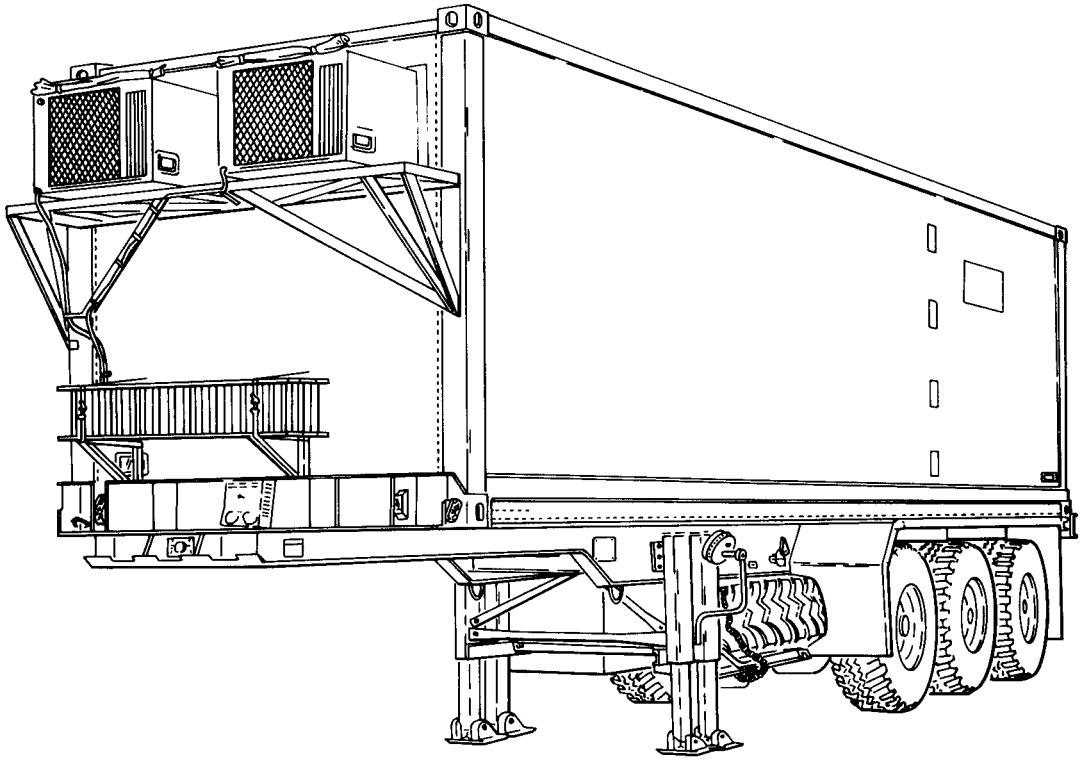


CHAPTER 1

STORAGE AND DISTRIBUTION SECTION

Section I INTRODUCTION

1-1. GENERAL INFORMATION.

1-1.1 Scope. This manual contains operating and maintenance instructions for the ADC-TSS-02, Storage and Distribution Section, Topographic Support System (TSS). The purpose of the Storage and Distribution Section is to identify, store, retrieve, and distribute topographic data and maps. The trailer chassis is covered in TM 5-2330-305-14, Operator, Organizational, Direct Support and General Support Maintenance Manual, Topographic Support System, Chassis, Semitrailer, ISO Container Transporter. Repair parts and special tools are listed in TM 5-6675-314-24P, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List, Storage and Distribution Section, Topographic Support System. Lubrication instructions are contained in LO 5-6675-314-12, Lubrication Order, Storage and Distribution Section, Topographic Support System. All authorized equipment, supplies, and their locations for transport are shown in Location and Description of Major Components of this manual.

1-1.2 Purpose of Equipment. To provide a transportable facility for centralized control, direction, and management for the overall functions of the TSS. This control includes processing external priorities and managing operational activities within the TSS.

1-1.3 Maintenance Forms and Records. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, the Army Maintenance Management System (TAMMS).

1-1.4 Reporting Equipment Improvements (EIR's). If the Storage and Distribution Section needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Blvd, St Louis, MO 63120-1798. We will send you a reply.

1-1.5 Destruction of Material to Prevent Enemy Use. For information on destruction of material to prevent enemy use, refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use.

1-1.6 Preparation for Storage or Shipment.

a. Perform your preparation for movement procedures.

b. For administrative storage of equipment, refer to TM 740-90-1.

c. The chapters of this manual describe special shipping instructions for major components located in the section.

d. In the event this equipment must be removed from the section for repair or replacement, contact your battalion for packing and shipping instructions.

1-2. EQUIPMENT DESCRIPTION.

1-2.1 Equipment Characteristics, Capabilities, and Features.

a. Air and sea transportable.

b. Transportable cross-country capability when mounted on trailer chassis.

c. Controlled internal environment.

1-2.2 Special Considerations.

a. Site must permit section to be leveled within ±2°, be well drained, and provide adequate overhead concealment. Wooded areas and other obstacles must not impede movement of transporters.

b. Dispersal of topographic sections is limited to the length of electric power transmission cable available for unit generators.

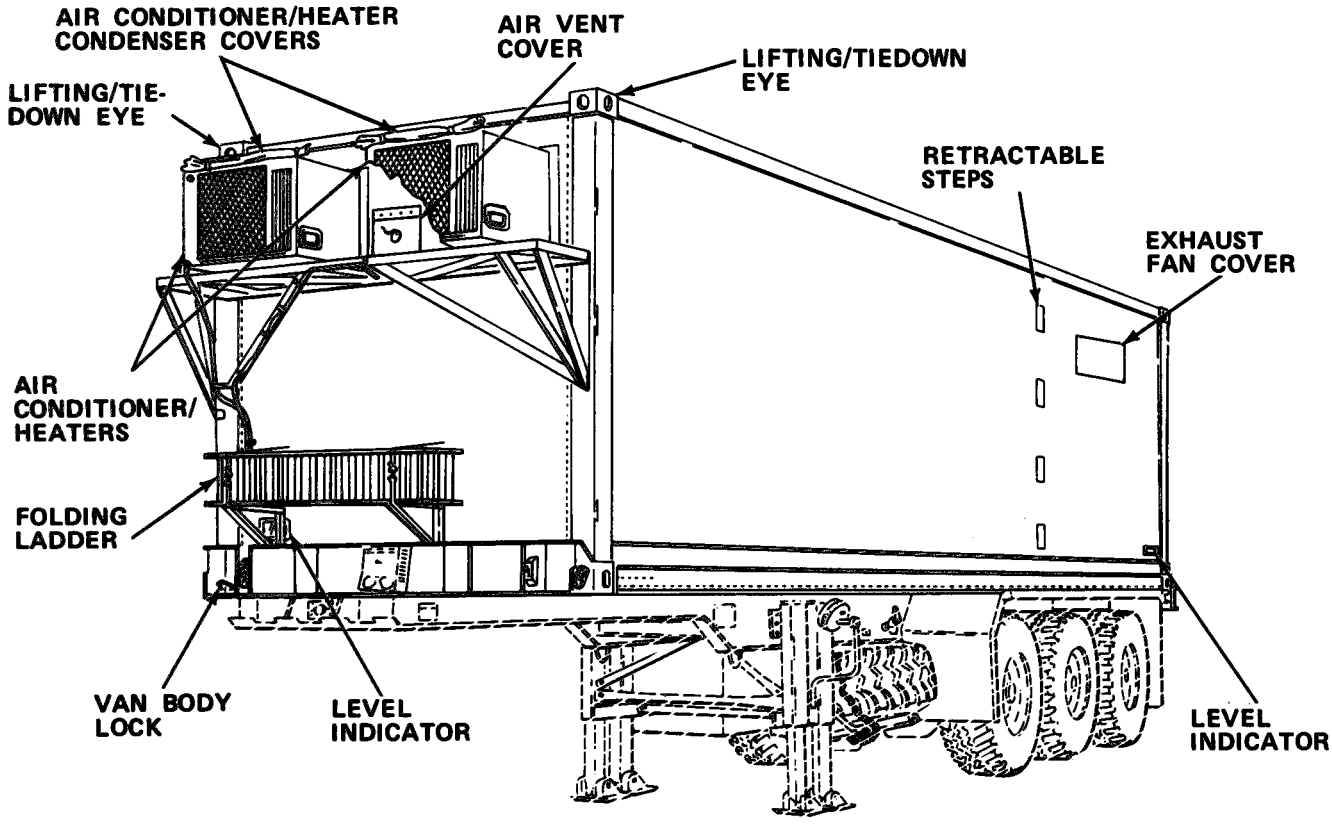
c. During site selection, avoid overhead power transmission lines to prevent danger from electric shock or electromagnetic interference.

d. Power is normally supplied by 60 kW generators. Commercial electric power should be used if it is compatible and available.

e. Cross-country capability of sections and transporters is limited. Relocation should be accomplished over hard-surfaced, all-weather roads whenever possible.

1-2.3 Location and Description of Major Components.

a. Roadside Exterior.



VAN BODY LOCK. Locks van body to trailer chassis.

AIR CONDITIONERS/HEATERS. Two air conditioner/heater units for internal environmental control.

LIFTING/TIEDOWN EYES. Attachment point for lifting or tying down van body.

AIR CONDITIONER/HEATER CONDENSER COVERS . Covers air conditioner/heater condenser to prevent water/air entering air conditioner/heater unit when in transport or storage.

AIR VENT COVER. Covers air vent opening.

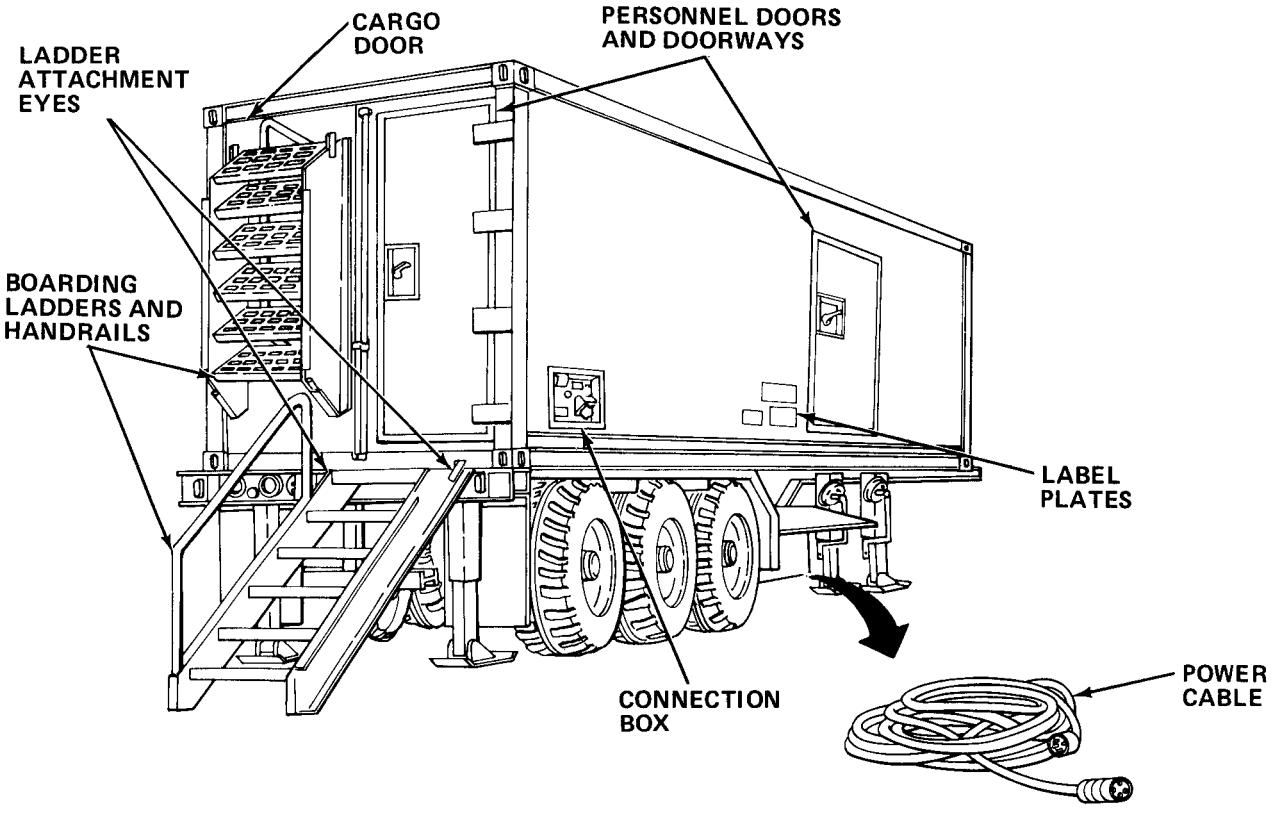
RETRACTABLE STEPS. Provide access to roof.

EXHAUST FAN COVER. Covers exhaust fan opening.

LEVEL INDICATORS. Indicate van body inclination.

FOLDING LADDER. Allows access to air conditioners and top of van.

b. Curbside Exterior.



CARGO DOOR. Access for equipment removal/installation.

PERSONNEL DOORS. Doors are 35.75 in. (90.8 cm) wide by 86 in. (218.4 cm) high.

PERSONNEL DOORWAYS. Doorways are 30.75 in. (78.1 cm) wide by 78.5 in. (199.4 cm) high.

LABEL PLATES. Provide weight/moment data.

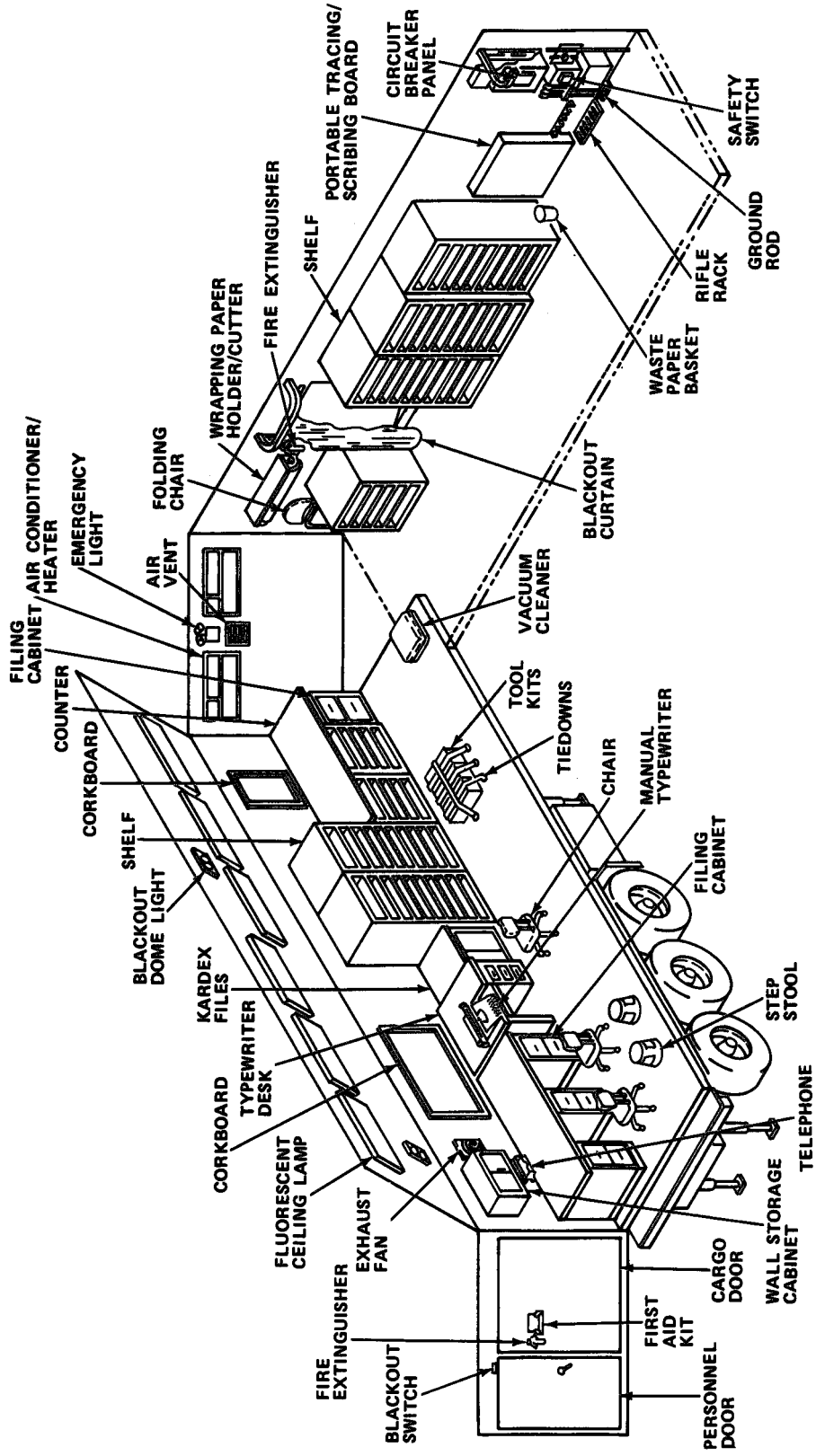
POWER CABLE. Power cable is in 50 ft (15.2 m) sections. (Stored in trailer chassis storage box.)

CONNECTION BOX. Contains terminals for ground cable, power cables, and telephone lines.

LADDER ATTACHMENT EYES. Attachment points for boarding ladder.

BOARDING LADDERS AND HANDRAILS. Provide access to section.

c. Interior.


PORTABLE TRACING/ SCRIBING BOARD
CIRCUIT BREAKER PANEL
SAFETY SWITCH
SHELF
FIRE EXTINGUISHER
WRAPPING PAPER HOLDER/CUTTER
GROUND ROD
RIFLE RACK
WASTE PAPER BASKET
FOLDING CHAIR
BLACKOUT CURTAIN
AIR CONDITIONER/ HEATER
EMERGENCY LIGHT
AIR VENT
VACUUM CLEANER
FILING CABINET
TOOL KITS
COUNTER
TIEDOWNS
CHAIR
MANUAL TYPEWRITER
CORKBOARD
SHELF
FILING CABINET
BLACKOUT DOME LIGHT
KARDEX FILES
STEP STOOL
TYPEWRITER DESK
CORKBOARD
TELEPHONE
FLUORESCENT CEILING LAMP
EXHAUST FAN
WALL STORAGE CABINET
CARGO DOOR
FIRE EXTINGUISHER
FIRST AID KIT
BLACKOUT SWITCH
PERSONNEL DOOR

PERSONNEL DOOR. Weatherproof, fitted with blackout switch.

BLACKOUT SWITCH. Turns ceiling lights off when activated.

FIRE EXTINGUISHER. Dry chemical fire extinguisher.

FIRST AID KIT. Limited first aid supplies.

CARGO DOOR. Access for equipment removal/installation.

WALL STORAGE CABINET: Storage.

FLUORESCENT CEILING LAMP. White, two-level (high/low) overhead light.

EXHAUST FAN. Provides ventilation. Fitted with lightproof louvers and weatherproof cover.

CORKBOARD. Vertical display board.

TYPEWRITER DESK. Work station.

KARDEX FILES. Storage for Kardex cards.

BLACKOUT DOME LIGHT. Red-lensed, white-lensed 12 V ac light actuated when blackout switch operates, or from external power.

SHELF. Storage.

CORKBOARD. Vertical display board.

COUNTER. Work station.

FILING CABINET. Storage.

AIR CONDITIONERS/HEATERS. Internal environmental control.

EMERGENCY LIGHTS. Battery-powered lighting actuated by power failure.

AIR VENT. Permits filtered make-up air to enter van body.

WRAPPING PAPER HOLDER/CUTTER. Dispenses wrapping paper.

FOLDING CHAIR. Storage for transport.

SHELF. Storage.

PORTABLE TRACING/SCRIBING BOARD. Illuminated board for tracing/scribing.

CIRCUIT BREAKER PANEL. Circuit breakers with phase test indicator.

SAFETY SWITCH. Main power safety disconnect switch.

GROUND ROD . Electrical ground for section.

RIFLE RACK. Weapon storage.

WASTEPAPER BASKET. Storage for transport.

BLACKOUT CURTAIN. Lightproof cover for personnel door.

VACUUM CLEANER. Cleaning equipment.

TOOL KITS.

CHAIR. Used at desk work station.

TIEDOWNS. Stored inside storage cabinet when not in use.

FILING CABINET. Storage.

STEP STOOL. Storage for transport.

MANUAL TYPEWRITER. Wide carriage.

TELEPHONE. Communication terminal.

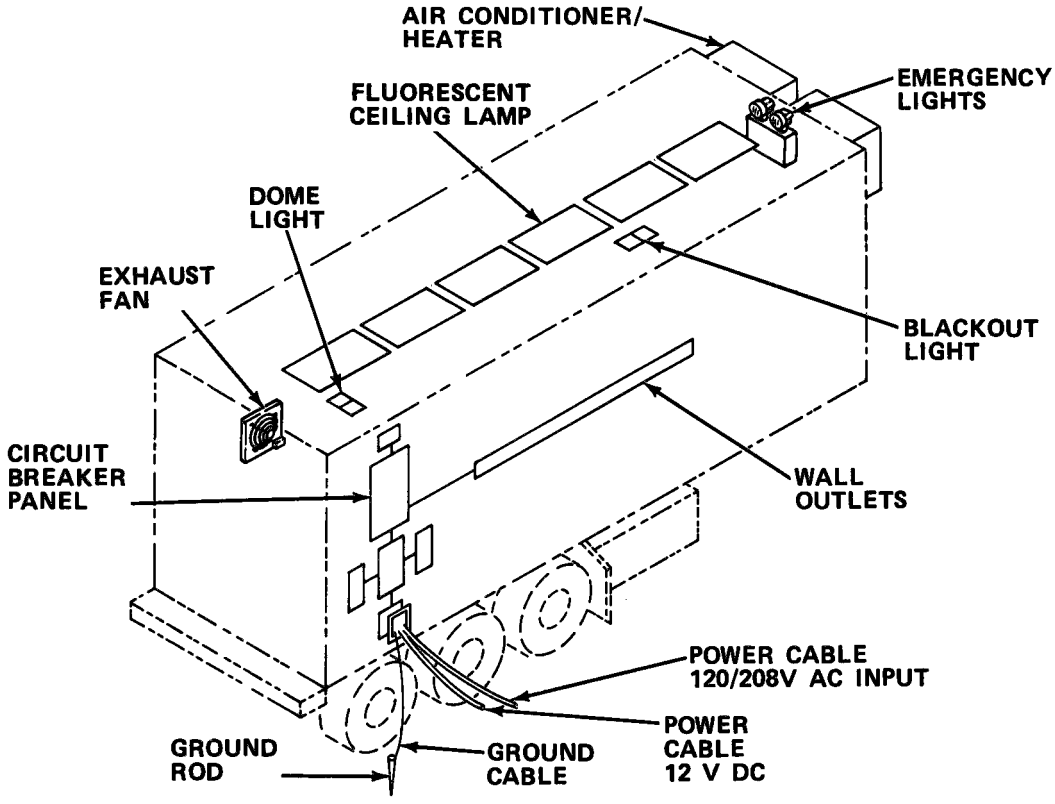
1-2.4 Equipment Data - ISO Container (Unmounted.

Dimensions	
Length	33.66 ft (10.26 m)
Width	8 ft (2.44 m)
Height	8 ft (2.44 m)
Cubage	2038 ft^3 (57.7 m^3)
Connections	
Telephones	One telephone (three-post) connection
Power	12.7 kW. One 120/208 V, three-phase, four-wire connection and one 12 V dc connection
Ground	Ground lug
Air Conditioner/Heater (Two Units)	
Cooling	18,000 Btu/hr (5274 W) Each
Heating	14,300 Btu/hr (4190 W) (Max) Each
Power Requirements	208 V, 60 Hz, three-phase
Exhaust Fan	289 ft^3/min (8.18 m^3/min)
Air Vent	289 ft^3/min (8.18 m^3/min)
Weight	
Gross (Container and Chassis)	27,470 lbs (12,457.65 kg)
Tare (Container Only)	16,030 lbs (7269.61 kg)

1-3. TECHNICAL PRINCIPLES OF OPERATION.

1-3.1 General. The operation of major components located within the section are explained in the appropriate chapter for that equipment.

1-3.2 Electrical System.



GROUND ROD. Used to ground section.

GROUND CABLE. Used with ground rod.

CIRCUIT BREAKER PANEL. Contains voltage indicator, phase monitor, and circuit breakers.

DOME LIGHTS. White-lensed, 12 V dc lights powered from external source. Separately switched and fused.

EXHAUST FAN. Plug-in fan. Separately fused.

FLUORESCENT CEILING LAMPS. Two-level (high/low) overhead lights with blackout override switches.

EMERGENCY LIGHTS. Battery powered. Activated by power loss.

AIR CONDITIONER/HEATER. Air conditioner and electrical heater powered by three-phase, 208 V, 30 amp current.

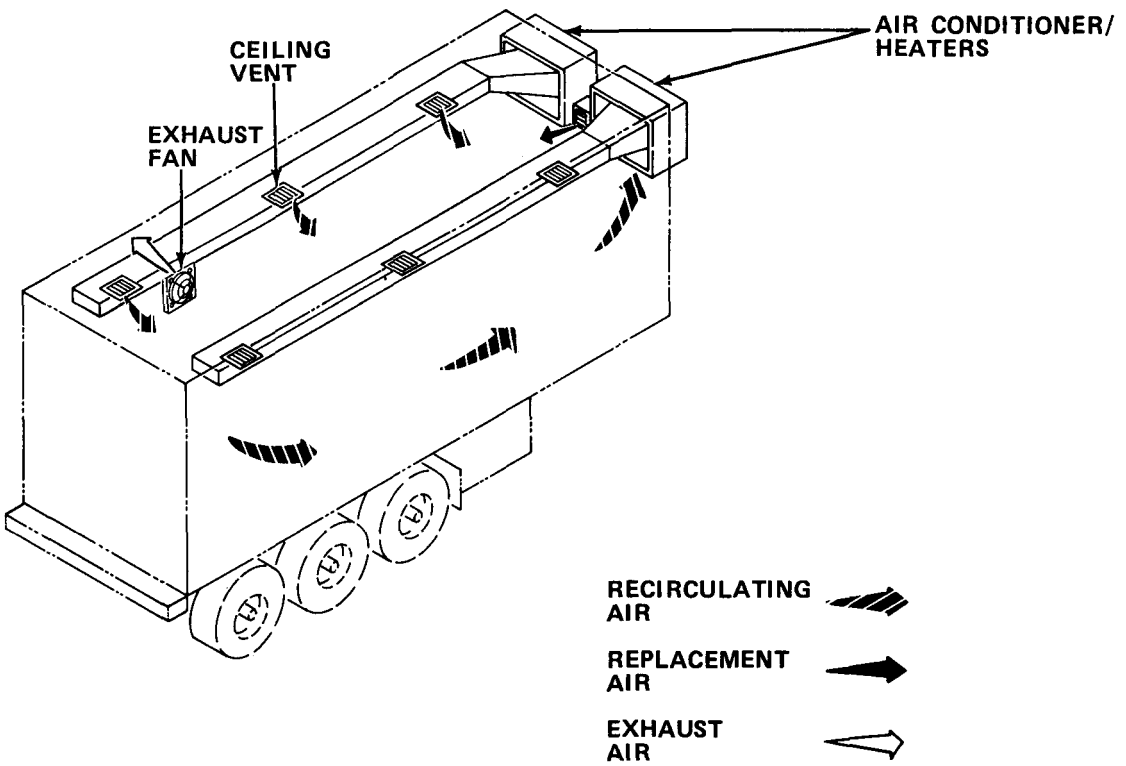
BLACKOUT LIGHTS. Red-lensed, 12 V ac lights actuated when blackout switch operates.

WALL OUTLETS . Provide grounded outlets for portable or plug-in equipment.

POWER CABLES. Power input (120/208 V ac and 12 V dc).

1-3.3 Wiring Diagram. A foldout wiring diagram is provided at the end of this manual.

1-3.4 Ventilation System.



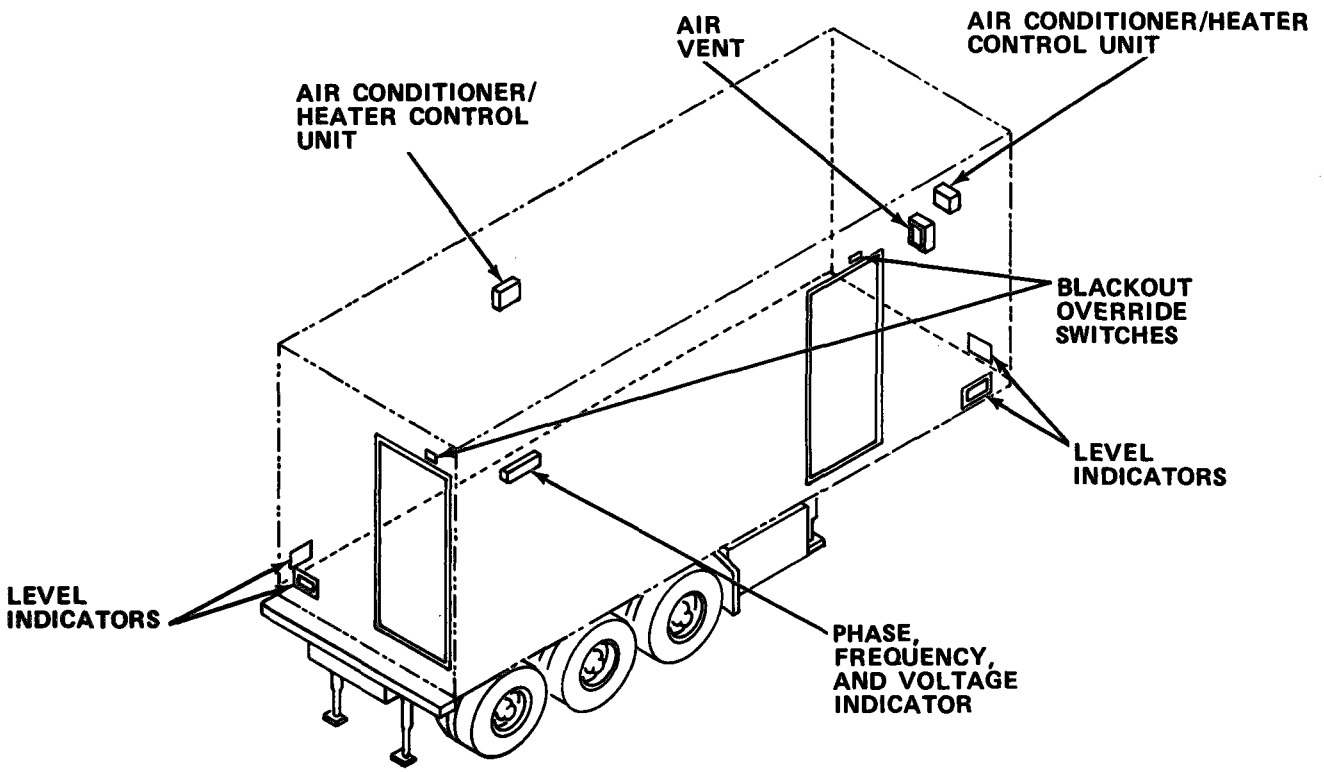
Exhaust fan exhausts air. Replacement air flows into the section through the air vent filter. Recirculating air is filtered as it enters the air conditioners/heaters. From the air conditioners/heaters, it flows through the ceiling vents and into the section.

NOTE

Detailed description of air conditioner/heater operation is contained in TM 5-4120-367-14, Operator, Organizational, Direct Support, and General Support Maintenance Manual, Air Conditioner, Horizontal, Compact, 18,000 Btu/hr Cooling, and TM 5-4120-367-24P, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair) for Air Conditioner, Horizontal, Compact, 18,000 Btu/hr (5274W).

Section II OPERATING INSTRUCTIONS

1-4. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS.



Control or Indicator	Function
Blackout Override Switches	Turn off illumination when doors are opened.
Air Vent	Permits make-up air to enter as required.
Air Conditioner/Heater Control Unit	Permits selection of air conditioner or heater mode of operation and temperature.
Phase, Frequency, and Voltage Indicator	Monitors electrical power, phase, frequency, and voltage.
Level Indicators	Used to level section.

1-5. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

a. Before You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your before (B) PMCS.

b. While You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your during (D) PMCS.

c. After You Operate. Be sure to perform your after (A) PMCS.

d. If Your Equipment Fails to Operate. Troubleshoot with proper equipment. Report any deficiencies using the proper forms. See DA Pam 738-750.

1-5.1 PMCS Procedures.

a. PMCS are designed to keep the equipment in good working condition by performing periodic service tasks.

b. Service intervals provide you, the operator, with time schedules that determine when to perform specified service tasks.

c. The "Equipment is Not Ready/Available If" column is used for identification of conditions that make the equipment not ready/available for readiness reporting purposes or denies use of the equipment until corrective maintenance is performed.

d. If your equipment fails to operate after PMCS is performed, immediately report this condition to your supervisor.

e. Perform weekly as well as before operation if you are the assigned operator and have not operated the item since the last weekly or if you are operating the item for the first time.

f. Item number column. Item numbers are assigned in chronological ascending sequence regardless of interval designation. These numbers are used for your "TM Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet in recording results of PMCS.

Interval columns. This column determines the time period designated to perform your PMCS.

h. Item to be inspected and procedures column. This column lists functional groups and their respective assemblies and subassemblies as shown in the Maintenance Allocation Chart (Appendix B). The appropriate check or service procedure follows the specific item to be inspected.

i. Equipment is not ready/available if: column. This column indicates the reason or cause why your equipment is not ready/available to perform its primary mission.

j. List of tools and materials required for PMCS is as follows:

Item	Quantity
Wire Brush	1 ea
6 in. Adjustable Wrench	1 ea
Flat Tip Screwdriver	1 ea
Vacuum Cleaner	1 ea
Cheesecloth (Item 12, Appendix E)	ar
General Purpose Detergent (Item 13, Appendix E)	ar
Paint (Items 21, 22 and 23, Appendix E)	ar
Paint Brushes	ar

Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES

NOTE

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

B - Before **W - Weekly** **AN - Annually** **(Number) - Hundreds of Hours**
D - During **M - Monthly** **S - Semiannually**
A - After **Q - Quarterly** **BI - Biennially**

ITEM NO.	INTERVAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY	
1		Inspect Exterior.	
	B/W	1. Inspect surfaces for punctures, cracks, or open seams that could permit moisture to enter wall.	Punctures, cracks, or open seams are present.
	B	2. Inspect four level indicators for damage and to be sure section is level.	Indicators are broken.

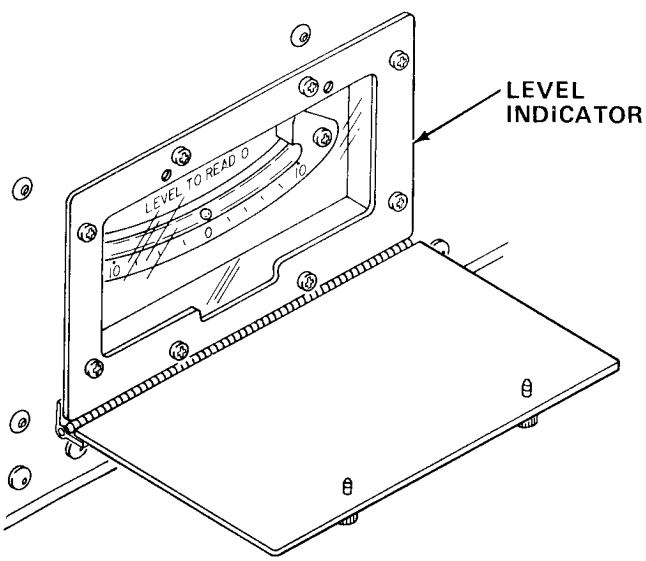


Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before, D - During, A - After | W - Weekly, M - Monthly, Q - Quarterly | AN - Annually, S - Semiannually, Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO.	INTERVAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
1		Inspect Exterior - Cont	
		WARNING To prevent death or serious injury, do not handle or clean power cable or connectors when cable is connected to power source.	
	B	3. Inspect power cable assembly for dirt or damaged connectors. a. Wipe cable insulation with clean, dry cloth to remove dirt. b. Clean corrosion from terminals.	Connector damaged.
	B/W	4. Inspect power entry panel for accumulated dirt, water, or corrosion. Clean power entry panel.	

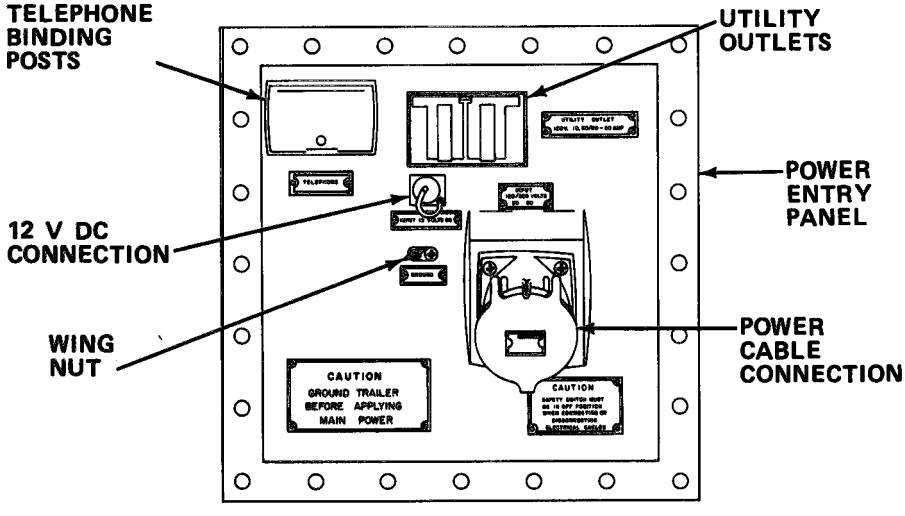


Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before	W - Weekly	AN - Annually	(Number)	Hundreds of Hours
D - During	M - Monthly	S - Semiannually		
A - After	Q - Quarterly	BI - Biennially		

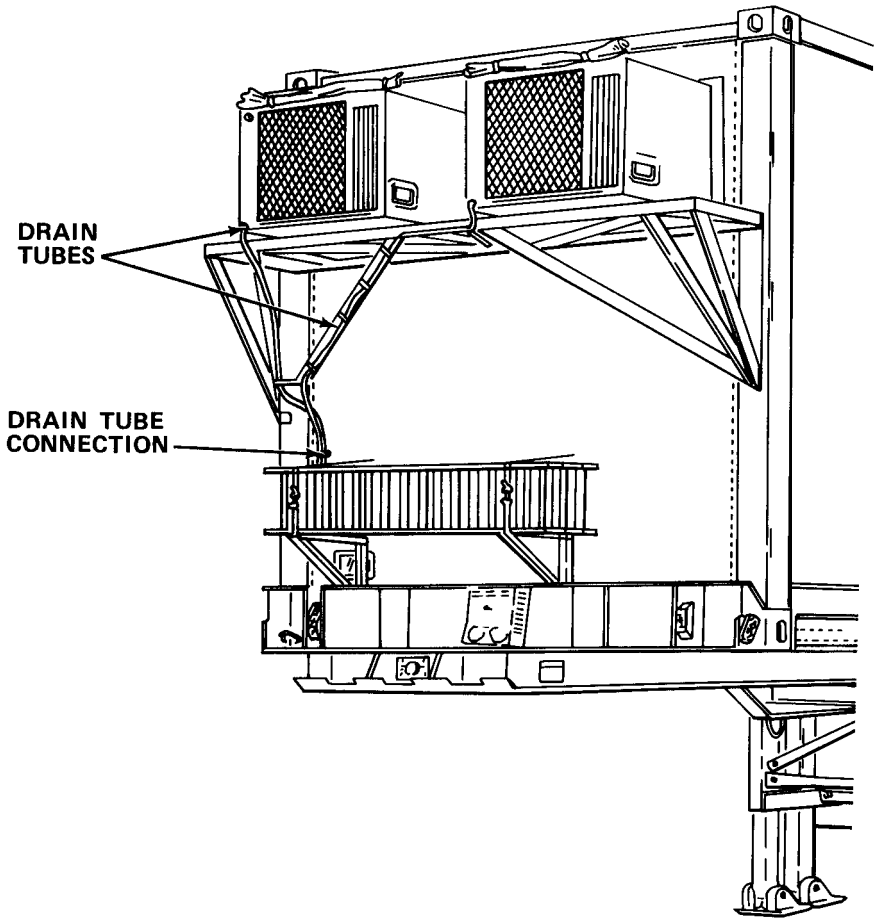
ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
1		Inspect Exterior - Cont	
	B/W	5. Inspect power entry panel to be sure any unused receptacles are covered.	Missing covers.
			
	B/W	6. Inspect air conditioner/heater drain Lube to be sure tube is positioned as shown. Check for breaks and crimps in hose; check connections for damage or leakage.	

Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before D - During A - After | W - Weekly M - Monthly Q - Quarterly | AN - Annually S - Semiannually BI - Biennially | (Number) - Hundreds of Hours

ITEM NO	INTERVAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
1		Inspect Exterior - Cont	
		NOTE When mounted on trailer chassis, perform following steps.	
	B/D/A	10. Inspect front and rear van body locks to be sure locks are fully engaged.	Lock disengaged.
	Q	11. Inspect gaskets on personnel doors for leaks or damage.	
	W	11.1 Inspect hinges for proper placement of hinge pins.	Missing hinge pins.
	Q	12. Clean and paint blistered, pitted, or flaking areas and bare metal spots in accordance with instructions contained in TM 43-0139, Painting Instructions for Field Use.	
2		Inspect Interior.	
	B/D	1. Test emergency lights by pressing test button.	Emergency lights do not light.
	W	2. Inspect power cords and cables to be sure wires are not kinked, cut, or cracked.	Wires or cables are cracked or cut.
	W	3. Inspect plug connectors to be sure all plug connectors are tight and firmly seated. Tighten if necessary.	
	D	4. Inspect for burned out light bulbs and fluorescent lamps. Replace as required.	
	W	5. Inspect walls, ceilings, and floor for holes, open seams, or signs of seepage or leaks.	Leaks are present.
	D	6. Check storage cabinets for broken hinges, latches, and locks.	Hinge, latch, or lock is broken.

Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before D - During A - After | W - Weekly M - Monthly Q . Quarterly | AN - Annually S - Semiannually Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipmant Is Not Ready/ Available If:
		VAN BODY - Cont	
2		Inspect Interior - Cont	
	B/M/A	7. Inspect fire extinguishers. Be sure security seals are not broken.	Fire extinguisher is missing or seals are broken.
	Q	8. Inspect circuit breaker panel.	Circuit breaker is defective.

NOTE

Inspection is to be conducted on a not-to-interfere basis with work being conducted. Individual equipment will be inspected as directed by the appropriate chapter of this manual.

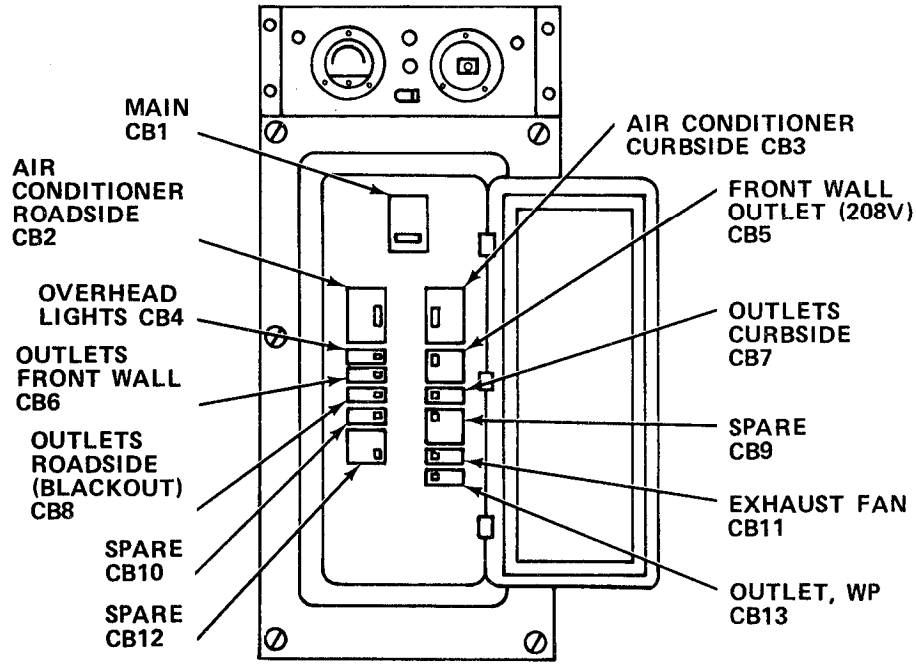


Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

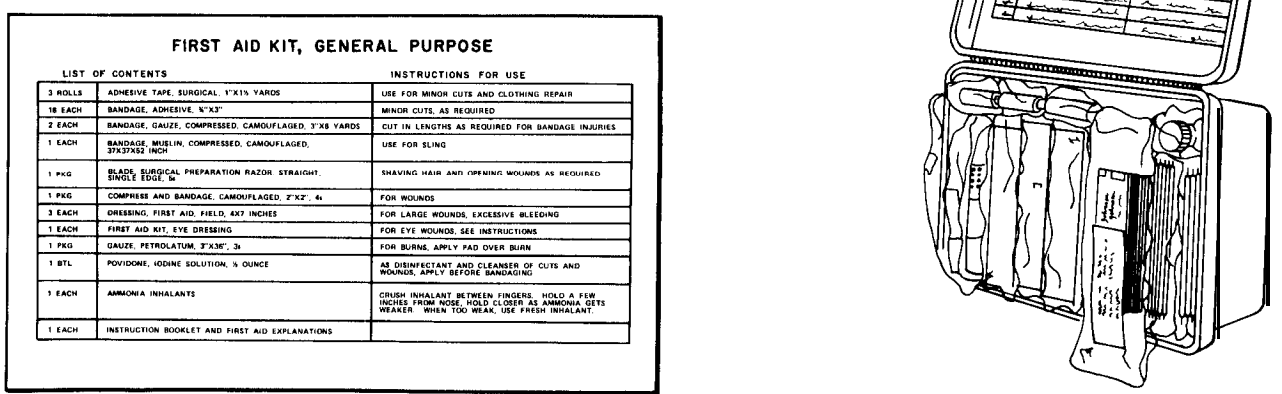
B - Before D - During A - After | w - weekly M - Monthly Q - Quarterly | AN - Annually s - Semiannual Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
2		Inspect Interior - Cont	
		a. Set main circuit breaker to ON.	
		b. Set each circuit breaker to OFF, then ON.	
	Q	9. Inspect light traps.	
		a. Turn on fluorescent 1 amps (high level).	
		b. Close entrance doors. Have exhaust fan and air vent open. Inspect for light leakage through vents.	Light leaks are present.
		c. Place light switches ON; blackout override switches OFF.	
		d. Open door and make sure internal lights go off.	Blackout system is inoperable.
	A	10. Inspect/clean interior.	
		WARNING Death or serious injury may occur if wet or damp cloth is used to wipe or clean energized equipment, power cords, or cables.	
		CAUTION Do not sweep interior. Dislodged dirt or dust will ruin optical, electronic, and photographic equipment and supplies.	
		a. Wipe vertical and horizontal painted surfaces with cleaning cloth moistened with solution of general purpose detergent and fresh water until soil is removed from painted surfaces.	

Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before D . During A - After | W - Weekly M - Monthly Q - Quarterly | AN - Annually S - Semiannually BI - Biennially | (Number) - Hundreds of Hours

ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
2		Inspect Interior - Cont	
		b. Dry vertical and hori zontal painted surfaces with clean cloth.	
		c. Vacuum interior of section to remove dirt and waste. Pay particular attention to work stations.	
	S	11. Inspect first aid kit.	



FIRST AID KIT, GENERAL PURPOSE

LIST OF CONTENTS		INSTRUCTIONS FOR USE
3 ROLLS	ADHESIVE TAPE, SURGICAL, 1"X1½ YARDS	USE FOR MINOR CUTS AND CLOTHING REPAIR
18 EACH	BANDAGE, ADHESIVE, ¾"X3"	MINOR CUTS, AS REQUIRED
2 EACH	BANDAGE, GAUZE, COMPRESSED, CAMOUFLAGED, 3"X6 YARDS	CUT IN LENGTHS AS REQUIRED FOR BANDAGE INJURIES
1 EACH	BANDAGE, MUSLIN, COMPRESSED, CAMOUFLAGED, 37X37X52 INCH	USE FOR SLING
1 PKG	BLADE, SURGICAL PREPARATION RAZOR STRAIGHT, SINGLE EDGE, 5s	SHAVING HAIR AND OPENING WOUNDS AS REQUIRED
1 PKG	COMPRESS AND BANDAGE, CAMOUFLAGED, 2"X2", 4s	FOR WOUNDS
3 EACH	DRESSING, FIRST AID, FIELD, 4X7 INCHES	FOR LARGE WOUNDS, EXCESSIVE BLEEDING
1 EACH	FIRST AID KIT, EYE DRESSING	FOR EYE WOUNDS, SEE INSTRUCTIONS
1 PKG	GAUZE, PETROLATUM, 3"X36", 3s	FOR BURNS, APPLY PAD OVER BURN
1 BTL	POVIDONE, IODINE SOLUTION, ½ OUNCE	AS DISINFECTANT AND CLEANSER OF CUTS AND WOUNDS, APPLY BEFORE BANDAGING
1 EACH	AMMONIA INHALANTS	CRUSH INHALANT BETWEEN FINGERS, HOLD A FEW INCHES FROM NOSE, HOLD CLOSER AS AMMONIA GETS WEAKER WHEN TOO WEAK, USE FRESH INHALANT
1 EACH	INSTRUCTION BOOKLET AND FIRST AID EXPLANATIONS	

a. Remove first aid kit from bracket.

b. Remove contents.

c. Inspect container for damage.

d. Inspect contents for damage. Then use checklist to inventory contents.

e. Replace damaged or miss ing items.

Table 1-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before, D - During, A - After | W - Weakly, M - Monthly, Q - Quarterly | AN - Annually, S - Semiannually, Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		VAN BODY - Cont	
2		Inspect Interior - Cont	
		f. Repack kit.	
		g. Reinstall kit.	
	B/W	12. Inspect blackout curtains.	
		a. Inspect blackout curtains and valances for tears, missing hooks, or broken eyelets.	Curtains damaged.
		b. Inspect nylon hook and pile tape on curtain and wall for security of attachment.	
3	B	Inspect Air Conditioner/Heater. Refer to TM 5-4120-367-14 for preventive maintenance checks and services.	
4	M	Service Power Cable.	
		WARNING	
		Electrical shock hazard. Power cable must be de-energized before servicing. Death or serious injury may occur from failure to observe this safety precaution.	
		1. Turn off safety switch.	
		2. Disconnect cable from power entry panel.	
		3. Wrap any cuts or abrasions in cable with electrical insulation tape.	
		NOTE	
		Check to be sure cable does not endanger personnel.	
		4. Reconnect power cable to entry panel.	

1-6. OPERATION UNDER USUAL CONDITIONS. Operation of the Storage and Distribution Section consists of activation of power after the section has been located at the operation site and 12 V dc power disconnected.

1-6.1 Preparation for Use.

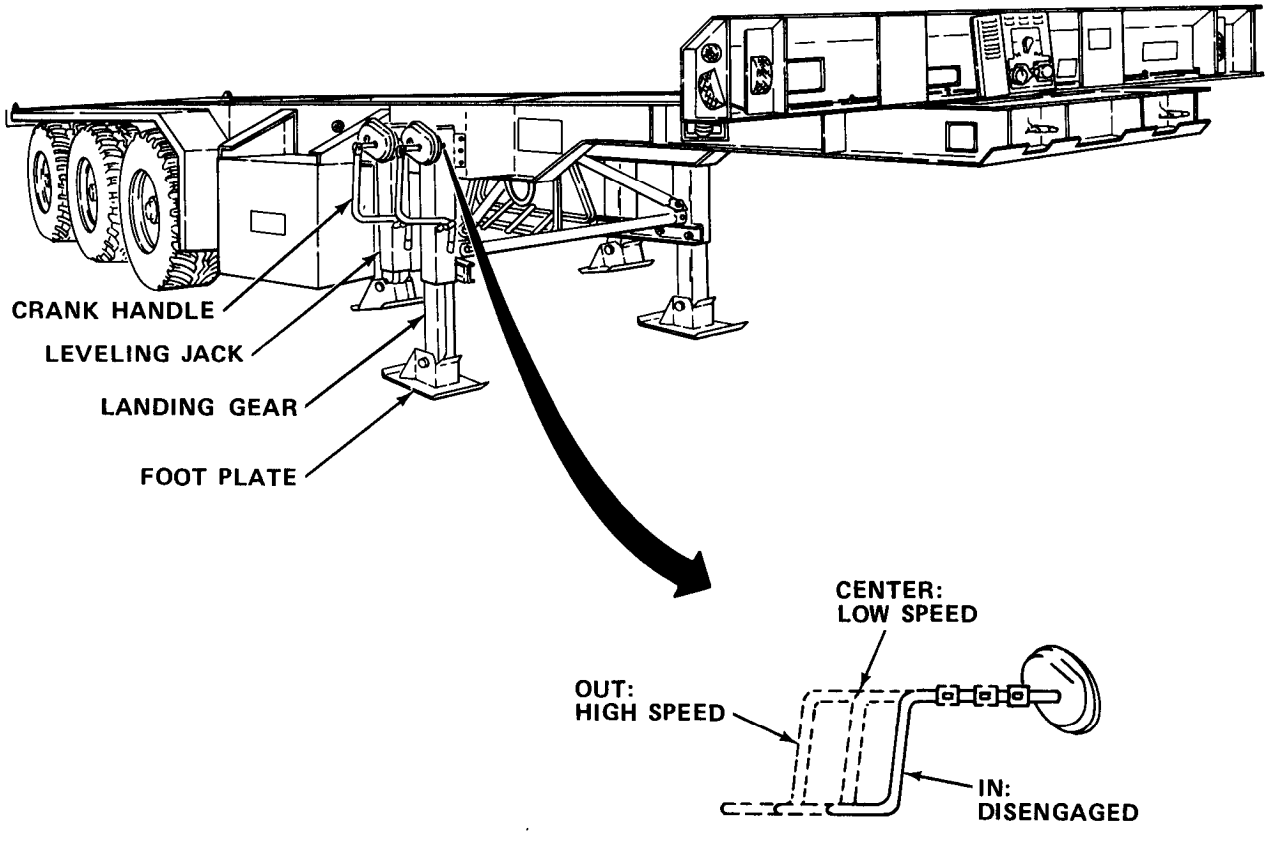
a. Procedures for leveling.

CAUTION

Trailer-mounted section must be on surface that is approximately level to avoid unnecessary stress or twisting of chassis when section is leveled.

NOTE

- Snow or ice should be removed from under leveling foot plate before attempting to level section.
- Sand, soft ground, or mud requires that shoring or scrap material be placed under leveling foot plate to increase surface area and prevent from sinking into surface.
- Be sure that air suspension is deflated as indicated in TM 5-2330-305-14.



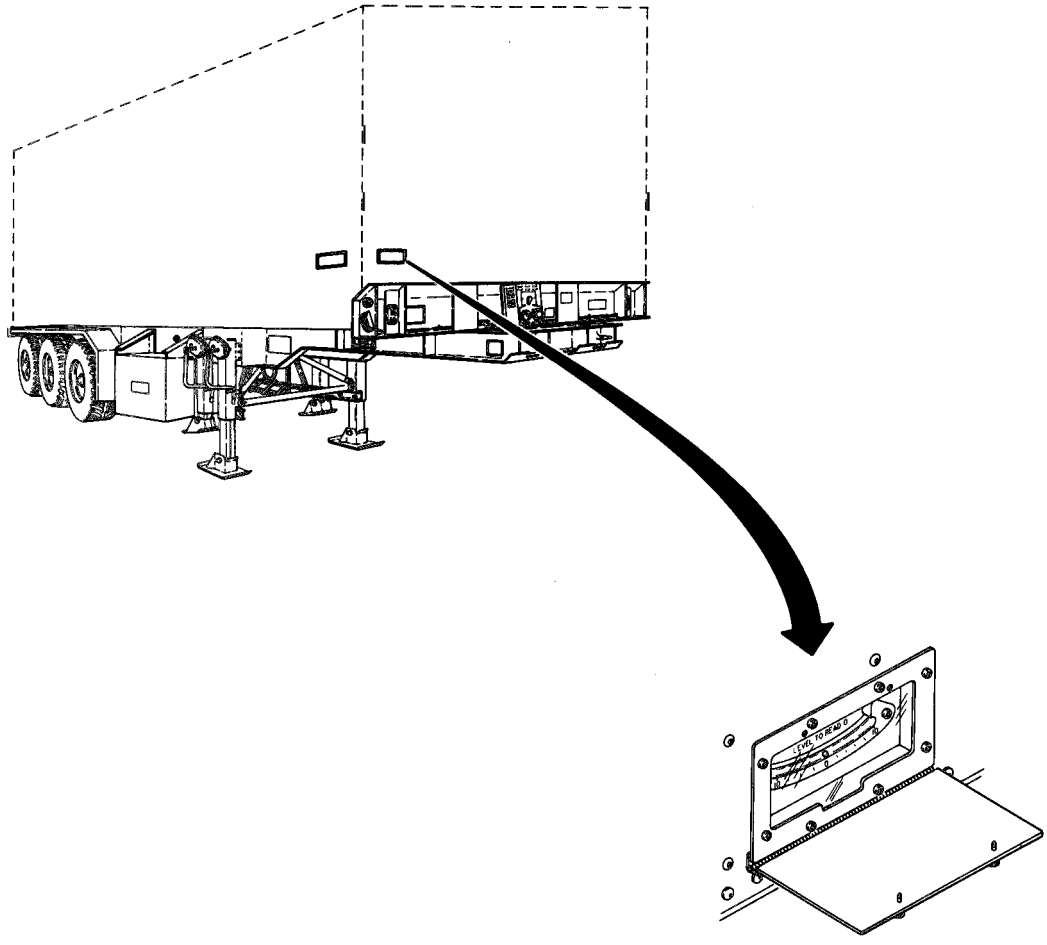
(1) Deflate air suspension in accordance with TM 5-2330-305-14.

(2) Approximately level trailer chassis by raising or lowering landing gear.

(3) Move handle from secured location and swing out.

(4) Pull crank handle on each leveling jack all the way out and engage. There are two positions when handle is engaged. Fully out is high speed. Partially out is low speed.

(5) Lower each leveling jack by turning crank to right at high speed until foot plate just contacts ground.

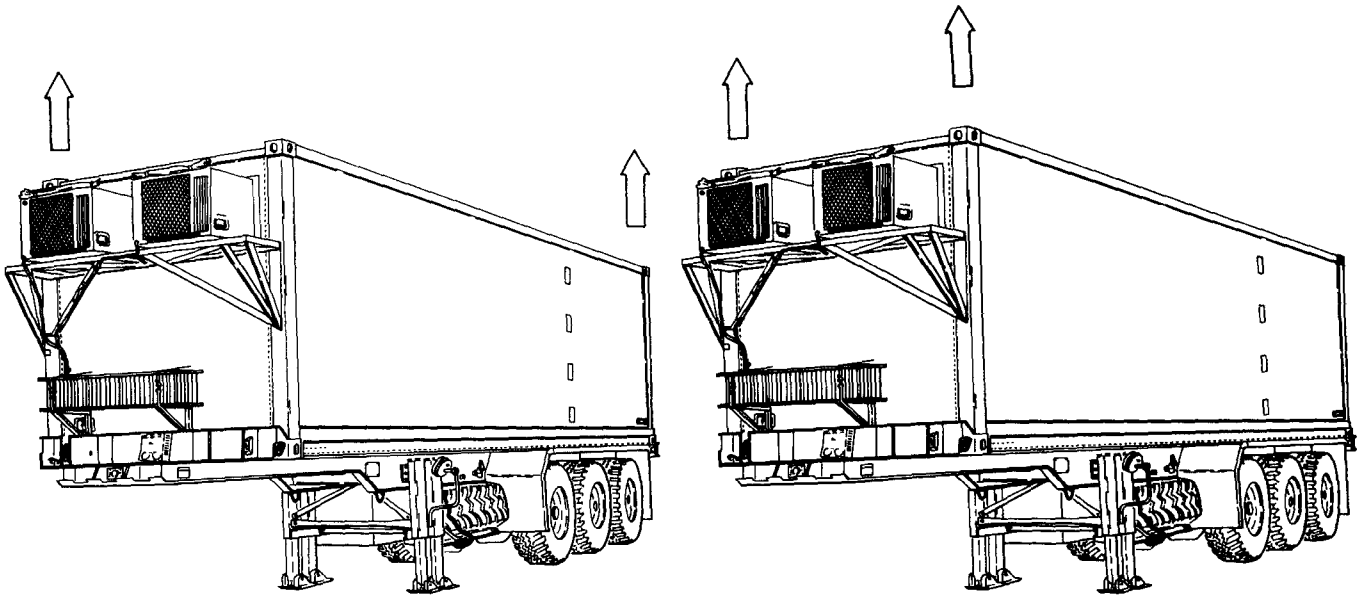


(6) Station personnel to have a clear view of level indicators at both front and rear of section.

(7) Observe level indicators to determine which end and side must be raised.

CAUTION

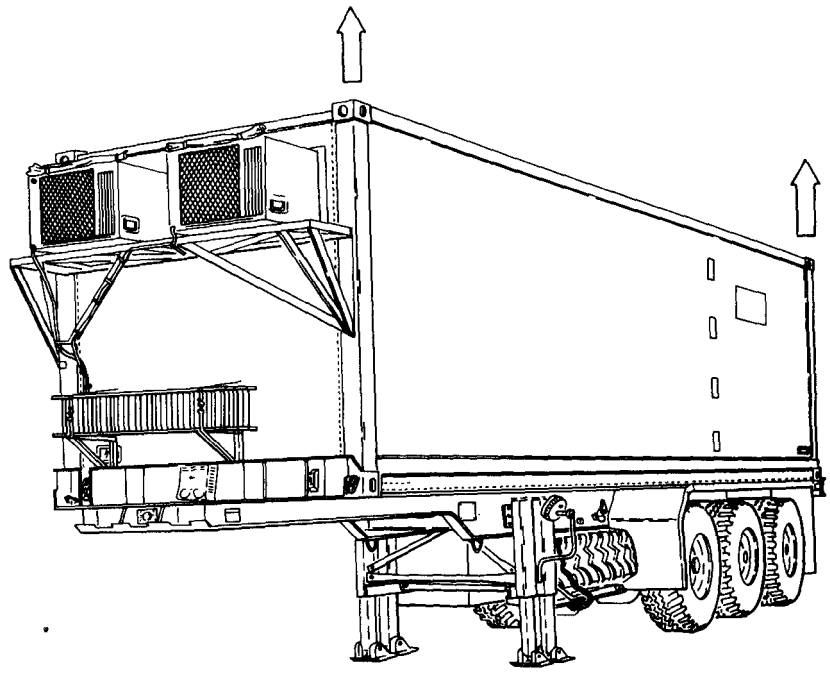
Do not. attempt to level section by lifting at diagonal corners or frame will be twisted.



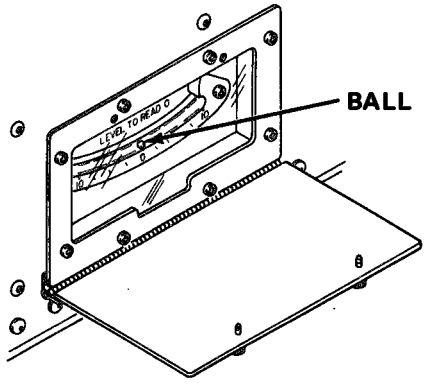
NO

YES

(8) Raise low end by extending both leveling jacks at low end. Use low speed.



(9) Raise low side by extending both leveling jacks at low side.

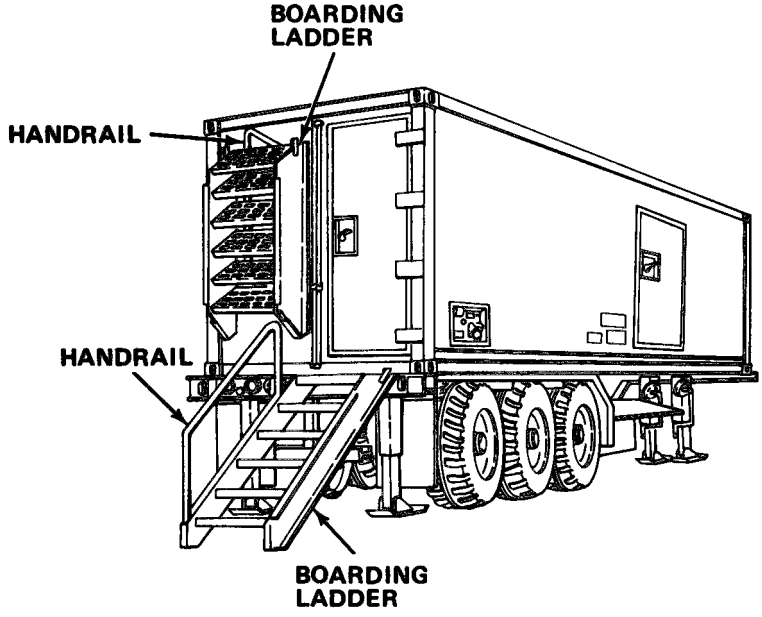


NOTE

Be sure ball is centered on all four level indicators ±2°.

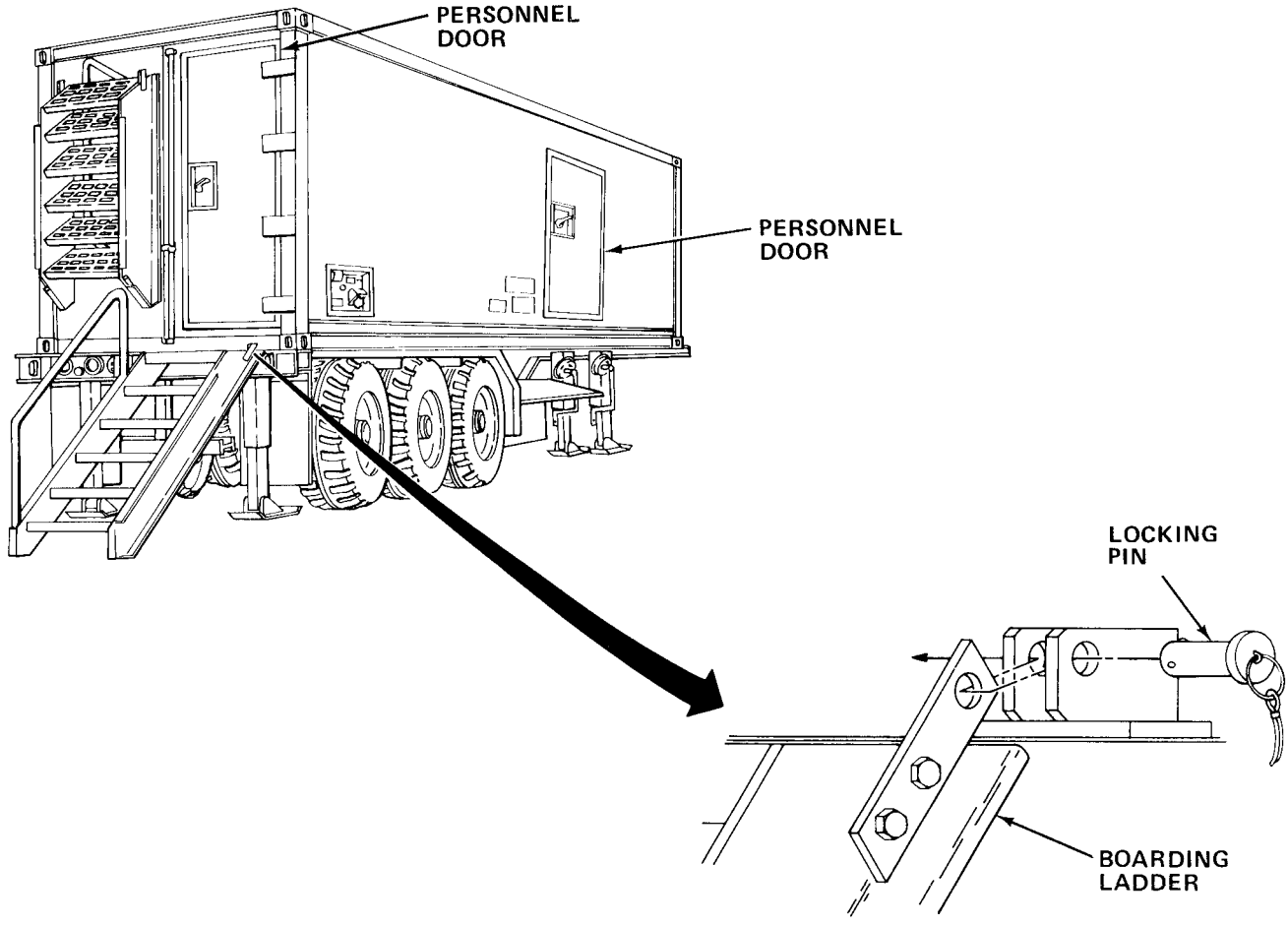
(10) Pull leveling crank handles away from trailer chassis, and lower crank handle to stowed position.

b. Procedures to activate section.

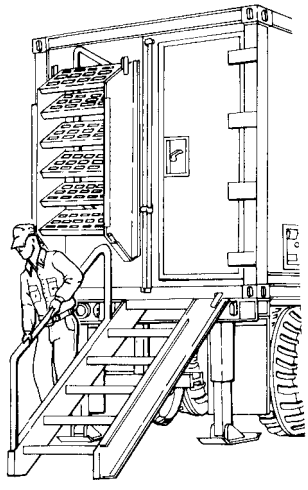


(1) Remove boarding ladders and handrails from rear of section.

(2) Remove handrails from ladders.



(3) Mount ladders at personnel doors and secure with locking pins.

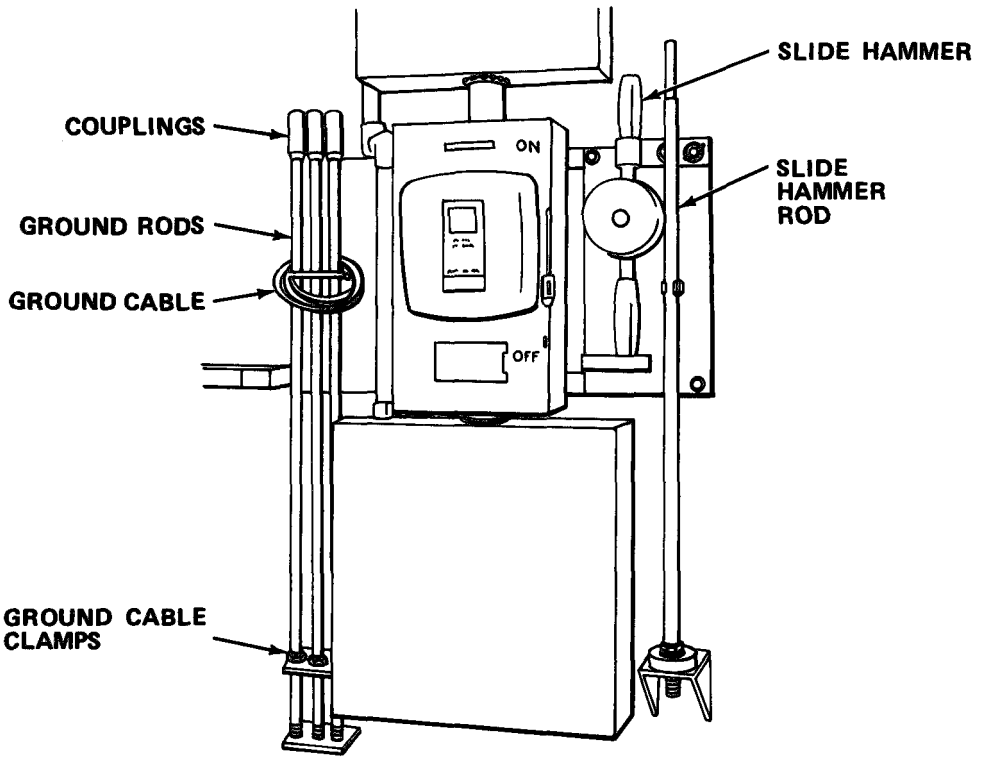


(4) Mount one handrail on each ladder.

(5) Enter section and be sure safety switch, main circuit breaker, and all equipment power supply switches are off.

WARNING

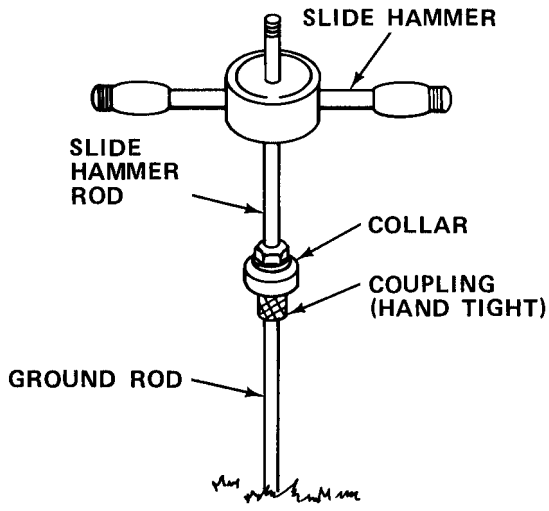
Death or serious injury may result from connecting power cable to section before grounding.



(6) Remove ground rod, slide hammer, and ground cable from section.

NOTE

- Apply a thin film of grease to threaded ends of rods before driving into ground. This will permit easy disassembly upon removal from ground.
- Bottom ground rod must be numbered or identified so that it will always be the first rod driven into the ground.
- These instructions supplement TC 11-6, Grounding Techniques.



(7) Select an area as close to power entry panel as possible to install ground rod. Then assemble the first ground rod and coupling to the slide hammer rod.

CAUTION

Do not allow ground rod to rotate when removing the slide hammer rod. Rods must be kept screwed together to make a good electrical ground.

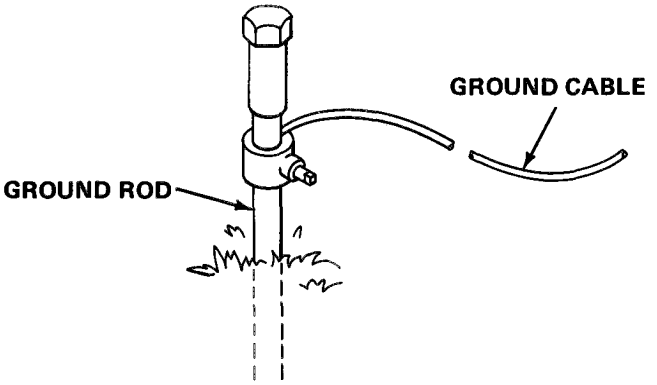
NOTE

Before driving ground rod, be certain that rods meet inside coupling. Be sure collar is handtight against coupling.

(8) Place slide hammer on hammer rod end and drive ground rod into ground. Remove slide hammer rod. Attach slide hammer rod to a new section of ground rod, and repeat procedure until only 12 in. (30.5 cm) of the third rod is above ground.

(9) Remove slide hammer and hammer rod and place in section.

(10) Secure ground cable clamp and ground cable to ground rod.

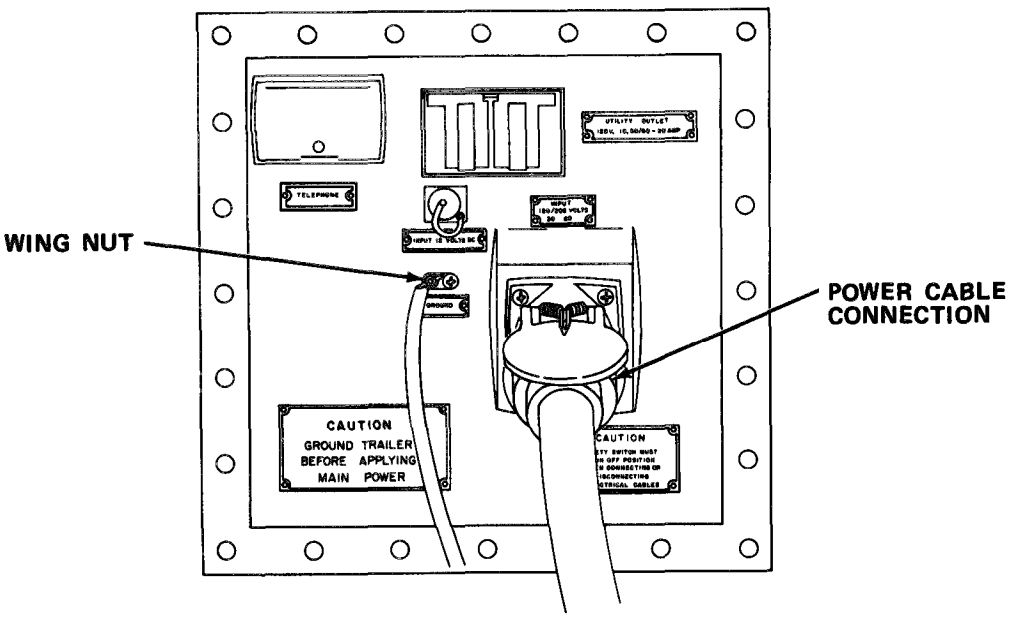


WARNING

To prevent death or serious injury, do not handle or clean power cable or connectors when cable is connected to power source.

NOTE

The section must be properly grounded before power is connected. If it is not possible to drive the three sections of ground rod fully into ground, the rods may each be driven into the ground separately and connected in series. If it is impossible to drive a ground rod, a suitable alternative ground must be found, such as a buried metal water pipe. See TC 11-6, Grounding Techniques for additional instructions.

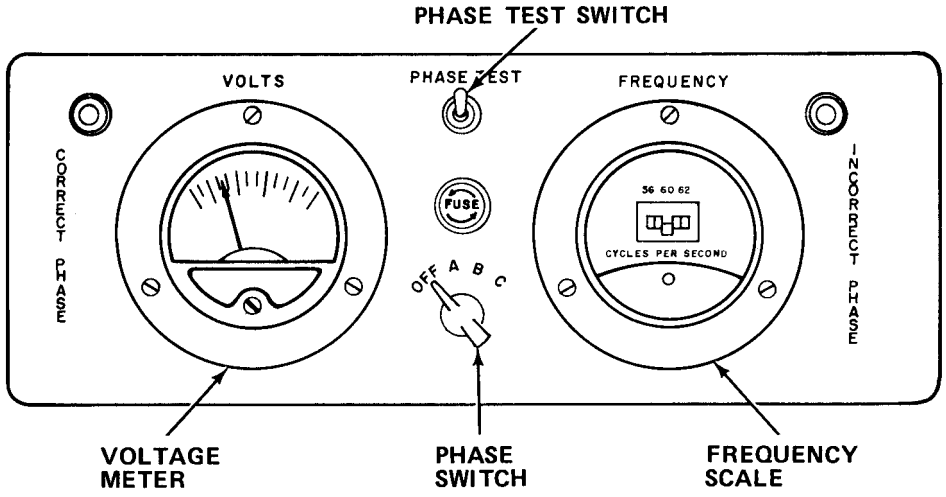


(11) Connect ground cable to ground lug with wing nut.

CAUTION

Be sure safety swi tch is off before connecting power cable to avoid equipment damage.

(12) Firmly connect the power cable to the power receptacle.



(13) Turn on safety switch.

CAUTION

Do not energize section if incorrect phase lamp lights. Damage to equipment may result.

(14) Check voltage and frequency as follows:

(a) Push phase test switch. Observe correct phase lamp lights.

(b) Turn phase switch to A.

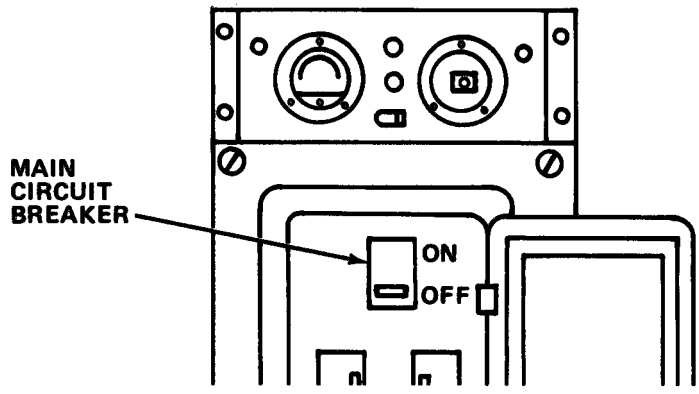
CAUTION

Voltage must be between 110 and 120 and frequency must be at 60 ±1 Hz on each leg before turning on main circuit breaker or damage to equipment may result.

(c) Read voltage on meter.

(d) Read frequency on scale.

(e) Repeat for positions B and C on phase switch.



(15) Set main circuit breaker ON.

NOTE

This step must be accomplished if section is placed in operation in darkness, fog, mist, or under blackout conditions.

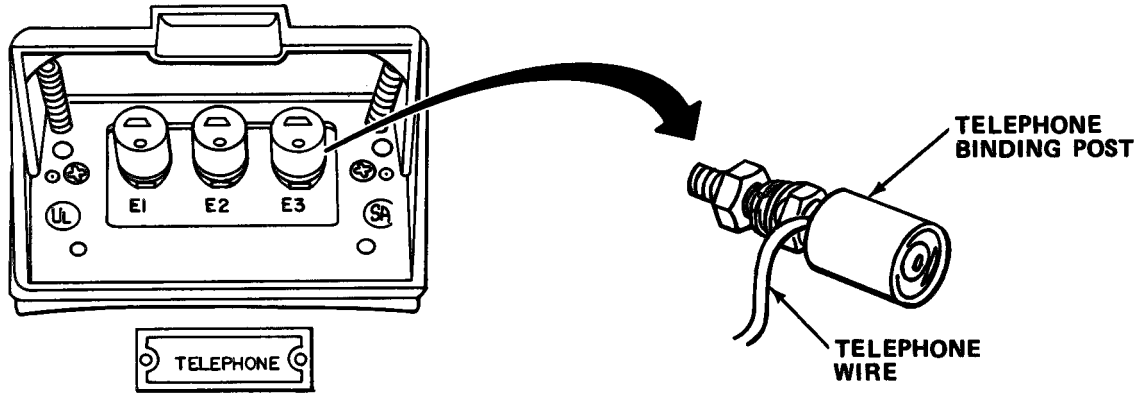
(16) Close blackout curtains, if required.

(17) Turn on circuit breakers in following order:

(a) Individual lighting.

(b) Curbside and roadside air conditioners/heaters.

(c) Curbside and roadside receptacles.



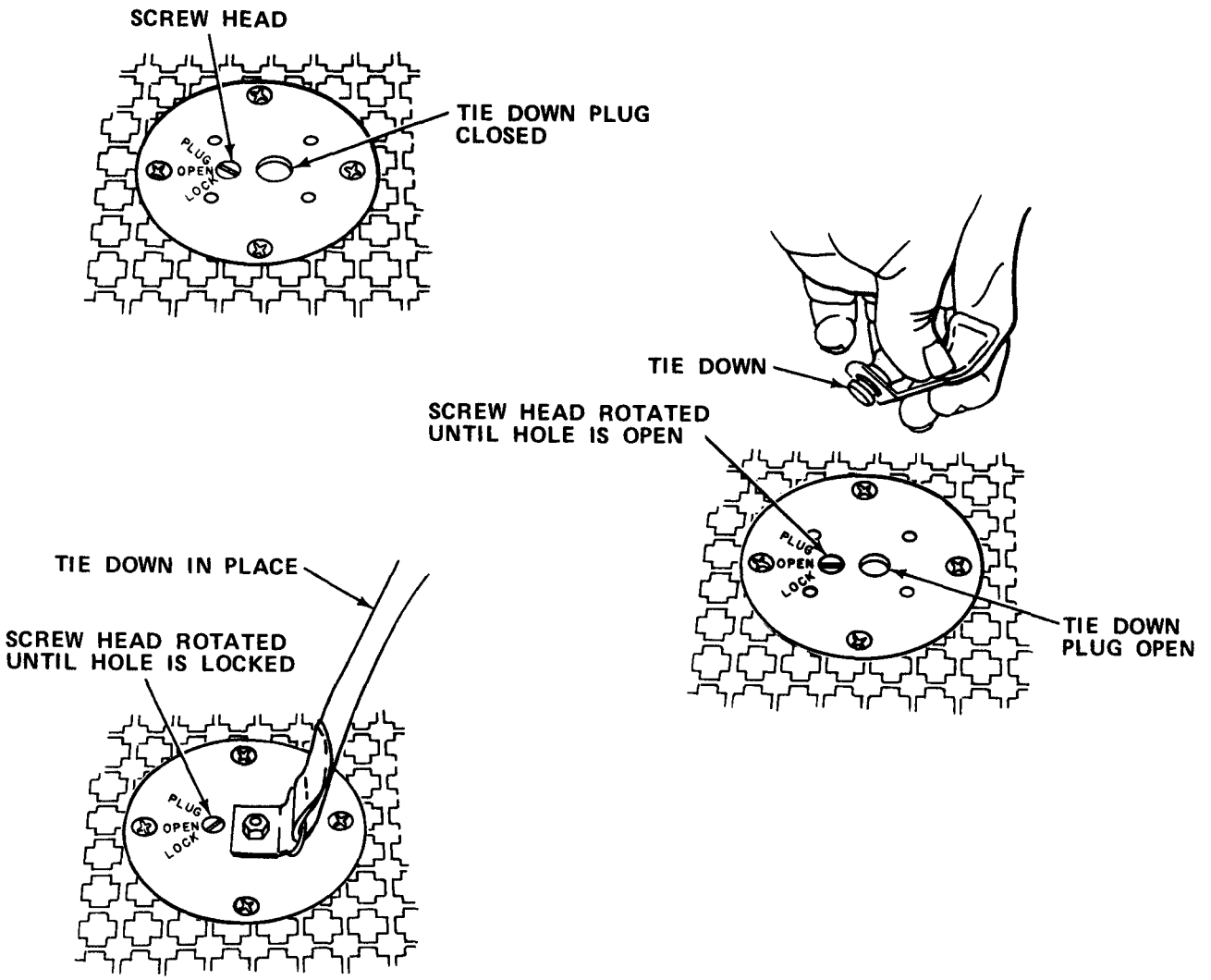
(18) Connect telephone lines to corresponding interior binding posts.

(19) Check blackout switches.

(20) Plug in emergency lighting and turn switch to READY.

1-6.2 Preparation for Movement.

a. Inventory equipment and supplies.



b. Install tiedowns in tiedown sockets.

c. Secure authorized equipment in proper containers or as specified by appropriate chapters.

d. Secure straps and remove slack from tiedowns.

WARNING

Death or serious injury may occur if power cable is disconnected while power is on.

e. Turn equipment switches OFF.

f. Turn main circuit breaker OFF.

g. Turn safety switch OFF.

h. Have power cable disconnected at power supply end. Then disconnect power cable from receptacle. Put cable in storage box on trailer chassis.

i. Turn emergency light switch OFF.

j. Disconnect telephone cables from power entry panel.

CAUTION

To prevent loss of rod or thread damage, do not allow ground rod to rotate and unscrew when removing the slide hammer rod.

k. Remove ground rod with slide hammer and put ground rods, couplings, and slide hamer inside section. Clean threads on each ground rod before storing.

NOTE

Be certain exhaust fan and air vent doors are securely closed.

l. Reinspect section interior for loose equipment and close all vents.

m. Close section. Secure and lock all personnel doors and cargo door.

NOTE

Be sure air conditioner/heater covers are down and secured.

n. Remove handrails from boarding ladders.

o. Remove boarding ladders and insert-handrails into back of ladders.

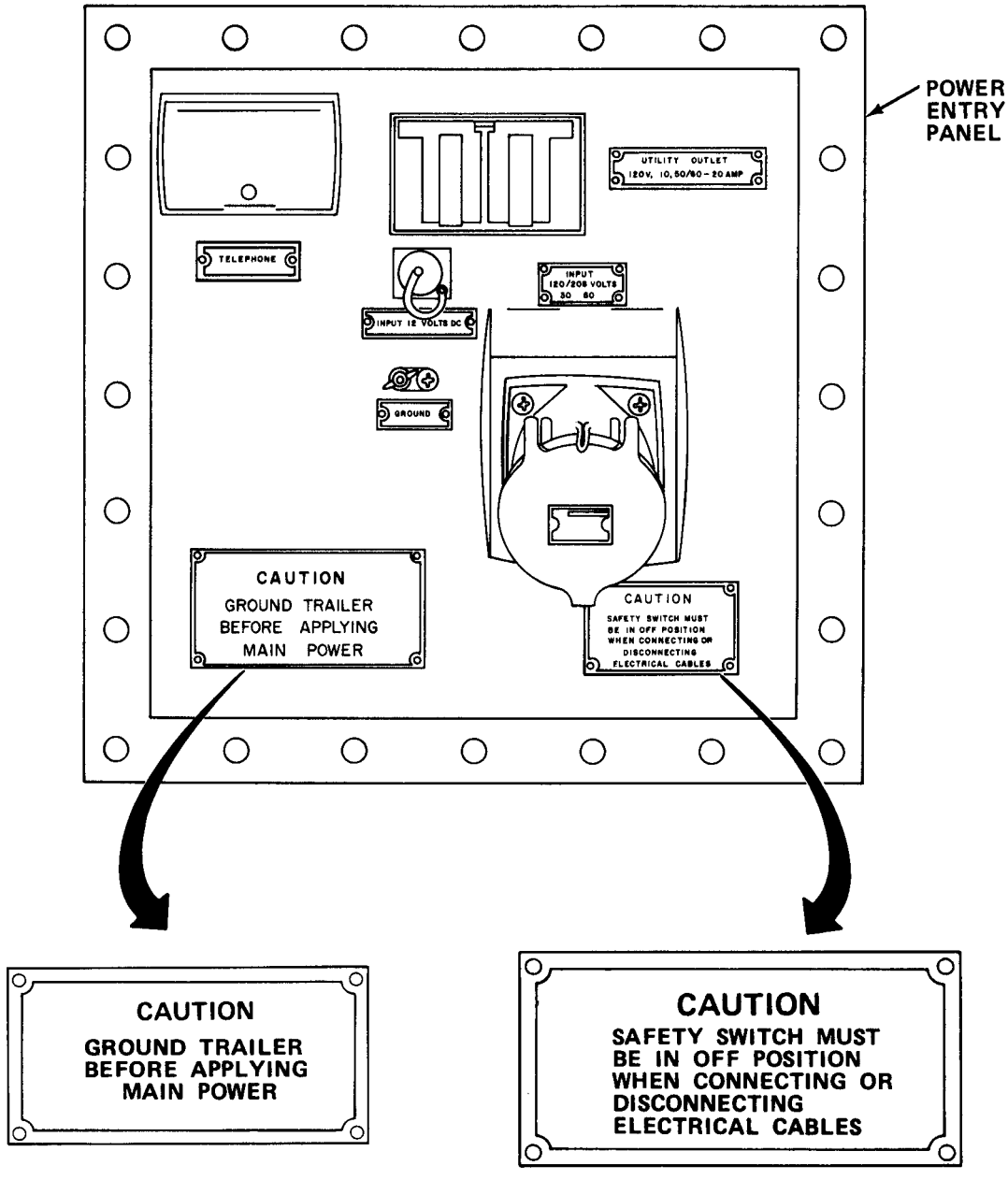
p. Secure ladders to back of section.

q. Fully extend landing gear.

r. Retract leveling jacks.

s. Visually inspect section exterior to be sure all equipment and covers are secured.

1-6.3 Operating Instructions on Decals and Instruction Plates.



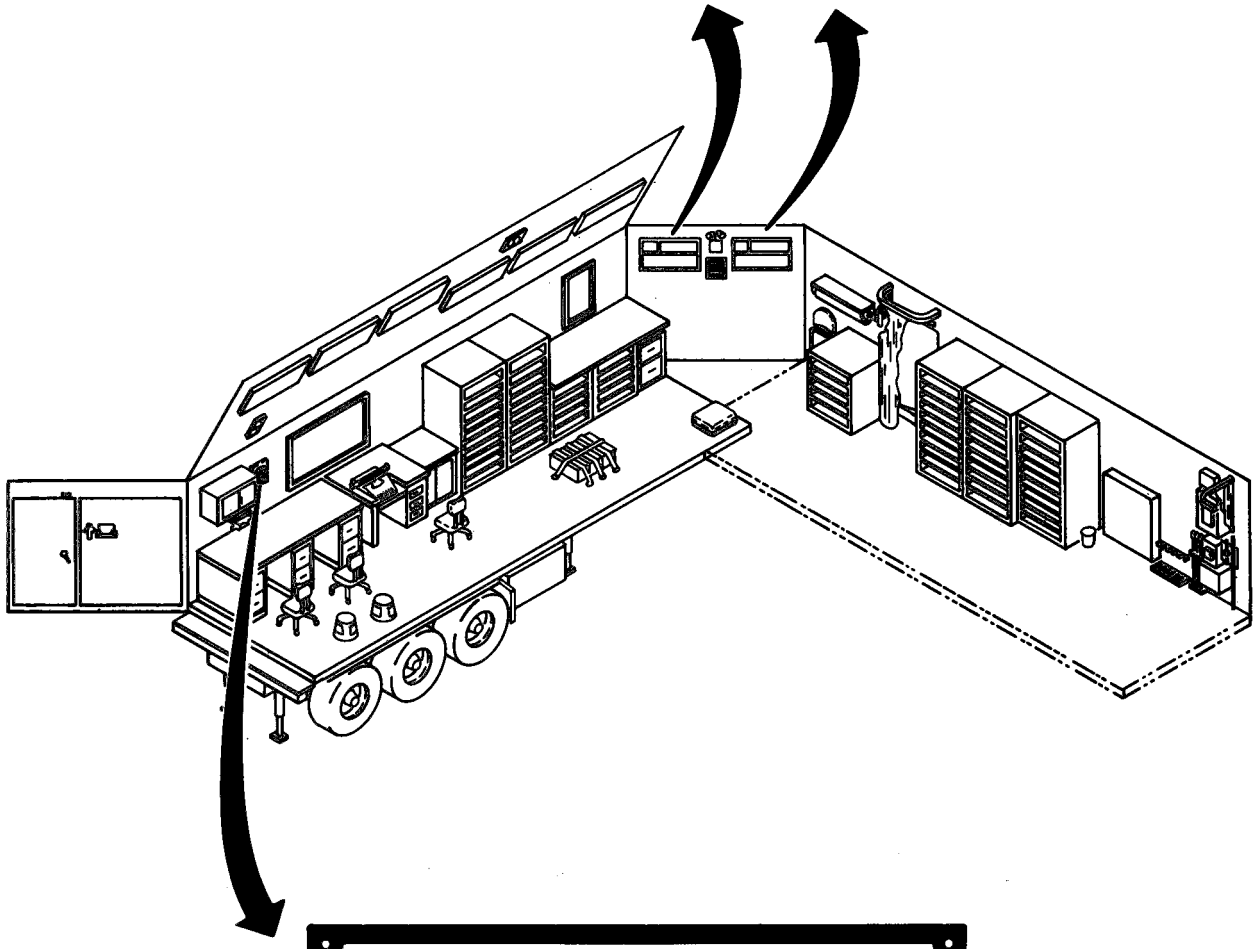
CAUTION
GROUND TRAILER BEFORE APPLYING MAIN POWER

CAUTION
SAFETY SWITCH MUST BE IN OFF POSITION WHEN CONNECTING OR DISCONNECTING ELECTRICAL CABLES

CAUTION

FOR SAFE OPERATION
SEE TM FOR PROPER
INTERNAL AND EXTERNAL
GROUNDING

CAUTION TO START UNIT ON "COOL"
MODE AT 0°F AMBIENT
JUMPER LACO SWITCH (S-5)



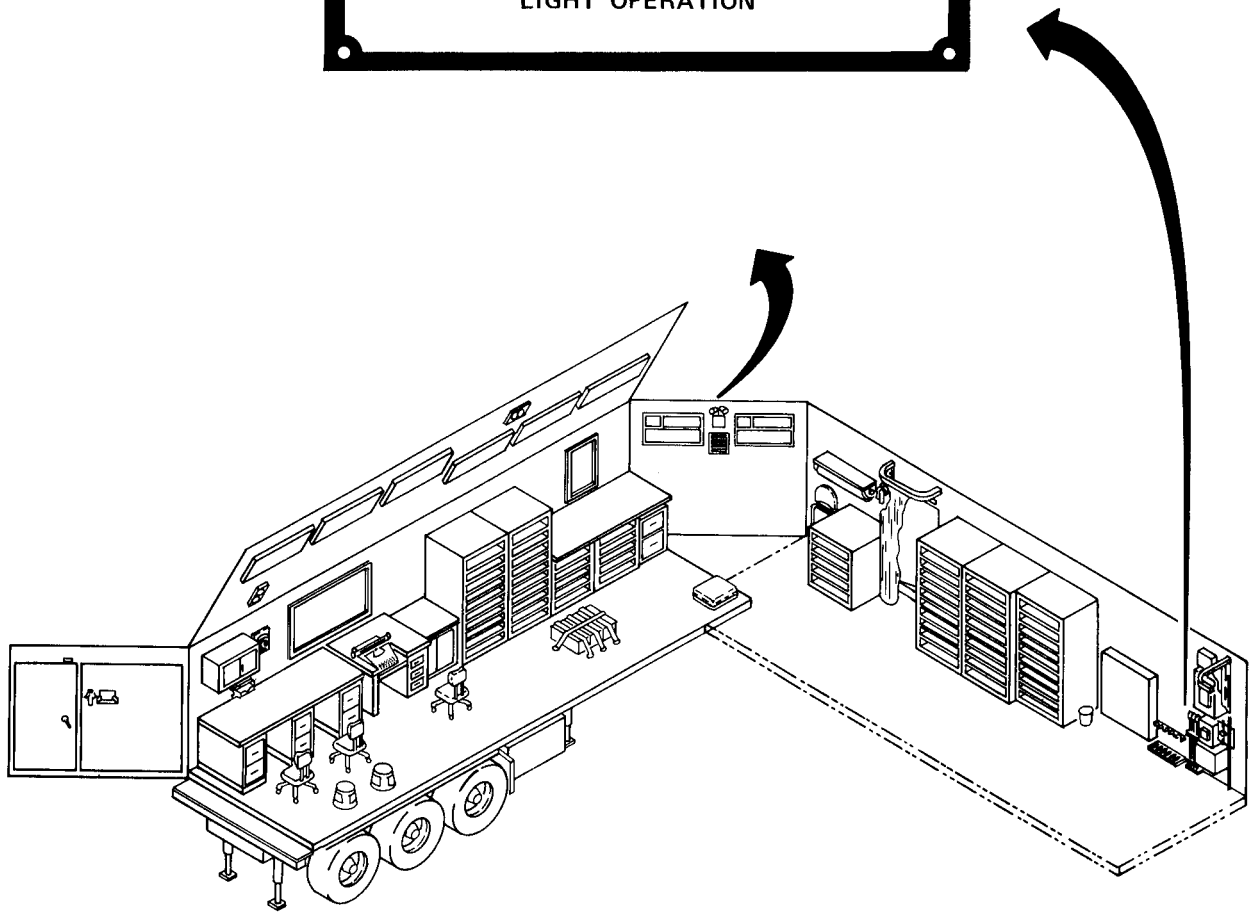
CAUTION

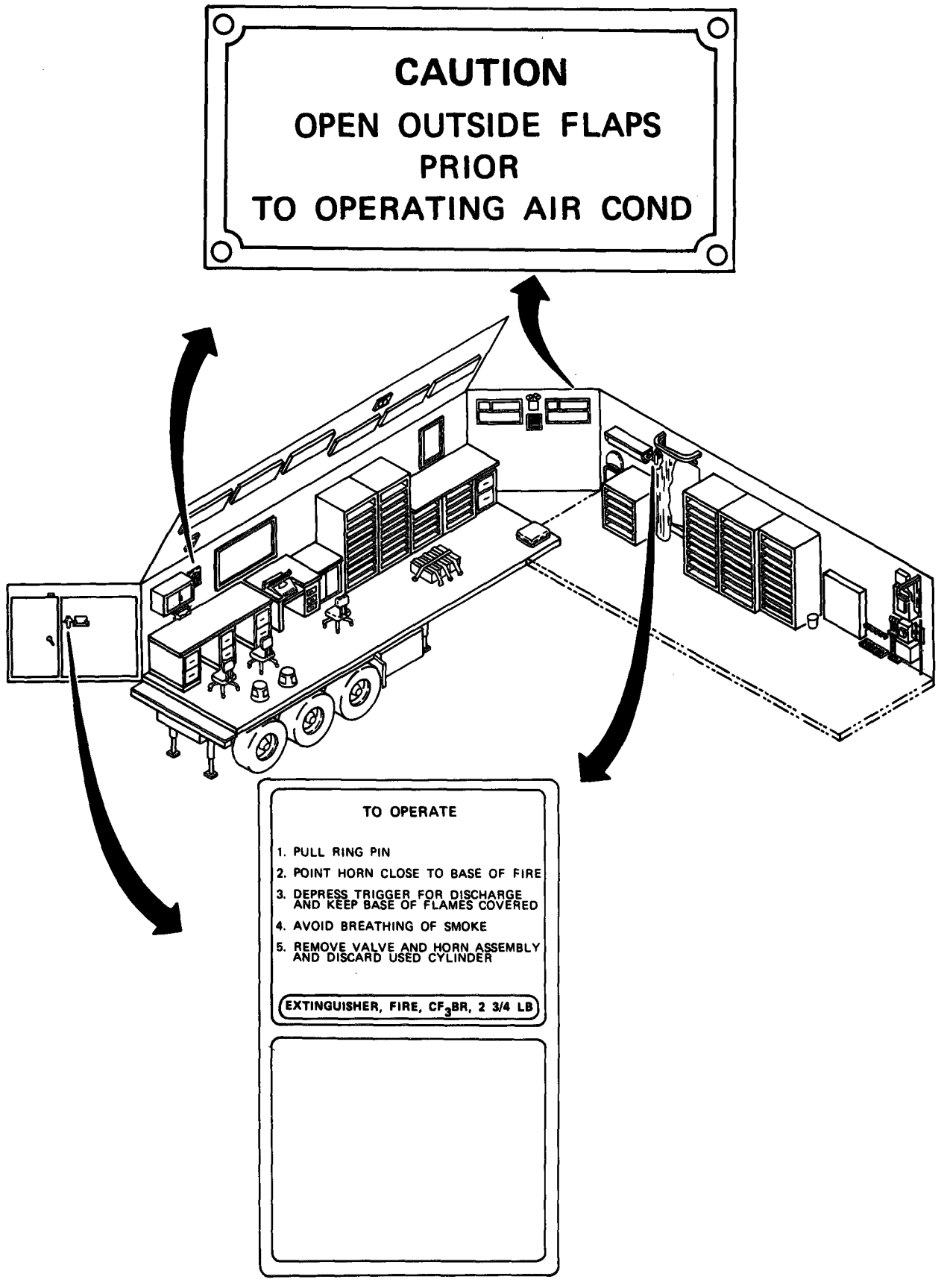
OPEN OUTSIDE VENT BEFORE
OPERATING FAN

CAUTION

EMERGENCY LIGHT SWITCH
MUST BE IN THE OFF POSITION
WHEN ELECTRICAL POWER
IS INTENTIONALLY DISCONNECTED

SWITCH MUST BE IN THE READY
POSITION FOR NORMAL EMERGENCY
LIGHT OPERATION




CAUTION
OPEN OUTSIDE FLAPS
PRIOR
TO OPERATING AIR COND
TO OPERATE
1. PULL RING PIN
2. POINT HORN CLOSE TO BASE OF FIRE
3. DEPRESS TRIGGER FOR DISCHARGE AND KEEP BASE OF FLAMES COVERED
4. AVOID BREATHING OF SMOKE
5. REMOVE VALVE AND HORN ASSEMBLY AND DISCARD USED CYLINDER
EXTINGUISHER, FIRE, CF_3BR, 2 3/4 LB

1-7. OPERATION UNDER UNUSUAL CONDITIONS.

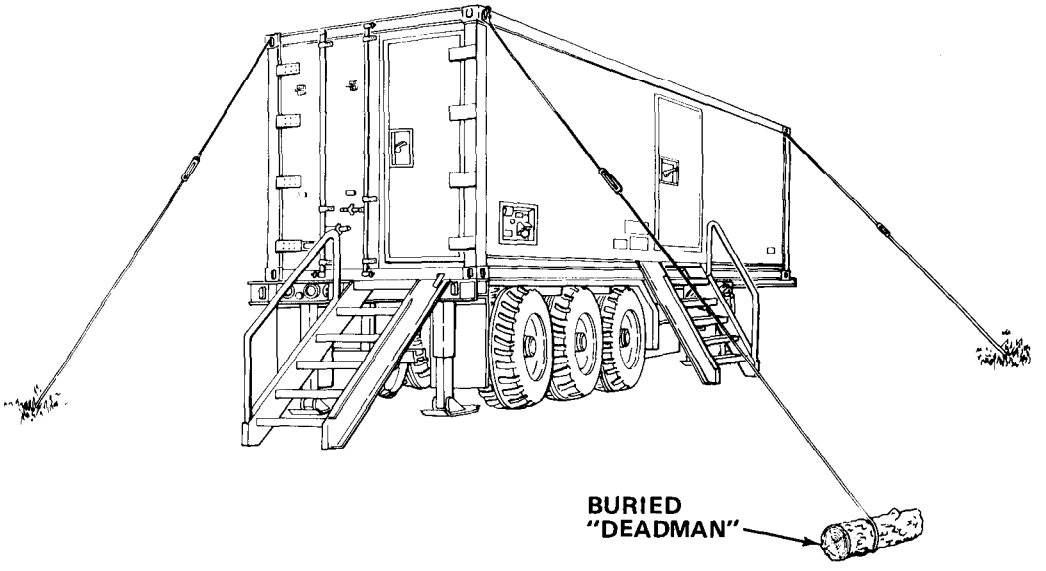
NOTE

Damage to container permitting light leaks, water, or dirt entry must be temporarily repaired using available material on hand. Maintenance personnel will conduct permanent repairs; however, crew must maintain operational capability of section.

1-7.1 Operation in High Wind or Storm Conditions.

a. Relocate section if trees or structures present hazard.

SUGGESTED METHOD OF ANCHORING THE SECTION IN HIGH WINDS



b. Secure section corners at lifting eyes to deadmen or substantial objects.

c. Remove all loose objects from area.

1-7.2 Operation in Cold Weather.

The operation of the internal equipment is performed within environmentally controlled conditions; however, in extreme cold, the main power supply cable and ground cable, will become hard, brittle, and difficult to handle. Be careful handling the cables when connecting or disconnecting them so that kinks and unnecessary loops will not result in permanent damage.

b. Make certain that connections and cable receptacles on the outside of the section are free of frost, snow, and ice.

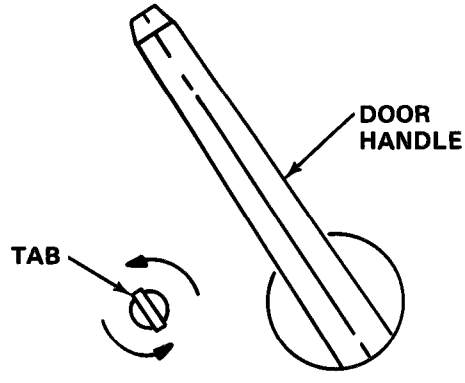
c. When section heaters are not operating or when the section is being transported, liquid consumable supplies may freeze, break their containers, then melt, and ruin equipment or documents. Store these items in area to prevent equipment or document damage.

1-7.3 Operation in Extreme Heat. The operation of the internal equipment is performed within environmentally controlled conditions; however, during transportation or when air-conditioning units are not operating, consumable supplies may suffer reduced shelf life, and internal components may have accelerated deterioration of gaskets, seals, or insulation.

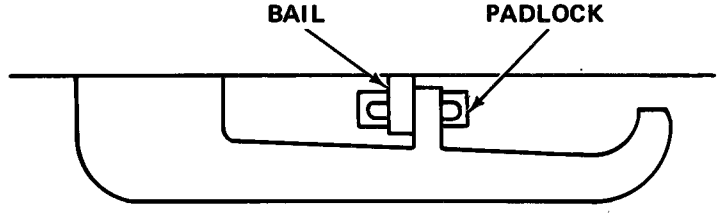
1-7.4 Operation in Tropical Conditions. Fungi, mildew, or mold will form on and in equipment, documents, and supplies if internal environmental control equipment is not operating and outside heat and humidity are allowed to enter the section.

1-7.5 Operation in Desert Conditions. Dust, grit, and sand will ruin supplies, equipment, and documents. Extreme care must be taken to prevent dust, grit, and sand from entering into the section. Air filters will be changed whenever airflow is restricted and cleaning of section interior must be conducted more frequently than specified by PMCS schedules.

1-7.6 Emergencv Procedures. There are no specific emergency procedures for operation of the section.



INSIDE FRONT VIEW



OUTSIDE TOP VIEW

1-7.7 Emergencv Means of Exit. In the event personnel are locked in the section, the tab may be turned to the left until the bail on the padlock falls free. The door handle is now free to turn.

Section III OPERATOR MAINTENANCE

1-8. LUBRICATION INSTRUCTIONS.

a. Lubrication instructions for the Storage and Distribution Section are contained in LO 5-6675-314-12, Lubrication Order, Storage and Distribution Section, Topographic Support System. The intervals and manhours specified in the Lubrication Order are based on normal operations. During inactive periods, lubrication periods may be extended with adequate preservation.

b. Topographic equipment and all optical equipment require special care in lubrication. When a specified lubricant is called for, substitutions are not authorized. Minimum amounts of lubricant are to be used and all excess lubricant is to be immediately removed. Spray lubricants must not be used in the vicinity of optical equipment unless optics are completely Protected. No lubricant is to be applied unless a thorough cleaning is conducted" first to remove dirt, dust, or abrasive material.

c. Be sure that you refer to the appropriate chapter before any equipment is stored after use. that the temperature has stabilized. and that required lubrication after use is accomplished.

1-9. TROUBLESHOOTING PROCEDURES.

a. The table lists the common malfunctions which you may find during operation or maintenance of the Storage and Distribution Section, or its components. You should perform the test/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all test or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

Table 1-2. TROUBLESHOOTING

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. NO ELECTRICAL POWER TO SECTION.

WARNING

Death or serious injury may result. Do not perform any electrical maintenance or make electrical connections or disconnections at main power receptacle when power cable is energized.

Step 1. Observe voltage and-frequency for phases A, B, and C. Read 115 ± 5V, 60 ± 1Hz.

(a) If voltage and frequency are correct, proceed to step 2.

(b) If voltage and frequency are incorrect, notify power supply supervisor.

CAUTION

Do not energize section if voltage or frequency is not correct. Damage to equipment may result.

Step 2. Press phase test switch on power panel for A, B, and C.

(a) If phases A, B, and C are correct, proceed to step 3.

(b) If incorrect phase 1 amp lights, notify power supply supervisor.

CAUTION

Do not energize section if incorrect phase lamp lights. Damage to equipment may result.

Step 3. Check safety switch position.

(a) If safety switch is ON, proceed to step 4.

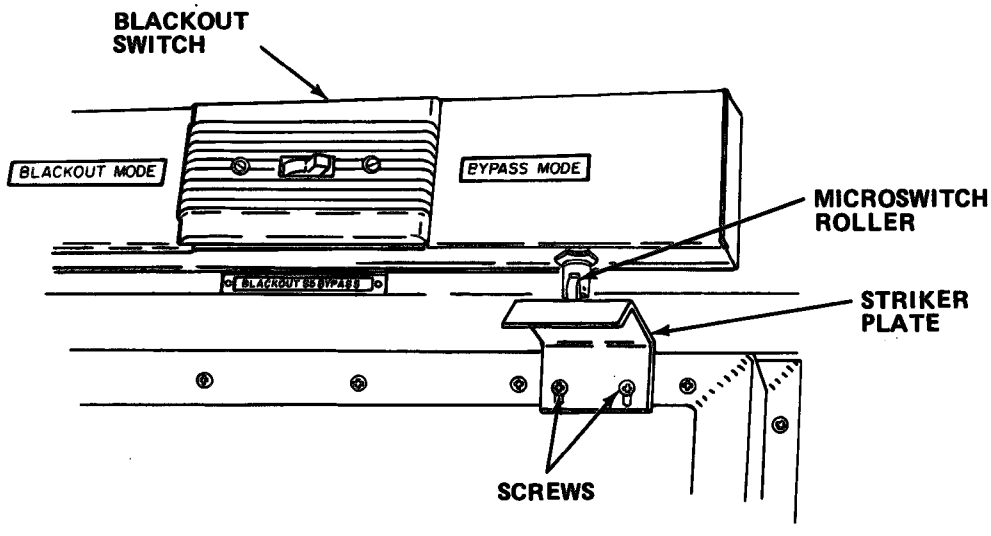
(b) If safety switch is OFF, turn ON.

Table 1-2. TROUBLESHOOTING - Cont

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	
1. NO ELECTRICAL POWER TO SECTION - Cont	
Step 4. Check main circuit breaker position.	
(a) If circuit breaker is ON, refer to direct/general support maintenance.	
(b) If circuit breaker is OFF, turn ON.	
(c) If circuit breaker trips repeatedly, notify power supply supervisor.	
2. NO ELECTRICAL POWER TO EQUIPMENT.	
Step 1. Check equipment power switch.	
(a) If power switch is ON, proceed to step 2.	
(b) If power switch is OFF, turn ON.	
Step 2. Check power cord.	
(a) If power cord is plugged in, proceed to step 3.	
(b) If power cord is unplugged, plug in.	
Step 3. Inspect circuit breaker panel for breakers in OFF position.	
(a) If all circuit breakers are ON, refer to direct/general support maintenance.	
(b) If any circuit breakers are OFF, turn ON.	

Table 1-2. TROUBLESHOOTING - Cont

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
3. BLACKOUT SWITCH DOES NOT OPERATE .		



Step 1. Check blackout switch position.

(a) If switch is ON, proceed to step 2.

(b) If switch is OFF, reset switch to BLACKOUT.

Step 2. Check to see that striker plate contacts roller on microswitch.

(a) Loosen screws and move plate up or down until microswitch operates.

(b) If blackout switch still fai1s to operate, refer to organizational maintenance.

1-10. MAINTENANCE PROCEDURES.

a. This section contains instructions covering operator maintenance functions for the Storage and Distribution Section. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

INDEX

1-10.1 Replace Fluorescent Lamp.

MOS: 81C, Cartographer

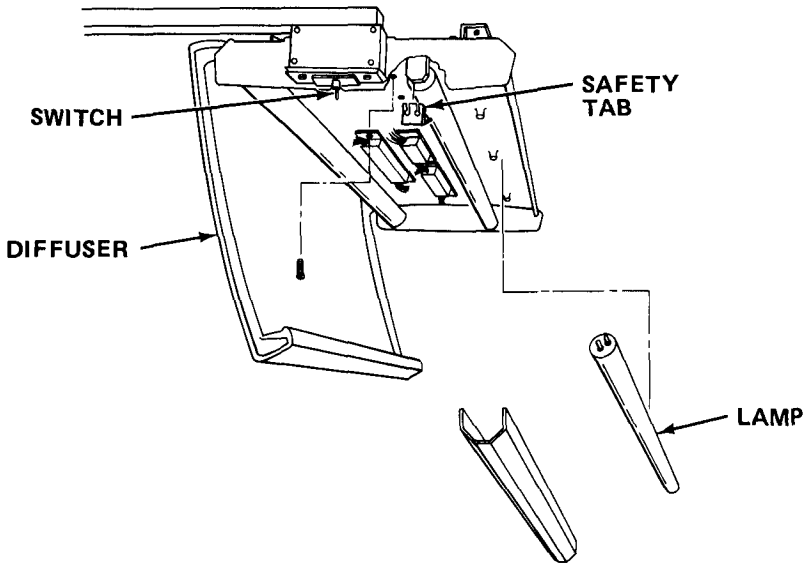
TOOLS: None

SUPPLIES: Fluorescent Lamp

WARNING

Death or serious injury may result if power is left on while servicing lamp.

a. Turn switch OFF.



b. Gently pull diffuser from light bracket and place diffuser out of the way to prevent damage.

c. Remove safety tab from lamp socket.

d. Rotate defective lamp until prongs are free from slot and remove.

e. Insert new lamp prongs into slot and rotate 90 degrees.

f. Reinstall safety tab into lamp socket.

g. Reinstall diffuser.

h. Turn power ON.

1-10.2 Service Ventilation Ducts.

MOS: 81C, Cartographer

TOOLS: Vacuum Cleaner
Flat Tip Screwdriver

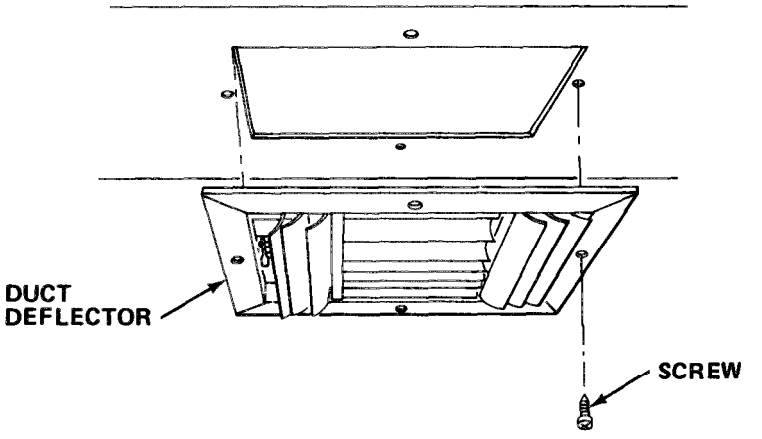
SUPPLIES: None

a. Cover equipment to prevent dust from entering equipment.

b. Close all doors and cabinets.

c. Remove any documents or other work that may be damaged by dirt/dust.

d. Turn off air conditioner/heater.



e. Remove four screws from each ventilation duct deflector.

f. Remove all duct deflectors.

g. Vacuum dirt or dust from deflector louvers.

h. Insert vacuum cleaner probe into ventilation duct at each deflector hole and vacuum as far as probe will reach.

i. Reinstall deflectors and secure with four screws.

j. Turn on air conditioner/heater.

k. Vacuum any dislodged dirt or dust from interior of section.

l. Remove covers for operation.

1-10.3 Replacement Blackout/Dome Light.

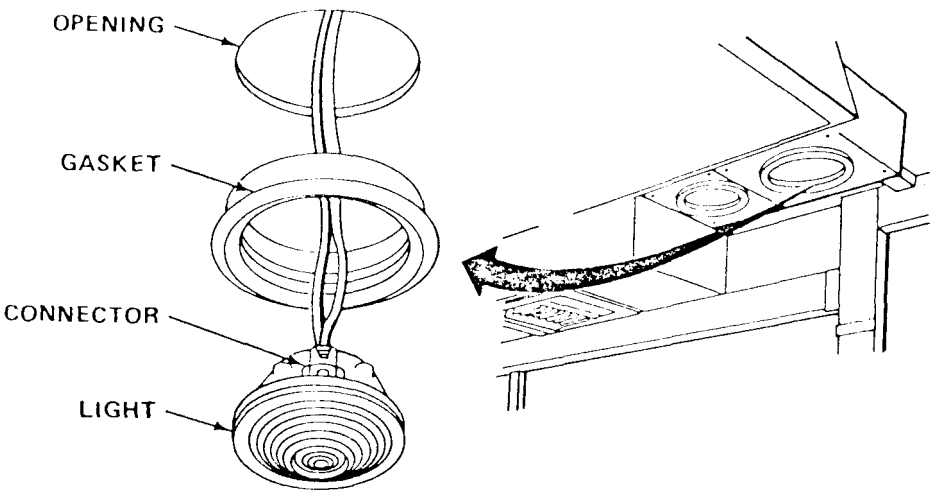
MOS: 81C, Cartographer

TOOLS: None

SUPPLIES: Lamp (12 V)
Silicone Spray (Item 41, Appendix E)

NOTE

Blackout light and dome light are sealed units. No bulb replacement is possible. Complete light must be replaced.



a. Push light and gasket up into opening.

b. Tilt and remove light and gasket from opening.

c. Disconnect defective light from connector.

d. Connect new light to connector.

e. Reinstall gasket in opening.

NOTE

The use of silicone spray on the gasket will help to position light.

f. Position light in gasket and push in.

Section IV ORGANIZATIONAL MAINTENANCE

1-11. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

1-12. REPAIR PARTS, SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT; AND SUPPORT EQUIPMENT.

1-12.1 Common Tools and Equipment. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

1-12.2 Special Tools: Test, Measurement, and Diagnostic Equipment: and Support Equipment. Special Tools, TMDE, and Support Equipment is listed in the applicable repair parts and special tools list and in Appendix B of this manual.

1-12.3 Repair Parts. Repair parts for this equipment are listed in the Repair Parts and Special Tools List, TM 5-6675-314-24P covering organizational maintenance for this equipment.

1-13. SERVICE UPON RECEIPT.

NOTE

The section may be received mounted on a chassis, or as a van body for mounting on an available transporter, or on site. Inspection of the chassis is covered in TM 5-2330-305-14. Inspection of the air conditioner/heater is covered in TM 5-4120-367-14.

1-13.1 Checking Unpacked Equipment.

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

(1) Visually inspect the section exterior startinq at the rear to cover rear, curbside, roadside, front, top, and bottom. Inspect for damage, tears, breaks, or corrosion.

(2) Enter section and inspect for broken equipment, tool boxes, chairs, or equipment loose and not secured.

(3) Close doors and vents to determine if light leaks exist.

(4) Inspect doors for damage, torn or rotted seals, and tightness of closure.

(5) Inspect interior for evidence of water damage, fungi, mildew, or corrosion.

(6) Report damage or discrepancies in accordance with AR 735-11 and AR 735-11-2.

b. Check the equipment against the packing list to see if shipment is complete.

Report all discrepancies in accordance with the instructions of DA Pam 738-750.

(1) Inventorv sections against Components of End Item and Basic Issue Items Lists (Appendix C).

(2) Inventory expendable supplies contained in section as shown in Appendix E.

(3) Conduct operational checks on equipment in accordance with the chapters in this manual when operators are available and power can be safely provided to the section.

c. Check to see whether the equipment has been modified.

1-14. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

PMCS are designed to keep the equipment in good working condition by performing certain tests, inspections, and services. The intervals provide you, the organizational technician, with time schedules that determine when to perform specified tasks.

b. Item number column. Item numbers are assigned in chronological ascending sequence regardless of interval designation. These numbers are used for your “TM Number” column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording the results of PMCS.

c. Interval columns. This column determines the time period desiccated to perform your PMCS.

d. Item to be inspected and procedures column. This column lists functional groups and their respective assemblies and subassemblies as shown in the Maintenance Allocation Chart (Appendix B). The appropriate check or service procedure follows the specific item to be inspected.

Preventive maintenance checks and services for the air conditioners/heaters are contained in TM 5-4120-367-14.

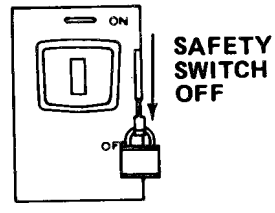
f. List of tools and materials required for PMCS is as follows:

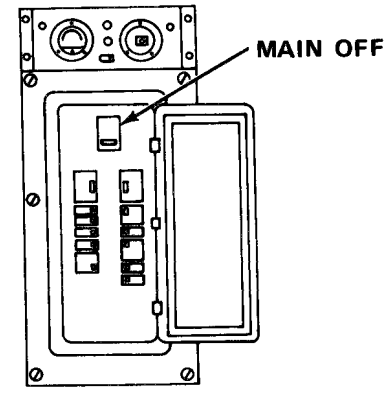
Item	Quantity
Vacuum Cleaner	1 ea
8 in. Adjustable Wrench	1 ea
Cross Tip Screwdriver	1 ea
Flat Tip Screwdriver	1 ea
Spring Scale	1 ea
Padlock	1 ea
Flashlight	1 ea

Table 1-3. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES

B - Before, D - During, A - After | W - Weekly, M - Monthly, Q - Quarterly | AN - Annually, S - Semiannually, BI - Biennially | (Number) - Hundreds of Hours

ITEM NO.	INTERVAL	ITEM TO BE INSPECTED / PROCEDURE
		VAN BODY
1	M	Service Air Conditioner/Heater. Refer to TM 5-4120-367-14 for preventive maintenance checks and services.
2	M	Service Lighting System.





WARNING

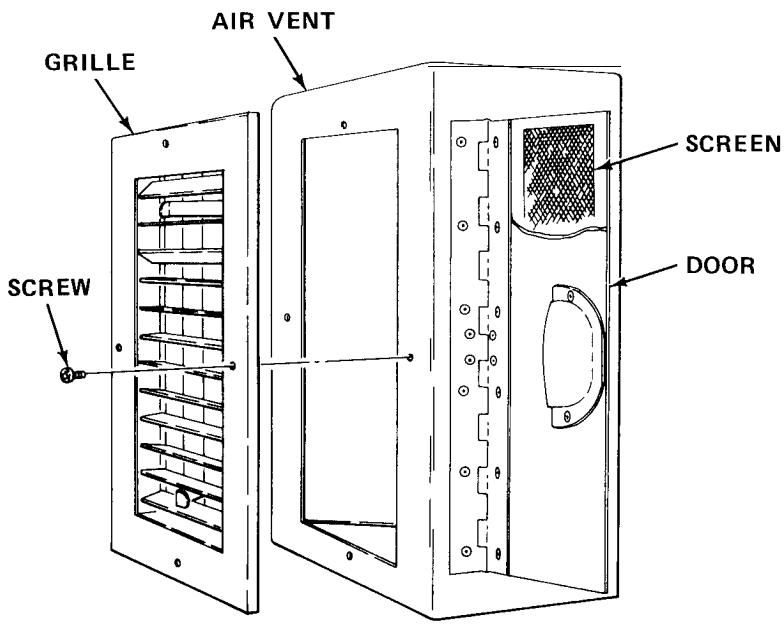
Do not open or service electrical connections, cables, or switches until main power is off, and voltage meter confirms circuit is not energized. Death may result from failure to observe these safety precautions.

1. Turn off main circuit breaker. Turn off safety switch.
2. Padlock safety switch.
3. Tighten all loose screws, bolts, and clamps.
4. Check which switches, switch plate outlets, receptacles, and posts require repair.

Table 1-3. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before D - During A - After	W - Weekly M - Monthly Q - Quarterly	AN - Annually S - Semiannually BI - Biennially	(Number) - Hundreds of Hours

ITEM NO.	IN-TER-VA L	ITEM TO BE INSPECTED PROCEDURE
		VAN BODY - Cont
2	M	Service Lighting System - Cont
		5. Check for loose screws and nuts on ceiling, console lights, circuit breaker panels, and conduits.
		6. Remove padlock.
		7. Turn on main circuit breaker and safety switch.
3	M	Service Air Vent

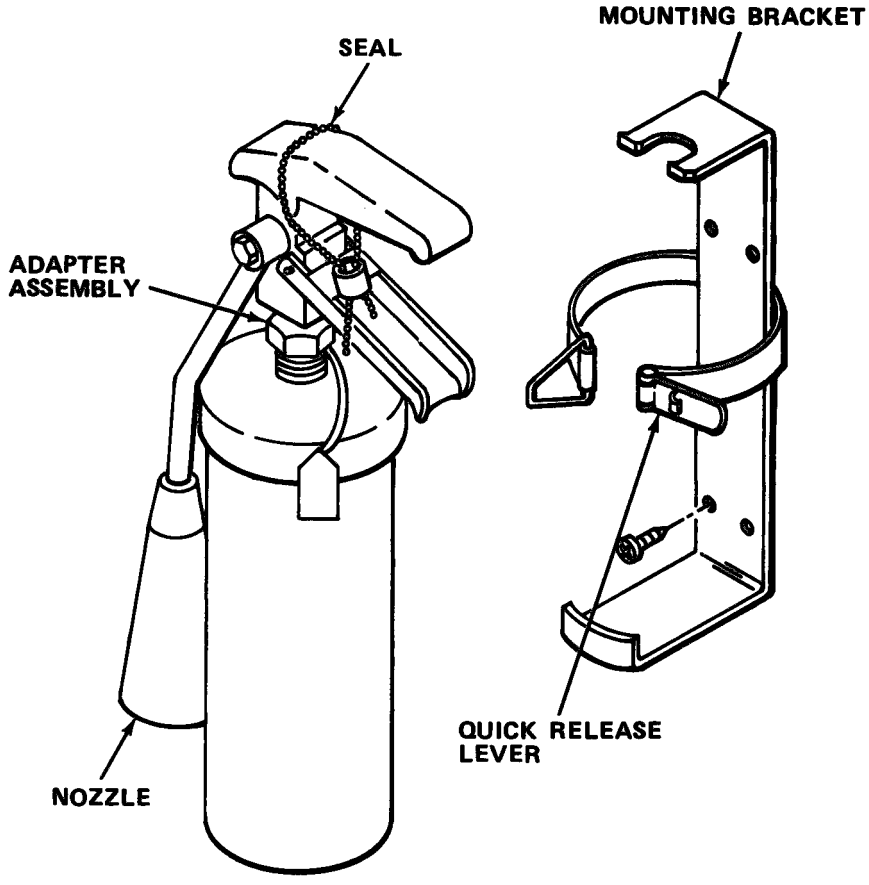


1. Remove screws from front of grille.
2. Remove front grille.
3. Using vacuum cleaner, clean screens on side doors. Vacuum inside of air vent.
4. Reinstall grille and secure with screws.

Table 1-3. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before	W - Weakly	AN - Annually	(Number) - Hundreds of Hours
D - During	M . Monthly	S - Semiannually	
A - After	Q - Quarterly	Bl - Biennially	

ITEM NO.	IN-TER-VAI	ITEM TO BE INSPECTED PROCEDURE
		VAN BODY - Cont
4	M	Inspect Fire Extinguisher.



1. Remove from mounting bracket.
of bracket.

2. Inspect nozzle and adapter assembly for damage.

3. Inspect seal. Be sure it is not broken.

S 4. Weigh cylinder. Replace if gross weight has decreased by 6 oz (170 g) or more.

1-15. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES.

a. Organizational troubleshooting procedures cover the most common malfunctions that may be repaired at the organizational level. Repair or adjustment requiring specialized equipment is not authorized unless such equipment is available. Troubleshooting procedures used by the operator should be conducted in addition to the organizational troubleshooting procedures.

b. This manual cannot list all the possible malfunctions or every possible test/ inspection and corrective action. If a malfunction is not listed or corrected by a listed corrective action, notify your supervisor.

c. For unidentified malfunctions, use the facing schematic or the foldout located at the end of this manual for further fault analysis.

d. If any component of the Storage and Distribution Section does not power up when turned on, verify that 120 V ac is present at the receptacle. If voltage is not present, plug equipment into receptacle with power available and proceed with equipment troubleshooting. Perform no-power troubleshooting procedures for dead receptacle (Table 1-4).

Table 1-4. ORGANIZATIONAL TROUBLESHOOTING

MALFUNCTION TEST OR INSPECTION	CORRECTIVE ACTION

WARNING

Electrical shock hazard. Be sure power is off when checking continuity at troubleshooting points. Death or serious injury could result from failure to do so.

1. FLUORESCENT CEILING LAMP IS INOPERATIVE.

Step 1. Check for continuity of fluorescent lamp switch.

(a) If continuity exists, proceed to step 2.

(b) If continuity does not exist, repl ace switch (paragraph 1-16.3).

Table 1-4. ORGANIZATIONAL TROUBLESHOOTING - Cont

MALFUNCTION TEST OR INSPECTION	CORRECTIVE ACTION
1. FLUORESCENT CEILING LAMP IS INOPERATIVE - Cont	
Step 2. Check for continuity of lamp ballast.	(a) If continuity exists, proceed to step 3. (b) If continuity does not exist, replace 1 amp ballast (paragraph 1-16.1).
Step 3. Check for shorts in RF Filter.	Replace RF filter (paragraph 1-16.2).
2. EXHAUST FAN IS INOPERATIVE.	
Check ON/OFF switch for continuity.	(a) If continuity exists, replace fan (paragraph 1-16.9). (b) If continuity does not exist, replace switch (paragraph 1-16.4).
3. EMERGENCY LIGHTS ARE INOPERATIVE.	
Press in test indicator.	If lamps do not light, replace emergency light assembly (paragraph 1-16.11).
4. NO POWER TO EQUIPMENT.	
Step 1. Check circuit breaker ON/OFF position.	(a) If circuit breaker is ON, proceed to step 2. (b) If circuit breaker is OFF, turn ON. (c) If circuit breaker trips repeatedly, notify power supply supervisor.

Table 1-4. ORGANIZATIONAL TROUBLESHOOTING - Cont

MALFUNCTION / TEST OR INSPECTION	CORRECTIVE ACTION
4. NO POWER TO EQUIPMENT - Cont	
Step 2. Check circuit breaker input for 120 V ac.	(a) If input voltage is present, proceed to step 3. (b) If input voltage is not present, refer to direct/general support maintenance for repair or replacement of defective wiring.
Step 3. Check circuit breaker output for 120 V ac.	(a) If output voltage is present, proceed to step 4. (b) If output voltage is not present, refer to direct/general support maintenance for circuit breaker replacement (paragraph 1-20.5).
Step 4. Remove receptacle and check for 120 V ac input.	(a) If present, replace receptacle (paragraph 1-16.6). (b) If not present, refer to direct/general support maintenance for repair or replacement of defective wiring.

1-16. MAINTENANCE PROCEDURES.

a. This section contains instructions covering organizational maintenance functions for the Storage and Distribution Section. Personnel required are listed only if the task. requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

INDEX

1-16.1 Replacement Fluorescent Lamp Ballast.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
1/4 in. Wrench
1/4 in. Drive Socket Set
Scribe

SUPPLIES: Lamp Ballast
Wire Ties

WARNING

Death or serious injury may occur unless overhead light circuit breaker and main circuit breaker are turned off before working on light fixture.

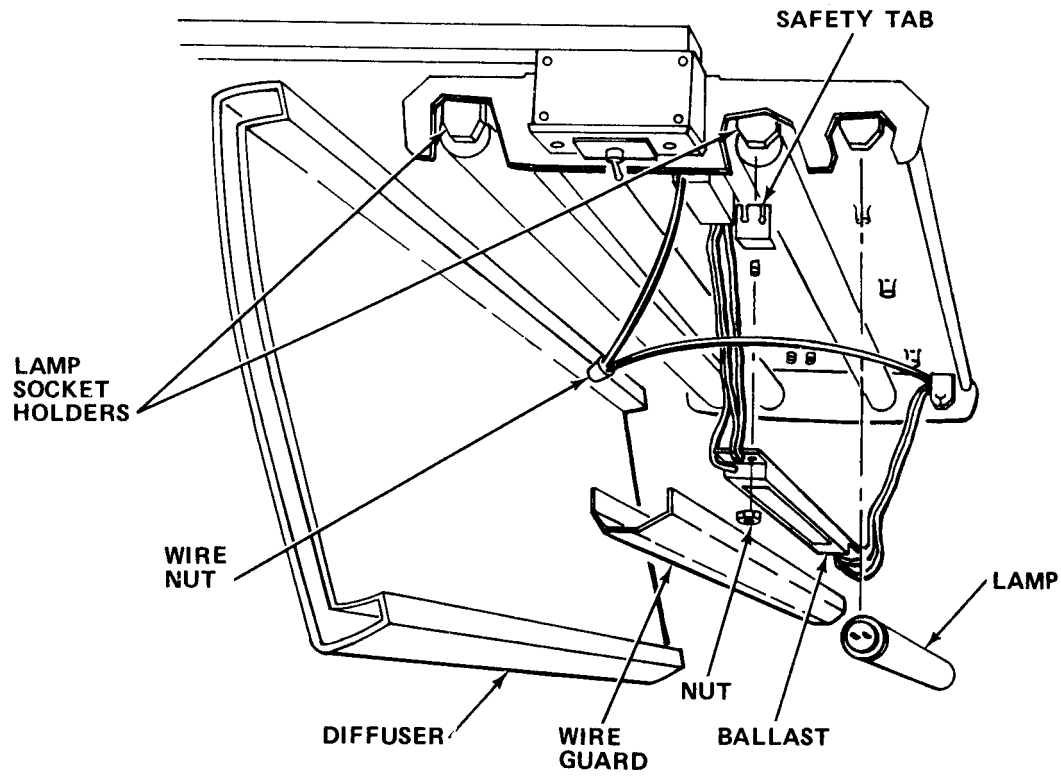
a. Turn off overhead light circuit breaker and main circuit breaker.

b. Remove diffuser from light fixture.

c. Remove safety tabs and lamps. Place in diffuser.

d. Squeeze light wiring guard and remove.

e. Remove wire ties as required.



f. Tag wires from ballast for reference.

g. Disconnect ballast wire from wire nut connection.

h. Pry out lamp socket holder with flat tip screwdriver.

i. Using scribe, depress wire clips and disconnect ballast wiring.

j. Remove nut and defective ballast.

k. Install new ballast and connect wires to corresponding lamp socket holders.

l. Secure with nut.

m. Reconnect ballast wire to wire nut connection.

n. Remove tags.

o. Install new wire ties.

NOTE

Be sure wires are free of kinks and do not interfere with placement of wire guard.

p. Reinstall wire guard.

q. Reinstall lamp and safety tabs.

r. Reinstall diffuser.

s. Turn on overhead light circuit breaker and main circuit breaker.

1-16.2 Replacement Radio Frequencv (RF) Filter.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
1/4 in. Wrench
1/4 in. Drive Socket Set

SUPPLIES: RF Filter
Wire Ties

WARNING

Death or serious injury may occur unless overhead light switch is turned OFF before working on light fixture.

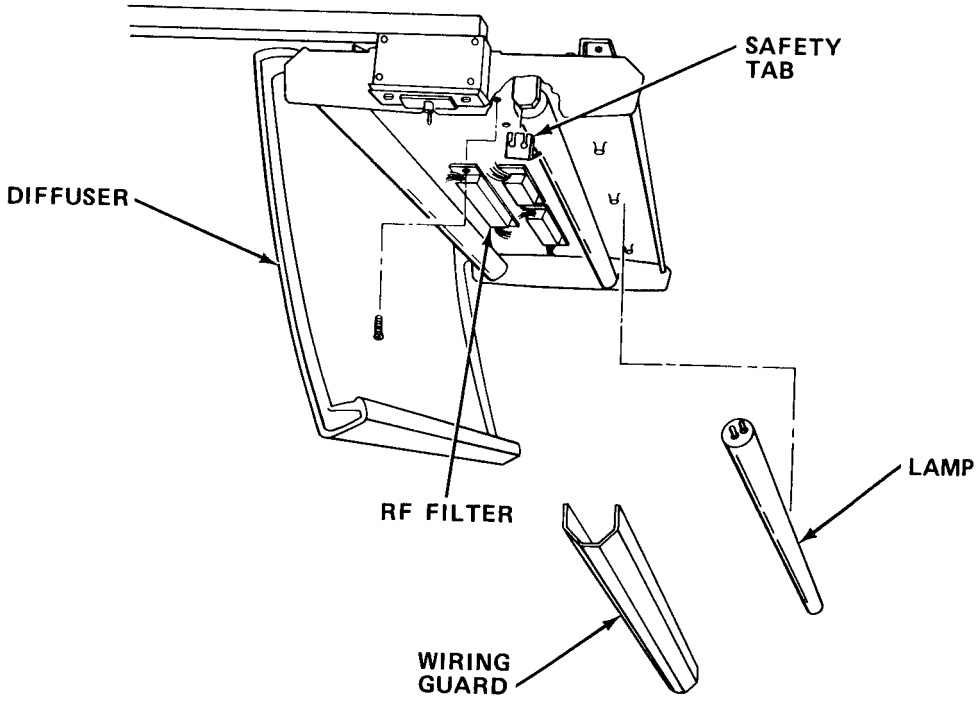
a. Turn overhead light switch OFF.

b. Remove diffuser from light fixture.

c. Remove safety tabs and lamps. Place in diffuser.

d. Sqeeze light wiring guard and remove.

e. Remove wire ties as required.



f. Tag wires to filter.

g. Remove wire nuts and disconnect filter wires.

h. Remove nuts and defective filter.

i. Install new filter. Secure with nuts.

j. Reconnect filter wires and secure with wire nuts.

k. Remove tags.

l. Install new wire ties.

NOTE

Be sure wires are free of kinks and do not interfere with placement of wire guard.

m. Reinstall wire guard.

n. Reinstall lamps and safety tabs.

o. Reinstall diffuser.

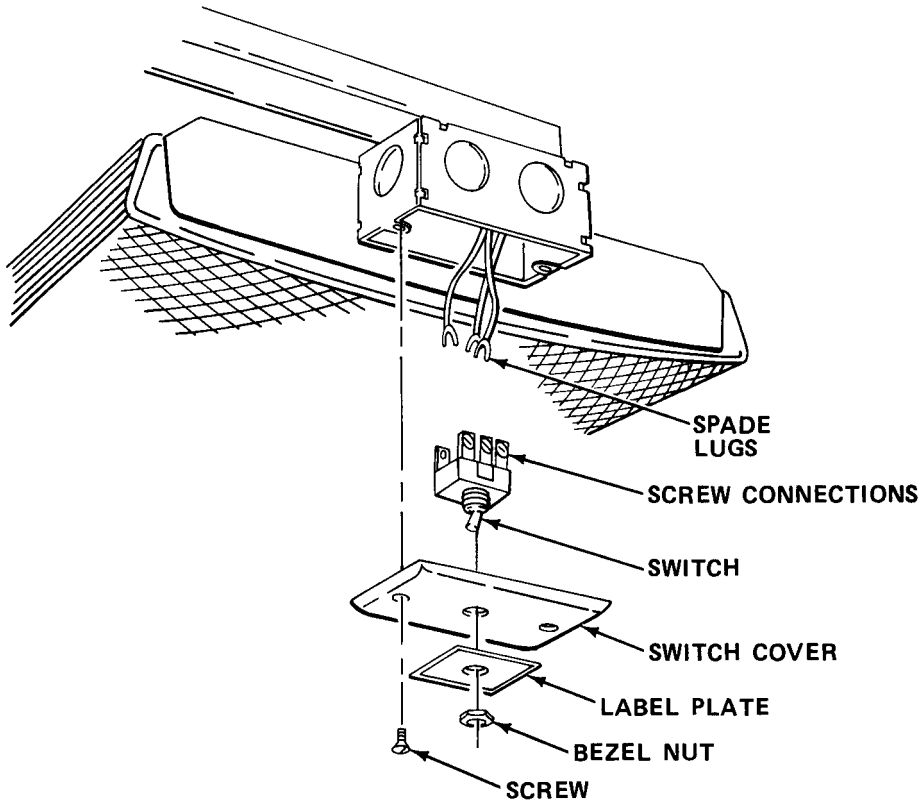
p. Turn on light switch.

1-16.3 Replace Fluorescent Lamp Switch.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
Needle Nose Pliers
Flashlight

SUPPLIES: Switch Assembly



WARNING

Death or serious injury may occur if lighting circuit breaker is not turned off before working on lamp assembly.

NOTE

Alternate lighting is required to perform this task.

a. Turn circuit breaker OFF.

b. Remove bezel nut.

c. Note notch on label plate and remove label plate.

d. Loosen screws.

NOTE

Note position of cover and reinstall as noted.

e. Remove cover plate.

f. Tag and disconnect wires from defective switch.

g. Install new switch, connect wires and remove tags.

h. Insert switch through cover plate and label plate.

NOTE

Be sure label plate is in same direction as when removed. Secure with bezel nut.

i. Aline cover plate with holes and secure with screws.

j. Turn circuit breaker ON.

1-16.4 Replace On/Off Switch.

MOS: 83FJ6, Reproduction Equipment Repairer

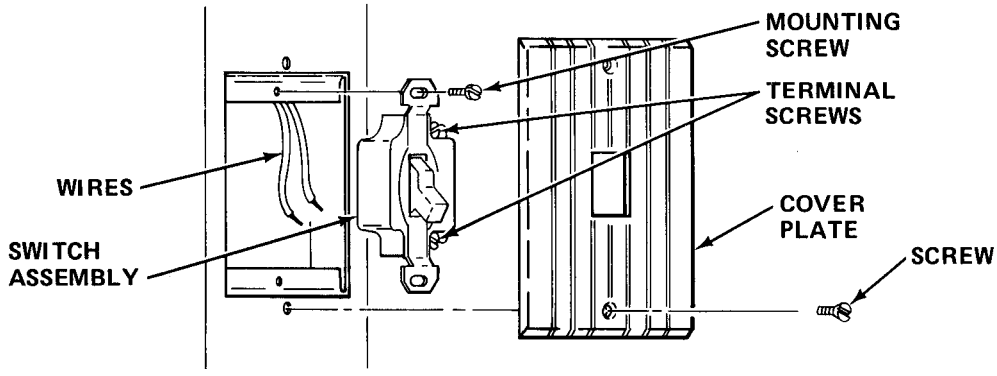
TOOLS: Flat Tip Screwdriver

SUPPLIES: Switch

WARNING

Death or serious injury may occur if switch circuit breaker is not turned off before working on switch.

a. Turn off appropriate circuit breaker.



b. Remove screws.

c. Remove cover plate.

d. Remove mounting screws.

e. Pull switch assembly from wire guide to gain access to wires.

f. Loosen terminal screws; then disconnect wires.

g. Install new switch.

h. Reconnect wires.

i. Guide switch into wire guide, alining holes.

NOTE

Be sure wires are not kinked or strained.

j. Reinstall mounting screws.

k. Reinstall cover plate and secure with screws.

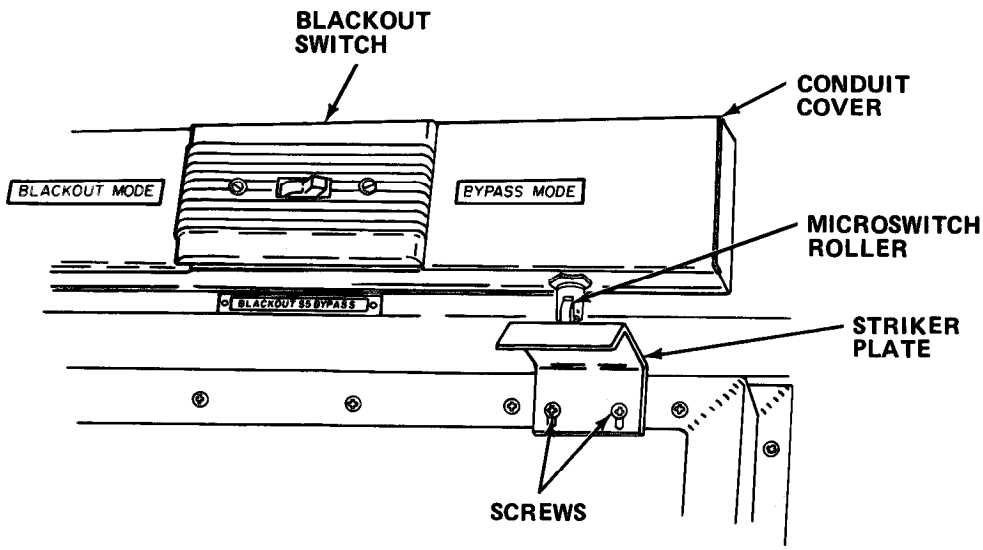
l. Turn on switch circuit breaker.

1-16.5 Replace Blackout/Dome Light Microswitch.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
6 in. Adjustable Wrench

SUPPLIES: Microswitch



WARNING

Death or serious injury may occur from electrical shock unless power is off before servicing.

a. Turn off blackout/dome light circuit breaker.

b. Remove conduit cover.

c. Remove nut and pull out switch to expose wiring.

d. Disconnect wires from defective switch.

e. Connect wires to new switch.

f. Install switch and secure with nut.

g. Adjust striker plate until plate contacts rollers.

h. Reinstall conduit cover.

i. Turn on circuit breaker.

1-16.6 Replace Receptacle.

MOS: 83FJ6, Reproduction Equipment Repairer

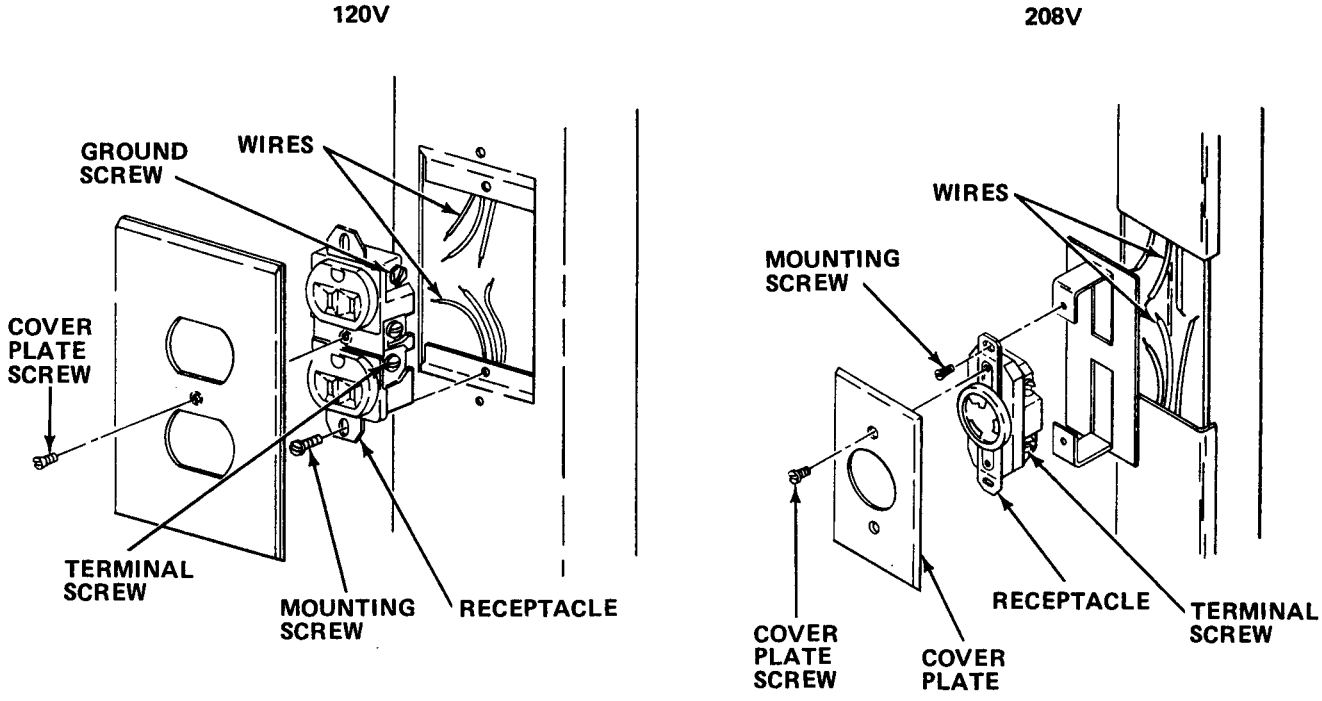
TOOLS: Flat Tip Screwdriver

SUPPLIES: Receptacle

WARNING

Death or serious injury may occur if receptacle circuit breaker is not turned off before working on receptacle.

a. Turn off receptacle circuit breaker.



b. Remove cover plate screws.

c. Remove cover plate.

d. Remove mounting screws.

e. Withdraw receptacle to gain access to wires.

f. Loosen terminal screws and ground screw. Then disconnect wires.

g. Reconnect wires. Connect green (ground) wire first.

h. Install new receptacle.

i. Guide receptacle into wire guide.

NOTE

Be sure wires are not kinked or strained.

j. Secure receptacle with screws.

k. Reinstall cover plate. Secure with screws.

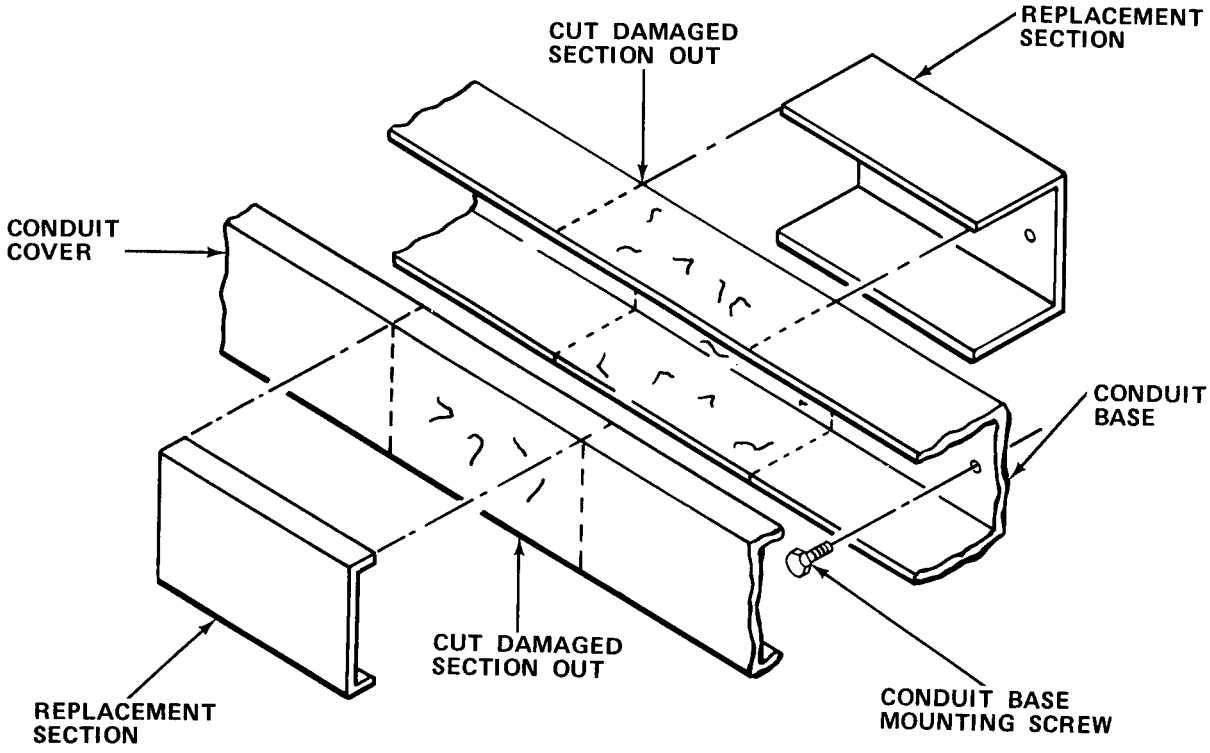
l. Turn on receptacle circuit breaker.

1-16.7 Replace Wire Molding.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
Hacksaw
Flashlight
Paint Brush
Multimeter
Drill and Bits
File
Machinist Rule

SUPPLIES: Paint (Item 24, Appendix E)
Cheesecloth (Item 12, Appendix E)
Conduit Base
Conduit Cover
Padlock



WARNING

Death or serious injury may occur from failure to turn off and padlock safety switch before repairing molding.

NOTE

Alternate lighting is required to perform this task.

a. Turn off and padlock safety switch.

b. Remove conduit cover.

c. Inspect wires for damage.

NOTE

Refer to direct support maintenance for wiring repair if necessary.

d. Loosen wiring and carefully pull it from the entire base section.

e. Remove screws and base from wall.

f. Mark and measure damaged area on molding. Record measurement.

g. Cut damaged area from molding.

h. Cut section from new molding to the length recorded in step f.

i. Using damaged area as a template, mark mounting holes on new piece.

j. With a number 25 drill bit, drill holes in new molding.

k. With file, remove all burred edges.

l. Paint base section as required.

m. Reinstall conduit base on wall with screws.

n. Carefully place wiring back in conduit base.

o. Reinstall cover on base.

p. Test wiring for continuity between power wires and conduit. If there is continuity, determine and correct grounding fault.

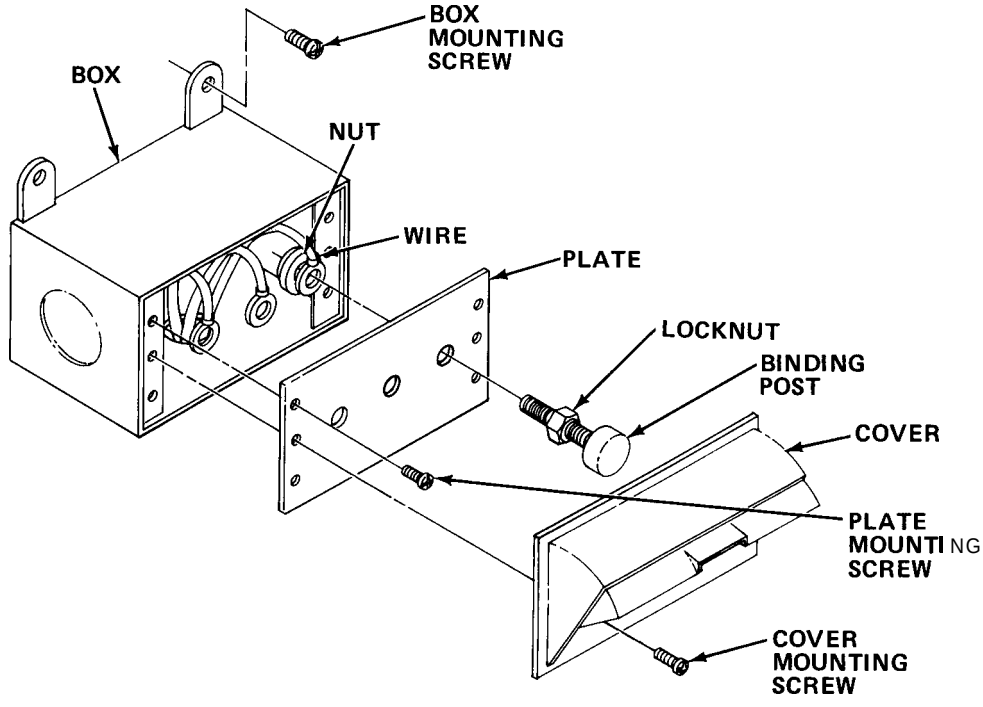
q. Test wiring with power on.

1-16.8 Repair Telephone Binding Post Assembly.

MOS : 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
1/2 in. Combination Wrench

SUPPLIES: Binding Post Box
Binding Posts



a. Remove cover mounting screws. Remove cover.

b. Remove plate mounting screws to gain access to back of plate.

c. Tag wires for identification.

d. Remove nuts and wires from binding posts.

e. If required, remove box mounting screws and replace box.

f. Replace any defective binding posts. Secure wires to new posts and remove tags.

g. Reinstall box assembly and plate; secure plate with screws.

h. Secure cover with screws.

1-16.9 Replace Exhaust Fan.

MOS: 83FJ6, Reproduction Equipment Repairer

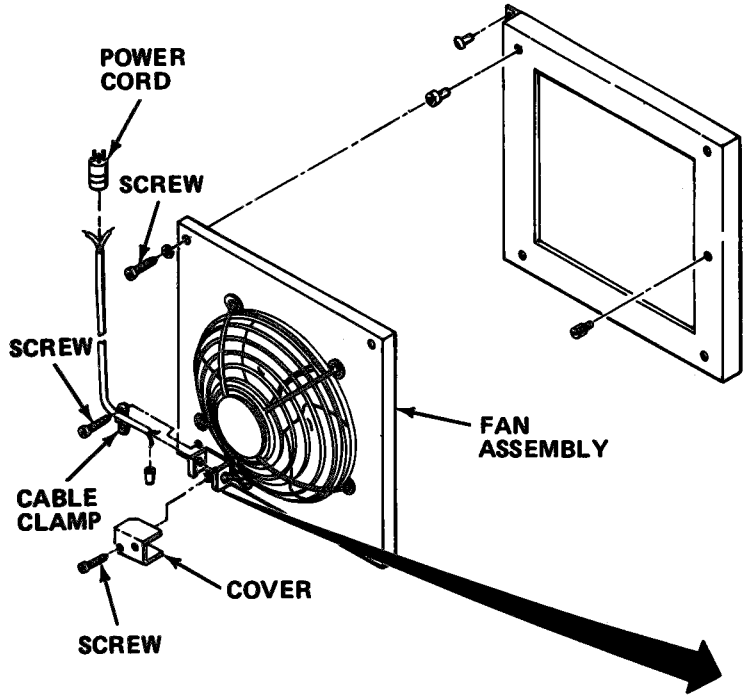
TOOLS: Flat Tip Screwdriver
Cross Tip Screwdriver
Wire Cutters

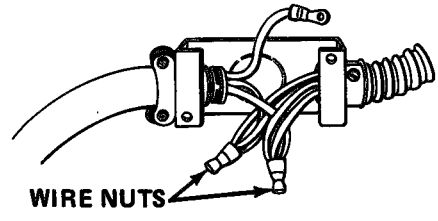
SUPPLIES: Fan Assembly
Wire Nuts
Power Cord

WARNING

Death or serious injury may occur if power is left on. Turn fan switch OFF and unplug power cord before working on exhaust fan.

a. Unplug power cord.





b. Remove screws and place fan assembly on work surface.

c. Loosen screws on cable clamp.

d. Remove screws and cover.

e. Tag wires and cut wire nuts from wires.

f. Remove power cord from defective fan assembly.

g. Install new fan.

h. Install new power cord.

i. Connect wires with wire nuts and remove tags.

j. Tighten cable clamp screws.

k. Reinstall cover. Secure with screws.

l. Reinstall fan assembly. Secure with screws.

m. Plug in power cord.

1-16.10 Replace Exhaust Fan Cover.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Drill and Bits
Pop Rivet Gun
Scraper

SUPPLIES: Pop Rivets
Exhaust Fan Cover
Gasket
Solvent P-D-680 (Item 40, Appendix E)
Adhesive (Item 1, Appendix E)
Cheesecloth (Item 12, Appendix E)
Impermeable Gloves
Goggles

a. Drill pop rivets from hinged cover to remove vent cover.

b. Remove defective vent cover and transfer mounting hardware to new cover.

WARNING

Dry cleaning solvent, P-D-680, used to clean parts is potentially dangerous to personnel and property. Avoid repeated and prolonged skin contact. Wear solvent-impermeable gloves and eye/face protective equipment when using solvent. Do not use near open flame or excessive heat. Flash point of solvent is 100°F to 138°F (38°C to 59°C).

c. Scrape gasket off section and clean area with solvent P-D-680.

d. secure new gasket to section with adhesive.

e. Aline exhaust fan vent cover and pop rivet to hinge.

f. Test cover for tightness of closure.

1-16.11 Replace Emergency Light Assembly.

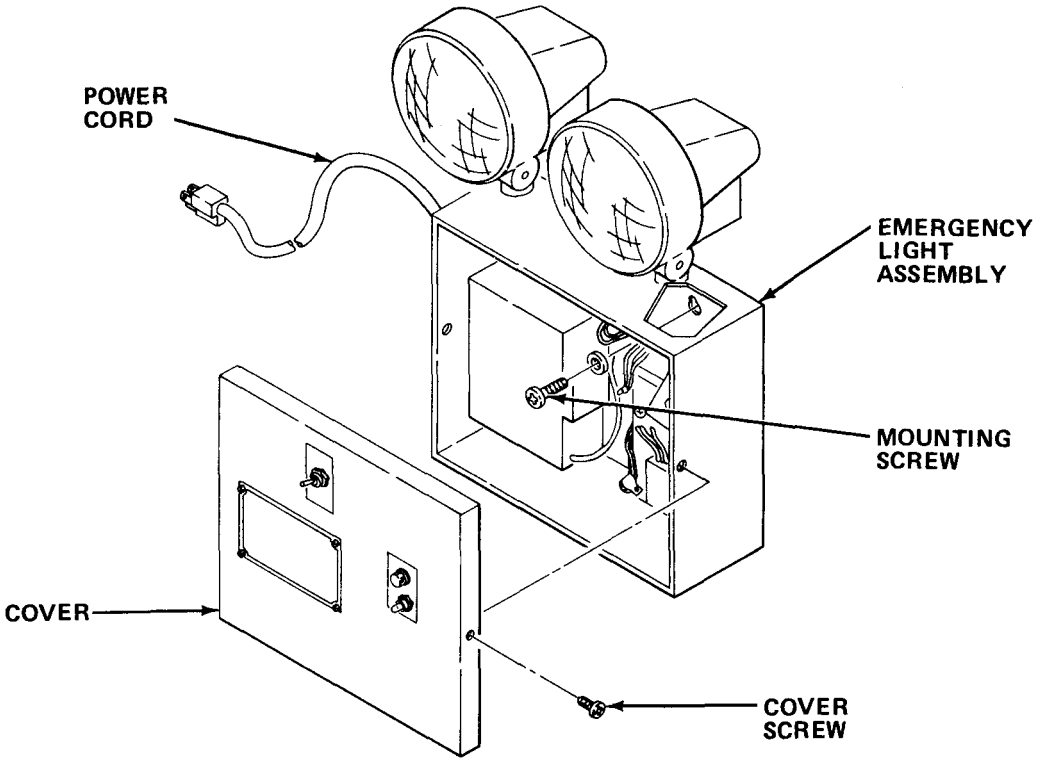
MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
Flat Tip Screwdriver

SUPPLIES: Emergency Light Assembly

WARNING

Death or serious injury may occur if power cord is not unplugged before servicing light.



a. Unplug power cord.

b. Remove cover screws. Move cover out of way.

c. Remove mounting screws.

d. Remove emergency light assembly.

e. Install new emergency light assembly. Secure with screws.

f. Secure cover with screws.

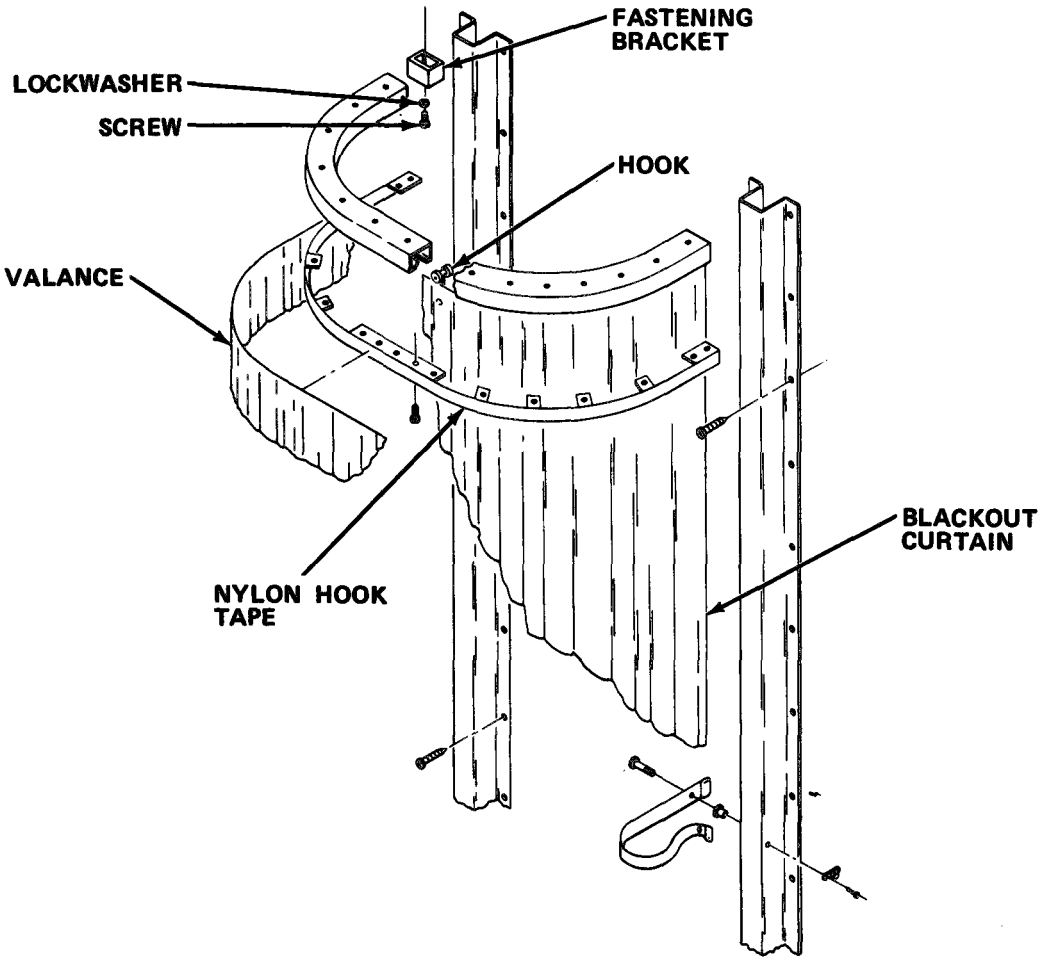
g. Plug in power cord.

1-16.12 Repair Blackout Curtain.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Hooks
Valance
Curtain
Nylon Hook and Pile Tape
Adhesive (Item 1, Appendix E)



a. Remove curtain from hooks.

b. Pull curtain and valance from nylon hook and pile tape.

c. Remove end screw, lockwasher, and fastening bracket from ceiling.

d. Replace damaged hooks.

e. Reinstall fastening bracket with hooks. Fasten with end screw and lockwasher.

f. Glue loose nylon hook and pile tape to wall or bracket. Replace tape if worn out.

g. Hook curtain to bracket.

h. Attach valance.

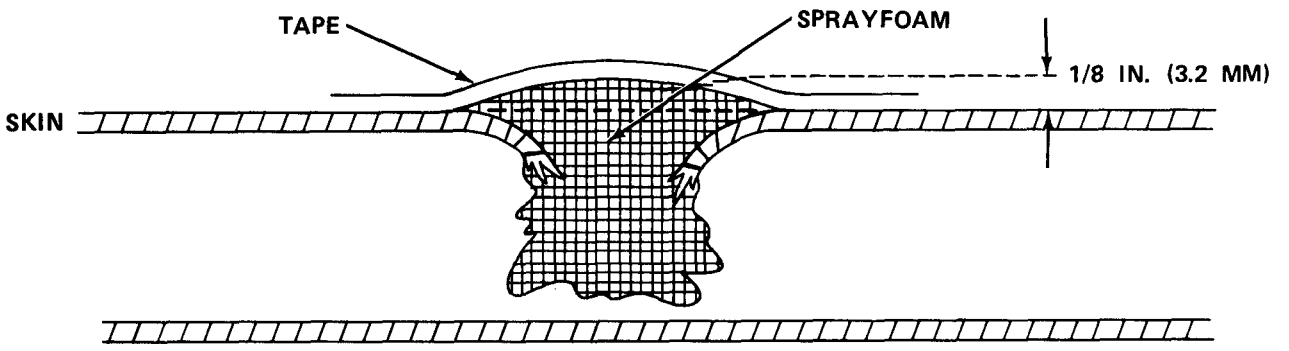
i. Check curtain for free movement.

1-16.13 Repair Van Body Skin (Temporary).

MOS: 52C, Utilities Equipment Repairer

TOOLS: Pliers
Ball Peen Hammer
Scissors or Utility Knife

SUPPLIES: Cloth Duct Sealing Tape (Item 17, Appendix E)
Silicone Sealant (Item 12, Appenendix E)
Sprayfoam (Item 16, Appendix E)
Cheesecloth, (Item 3, Appendix E)



a. Bend broken edges of punctured skin inward into puncture hole. Do not attempt to remove fragments of skin by bending or pulling outward. Bend skin inward only enough to put broken edges below surface of unbroken skin.

b. Remove any loose fragments of foam which are not now held in place by bent broken skin. Removing small pieces of foam or dust is more important than removing chunks.

c. Using cloth slightly dampened with water, wipe area around puncture to remove any dirt or mud and wipe dry.

d. Inject sprayfoam into puncture. Mound sprayfoam to about 1/8 in. (3.2 mm) above surface of unbroken skin. Apply bead of sealant about 1/4 in. (6.4 mm) wide over all cuts in skin leading out from puncture. Do not smooth out sealant.

e. Plan how puncture is to be covered with tape before applying any tape. Length and width of tape, number of tape strips, overlapping, and how tape is applied will affect sealing capability of repair. Each piece of tape should extend about 1-1/2 in. (3.81 cm) beyond sealant it will cover. If this will require more than one strip of tape, tape should overlap about 1/2 in. (12.7 mm). If three or more strips of tape are required, center strip should be applied first.

f. Holding tape taut, apply it perpendicular to panel skin. Do not apply with rolling motion either end-to-end or center-to-ends. Do not rub each strip in place individually. Apply all strips lightly with proper overlap and rub into place.

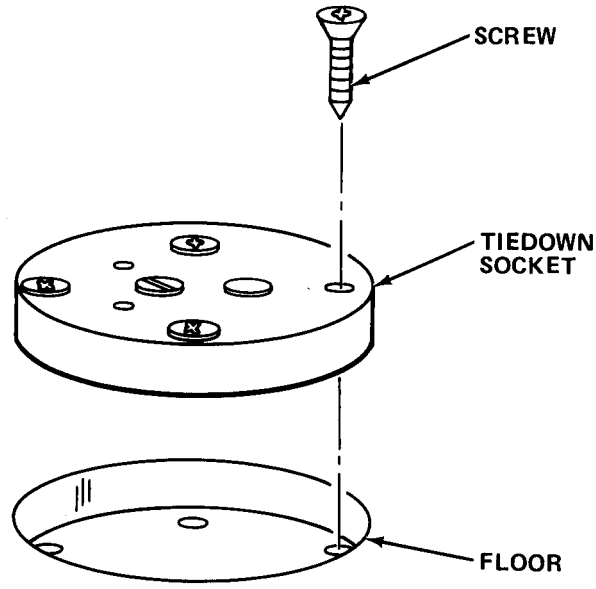
g. If necessary, damaged tape can be replaced; however, it should be removed with careful peeling motion to avoid damage to sealant. If sealant also peels back, new sealant should be applied. Complete removal of old sealant is not necessary. Permanent repair by direct support or higher category of maintenance, should be made as soon as possible.

1-16.14 Replace Tiedown Socket.

MOS : 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
Flat Tip Screwdriver

SUPPLIES: Tiedown Socket



a. Remove screws from tiedown socket.

b. Pry defective socket from floor.

c. Install new tiedown socket. Rotate new tiedown socket enough to avoid installing screws in old screw holes.

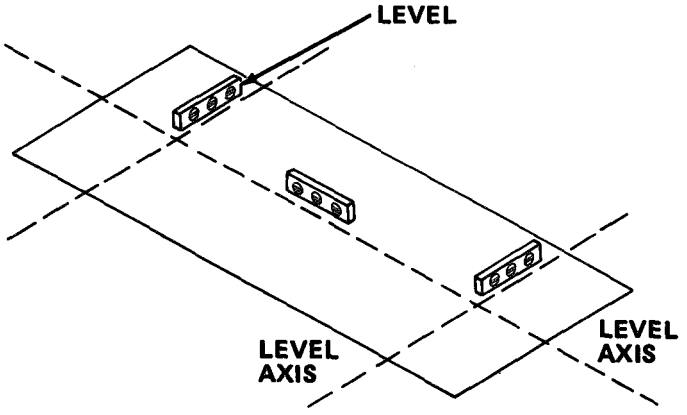
d. Reinstall screws.

1-16.15 Repair Leve Indicator.

MOS: 83FJ6, Reproduction Equipment Repairer

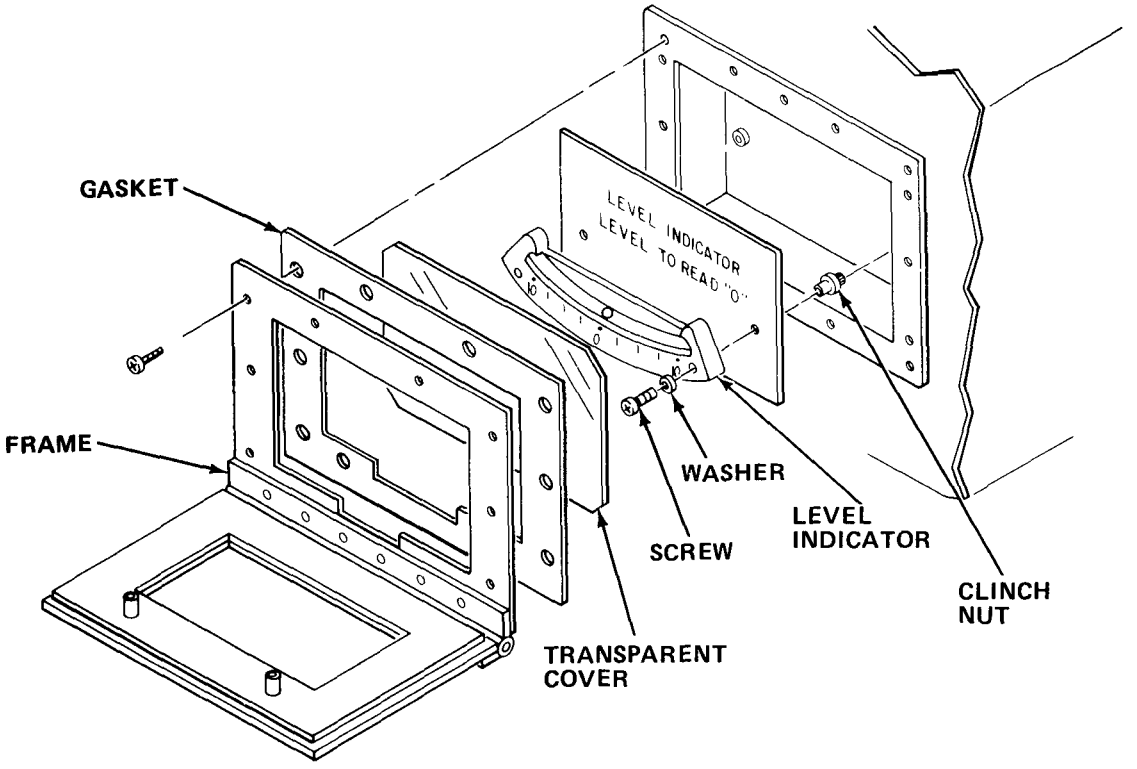
TOOLS: Carpenter's Level
Cross Tip Screwdriver
Knife, TL-29

SUPPLIES: Level Indicator
Gasket



a. Level section using level indicators. Then confirm section is level by using carpenter's level on floor inside section.

b. Adjust section leveling jacks until section is level as shown by carpenter's level alinement at front-rear and left-right at each end as shown in illustration.



c. Loosen knurled screws and move cover away from level assembly.

d. Remove screws and washers to release frame and gasket.

e. Remove transparent cover.

f. Remove screws and washers to remove level indicator.

g. Replace level assembly and secure with screws and washers.

h. Reinstall transparent cover.

i. Install new gasket.

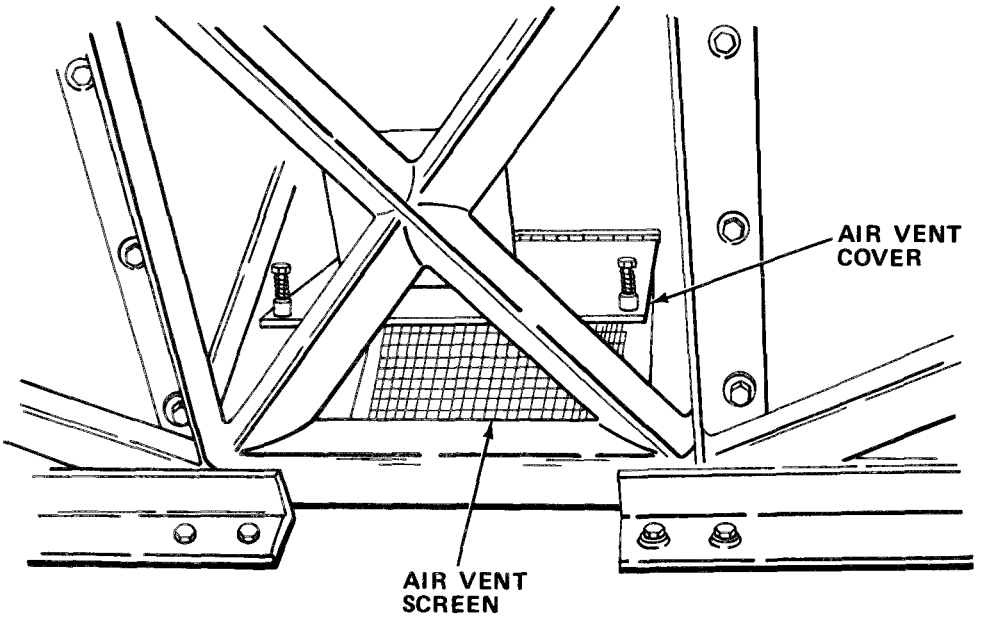
j. Reinstall frame and secure with screws and washers.

1-16.16 Replace Air Vent Screen.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
Scissors

SUPPLIES: Rubber Adhesive (Item 1, Appendix E)
Nylon Screen (Item 35, Appendix E)



a. Raise access cover and remove screws holding screen frame to section.

b. Remove screen and frame.

c. Clean all old screen material and adhesive from frame.

d. CM new screen material to size and attach to frame with adhesive.

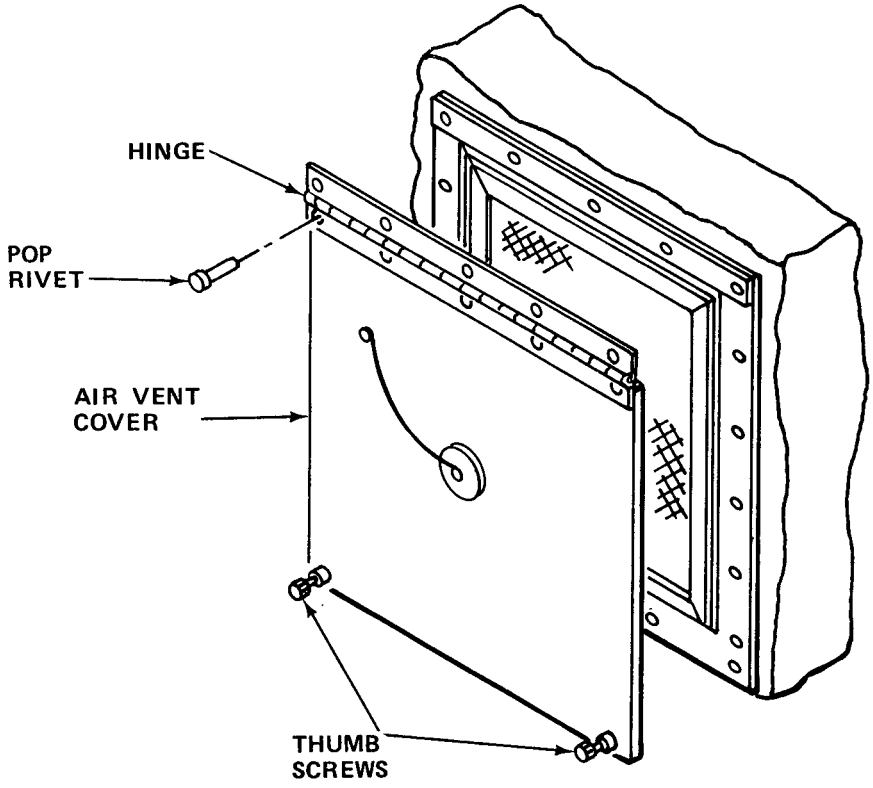
e. Reinstall frame to section and secure with screws. Lower cover.

1-16.17 Replace Air Vent Cover.

MOS : 83FJ6, Reproduction Equipment Repairer

TOOLS : Drill and Bits
Pop Rivet Gun

SUPPLIES: Vent Cover
Pop Rivets



a. Loosen thumbscrews.

b. Drill pop rivets from hinge. Remove air vent cover.

c. Aline holes and pop rivet new air vent cover to section.

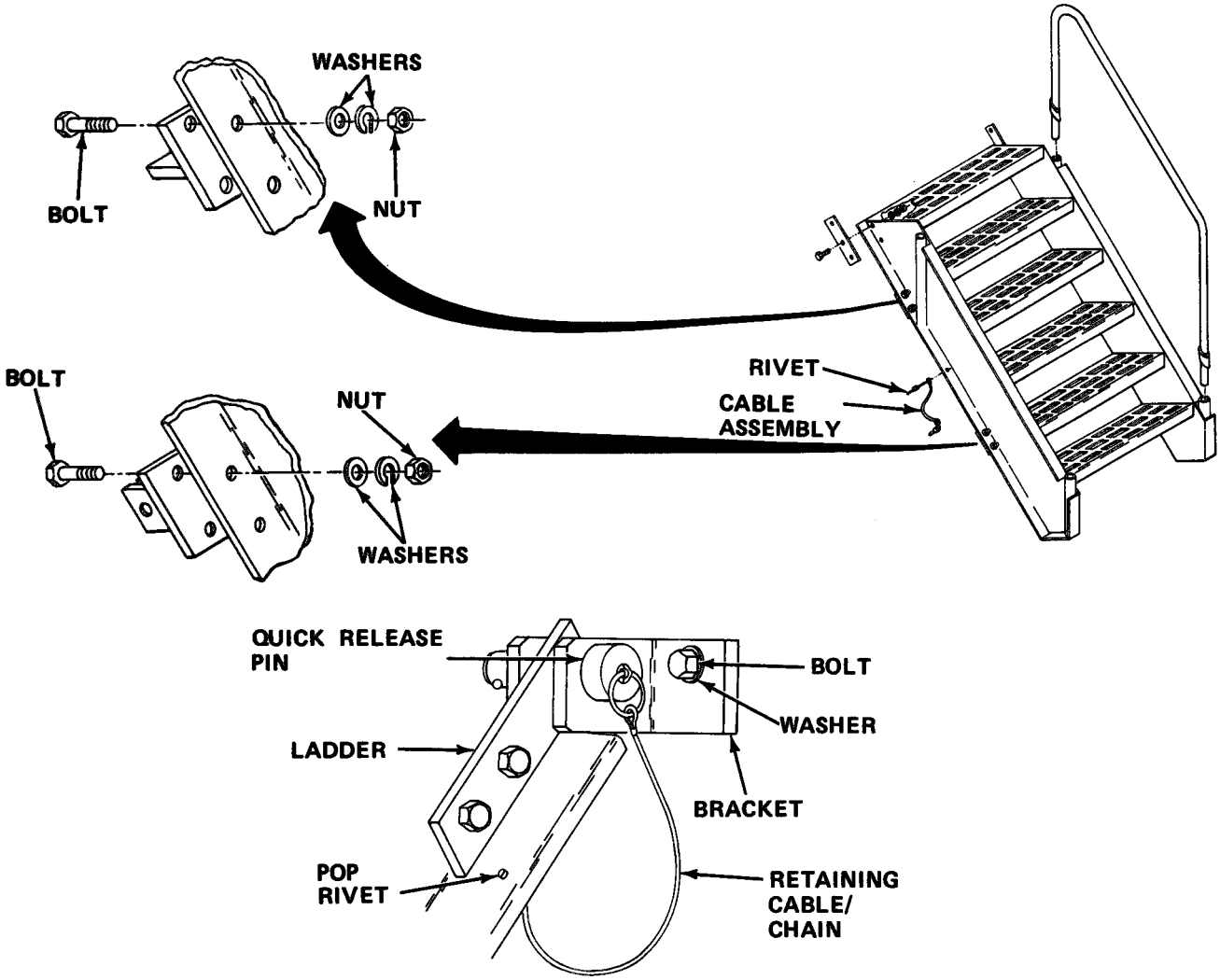
d. Tighten thumbscrews.

1-16.18 Repair Personnel Ladder.

MOS: 63W, Wheel Vehicle Repairer

TOOLS: Drill and Bits
Pop Rivet Gun
9/16 in. Combination Wrench
8 in. Adjustable Wrench

SUPPLIES: Cable Assembly
Quick Release Pins
Pop Rivets
Mounting Brackets



a. Remove ladder from mounting bracket.

b. Remove bolts, washers, and nuts securing damaged mounting brackets to ladder.

c. Remove damaged cable assembly from ladder by drilling out rivet.

d. Reinstal l or install new mounting brackets. Secure with bolts, washers, and nuts.

e. Rivet new cable assembly to ladder.

NOTE

Be sure ladder mounting brackets fit section on rear door and under personnel doors.

f. Reinstall ladder on mounting bracket.

1-17. PREPARATION FOR STORAGE OR SHIPMENT.

a. Section may be stored or shipped either mounted on trailer chassis or unmounted. Preparation of trailer chassis is covered in TM 5-2330-305-14 and should be referred to when trailer-mounted section is prepared for storage and shipment. TM 5-4120-367-14 must be reviewed for instructions" covering air conditioner/heater.

b. Inventory equipment and consumable supplies against Hand Receipt Manual to be sure accountable material is contained in the section. Remove consumable supplies that have limited shelf life or broken seals. Replace missing items and be sure that all remaining consumable supplies are at authorized levels. Be sure all major components are operational.

c. Remove all unauthorized or personal equipment from section.

d. Move all classified material or sensitive data to proper storage. Complete all accountability and/or transfer of documents.

e. Refer to Preparation for Movement (paragraph 1-6.2) and follow applicable steps and any additional steps directed by proper authority.

Section V DIRECT/GENERAL SUPPORT MAINTENANCE

1-18. REPAIR PARTS, SPECIAL TOOLS: TEST, MEASUREMENT. AND DIAGNOSTIC EQUIPMENT; AND SUPPORT EQUIPMENT.

1-18.1 Common Tools and Equipment. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

1-18.2 Special Tools; Test, Measurement. and Diagnostic Equipment: and Support Equipment. Special Tools, TMDE, and Support Equipment is listed in the applicable repair parts and special tools list and in Appendix B of this manual.

1-18.3 Repair Parts. Repair parts are listed and illustrated in the Repair Parts and Special Tools List, TM 5-6675-314-24P covering direct/general support maintenance for this equipment.

1-18.4 Electrical System. Direct/general support level of maintenance for the repair of the section’s electrical system will consist of electrical wiring repair using standard electrical wiring repair procedures.

1-19. DIRECT/GENERAL SUPPORT TROUBLESHOOTING PROCEDURES.

Direct/general support troubleshooting procedures cover the most common malfunctions that may be repaired at the direct/general support level. Repair or adjustment requiring specialized equipment is not authorized unless such equipment is available. Troubleshooting procedures used by lower level maintenance should be conducted in addition to the direct/general support troubleshooting procedures.

b. This manual cannot list all the possible malfunctions or every possible test/inspection and corrective action. If a malfunction is not listed or corrected by a listed corrective action, notify your supervisor.

For unidentified malfunctions, use the facing schematic or the foldout located at the end of this manual for further fault analysis.

Table 1-5. DIRECT/GENERAL SUPPORT TROUBLESHOOTING

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
1. PERSONNEL/CARGO DOORS DO NOT CLOSE COMPLETELY.
Step 1. Check that latch rollers rotate freely.
Replace latches (paragraph 1-20.2).
Step 2. Check to see if latch rods are bent.
Replace latch rods (paragraph 1-20.2).
Step 3. Check to see if door gasket is torn or broken.
Replace door gasket (paragraph 1-20.3)
2. PERSONNEL/CARGO DOORS DO NOT LATCH PROPERLY.
Check door latch for missing or damaged components.
Replace door latch (paragraph 1-20.2)
3. AIR OR WATER ENTERS SECTION AROUND DOOR.
Check to see if door gasket if worn or broken.
Replace door gasket (paragraph 1-20.3)
4. RECEPTACLES DO NOT OPERATE BUT CIRCUIT BREAKERS ARE ON.
WARNING Turn off main circuit breaker before inspecting or servicing circuit breakers or receptacles. Failure to do so may result in death or serious injury.
Step 1. Check to see if power cable is firmly connected to power entry panel.
Connect power cable.

Table 1-5. DIRECT/GENERAL SUPPORT TROUBLESHOOTING - Cont

MALFUNCTION TEST OR INSPECTION	CORRECTIVE ACTION
4. RECEPTACLES DO NOT OPERATE BUT CIRCUIT BREAKERS ARE ON - Cont.	
Step 2. Check to see if voltage meter and frequency seal e and INCORRECT PHASE or CORRECT PHASE lamp indicate necessary power.	Notify your supervisor for service of power supply at source.
5. CIRCUIT BREAKERS TRIP CONTINUALLY.	
WARNING Turn off and padlock safety switch before inspecting or servicing circuit breakers or receptacles. Fai 1 ure to do so may result in death or serious injury.	
Step 1. Check to see if receptacles are overloaded.	Reconnect equipment to different receptacles.
Step 2. Check to see if receptacles are damaged.	Replace receptacles (paragraph 1-16.6)

1-20. MAINTENANCE PROCEDURES.

This section contains Instructions covering direct/general support maintenance functions for the Storage and Distribution Section. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

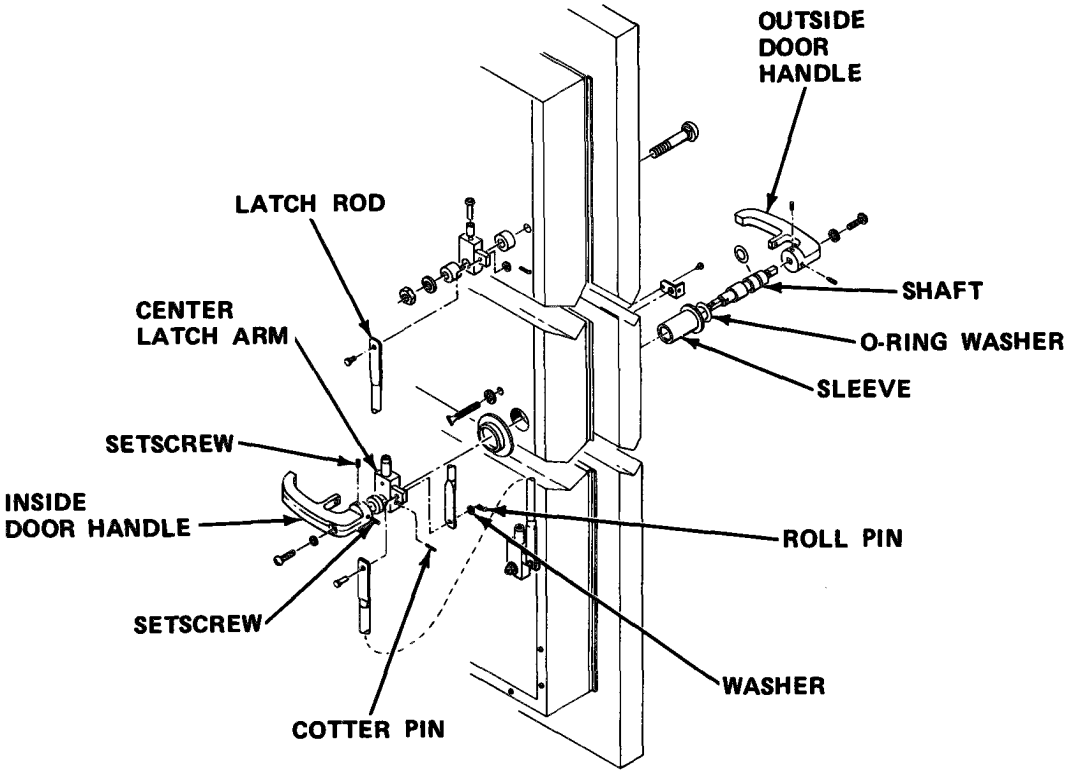
INDEX

1-20.1 Repair Personnel Door Handle.

MOS: 63W, Wheel Vehicle Repairer

TOOLS: Cross Tip Screwdriver
Needle Nose Pliers
15/16 in. Combination Wrench
Hammer
Center Punch
1/8 in. Hex Head Key Wrench

SUPPLIES: O-Ring Washer
Sleeve
Roll Pin
Personnel Door Handle
Cheesecloth (Item 12, Appendix E)
Oil, Lubricating, General Purpose (Item19, Appendix E)
Hand Oiler
Cotter Pin



a. Loosen screw and socket head setscrews. Remove defective inside door handle.

b. Remove cotter pin and pins from center latch arm assembly.

c. Move latch rods out of way.

d. Punch roll pin from center latch arm assembly and pull latch arm assembly from shaft.

e. Withdraw latch and defective outside door handle.

f. Inspect all components for wear.

g. Replace worn O-ring washer and sleeve.

h. Replace other worn components as needed.

i. Reinstall shaft and new outside door handle.

j. Aline center latch arm assembly on shaft. Secure with new roll pin.

k. Aline latch rods. Attach to latch arms with pins, washers, and new cotter pin.

l. Reinstall new inside door handle.

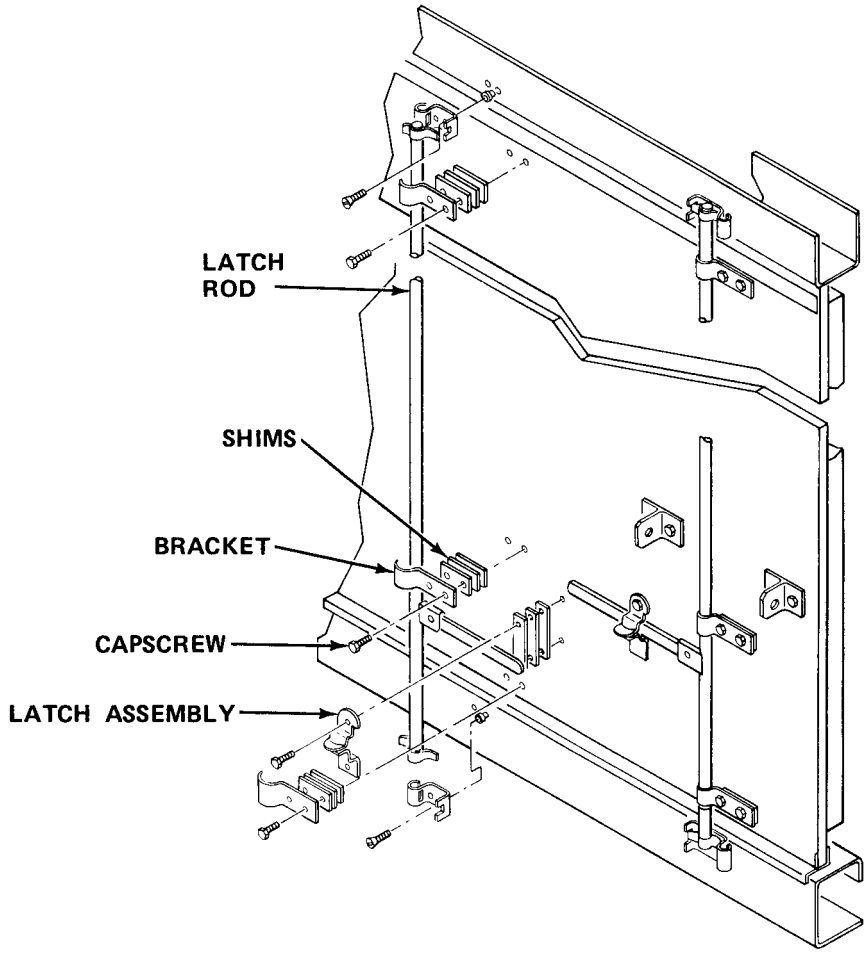
m. Lightly oil all moving parts. Wipe UP surplus oil.

1-20.2 Replace Cargo Door Latch Assembly.

MOS : 63W, Wheel Vehicle Repairer

TOOLS : 9/16 in. Combination Wrench

SUPPLIES: Cargo Door Latch Assembly



a. Unlock latch.

b. Remove capscrews and washers from brackets. Remove brackets and shims.

c. Remove defective latch assembly and latch rod.

d. Install new latch assembly and latch rod.

e. Reinstall shims, brackets, washers, and capscrews.

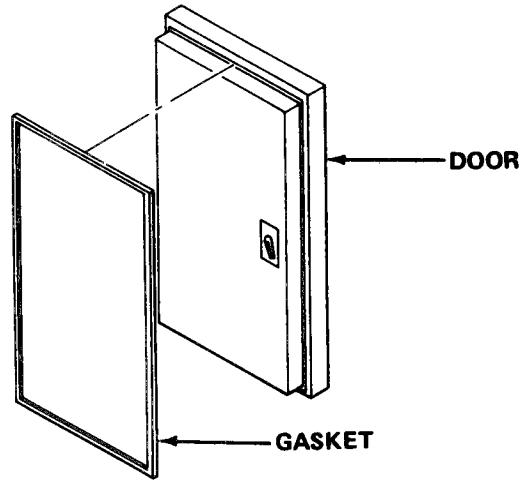
f. Check movement of latch rod and latch assembly. Lock latch.

1-20.3 Replace Personnel/Cargo Door Gasket.

MOS: 63W, Wheel Vehicle Repairer

TOOLS: Knife

SUPPLIES: Vinyl Gasket
Adhesive (Item 1, Appendix E)
Solvent P-D-680 (Item 40, Appendix E)
Impermeable Gloves
Goggles



a. Open door completely and secure in open position.

WARNING

Dry cleaning solvent, P-D-680, used to clean parts is potentially dangerous to personnel and property. Avoid repeated and prolonged skin contact. Wear solvent-impermeable gloves and eye/face protective equipment when using solvent. Do not use near open flame or excessive heat. Flash point of solvent is 100°F to 138°F (38°C to 59°C).

b Remove defective gasket by prying gasket from door. Scrape traces of gasket and adhesive from door. Wash with solvent P-D-680.

c Coat gasket area on door with adhesive.

d. Firmly press new gasket onto door.

e. Wipe excess adhesive from gasket.

f. Close door and wipe excess adhesive from door and frame.

g. Allow adhesive to dry before using door.

1-20.4 Replace Personnel/Cargo Door.

MOS: 63W, Wheel Vehicle Repairer

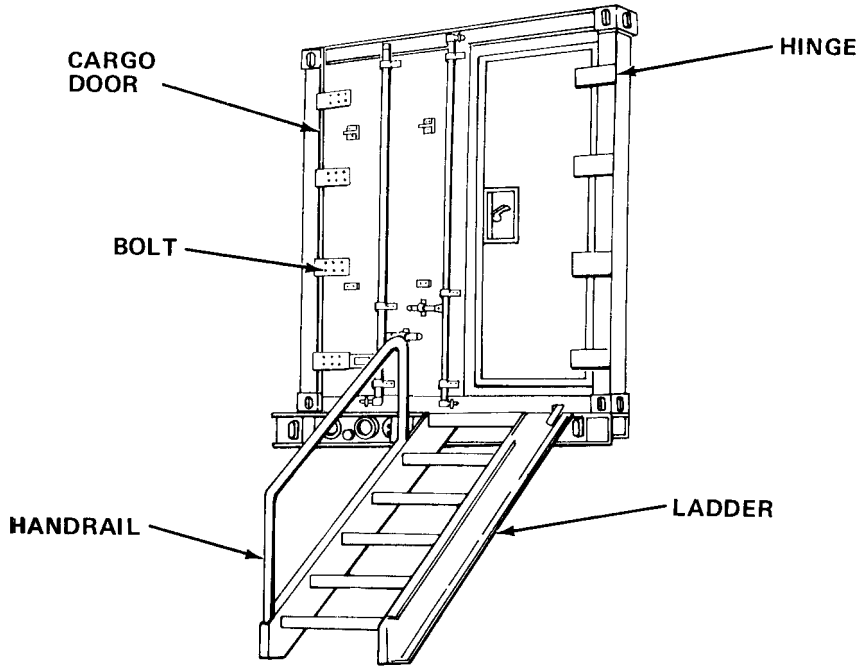
PERSONNEL: Two persons are required to perform this procedure.

TOOLS: Pop Rivet Gun
Electric Drill and Bits
Hoist
3/4 in. Combination Wrench
Paint Brush

SUPPLIES: Personnel/Cargo Door
Pop Rivets
Vinyl Gasket
Paint (Item 21, 22 and 23, Appendix E)
Paint (Item 24, Appendix E)
Adhesive (Item 1, Appendix E)
Cheesecloth (Item 12, Appendix E)

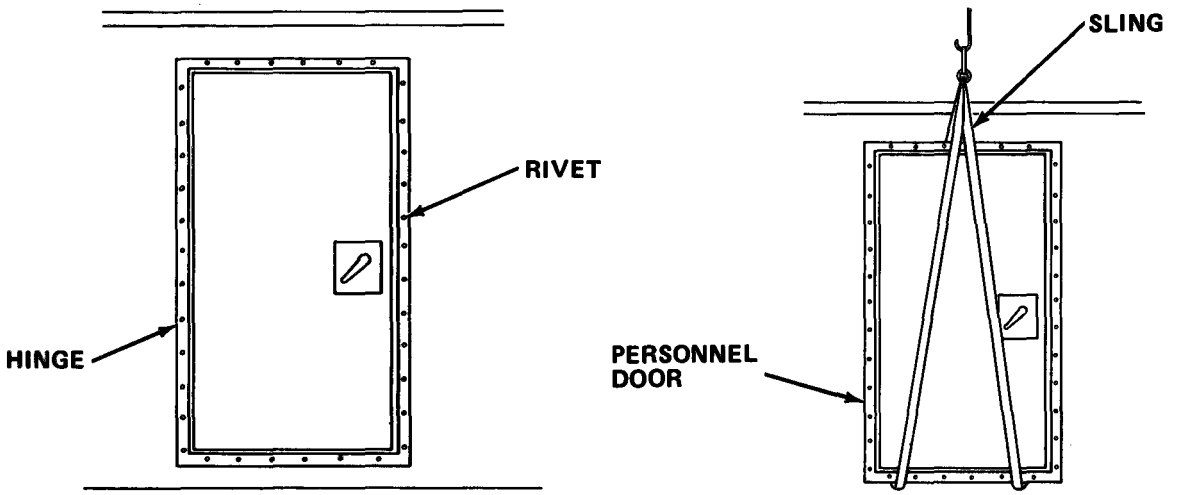
WARNING

To prevent personal injury or equipment damage, do not attempt to remove doors unless suitable lifting equipment and hoist are available.



a. Remove handrails and ladders if rear cargo door is to be replaced.

b. Unlock and open door to be replaced.



c. Place sling around door and put a slight strain on hoist to remove weight from hinges.

d. Remove bolts from hinges on rear personnel door. On side personnel door, drill out pop rivets from hinge. Remove hinges from door.

e. Remove damaged door using hoist.

f. Install new door using hoist.

g. Reinstall hinges on rear personnel door. Secure with bolts. Reinstall hinges on side personnel door. Secure with pop rivets.

h. Remove sling from door.

i. Install new gaskets on door after it is mounted (paragraph 1-20.3).

j. Repaint as needed.

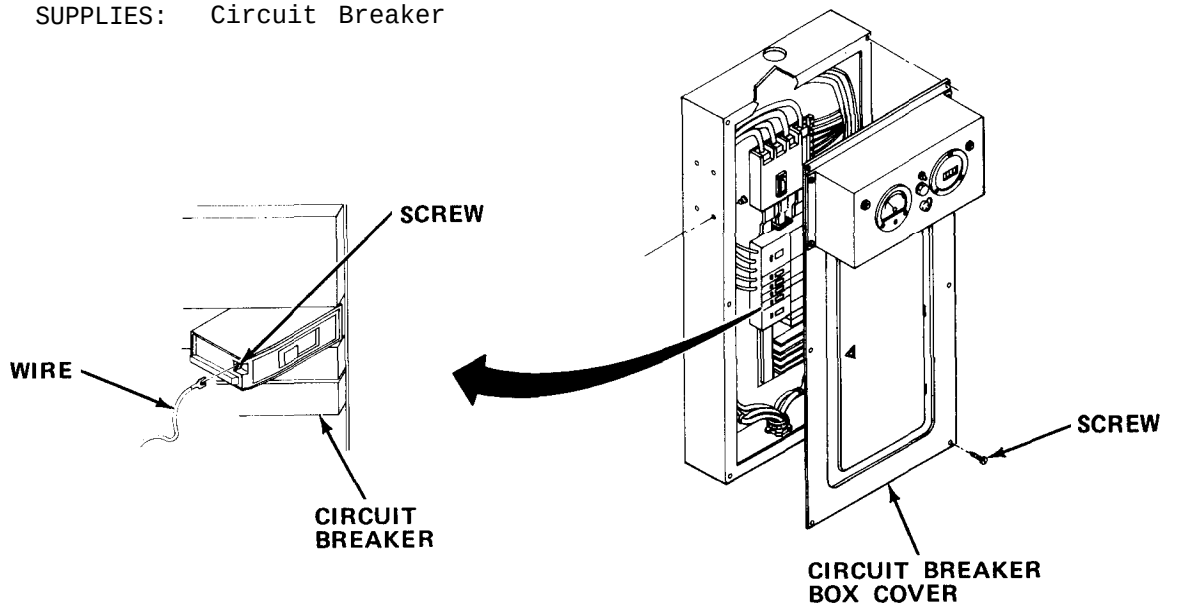
k. Close and lock door.

1-20.5 Replace Circuit Breaker.

MOS : 35E, Special Electronic Devices Repairer

TOOLS : Flat Tip Screwdriver
Multi meter

SUPPLIES: Circuit Breaker



WARNING

Turn off and padlock safety switch. Turn off individual circuit breakers before inspecting or servicing circuit breakers. Failure to do so may result in death or erious injury.

a. Turn off and padlock safety switch. Turn off individual circuit breakers.

b. Remove circui t breaker box cover.

c. Use multimeter to make sure voltage is not present.

d. Remove defective circuit breaker by pushing and snapping out of place.

e. Tag and remove wires from defective circuit breaker.

f. Pull circuit breaker from panel.

g. Reconnect wires to new circuit breaker. Secure wires with screws and remove tags.

h. Install new circuit breaker by pushing and snapping into place.

i. Reinstall circuit breaker box cover.

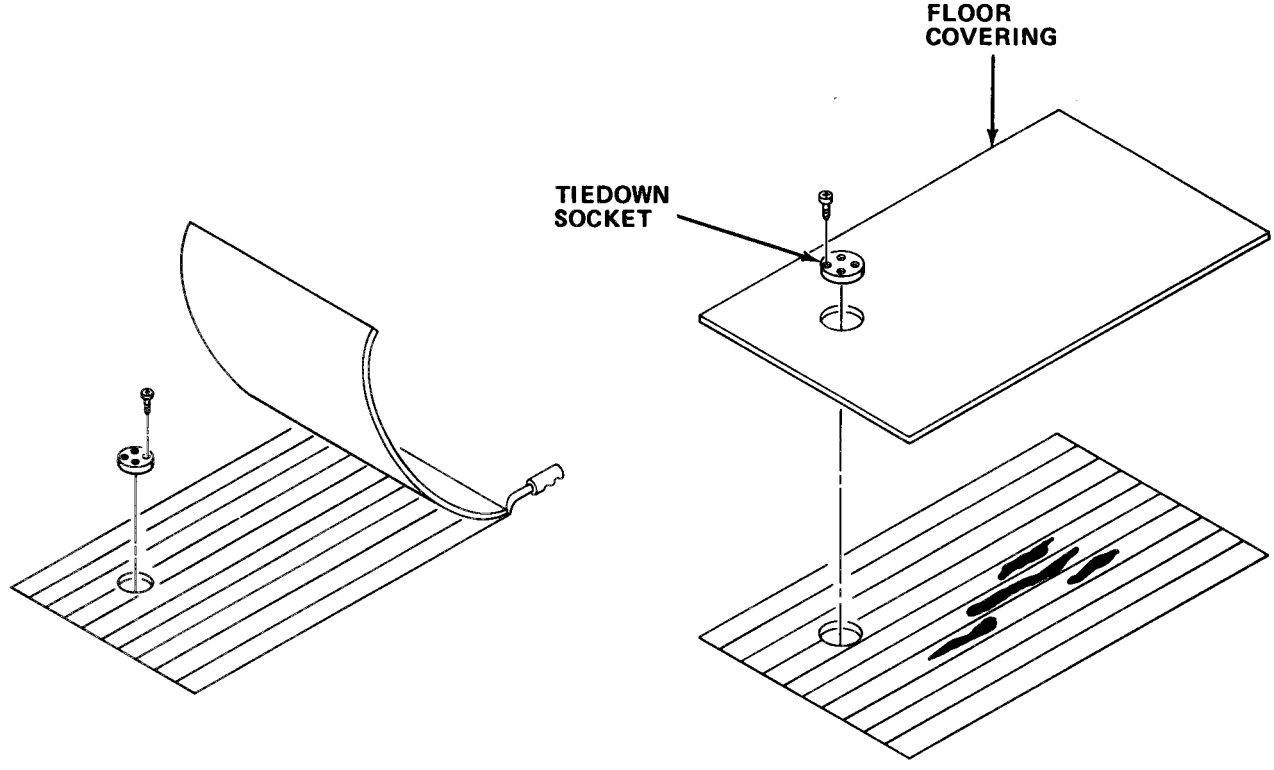
j. Remove padlock, turn on safety switch and individual circuit breakers.

1-20.6 Repair Floor Covering.

MOS: 52C, Utilities Equipment Repairer

TOOLS: Utility Knife
Cross Tip Screwdriver
Scraper
Straightedge

SUPPLIES: Vinyl Floor Covering
Epoxy Resin (Item 32, Appendix E)
Floor Patch (Item 16, Appendix E)
Cheesecloth (Item 12, Appendix E)
Adhesive (Item 2, Appendix E)



a. Cut a rectangular area from damaged floor covering.

b. Remove tiedown socket. Remove damaged floor covering.

c. Cut new floor covering to fit. Apply adhesive to floor. Press down new floor covering.

d. Reinstall tiedown socket.

1-20.7 Repair Van Body Skin (Permanent).

MOS: 63W, Wheel Vehicle Repairer

TOOLS: Pop Rivet Gun
Electric Drill and Bits
Paint Brush

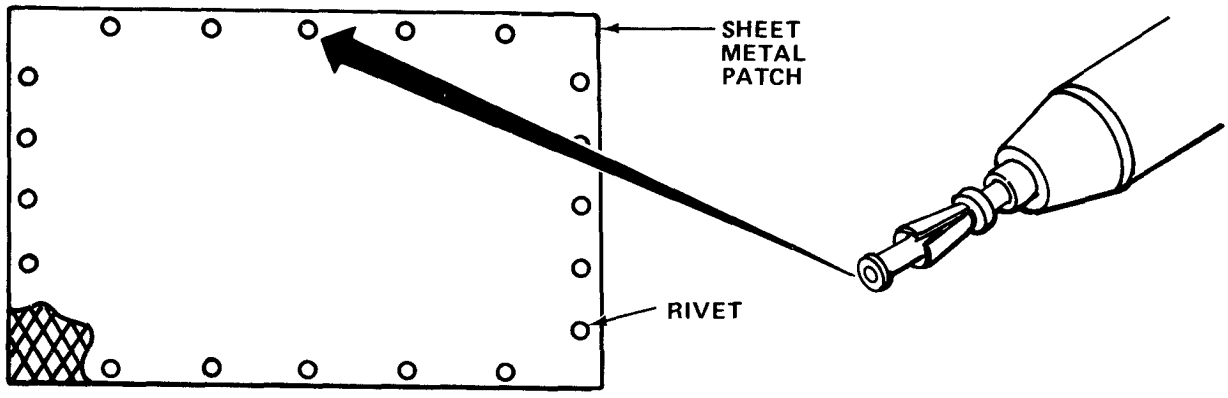
SUPPLIES: Pop Rivets
Sprayfoam (Item 42, Appendix E)
Silicone Sealant (Item 36, Appendix E)
Sheet Metal
Paint (Items 21, 22 and 23, Appendix E)
Cheesecloth (Item 12, Appendix E)

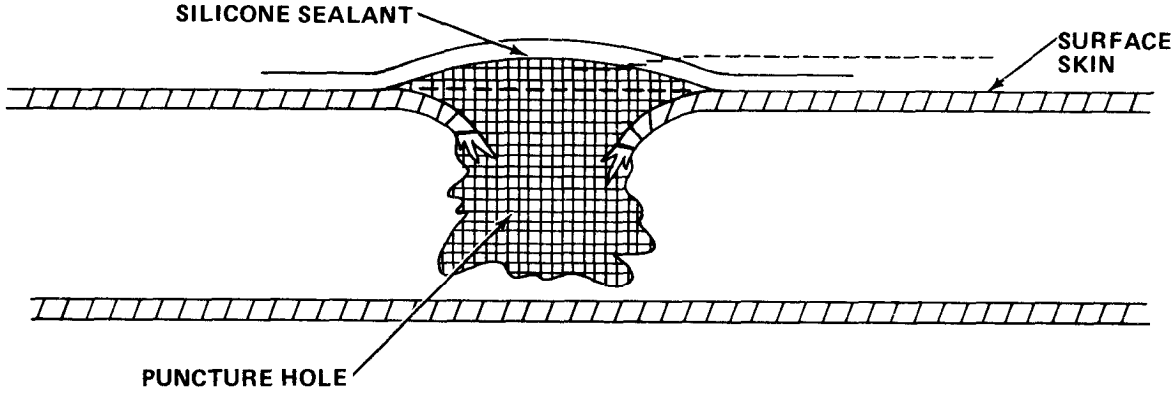
a. Bend broken edges of skin inward into puncture hole. Do not attempt to remove fragments of skin by bending or pulling out.

b. Remove all loose fragments of foam.

c. Use cloth dampened with water to clean area around puncture. Wipe dry.

d. Inject sprayfoam into puncture, Fill to 1/8 in. (3.2. mm) above surface of unbroken skin. Apply sealant to cracks leading to puncture.





e. Prepare sheet metal patch large enough to cover damaged area with overlap.

f. Place patch over damaged area and mark all around edges of patch.

g. Drill holes 1 in. (25.4 mm) apart.

h. Apply sealant to edges of patch.

l. Apply patch to van body.

j. Install pop rivets beginning at center of each side. Rivets should be placed 1 in. (25.4 mm) apart.

k. Paint as needed.

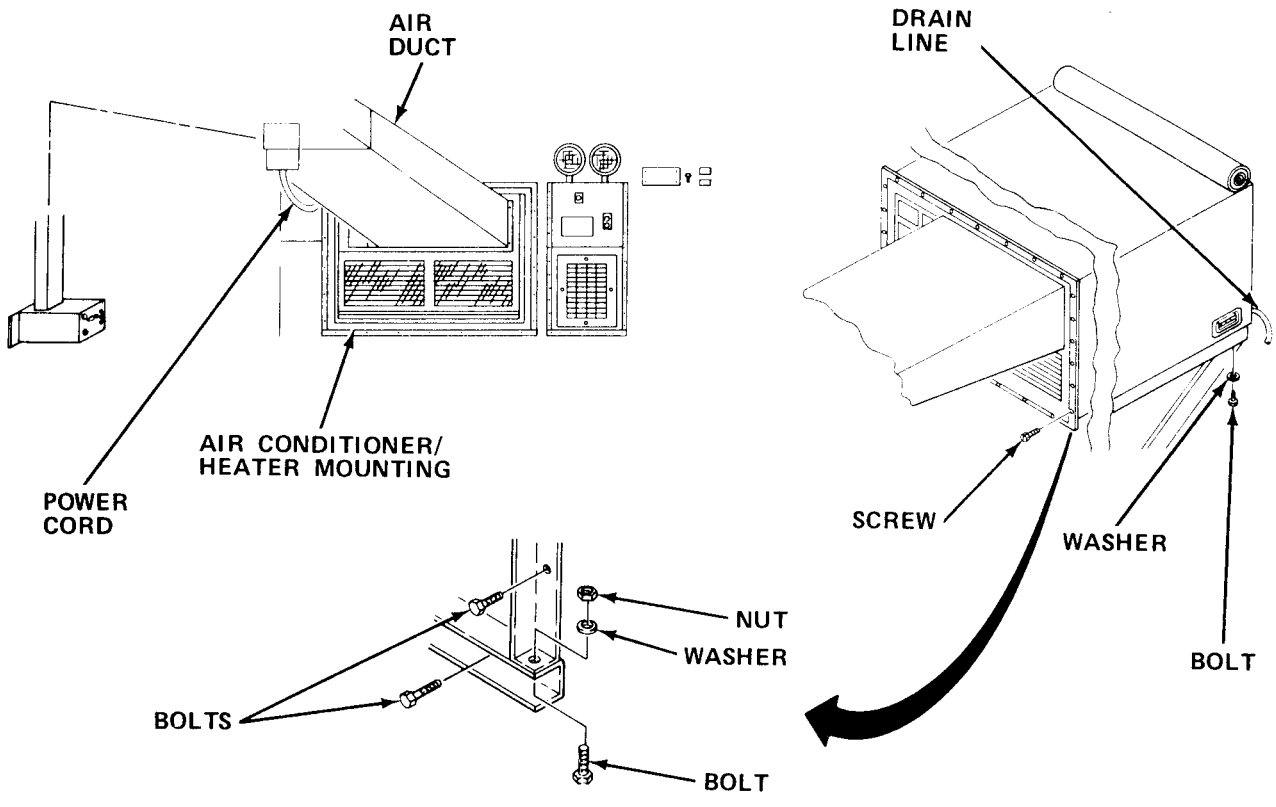
1-20.8 Replace Air Conditioner/Heater.

MOS: 63W, Wheel Vehicle Repairer

PERSONNEL: Two persons are required to perform this procedure.

TOOLS: Cross Tip Screwdriver
Lifting Equipment
8 in. Adjustable Wrench
7/16 in. Combination Wrench

SUPPLIES: Air Conditioner/Heater
Solvent P-D-680 (Item 40, Appendix E)
Gasket
Sealant (Item 36, Appendix E)
Adhesive (Item 1, Appendix E)



WARNING

- Use hoist or proper lifting equipment to redate air conditioner/heater. Failure to do so may result in death or serious injury.
- Turn off air conditioner/heater circuit breaker and unplug power cord. Failure to do so may result in death or serious injury.

a. Turn off air conditioner/heater circuit breaker. Unplug or disconnect power cord as appropriate.

b. Remove screws holding air duct to air conditioner/heater.

c. Remove nut, washer, and screw from each corner of air conditioner/heater mounting. Remove screws securing mounting to section.

d. Disconnect drain line from air conditioner/heater.

e. Attach sling to lifting handles. Raise hoist enough to remove slack from sling.

f. Remove mounting bolts and washers.

g. Slide out air conditioner until other lifting handles are free. Attach sling to handles.

h. Raise defective air conditioner/heater with hoist until unit is free from brackets and section.

i. Place air conditioner/heater on flat-bed truck or pallet.

WARNING

Dry cleaning solvent, P-D-680, used to clean parts is potentially dangerous to personnel and property. Avoid repeated and prolonged skin contact. Wear solvent-impermeable gloves and eye/face protective equipment when using solvent. Do not use near open flame or excessive heat. Flash point of solvent is 100°F to 138°F (38°C to 59°C).

j. Clean sealant from opening using dry cleaning solvent P-D-680.

k. Remove damaged gasket and replace with new gasket.

l. Raise air conditioner/heater until it rests on air conditioner/heater brackets.

m. Remove two sling hooks as unit is eased into hole until grille touches duct.

n. Remove remaining sling.

o. Reinstall washers and mounting bolts.

p. Reconnect drain lines.

q. Reinstall screws securing air conditioner/heater mounting to section wall. Reinstall screw, washer, and nut to each corner of mounting.

r. Reinstall screws securing air duct to air conditioner/heater.

s. Reconnect or plug in power cord. Turn on air conditioner/heater circuit breaker.

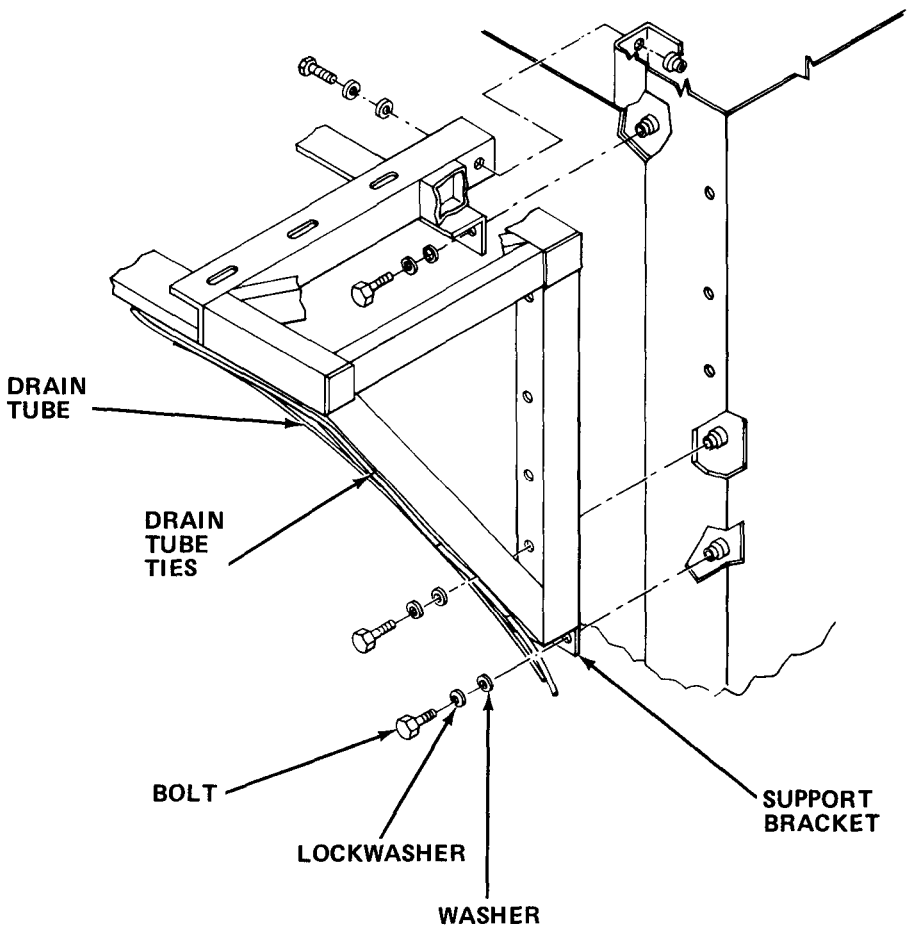
1-20.9 Replace Air Conditioner Support Bracket.

MOS : 63W, Wheel Vehicle Repairer

PERSONNEL: Two persons are required to perform this procedure.

TOOLS : 9/16 in. Combination Wrench
Lifting Equipment
Knife, TL-29

SUPPLIES: Air Conditioner Support Bracket
Drain Tube Ties



WARNING

Serious injury to personnel or damage to equipment may occur unless two or more personnel are used to remove and replace air conditioner/heater because of weight and balance of air conditioner/heater.

a. Remove air conditioner/heater (paragraph 1-20.8).

b. Cut drain tube ties and remove drain tube from support bracket.

c. Remove bolts, lockwashers, and washers securing support bracket.

d. Remove defective support bracket.

e. Install new support bracket. Secure to section with bolts, lockwashers, and washers.

f. Reinstall drain tube on support bracket and secure with new ties.

g. Reinstall air conditioner/heater (paragraph 1-20.8).

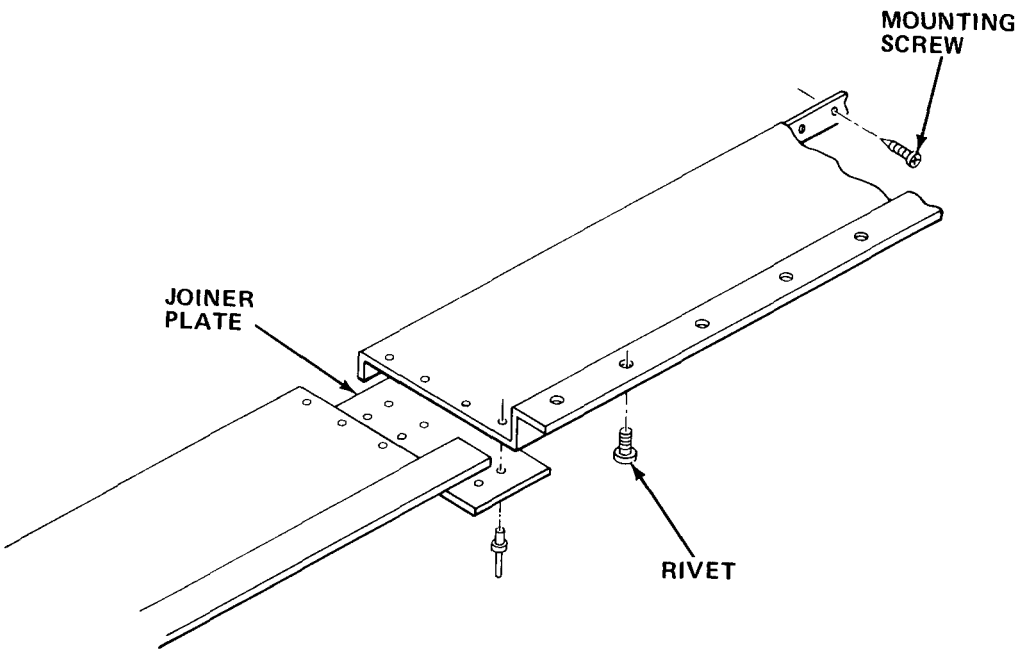
1-20.10 Replace Ventilation Duct.

MOS: 52C, Utilities Equipment Repairer

TOOLS: Hacksaw
Electric Drill and Bits
Ball Peen Hammer
Pop Rivet Gun
Paint Brush
Cross Tip Screwdriver

SUPPLIES: Sealant (Item 36, Appendix E)
Wood Block
Pop Rivets
Paint (Item 24, Appendix E)
Cheesecloth (Item 12, Appendix E)
Salvaged Ventilation Duct

a. Turn off air conditioner/heater so air will not blow through duct.



b. Drill rivets from damaged section of duct. Remove joiner plates.

c. Remove mounting screws to remove damaged sections of duct.

d. Straighten remaining sections of duct at edges using hammer and wood block.

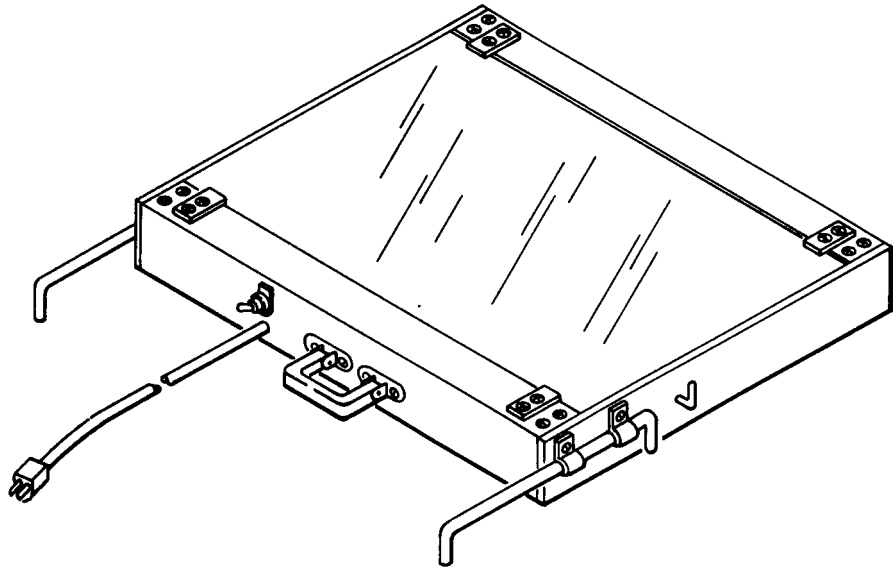
e. Place sealant on mounting edges.

f. Install new duct section cut from salvaged duct. Secure with screws.

g. Reinstall joiner plates. Install rivets to secure.

h. Paint as necessary.

i. Turn on air conditioner/heater.



CHAPTER 2

PORTABLE TRACING/SCRIBING BOARD

Section I INTRODUCTION

2-1. GENERAL INFORMATION.

2-1.1 Scope.

a. Model Number and Equipment Name. Model 51J3 Portable Tracing/Scribing Board.

b. Purpose of Equipment. To provide illuminated work surface for tracing or scribing.

2-2. EQUIPMENT DESCRIPTION.

2-2.1 Equipment Charateristics, Capabilities, and Features. Provides lightweight, portable, and diffused light source. Used as work surface for tracing or scribing.

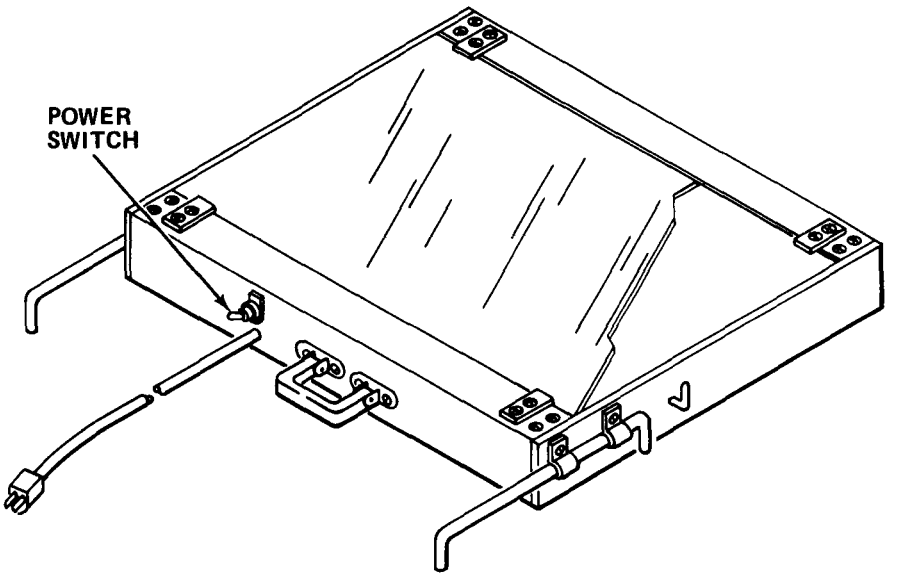
2-2.2 Equipment Data

Power Requirements	110 V, 60 Hz
Illumination	Two 30W fluorescent lamps
Work Surface	36.0 in. X 23.5 in. (91.4 cm X 59.7 cm)

2-3. TECHNICAL PRINCIPALSOF OPERATION. Principles of operation are combined with operator's controls and indicators for this equipment.

Section II OPERATING INSTRUCTIONS

2-4. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS.



Control or Indicator	Function
POWER SWITCH	Two-position toggle switch to control illumination.

2-5. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

a. Before You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your before (B) PMCS.

b. While You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your during (D) PMCS.

c. After You Operate. Be sure to perform your after (A) PMCS.

d. If your equipment fails to operate. Troubleshoot with proper equipment. Report any deficiencies using the proper forms. See DA Pam 738-750.

2-5.1 PMCS Procedures.

a. PMCS are designed to keep the equipment in good working condition by performing periodic-service tasks.

b. Service intervals provide you, the operator, with time schedules that determine when to perform specified service tasks.

c. The “Equipment is Not Ready/Available If” column is used for identification of conditions that make the equipment not ready/available for readiness reporting purposes or denies use of the equipment until corrective maintenance is performed.

d. If Your equipment fails to operate after PMCS is performed, immediately report this condition to your supervisor.

e. Perform weekly as well as before operation if you are the assigned operator and have not operated the item since the last weekly or if you are operating the item for the first time.

f. Item number column. Item numbers are assianed in chronological ascending sequence regardless of interval designation. These numbers are used for your "TM Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

g. Interval columns. This column determines the time period designated to perform your PMCS.

h. Item to be inspected and procedures column. This column lists functional groups and their respective assemblies and subassemblies as shown in the Maintenance Allocation Chart (Appendix B). The appropriate check or service procedure follows the specific item to be inspected.

i. Equipment is not ready/available if: column. This column indicates the reason or cause why your equipment is not ready/available to perform its primary mission.

j. List of tools and materials required for PMCS is as follows.

Item	Quantity
Cheesecloth (Item 3, Appendix E)	ar

Table 2-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES

NOTE

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

B - Before
D - During
A - After

W - Weekly
M - Monthly
Q - Quarterly

AN - Annually
s - Semiannually
BI - Biennially

(Number) - Hundreds of Hours

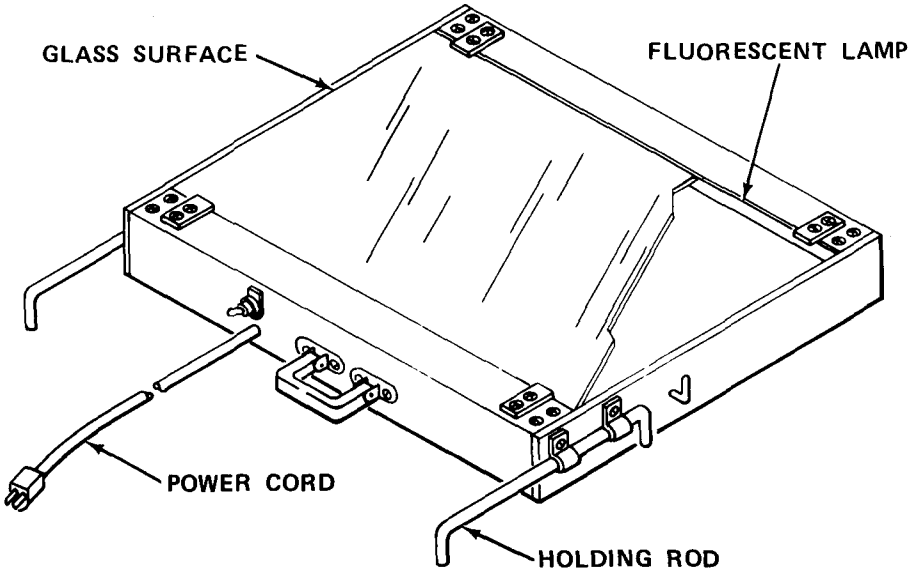
ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		PORTABLE TRACING/SCRIBING BOARD	
			
		Inspect/Clean.	
		WARNING Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.	
1	B	1. Rotate each holding rod to check for freedom of movement.	

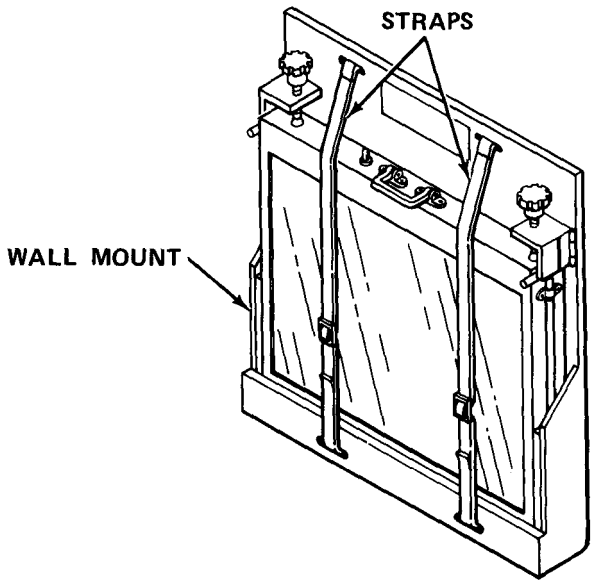
Table 2-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

B - Before D - During A - After | W . Weekly M . Monthly Q . Quarterly | AN - Annually S - Semiannually Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO.	IN-TER-VAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		PORTABLE TRACING/SCRIBING BOARD - Cont	
1	B	Inspect/Clean - Cont	
		2. Check power cord for kinks, frays, or burns. If power cord is defective, notify organizational maintenance.	Power cord is damaged.
		3. Check fluorescent lamps for partial lighting. Replace as needed (paragraph 3-10.2).	Fluorescent lamp is defective.
		4. Check glass surface for dust and dirt. Wipe glass surface with moistened cheesecloth. Wipe surface with clean dry cheesecloth to remove smears or streaks. Check glass surface for cracks or scratches. Replace as needed (paragraph 2-10.4).	Glass surface is cracked or scratched.

2-6. OPERATION UNDER USUAL CONDITIONS.

2-6.1 Assembly and Preparation for Use.



a. Remove portable tracing/scribing board from wall mount by loosening straps. Place board on work surface.

b. Plug in power cord, and turn power switch ON.

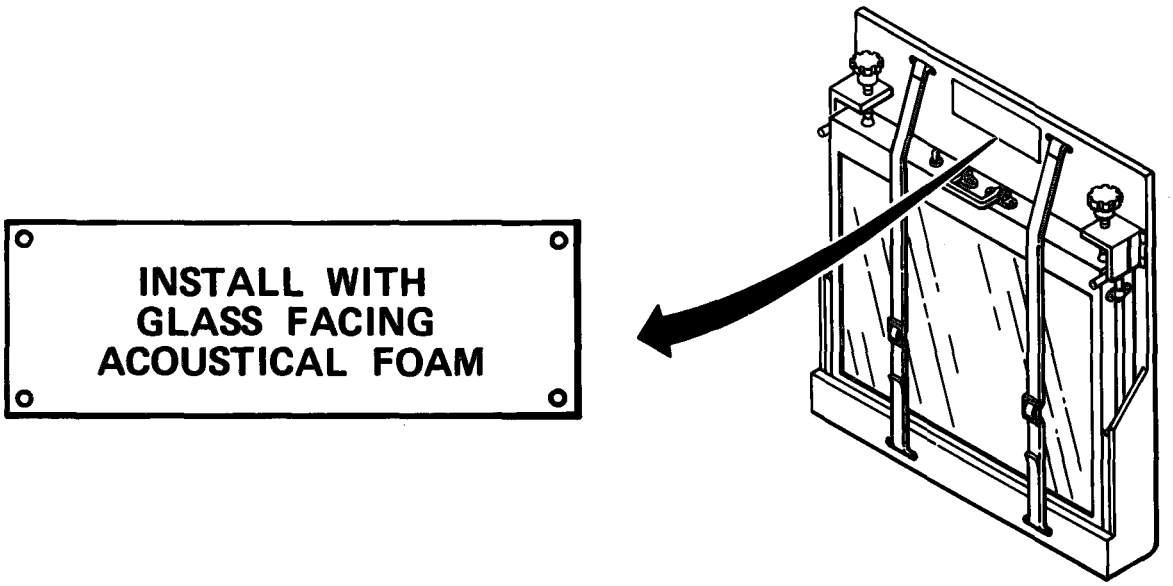
2-6.2 Preparation for Movement.

a. Turn power switch OFF, and unplug power cord.

b. Place board in wall mount with glass surface facing padded mount.

c. Secure board in wall mount with straps.

2-6.3 Operating Instructions on Decals and Instruction Plates.



2-7. OPERATION UNDER UNUSUAL CONDITIONS. This equipment is designed for operation only in a control led environment.

Section III OPERATOR MAINTENANCE

2-8. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

2-9. TROUBLESHOOTING PROCEDURES.

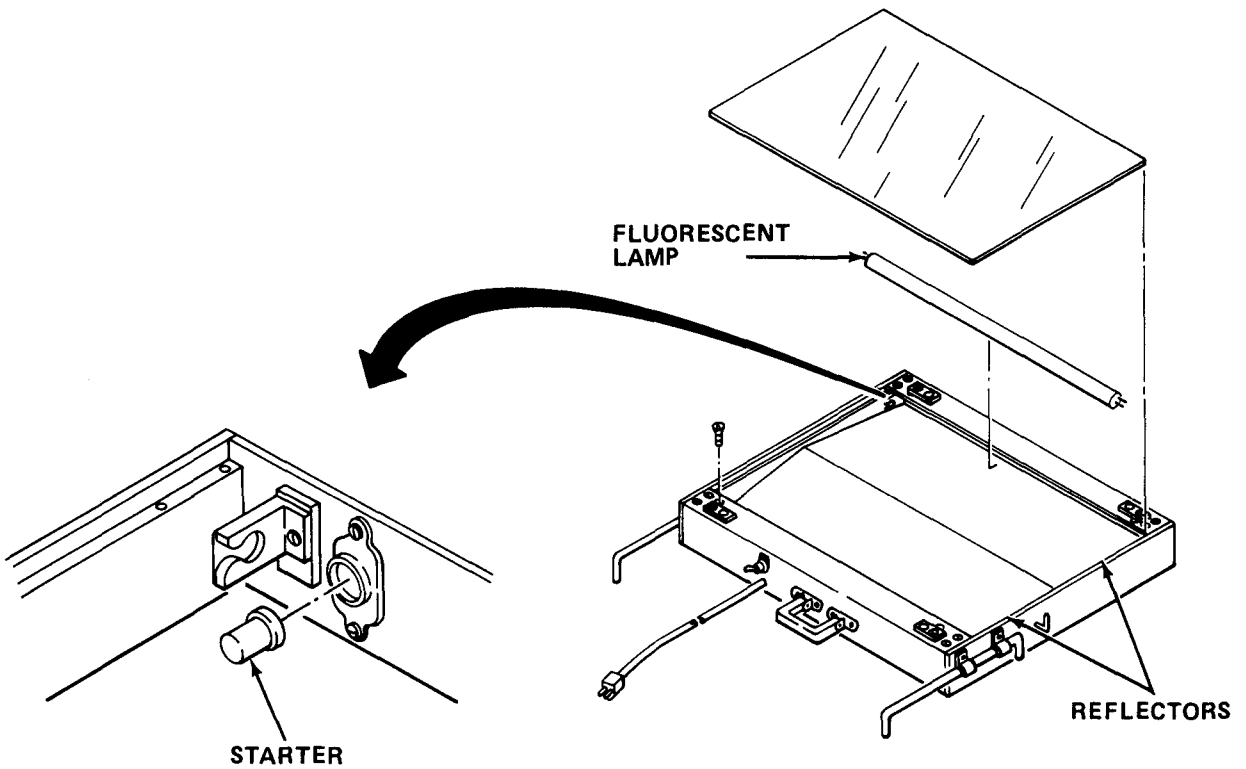
a. The table lists the common malfunctions which you may find during operation or maintenance of the portable tracing/scribing board, or its components. You should perform the test/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all test or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

Table 2-2. TROUBLESHOOTING

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION

1. ILLUMINATION UNEVEN.



WARNING

Use care when power is connected during inspections or corrective actions. Death or serious injury may result.

Step 1. Check to see if reflector behind fluorescent lamps is dirty.

Clean reflector (paragraph 2-10.1).

Table 2-2. TROUBLESHOOTING - Cont

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
1. ILLUMINATION UNEVEN - Cont
Step 2. Check to see if one fluorescent lamp is partially lighted or is dark. Replace fluorescent 1 amp (paragraph 3-10.2).
Step 3. Check to see if either fluorescent lamp is partially lighted. Replace defective starter (paragraph 3-10.3).

2-10. MAINTENANCE PROCEDURES.

a. This section contains instructions covering operator maintenance functions for the portable tracing/scribing board. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

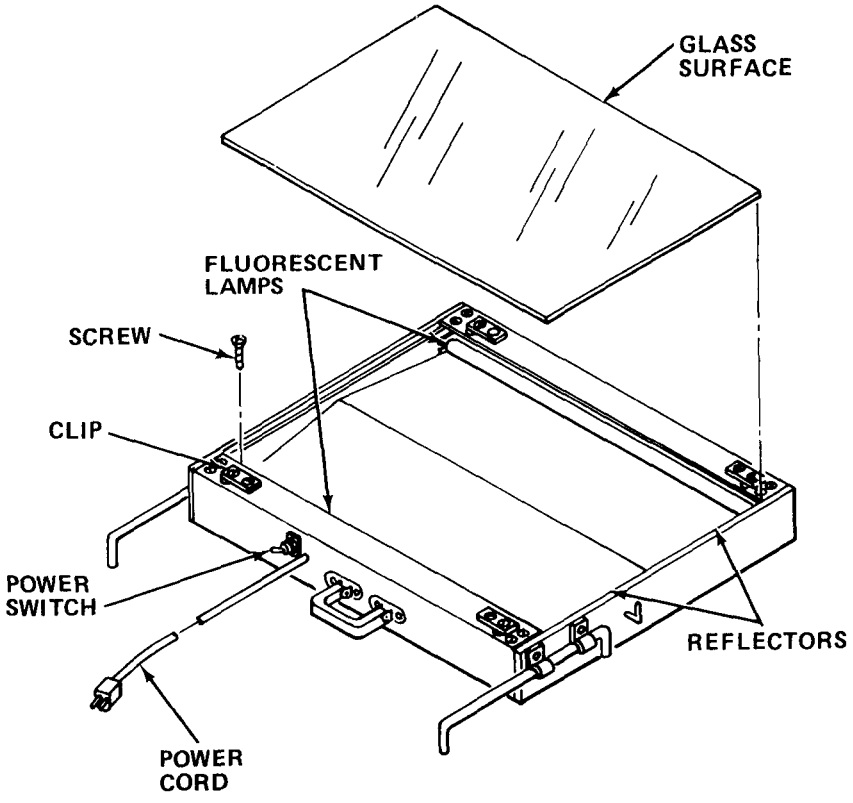
INDEX

2-10.1 Clean Reflector.

MOS: 81C, Cartographer

TOOLS: Cross Tip Screwdriver
Vacuum Cleaner

SUPPLIES: Cheesecloth (Item 12, Appendix E)



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF, and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws

c. Turn clips 90° to right or left.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface.

e. Vacuum reflector surface and fluorescent lamps with brush attachment on vacuum cleaner.

NOTE

Be sure fluorescent lamps are secure in their sockets.

f. Wipe reflector and lamps with moistened cheesecloth.

g. Wipe or vacuum both sides of glass surface.

h. Reinstall glass surface.

i. Turn clips to secure glass surface. Aline holes and reinstall screws. Tighten all screws.

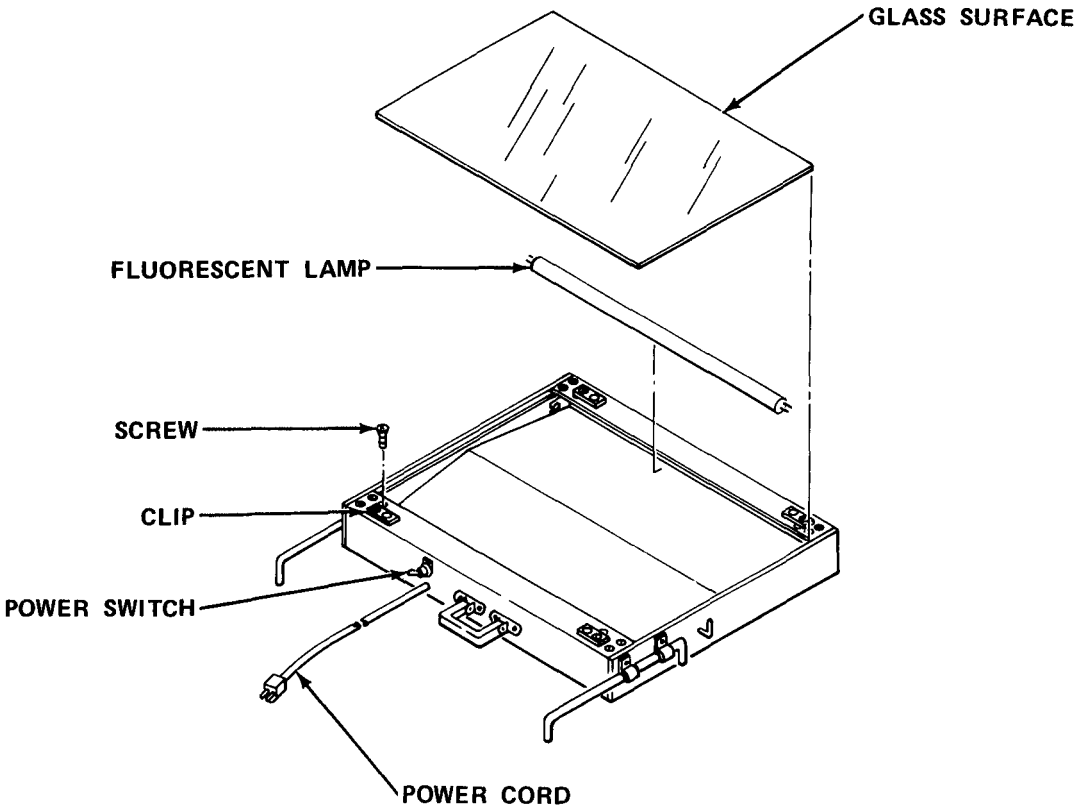
j. Plug in power cord and turn power switch ON.

2-10.2 Replace Fluorescent Lamp.

MOS: 81C, Cartographer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Fluorescent Lamp (30 W)



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

co Turn clips 90° to right or left.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface.

e. Remove defective fluorescent lamp.

f. Install new fluorescent lamp.

g. Reinstall glass surface.

h. Turn clips to secure glass surface. Aline holes and reinstall screws. Tighten all screws.

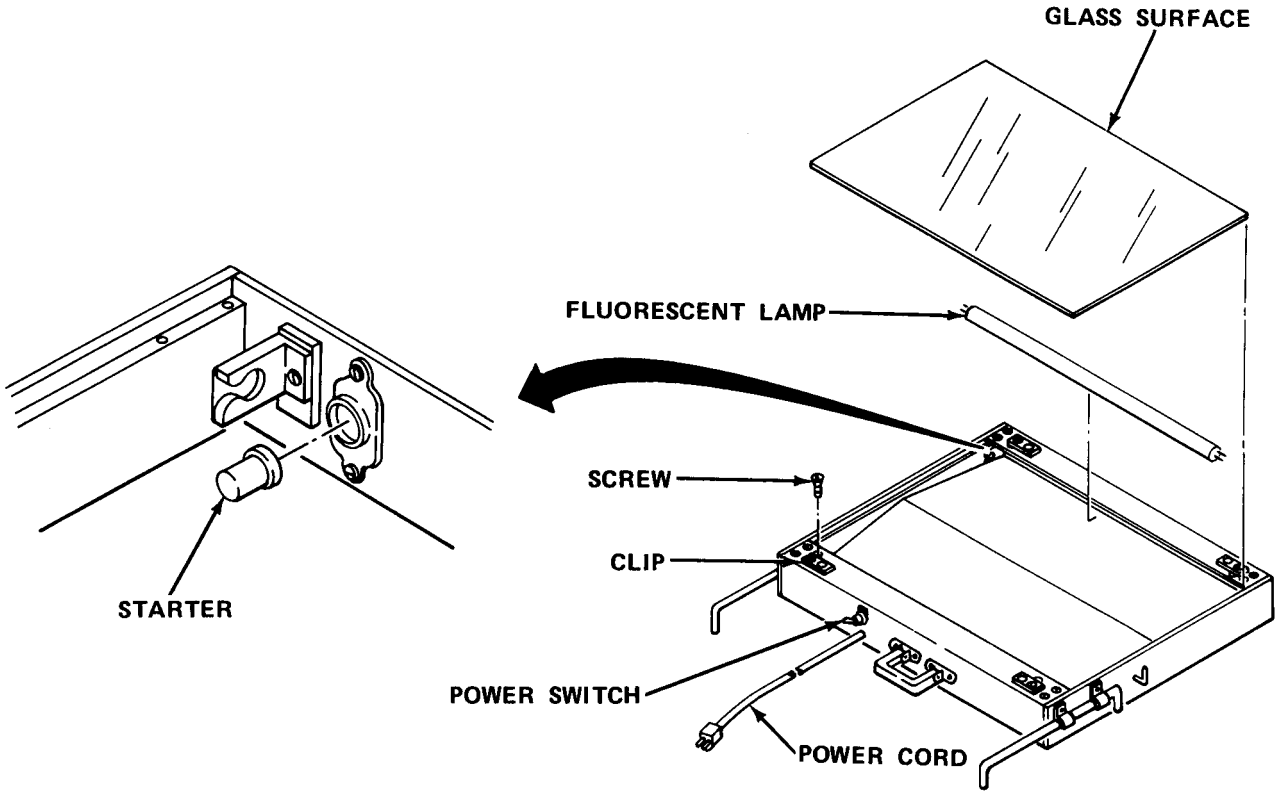
i. Plug in power cord and turn power switch ON.

2-10.3 Replace Starter.

MOS : 81C, Cartographer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Starter



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

c. Turn clips 90° to right or left.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface.

e. Remove fluorescent lamp in front of starter.

f. Remove starter by pushing in and turning left until free.

g. Install new starter in socket by pushing in and turning right until locked.

h. Reinstall fluorescent lamp.

i. Reinstall glass surface.

j. Turn clips to secure glass surface. Aline holes and reinstall screws. Tighten all screws.

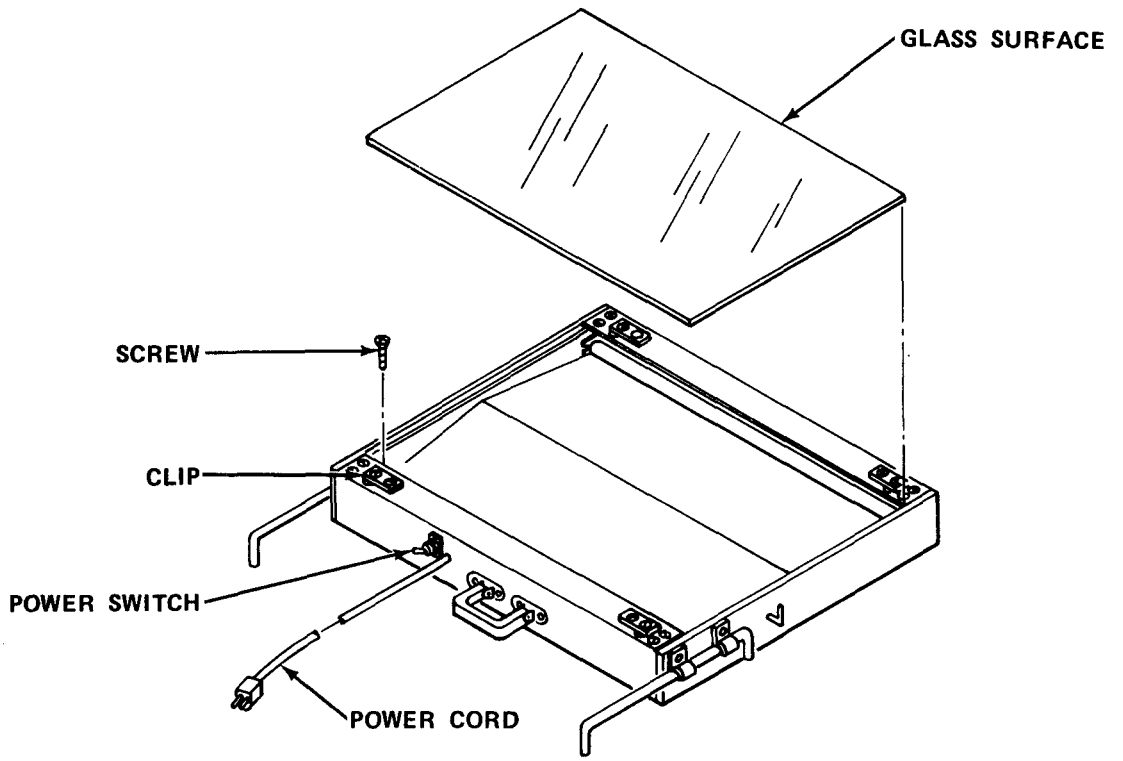
k. Plug in power cord and turn power switch ON.

2-10.4 Replace Glass Surface.

MOS : 81C, Cartographer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Glass Surface



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

c. Turn clips 90° to left or right.

WARNING

Use care when handling damaged glass. Failure to do so may result in serious cuts.

d. Remove damaged glass surface.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

e. Install new glass surface.

f. Turn clips to secure glass surface. Aline holes and reinstall screws. Tighten all screws.

g. Plug in power cord and turn power switch ON.

Section IV ORGANIZATIONAL MAINTENANCE

2-11. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

2-12. REPAIR PARTS, SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT; AND SUPPORT EQUIPMENT.

2-12.1 Common Tools and Equipment. For authorized common tools and equipment, refer to the Modified Table ot Organization and Equipment (MTOE) applicable to your unit.

2-12.2 Special Tools; Test, Measurement, and Diagnostic Equipment; and Support Equipment. Special Tools, TMDE, and Support Equipment is listed in the applicable repair parts and special tools list and in Appendix B of this manual.

2-12.3 Repair Parts. Repair parts are listed and illustrated in the Repair Parts and Special Tools List, TM 5-6675-314-24P covering organizational maintenance for this equipment.

2-13. SERVICE UPON RECEIPT.

2-13.1 Checking Unpacked Equipment.

a. Inspect the equipment for damage incurred during shipment. If equipment has been damaged, report the damage on DD Form 6, Packing Improvement Report.

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

c. Check to see whether the equipment has been modified.

2-14. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES. There are no organizational PMCS procedures assigned for this equipment.

2-15. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES. There are no organizational troubleshooting procedures assigned for this equipment.

2-16. ORGANIZATIONAL MAINTENANCE PROCEDURES.

a. This section contains instructions covering organizational maintenance functions for the portable tracing/scribing board. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

NOTE

The maintenance procedures for the portable tracing/scribing board consist of replacing three different electrical components. A multimeter is needed to determine which component is defective and needs replacement.

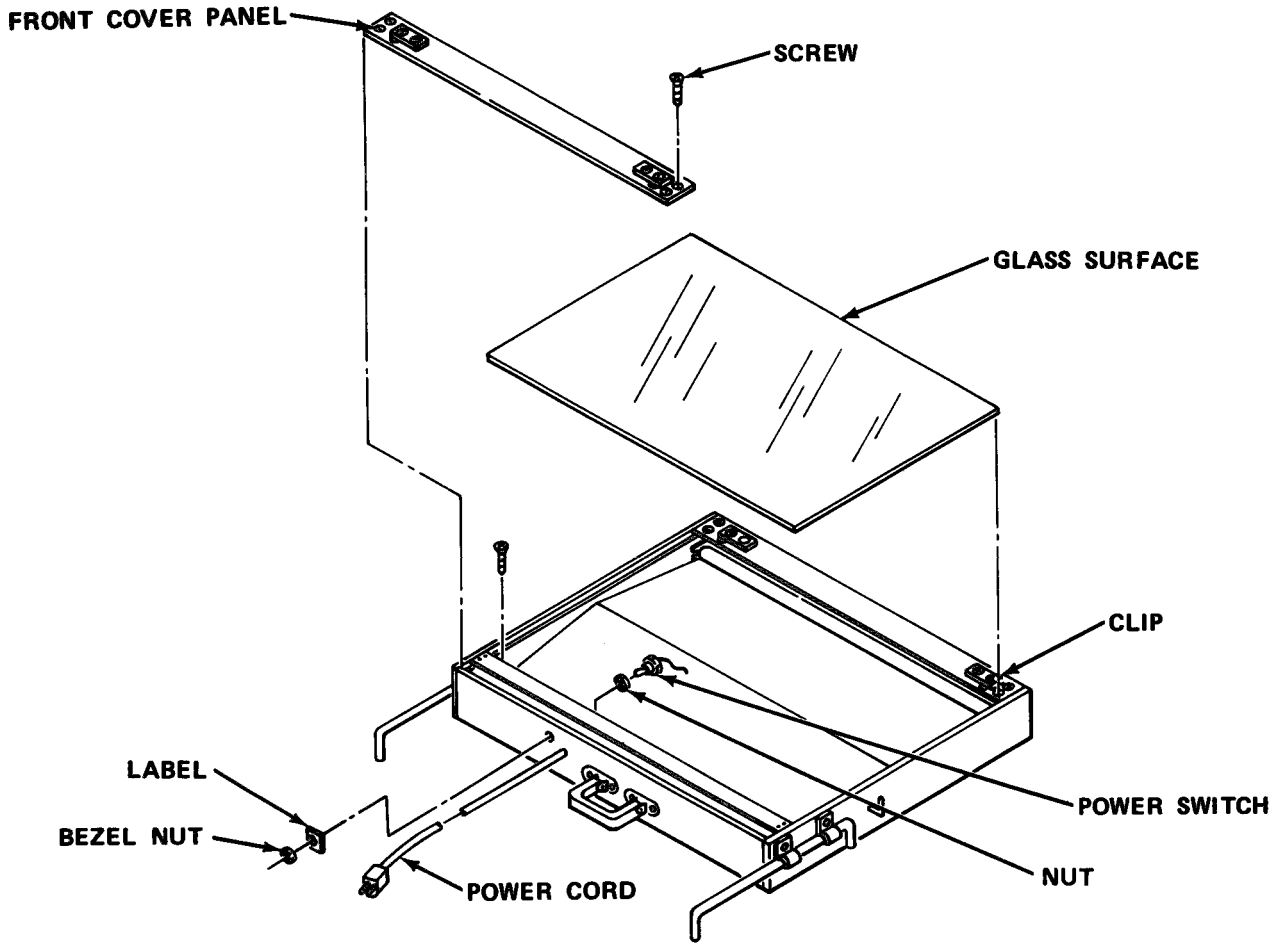
INDEX

2-16.1 Replace Power Switch.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
Flat Tip Screwdriver
6 in. Adjustable Wrench

SUPPLIES: Power Switch



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

c. Turn clips 90° to left or right.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface and set aside.

e. Remove screws and front cover panel.

f. Remove bezel nut, label, and nut from power switch.

NOTE

Ground wire is not connected to switch. Mark position for reinstallation.

g. To remove defective power switch, pull to inside of board. Tag and disconnect wires.

h. Remove defective switch.

i. Connect wiring to new power switch and remove tags.

j. Reinstall nut, label, and bezel nut. Adjust for proper positioning of power switch.

k. Reinstall front cover panel and secure with screws.

l. Reinstall glass surface.

m. Turn clips 90° to secure glass surface.

n. Reinstall screws on clips. Tighten all screws.

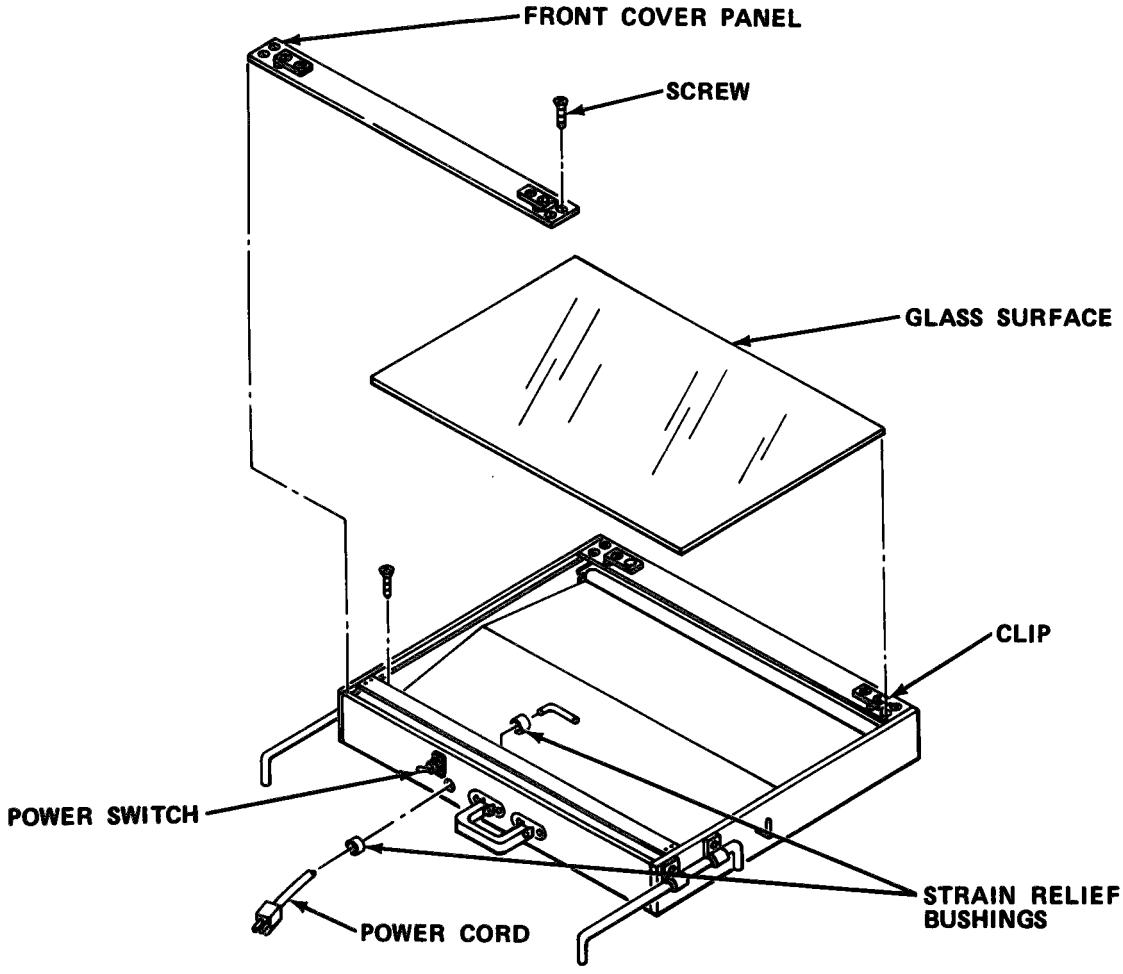
o. Plug in power cord and turn power switch ON.

2-16.2 Replace Power Cord.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver
Needle Nose Pliers

SUPPLIES: Power Cord



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

c. Turn clips 90° to left or right.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface and set aside.

e. Remove screws and front cover panel.

f. Tag and disconnect wires.

g. Remove inner and outer strain relief bushings and remove defective power cord.

h. Reinstall inner and outer strain relief bushings on new power cord.

i. To install, connect wires to power cord and remove tags.

j. Reinstall front cover panel and secure with screws.

k. Reinstall glass surface.

l. Turn clips 90° to secure glass surface.

m. Reinstall screws on clips. Tighten all screws.

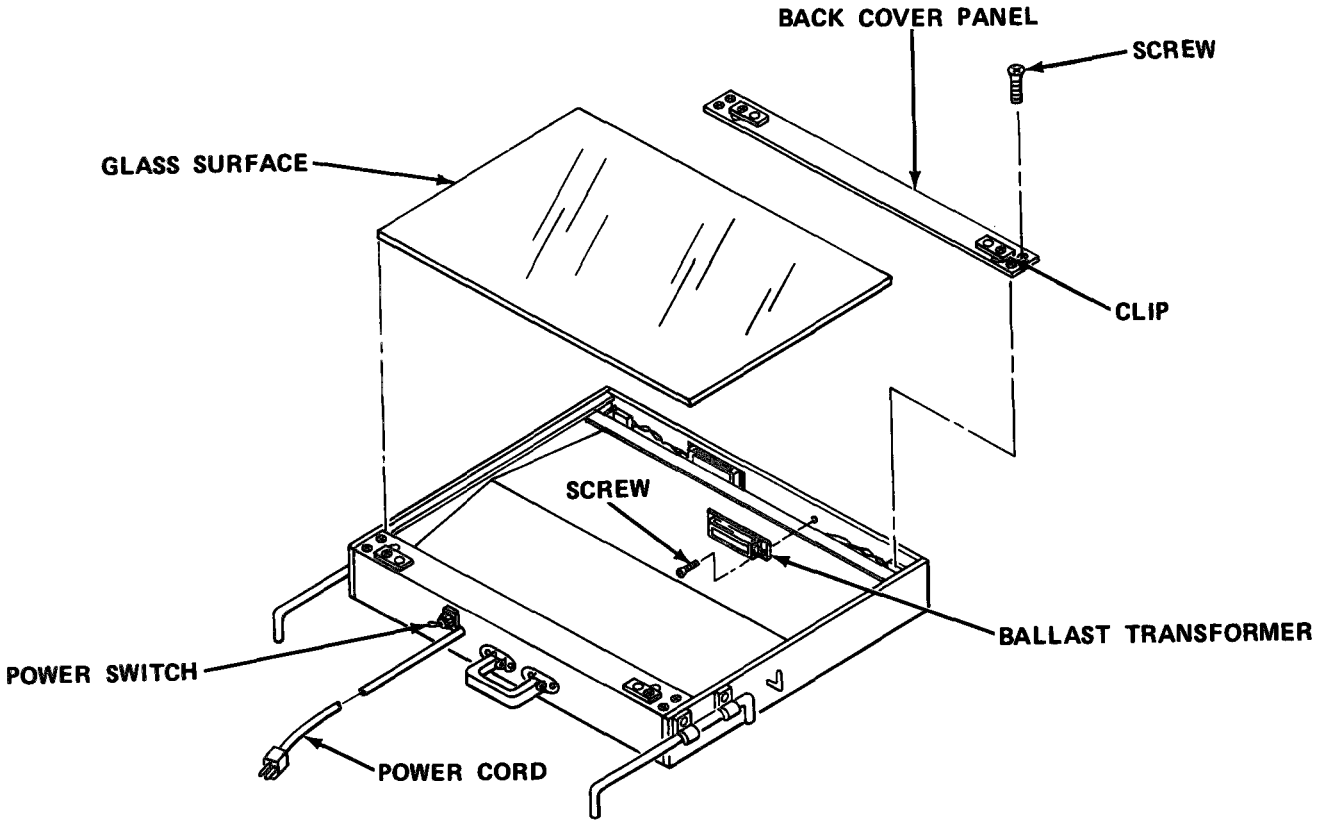
n. Plug in power cord and turn power switch ON.

2-16.3 Replace Ballast Transformer.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Ballast Transformer



WARNING

Death or serious injury may occur from electrical shock unless power cord is unplugged before servicing.

a. Turn power switch OFF and unplug power cord.

b. Remove one screw from each of four clips. Loosen other screws.

c. Turn clips 90° to left or right.

CAUTION

Glass surface must be handled with care to avoid chipping or breaking.

d. Remove glass surface and set aside.

e. Remove screws and back cover panel.

f. Remove screws and defective ballast transformer.

g. Disconnect and tag wires from ballast transformer.

h. Connect wiring on new ballast transformer and remove tags.

i. Install new ballast transformer and secure with screws.

j. Reinstall back cover panel and secure with screws.

k. Reinstall glass surface.

l. Turn clips 90° to secure glass surface.

m. Reinstall screws on clips. Tighten all screws.

n. Plug in power cord and turn power switch ON.

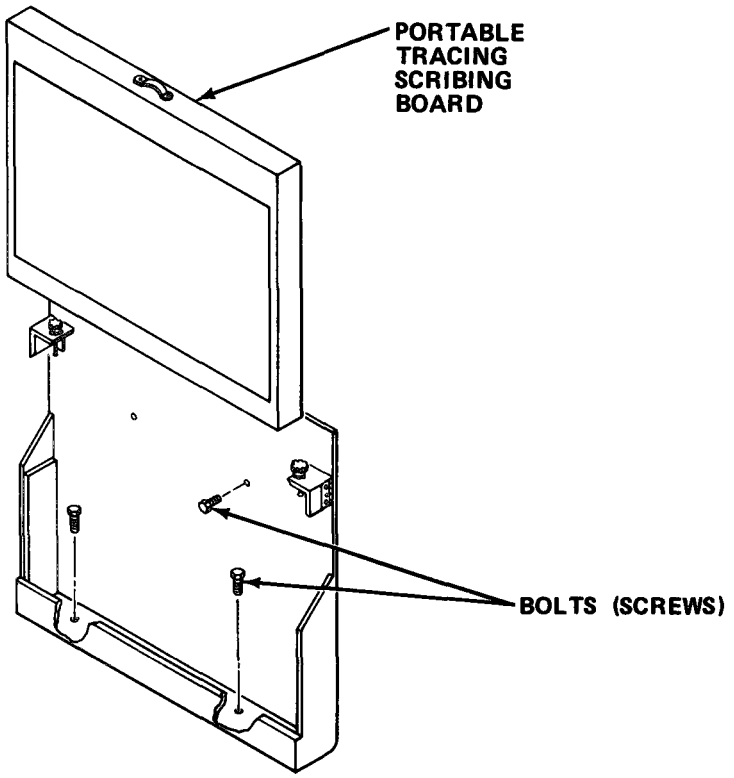
2-16.4 Remove/Install Mounting Bracket.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 1/4 in. Socket Set/Cross Tip Screwdriver

SUPPLIES: Mounting Bracket

a. Remove portable tracing/scribing board from mounting bracket.



b. Remove attaching hardware securing defective mounting bracket to wall.

c. Remove attaching hardware securing defective mounting bracket to floor.

d. Remove defective mounting bracket.

e. Secure new mounting bracket to wall with attaching hardware.

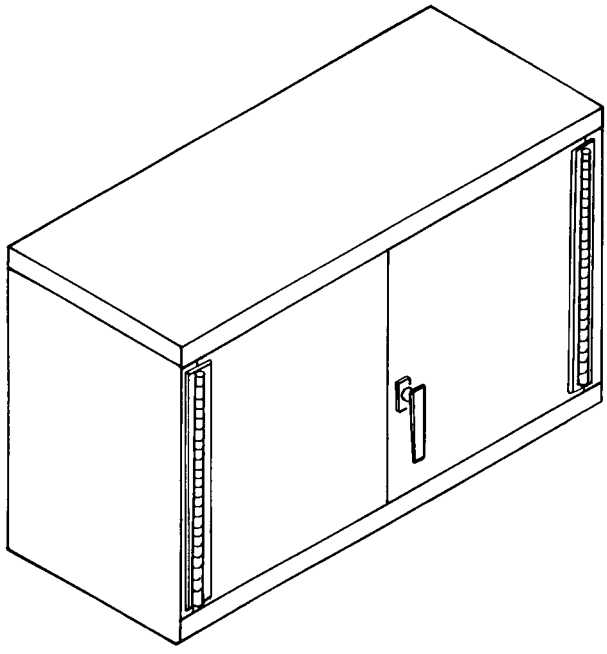
f. Secure new mounting bracket to floor with attaching hardware.

g. Reinstall portable tracing/scribing board.

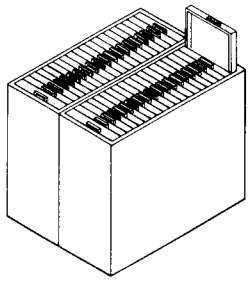
2-17. PREPARATION FOR STORAGE OR SHIPMENT. Contact your battalion for packing and shipping instructions.

Section V DIRECT/GENERAL SUPPORT MAINTENANCE

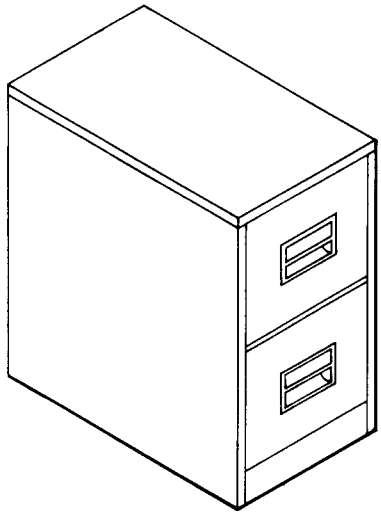
There are no direct/ general support maintenance procedures assigned for this equipment.



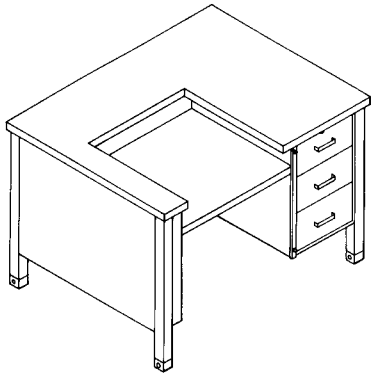
WALL STORAGE CABINET



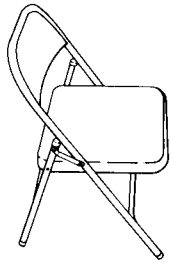
VISIBLE
INDEX
FILE



FILING
CABINET

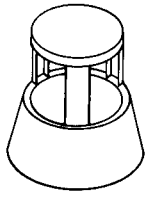


TYPEWRITER DESK

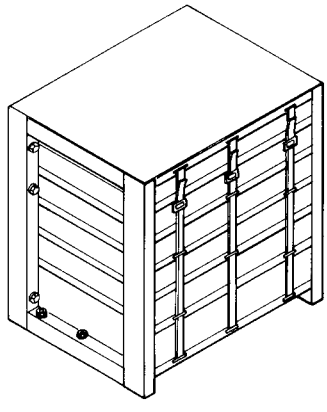


FOLDING
CHAIR

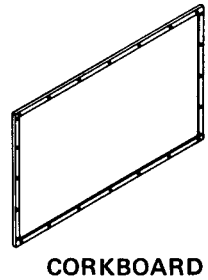
ROTARY
DESK CHAIR



STEP
STOOL



STORAGE SHELVES



CORKBOARD

CHAPTER 3

FURNITURE AND CABINETS

Section I INTRODUCTION

3-1. GENERAL INFORMATION.

3-1.1 Scope This chapter contains the description of all furniture and cabinets contained in this section.

3-2. EQUIPMENT DESCRIPTION.

a. WALL STORAGE CABINET. Used for miscellaneous storage. The two doors are held shut by a handle-type latch. Dimensions:

Width	30.0 in. (76.2 cm)
Depth	12.0 in. (30.5 cm)
Height	18.0 in. (45.7 cm)

b. VISIBLE INDEX FILE. Provides quick reference storage for index cards. Each of the 19 sliding drawers contain 64 card pockets. Cabinet has a top lid and a built-in lock. Dimensions:

Width	11.31 in. (28.72 cm)
Depth	28.69 in. (72.87 cm)
Height	28.44 in. (72.23 cm)

FILING CABINET. Used for the storage of legal-sized documents, correspodence, and office supplies. There are two drawers with individual latches. Dimensions:

Width	18.5 in. (47.0 cm)
Depth	28.0 in. (71.1 cm)
Height	29.25 in. (74.30 cm)

d. TYPEWRITER DESK. Provides a typing area and general work space for clerical personnel. The typewriter mounts on a section of the desk top which can be flipped over to convert to a flat work area. There are three drawers and a pull-out writing table. The three drawers can be secured by a locking bar. Dimensions:

Width	45.0 in. (114.3 cm)
Depth	34.0 in. (86.4 cm)
Height	30.50 in. (77.47 cm)

e. FOLDING CHAIR. Provides general seating. Folds flat for storage. Dimensions:

Width	18.0 in. (45.7 cm)
Depth	20.0 in. (50.8 cm)
Height	32.0 in. (81.3 cm)

f. ROTARY DESK CHAIR. Provides seating for personnel working at desk. It has a 3.75 in. (9.52 cm) seat height adjustment, ball bearing casters, tilt movement tension adjustment, and adjustable back height. Dimensions:

Width	20.0 in. (50.8 cm)
Depth	21.0 in. (53.3 cm)
Height	32.0 in. (81.3 cm)

g. STEP STOOL. Consists of a caster-mounted frame with two step levels. It will roll freely when unweighed and becomes stationary when a slight weight is applied. Dimensions:

Height	16.0 in. (40.6 cm)

h. STORAGE SHELVES. Consist of three different sizes. Used for storage of maps.

Width	38.0 in. (96.5 cm)
Depth	29.0 in. (73.7 cm)
Height	72.0 in. (182.9 cm)

Width	38.0 in. (96.5 cm)
Depth	25.0 in. (63.5 cm)
Height	72.0 in. (182.9 cm)

Width	38.0 in. (96.5 cm)
Depth	29.0 in. (73.7 cm)
Height	40.0 in. (101.6 cm)

i. CORKBOARD. Wall mounted. Dimensions:

Width	60.0	in. (152.4 cm)
Height	36.0	in. (91.4 cm)
Width	18.0	in. (45.7 cm)
Height	30.0	in. (76.2 cm)

3-3. TECHNICAL PRINCIPLES OF OPERATION. There are no specific principles of operation for this equipment.

Section II OPERATING INSTRUCTIONS

3-4. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS. This equipment has no operator's controls or indicators.

3-5. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES. There are no operator PMCS procedures assigned for this equipment.

3-6. OPERATION UNDER USUAL CONDITIONS.

3-6.1 Preparation For Movement. Ensure that portable equipment is properly secured with provided tiedowns.

3-7. OPERATION UNDER UNUSUAL CONDITIONS. There are no specific requirements for operation under unusual conditions.

Section III OPERATOR MAINTENANCE

3-8. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

3-9. TROUBLESHOOTING PROCEDURES. There are no operator troubleshooting procedures assigned for this equipment.

3-10. MAINTENANCE PROCEDURES.

a. This section contains instructions covering operator maintenance functions for the cabinets and furniture. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

3-10.1 Inspect Cabinets and Furniture. Inspect cabinets and furniture for structural damage, rust, and proper operation of all latches, hinges, drawer slides, and adjustment mechanisms.

Section IV ORGANIZATIONAL MAINTENANCE

3-11. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

3-12. REPAIR PARTS, SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT; AND SUPPORT EQUIPMENT.

3-12.1 Common Tools and Equipment. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

3-12.2 Special Tools; Test, Measurement, and Diagnostic Equipment; and Support Equipment. Special Tools, TMDE, and Support Equipment is listed in the applicable repair parts and special tools list and in Appendix B of this manual.

3-12.3 Repair Parts. Repair parts are listed and illustrated in the Repair Parts and Special Tools list, TM 5-6675-314-24P covering organizational maintenance for this equipment.

3-13. SERVICE UPON RECEIPT.

3-13.1 Checking Unpacked Equipment.

a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6, Packing Improvement Report.

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

c. Check to see whether the equipment has been modified.

3-14. ORGANIZATIONAL PREVENTWE MAINTENANCE CHECKS AND SERVICES. There are no organizational PMCS procedures assigned for this equipment.

3-15. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES. There are no organizational troubleshooting procedures assigned for this equipment.

3-16. MAINTENANCE PROCEDURES.

a. This section contains instructions covering organizational maintenance functions for the cabinets and furniture. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

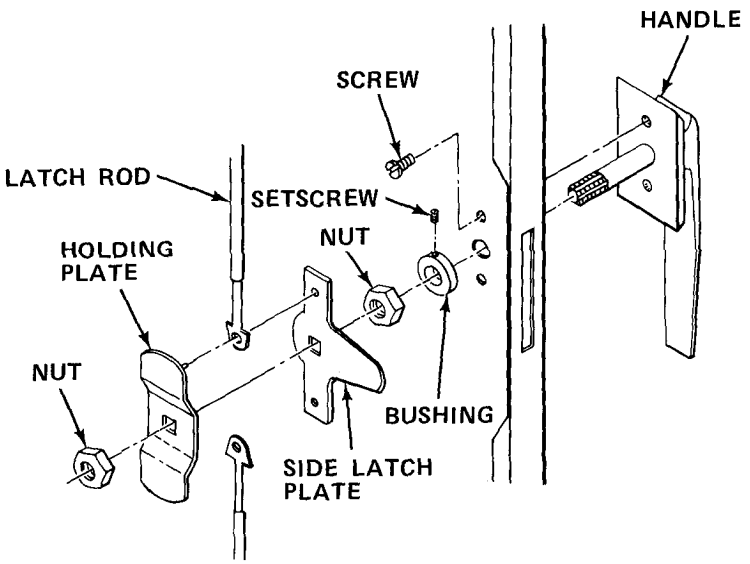
INDEX

3-16.1 Replace Door Latch (Wall Storage Cabinet).

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 9/16 in. Combination Wrench
Flat Tip Screwdriver

SUPPLIES: Handle-Type Latch



a. Remove holding plate retaining nut.

b. Remove holding plate and latch rods.

c. Remove side latch plate.

d. Remove handle retaining nut.

e. Loosen setscrew and remove bushing from handle shaft.

f. Remove two handle retaining screws and remove handle.

g. Install new handle and secure with two screws.

h. Reinstall bushing on handle shaft and tighten setscrew.

i. Reinstall handle retaining nut.

j. Reinstall side latch plate.

k. Reinstall latch rod holding plate and latch rods.

l. Reinstall holding plate retaining nut.

3-16.2 Replace Door Hinge {Piano Hinge).

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 1/4 in. Electric Drill
5/32 in. Drill Bit
Pop Rivet Gun

SUPPLIES: Door Hinge (Piano Hinge)
5/32 in. Pop Rivets
8-32 x 1/2 in. Screws (4 required)
8-32 Nuts (4 required)

a. Drill out rivets holding hinge to cabinet and remove hinge.

b. Install new hinge and temporarily secure with four screws and nuts.

c. Close and latch cabinet door and install 12 pop rivets.

d. Remove temporarily installed screws and nuts, and install remaining pop rivets.

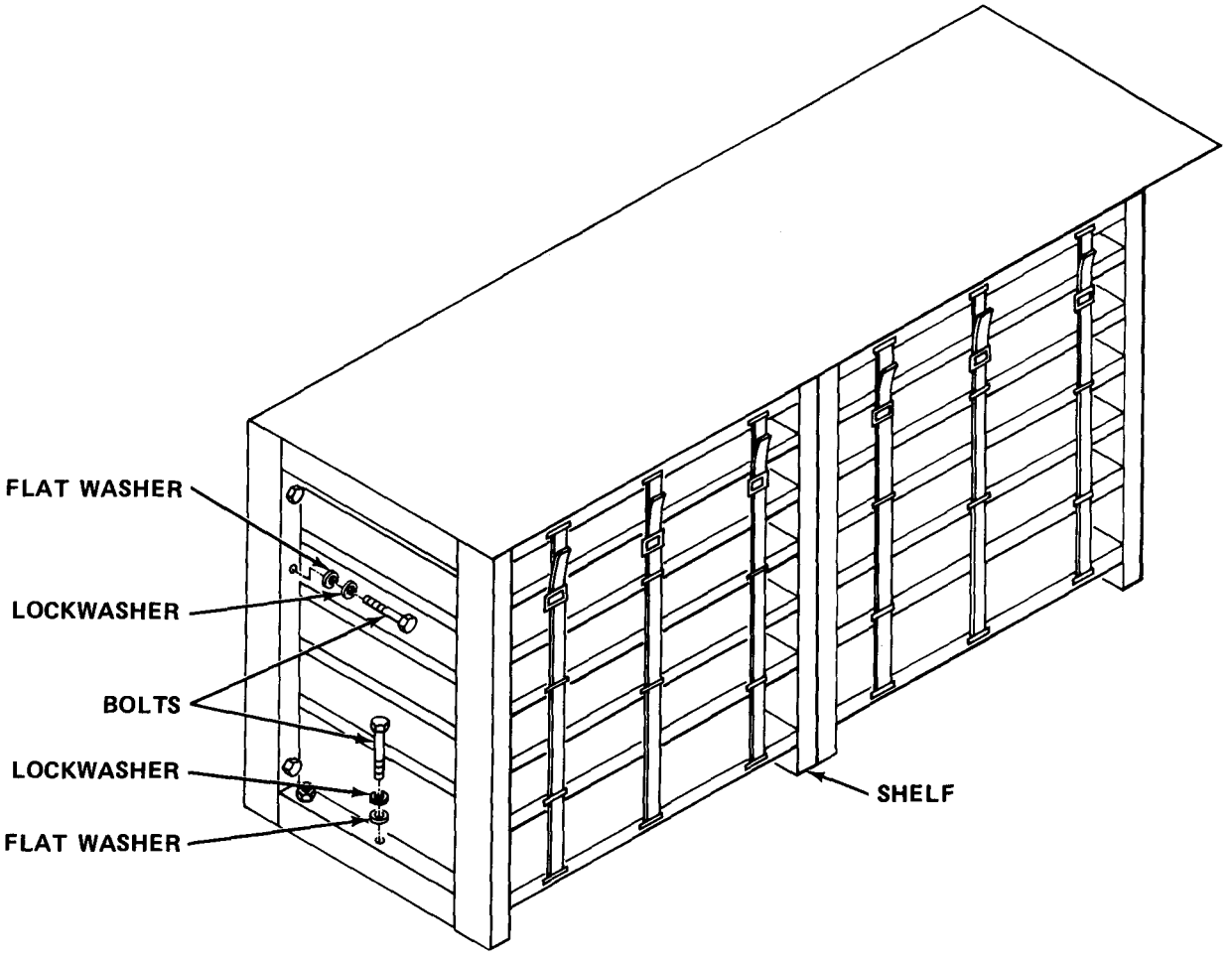
3-16.3 Remove/Install Storage Shelves.

MOS: 83FJ6, Reproduction Equipment Repairer

PERSONNEL: Two persons are required to perform this procedure.

TOOLS: 1/2 in. Drive Ratchet
3/4 in. Socket, 1/2 in. Drive
1/2 in. Socket, 1/2 in. Drive

SUPPLIES: Storage Shelf



a. Remove bolts, lockwashers, and flat washers securing defective shelf to wall.

b. Remove bolts and flat washers securing defective shelf to floor.

c. Remove defective shelf.

d. Position new shelf in place and secure to floor with flat washers and bolts.

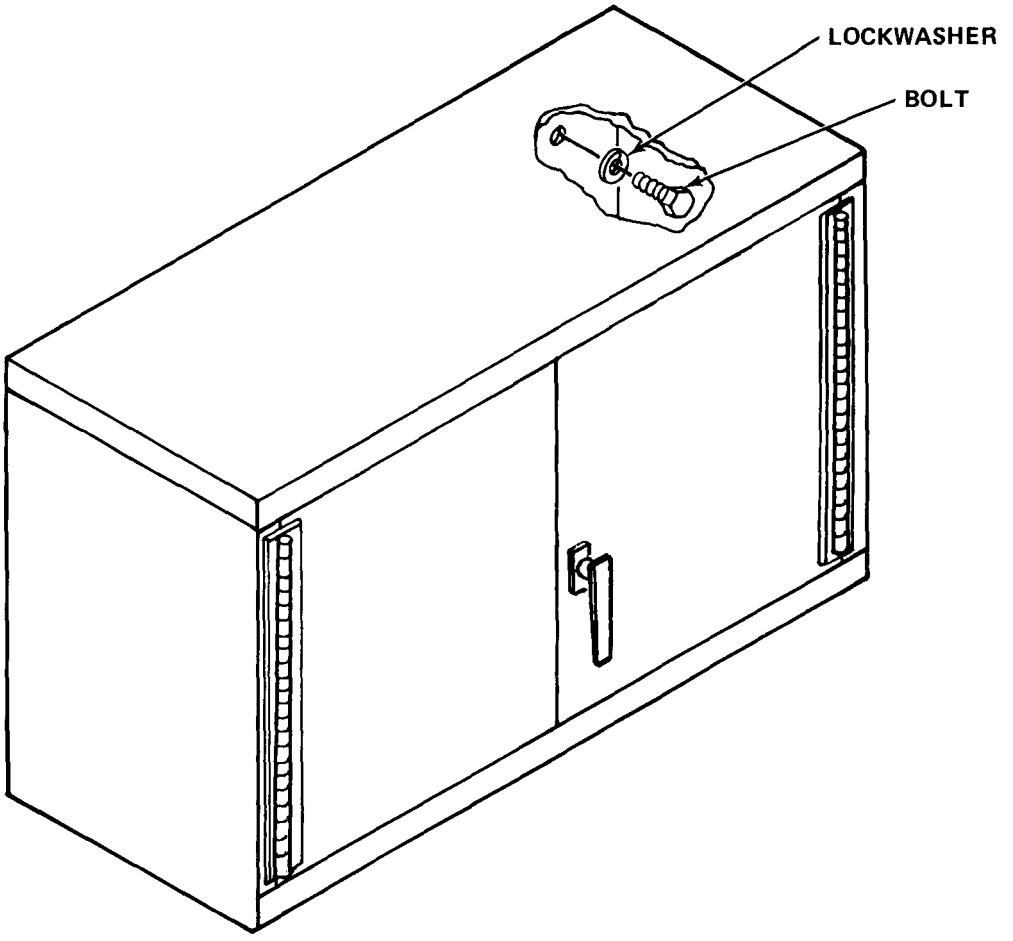
e. Secure new shelf to wall with flat washers, lockwashers, and bolts.

3-16.4 Remove/Install Wall Storage Cabinet.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 1/2 in. Drive Ratchet
2 in. Socket Extension, 1/2 in. Drive
1/2 in. Socket, 1/2 in. Drive

SUPPLIES: Wall Storage Cabinet



a. Remove bolts and lockwashers securing defective wall storage cabinet to wall.

b. Remove defective wall storage cabinet.

c. Install new wall storage cabinet and secure to wall with lockwashers and bolts.

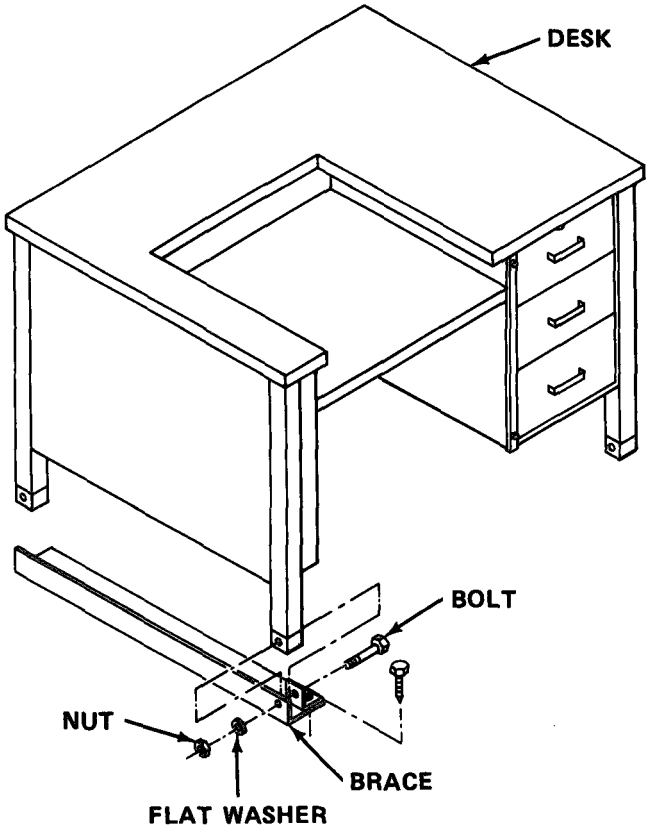
3-16.5 Remove/Install Typewriter Desk.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 1/4 in. Drive Ratchet
1/2 in. Socket, 1/4 in. Drive
3 in. Extension, 1/4 in. Drive

SUPPLIES: Typewriter Desk

a. Remove typewriter (paragraph 4-16.2).



b. Remove bolts, flat washers, nuts, and braces from desk legs.

c. Remove defective desk.

d. Position new desk and aline holes with mounting brackets.

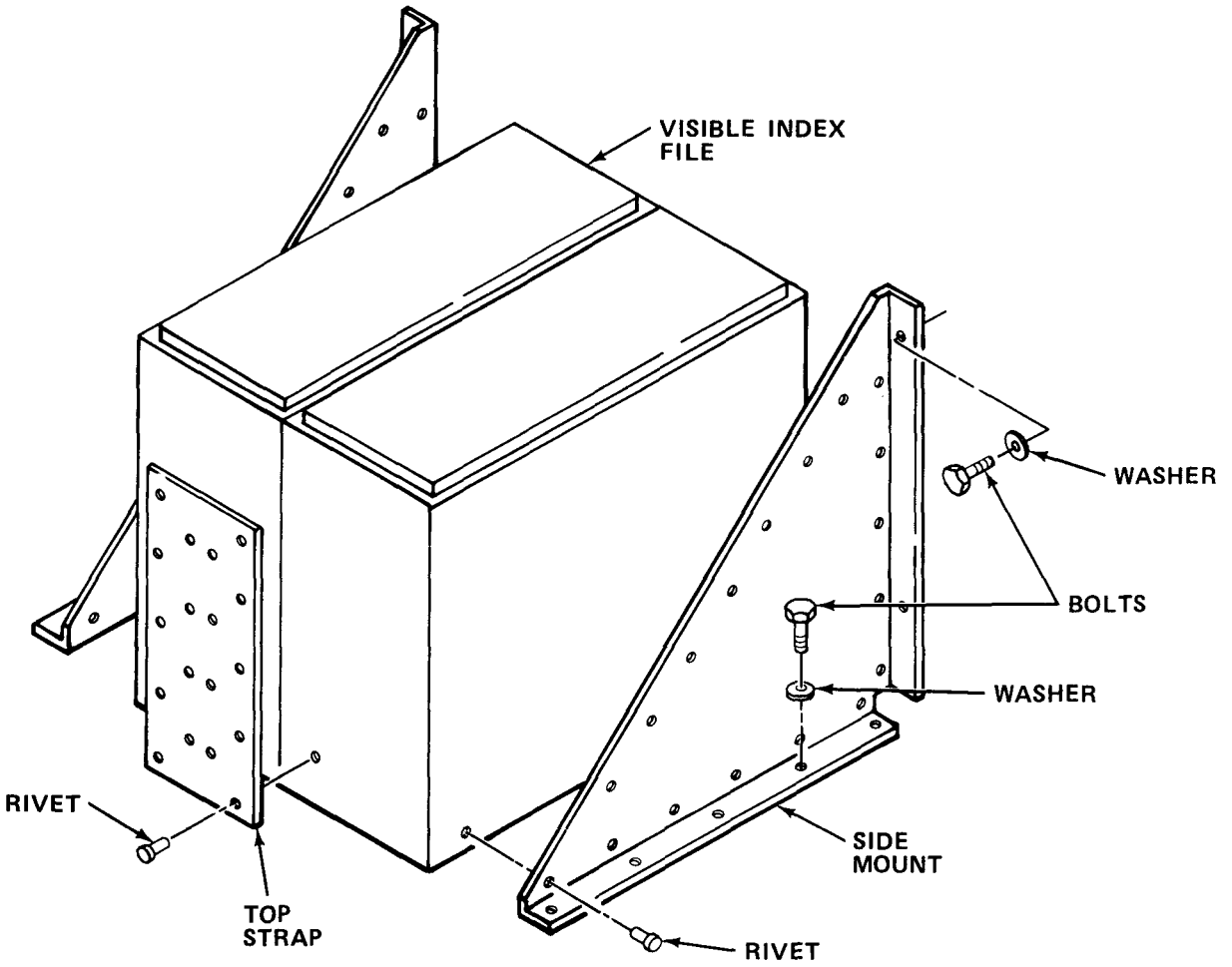
e. Secure desk with braces, nuts, flat washers, and bolts.

3-16.6 Remove/Install Visible Index File.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Electric Drill
Pop Rivet Gun
1/4 in. Drive Ratchet
1/2 in. Socket, 1/4 in. Drive
Drill Index

SUPPLIES: Pop Rivets
Visible Index File



a. Remove bolts securing side mounts to floor.

b. Remove bolts and washers securing side mounts to wall.

c. Remove pop rivets from top strap and side mounts.

d. Remove both sections of defective visible index file.

e. Using top strap as a guide, drill holes in both sections of new visible index file.

f. Pop rivet top plate to new sections of visible index file.

g. Using side mounts as guides, drill holes in both sections of new visible index file.

h. Pop rivet side mounts to new sections of visible index file.

i. Secure visible index file to wall with washers and bolts.

j. Secure visible index file to floor with bolts.

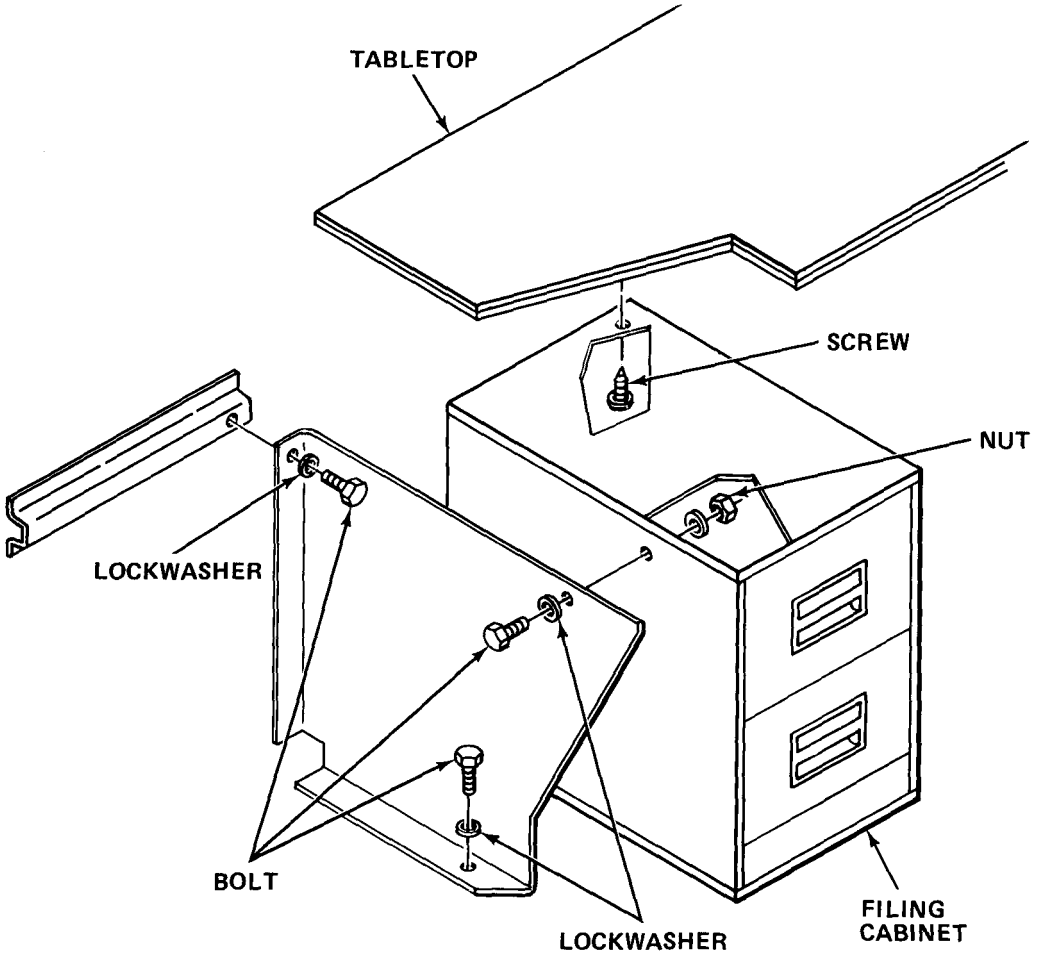
3-16.7 Remove/Install Filing Cabinet.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 1/4 in. Drive Ratchet
1/2 in. Socket, 1/4 in. Drive
3/8 in. Socket, 1/4 in. Drive
Cross Tip Screwdriver
Electric Drill
Drill Index

SUPPLIES: Filing Cabinet
Pop Rivets

a. Side panel mounted.



(1) Remove drawers from defective filing cabinet.

(2) Remove screws securing table top to defective filing cabinet.

(3) Remove bolts and lockwashers securing side panels to wall.

(4) Remove bolts and lockwashers securing side panels to floor.

(5) Remove bolts, lockwashers, and nuts securing side panels to filing

(6) Remove defective filing cabinet.

(7) Remove drawers from new filing cabinet.

(8) Using side panels as guides, drill holes in new filing cabinet.

(9) Drill holes in top of new filing cabinet for securing table top.

(10) Secure side panels to new filing cabinet using nuts, lockwashers, and bolts.

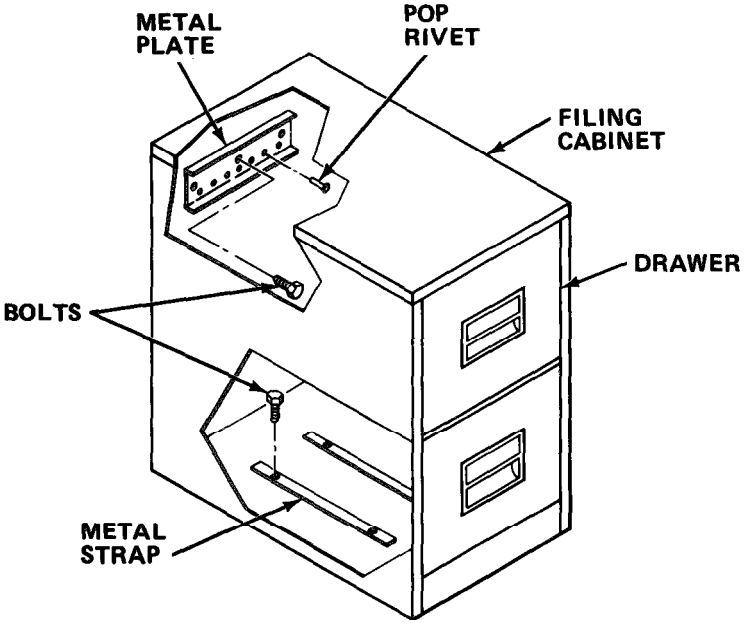
(11) Secure new filing cabinet to floor using lockwashers and bolts.

(12) Secure new filing cabinet to wall using lockwashers and bolts.

(13) Secure table top to new filing cabinet using screws.

(14) Install drawers in new filing cabinet.

b. Direct mounted.



(1) Remove drawers from defective filing cabinet.

(2) Remove bolts and lockwashers securing defective filing cabinet to wall.

(3) Remove metal plate from back of defective filing cabinet.

(4) Remove bolts and lockwashers securing defective filing cabinet to floor.

(5) Remove metal straps from bottom of defective filing cabinet.

(6) Remove defective filing cabinet.

(7) Remove drawers from new filing cabinet.

(8) Drill holes in new filing cabinet at locations required for mounting.

(9) Secure new filing cabinet to floor using metal straps, lockwashers, and bolts.

(10) Secure new filing cabinet to wall using metal plate, lockwashers, and bolts.

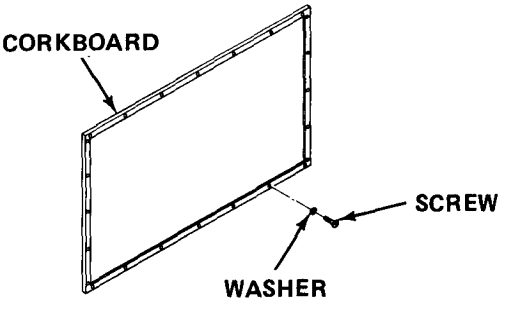
(11) Install drawers in new filing cabinet.

3-16.8 Remove/Install Corkboard.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Cross Tip Screwdriver

SUPPLIES: Corkboard



a. Remove screws and washers.

b. Remove corkboard.

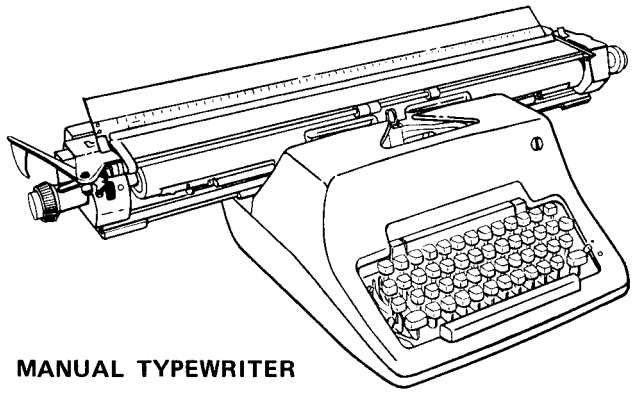
c. Position new corkboard and aline mounting holes.

d. Secure with screws and washers.

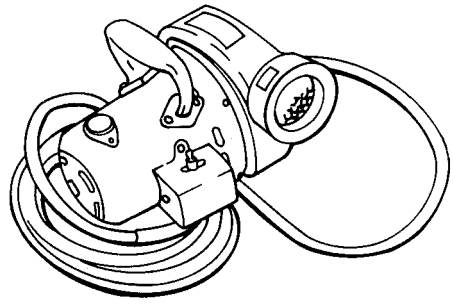
3-17. PREPARATION FOR STORAGE OR SHIPMENT. Contact your battalion for packing and shipping instructions.

Section V DIRECT/GENERAL SUPPORT MAINTENANCE

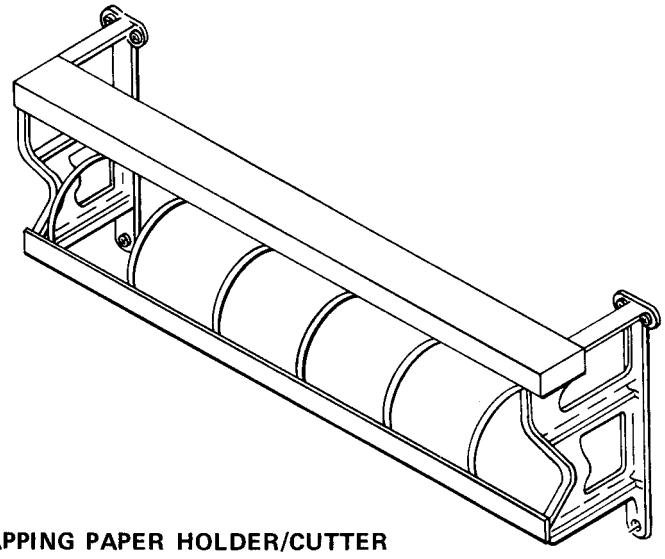
There are no direct/general support maintenance procedures assigned for this equipment.



MANUAL TYPEWRITER



VACUUM CLEANER



WRAPPING PAPER HOLDER/CUTTER

CHAPTER 4

SUPPORT ITEMS

Section I INTRODUCTION

4-1. GENERAL INFORMATION.

4-1.1 Scope. This chapter covers the support items contained in this section. The support items consist of the following equipment:

a. Model SG3B Manual Typewriter

b. Model 3400 Vacuum Cleaner

c. Model FF-H-571 Wrapping Paper Holder and Cutter

4-2. EQUIPMENT DESCRIPTION.

4-2.1 Equipment Characteristics, Capabilities, and Features.

a. Manual Typewriter. Refer to operator's manual supplied with the typewriter for characteristics, capabilities, and features.

b. Vacuum Cleaner. High speed, heavy duty, used for general cleaning.

c. Wrapping Paper Holder and Cutter. Holds and cuts up to 36 in. wide rolled paper.

4-2.2 Equipment Data.

a. Vacuum Cleaner. Packed in storage box containing hose, various vacuum and blowing attachments, liquid spray attachments, and motor repair kit containing motor bearings and brushes.

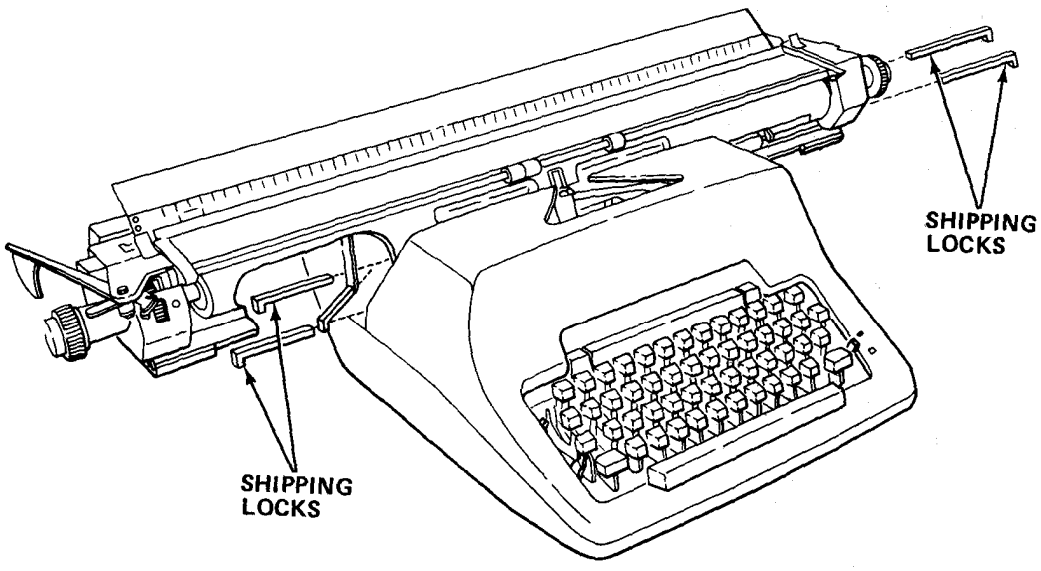
b. Manual Typewriter. Refer to operator's manual supplied with the typewriter for equipment data.

4-3. TECHNICAL PRINCIPLES OF OPERATION. Principles of operation are combined with operator's controls and indicators.

Section II OPERATING INSTRUCTIONS

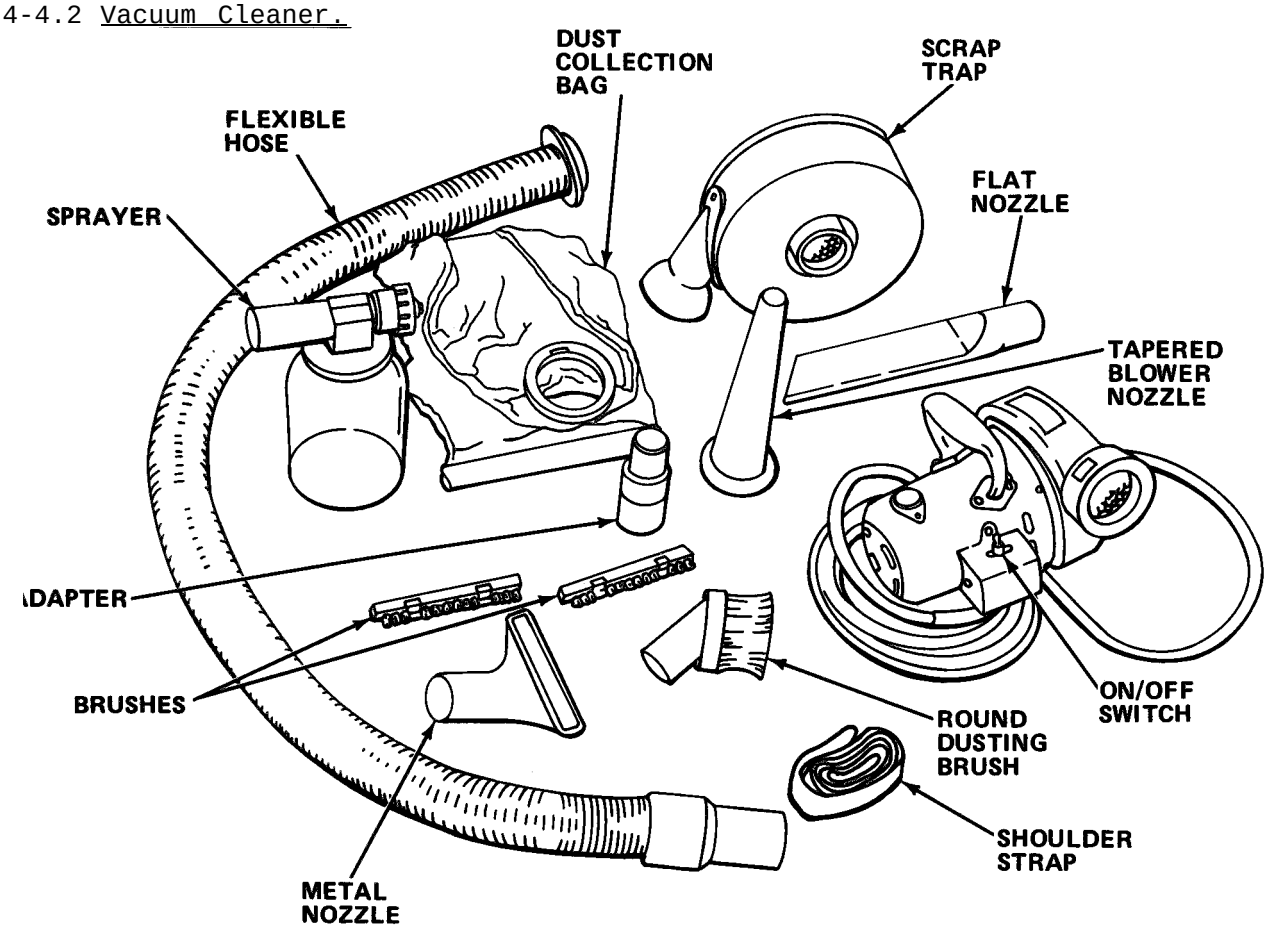
4-4. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS.

4-4.1 Manual Typewriter. Refer to the operator's manual with the typewriter for the controls and indicators not shown.



Control or Indicator	Function
Shipping Lock	Locks carriage when typewriter is being transported.

4-4.2 Vacuum Cleaner.



Control or Indicator	Function
Sprayer	Sprays liquids when hooked to blower side of vacuum cleaner.
Flexible Hose	Directs airflow in hard-to-reach areas.
Dust Collection Bag	Collects and holds dust and dirt.
Scrap Trap	Traps large particles before they enter fan.
Flat Nozzle	Used for hard-to-reach areas.

Control or Indicator	Function
Tapered Blower Nozzle	Directs airflow.
ON/OFF Switch	Turns power on or off.
Shoulder Strap	Attaches to vacuum cleaner for easier carrying.
Round Dusting Brush	Used for light dust and dirt.
Metal Nozzle	Used for large, flat surfaces.
Brushes	Used on metal nozzle.
Adapter	Connects various attachments to hose.

4-5. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

a. Before You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your before (B) PMCS.

b. While You Operate. Always keep in mind the WARNINGS and CAUTIONS. Perform your during (D) PMCS.

c. After You Operate. Be sure to perform your after (A) PMCS.

d. If Your Equipment Fails To Operate. Troubleshoot with proper equipment. Report any deficiencies using the proper forms. See DA Pam 738-750.

4-5.1 PMCS Procedures.

a. PMCS are designed to keep the equipment in good working condition by performing periodic service tasks.

b. Service intervals provide you, the operator, with time schedules that determine when to perform specified service tasks.

c. The "Equipment is Not Ready/Available If" column is used for identification of conditions that make the equipment not ready/available for readiness reporting purposes or denies use of the equipment until corrective maintenance is performed.

d. If your equipment fails to operate after PMCS is performed, immediately report this condition to your supervisor.

e. Perform weekly as well as before operation if you are the assigned operator and have not operated the item since the last weekly, or if you are operating the item for the first time.

f. Item number column. Item numbers are assigned in chronological ascending sequence regardless of interval designation. These numbers are used for your "TM Number" Column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

g. Interval columns. This column determines the time period designated to perform your PMCS.

h. Item to be inspected and procedures column. This column lists functional groups and their respective assemblies and subassemblies as shown in the Maintenance Allocation Chart (Appendix B). The appropriate check or service procedure follows the specific item to be inspected.

i. Equipment is not ready/available if: column. This column indicates the reason or cause why your equipment is not ready/available to perform its primary mission.

j. List of tools and materials required for PMCS is as follows:

Equipment	Items	Quantity
Manual Typewriter	Typewriter Ribbon	1 ea

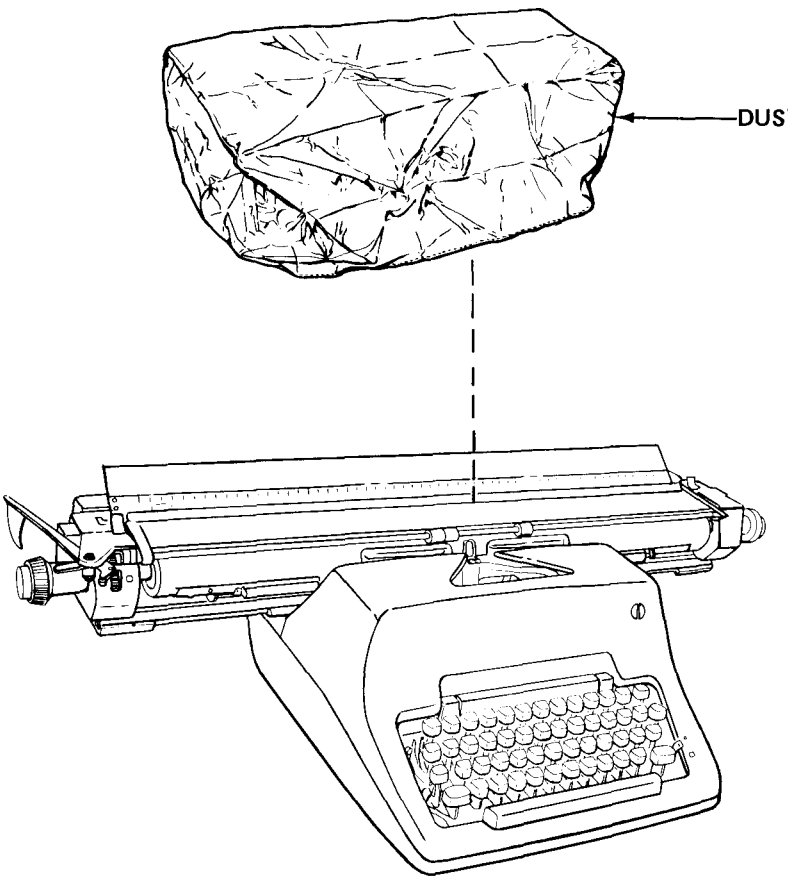
Table 4-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES

NOTE

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

B - Before **W - Weekly** **AN - Annually** **(Number) - Hundreds of Hours**
D - During **M - Monthly** **S - Semiannually**
A - After **Q - Quarterly** **BI - Biennially**

ITEM No.	INTERVAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Ready/ Available If:
		SUPPORT ITEMS	
1	W	**Manual Typewriter.**	



1. Remove dust cover.
2. Check that typewriter is mounted securely.

Table 4-1. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES - Cont

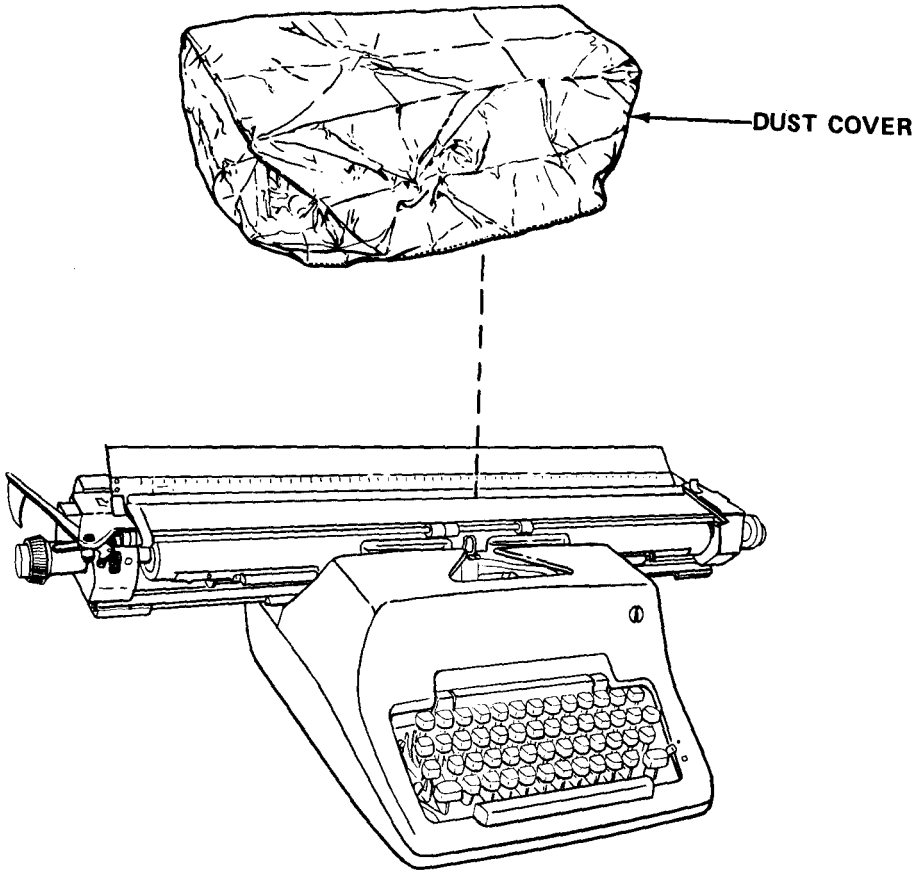
B - Before D - During A - After | W - Weekly M - Monthly Q . Quartarly | AN - Annually s - Semiannually Bl - Biennially | (Number) - Hundreds of Hours

ITEM NO.	INTERVAL	ITEM TO BE INSPECTED PROCEDURE	For Readiness Reporting, Equipment Is Not Reedy/ Available If:
		SUPPORT ITEMS	
1	W	Manual Typewriter - Cent 3. Check that typewriter ribbon is installed. 4. Replace dust cover.	
2	S	Replace Typewriter Ribbon on Manual Typewriter. Refer to your operator's manual for replacement of ribbon.	
3	Q	Vacuum Cleaner. Inspect vacuum cleaner for damage to housing, frayed or worn power cord, and proper operation of motor.	Housing is broken. Power cord or plug is frayed, worn, or damaged. Motor operation is noisy or improper.
4	Q	Inspect Wrapping Paper Holder and Cutter. Inspect blade for nicks and burrs.	

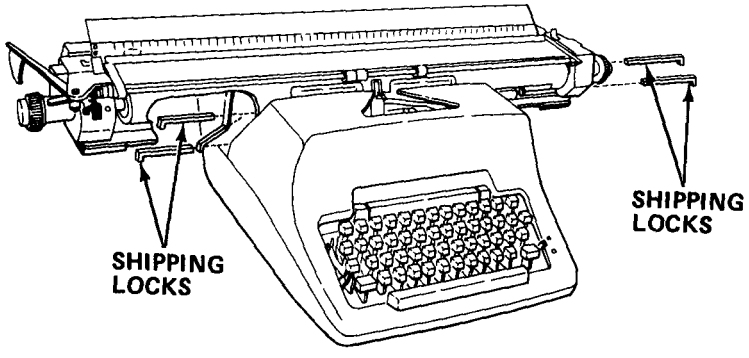
4-6. OPERATION UNDER USUAL CONDITIONS.

4-6.1 Assembly and Preparation for Use.

4-6.1.1 Manual Typewriter.



a. Remove dust cover.



b. Remove shipping locks.

4-6.2 Operating Procedures.

4-6.2.1 Vacuum Cleaner.

a. Using as vacuum.

(1) Attach dust collection bag to air discharge opening.

(2) Remove protective screen lock from air intake opening, and attach scrap trap to that opening.

(3) Attach swivel end of hose to scrap trap by turning lock to right until secure.

(4) Attach tool required to other end of hose.

(5) Insert plug into 120 V ac wall outlet and position ON/OFF switch to ON.

b. Using as blower.

(1) Attach tapered rubber nozzle to discharge opening.

(2) Attach protective screen lock to air intake opening.

(3) Insert plug into 120 V ac wall outlet and position ON/OFF switch to ON.

c. Using as sprayer.

(1) Attach protective screen lock to air intake opening.

(2) Attach swivel end of hose to air discharge opening by turning lock to right until secure.

(3) Attach sprayer to other end of hose.

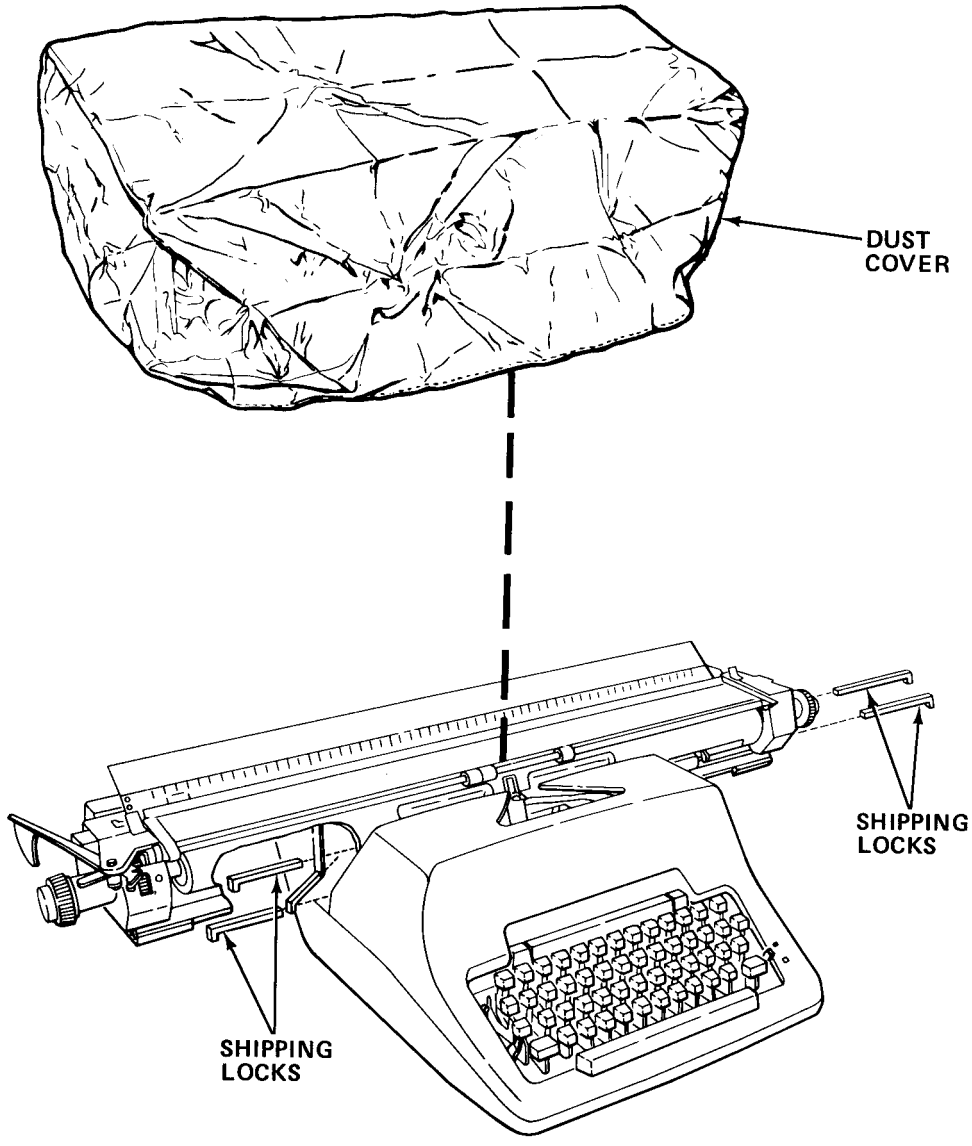
NOTE

Size of spray pattern is determined by adjusting screw located on top of sprayer.

(4) Insert plug into 120 V ac wall outlet and position ON/OFF switch to ON.

4-6.3 Preparation For Movement.

4-6.3.1 Manual Typewriter.



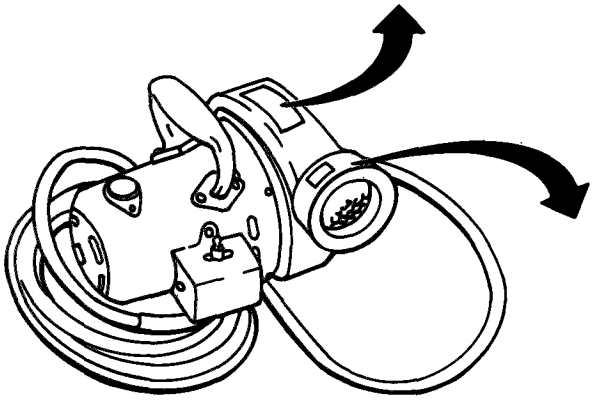
a. Install locks on carriage.

b. Replace dust cover.

4-6.4 Operating Instructions on Decals and Instruction Plates.

WARNING

THIS DEVICE IS NOT TO BE USED IN "HAZARDOUS LOCATIONS" AS DEFINED BY UNDERWRITERS LABORATORIES. IT SHOULD BE GROUNDED IN ACCORDANCE WITH PROVISIONS OF THE NATIONAL ELECTRIC CODE, OR ANY APPLICABLE LOCAL CODE, AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



WARNING!

ELECTRIC SHOCK COULD OCCUR IF USED ON WET SURFACES. DO NOT EXPOSE TO RAIN– STORE INDOORS.

4-7. OPERATION UNDER UNUSUAL CONDITIONS. There are no specific requirements for operation under unusual conditions.

Section III OPERATOR MAINTENANCE

4-8. LUBRICATON INSTRUCTIONS. This equipment does not require lubrication.

4-9. TROUBLESHOOTING PROCEDURES.

a. The table lists the common malfunctions which you may find during the operation or maintenance of the vacuum cleaner, or its components. You should perform the test/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all test or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

Table 4-2. TROUBLESHOOTING

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
1. VACUUM CLEANER MOTOR DOES NOT OPERATE.
Step 1. Check power cord.
(a) If plugged in, proceed to step 2.
(b) Plug in power cord.
Step 2. Check position of power switch.
(a) If turned ON, proceed to step 3.
(b) Turn power switch ON.
Step 3. Check circuit breaker position in circuit breaker box.
(a) If turned OFF or tripped, turn circuit breaker ON.
(b) If turned ON, refer to organizational maintenance.

4-10. MAINTENANCE PROCEDURES. There are no operator maintenance procedures assigned for this equipment.

Section IV ORGANIZATIONAL MAINTENANCE

4-11. LUBRICATION INSTRUCTIONS. This equipment does not require lubrication.

4-12. REPAIR PARTS, SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT; AND SUPPORT EQUIPMENT.

4-12.1 Common Tools and Equipment. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

4-12.2 Speclial tools: Test, Measurement, and Diagnostic Equipment: and Support Equipment. Special Tools, TMDE, and Support Equipment is listed in the applicable repair parts and special tools list and in Appendix B of this manual.

4-12.3 Repair Parts. Repair parts are listed and illustrated in the Repair Parts and Special Tools List, TM 5-6675-314-24P covering organizational maintenance for this equipment.

4-13. SERVICE UPON RECEIPT.

4-13.1 Checking Unpacked Equipment.

a. Inspect the equipment for damage incurred during shipment. If equipment has been damaged, report the damage on DD Form 6, Packing-Improvement Report.

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

c. Check to see whether the equipment has been modified.

4-14. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES. There are no organizational PMCS procedures assigned for this equipment.

4-15. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES.

a. If the vacuum cleaner does not power up when turned on, verify that 120 V ac is present at the receptacle. If voltage is not present, plug equipment into receptacle with power available and proceed with equipment troubleshooting. Perform no-power procedure for dead receptacle (Table 1-4). If voltage is present, replace vacuum cleaner.

4-16. MAINTENANCE PROCEDURES.

a. This section contains instructions covering organizational maintenance functions for the support items. Personnel required are listed only if the task requires more than one.

b. After completing each maintenance procedure, perform operational check to be sure that equipment is properly functioning.

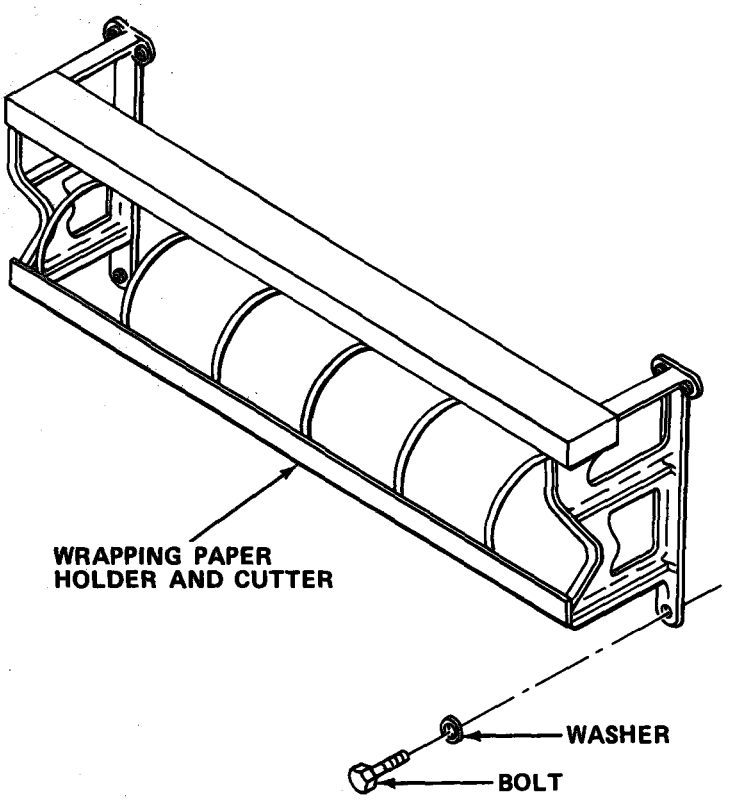
INDEX

4-16.1 Remove/Install Wrapping Paper Holder and Cutter.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: 5/8 in. Combination Wrench

SUPPLIES: Wrapping Paper Holder and Cutter



a. Remove paper roll.

b. Remove bolts and washers securing defective wrapping paper holder and cutter to wall.

c. Remove defective wrapping paper holder and cutter.

d. Aline holes of new wrapping paper holder and cutter with holes on wall.

e. Secure new wrapping paper holder and cutter with washers and bolts.

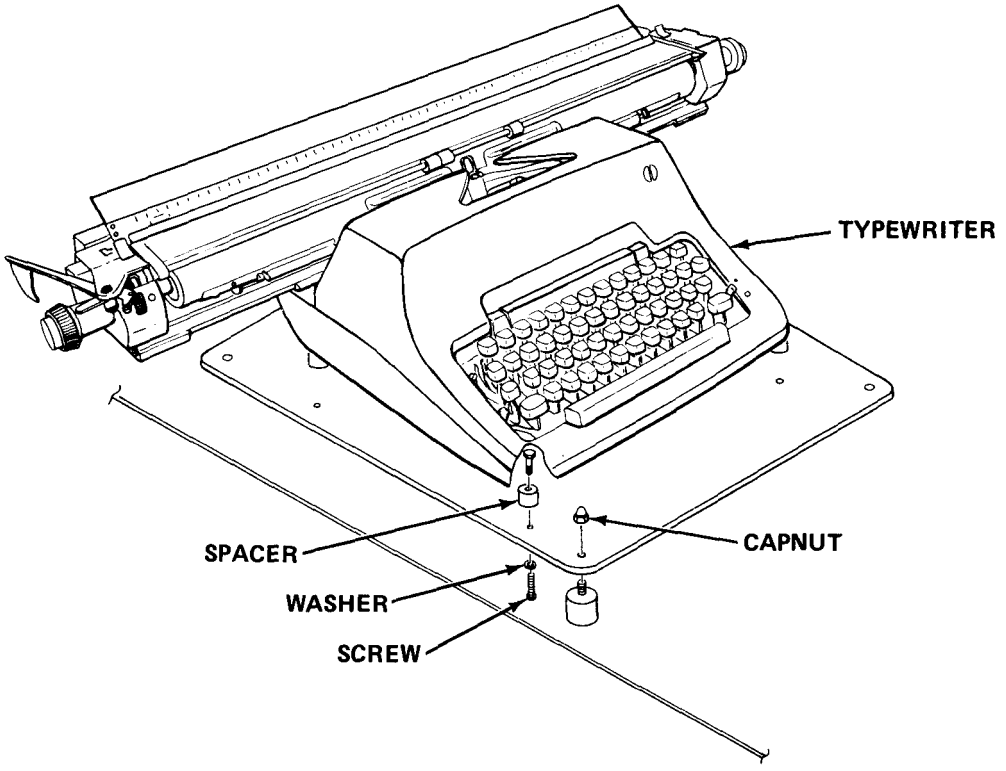
f. Install roll of paper.

4-16.2 Remove/Install Manual Typewriter.

MOS: 83FJ6, Reproduction Equipment Repairer

TOOLS: Flat Tip Screwdriver
8 in. Adjustable Wrench

SUPPLIES: Typewriter



a. Remove capnuts from mounting bracket.

b. Remove typewriter and mounting bracket.

c. Remove screws, washers, and spacers securing typewriter to mounting bracket.

d. Remove typewriter.

e. Secure new typewriter to mounting bracket with spacers, washers, and screws.

f. Install new typewriter and bracket.

g. Secure mounting bracket with capnuts.

4-17. PREPARATION FOR STORAGE OR SHIPMENT. Contact your battalion for packing and shipping instructions.

Section V DIRECT/GENERAL SUPPORT MAINTENANCE

There are no direct/general support maintenance procedures assigned for this equipment.

APPENDIX A

REFERENCES

A-1. SCOPE.

This appendix lists all forms, field manuals, technical manuals, and miscellaneous publications referenced in this manual.

A-2. FORMS.

Recommended Changes to Publications and Blank Forms . . . . . DA Form 2028

Recommended Changes to Equipment Technical Publications . . . . . DA Form 2028-2

Hand Receipt/Annex Number. . . . . DA Form 2062

Equipment Inspection and Maintenance Worksheet . . . . . DA Form 2404

The Army Maintenance Management System . . . . . DA Pam 738-750

Quality Deficiency Report . . . . . .SF 368

A-3. FIELD MANUALS.

Camouflage. FM5-20

Nuclear, Biological, and Chemical (NBC)
Defense (Reprinted w/Basic Incl C1) FM21-40

Basic Cold Weather Manual FM31-70

Northern Operations FM31-71

Metal Body Repair and Related Operations FM43-2

First Aid for Soldiers. FM21-11

A-4. TECHNICAL MANUALS.

Administrative Storage of Equipment . . . . . TM 740-90-1

Chemical, Biological, and Radiological (CBR)
Decontamination TM3-220

Operator, Organizational, Direct Support and General
Support Maintenance Manual: Air Conditioner, Horizontal,
Compact, 208-Volt, 3 Phase, 18,000 Btu Cooling, 12,000
Btu Heating . . . . . TM 5-4120-367-14

Operator, Organizational, Direct Support and General
Support Maintenance Manual for Chassis,
Semi-Trailer, Container Transporter (ADCOR) . . . . . TM 5-2330-305-14

Organizational, Direct Support and General Support
Maintenance Repair Parts and Special Tools List
(Including Depot Maintenance Repair Parts and
Special Tools) for Air Conditioner/Heater . . . . . TM 5-4120-367-24P

Organizational, Direct Support and General Support
Maintenance Repair Parts and Special Tools List
(Including Depot Maintenance Repair Parts and
Special Tools) for Chassis, Semi-Trailer,
Container Transporter (ADCOR) . . . . TM 5-2330-305-24P

Organizational, Direct Support and General Support
Maintenance Repair Parts and Special Tools List
(RPSTL) (Including Depot Maintenance Repair Parts
and Special Tools) for Storage and Distribution Section TM 5-6675-314-24P

Painting Instructions for Field Use . . . . TM 43-0139

Procedure for the Destruction of Equipment to
Prevent Enemy Use . . . . . TM 750-244-3

Use and Care of Hand Tools and Measuring Tools . . . . . TM 9-243

A-5. MISCELLANEOUS PUBLICATIONS.

Lubrication Order: Topographic Support System
Storage and Distribution Section, Model ADC-TSS-2 . . . . . LO 5-6675-314-12

Lubrication Order: Topographic Support System
Chassis, Semi-Trailer, Container Transporter (ADCOR) LO 5-2330-305-12

APPENDIX B

MAINTENANCE ALLOCATION CHART (MAC)

INTRODUCTION

The Army Maintenance System MAC

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

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

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

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

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

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

Maintenance Functions

Maintenance functions are limited to and defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.

2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.

3. Service. Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:

   a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.

   b. Repack. To return item to packing box after service and other maintenance operations.

   c. Clean. To rid the item of contamination.

d. Touch up. To spot paint scratched or blistered surfaces.

e. Mark. To restore obliterated identification.

4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.

5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.

9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.

10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

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

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

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

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

11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

12. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

Explanation of Columns in the MAC

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

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

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

Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

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

Sustainment:

L Specialized Repair Activity
H General Support maintenance
D Depot maintenance

NOTE

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

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

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

Table 1. MAC for
Storage and Distribution Section

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT-ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
00	Storage and Distribution Section	Overhaul					**		
01	Van Body (ISO Container)	Inspect	0.8						
		Service	0.9	0.5				3.5,7,9,10	B
		Repair		1.0	1.5		2.0	1,3,4	
	Fluorescent Light Assembly	Repair	0.1	0.7				1	
	Blackout/Dome Light Assembly	Repair	0.2						
	Exhaust Fan Assembly	Repair		0.5				1	
	Air Conditioner/ Heater Assembly	Inspect		0.5				1	A
		Replace					2.0	1	
	Electrical Assy	Repair		0.9	1.0			1,3	
	Telephone Binding Post Assembly	Repair		0.7				1	
	Emergency Light Assembly	Replace		0.3				1	
	Tiedown Socket Assembly	Replace		0.3				4	
	Level Indicator Assembly	Repair		0.6				2,3	
	Blackout Curtain Assembly	Repair		1.0				4	
	Personnel Ladder Assembly	Repair		0.8				4,8,14	B
	Personnel/Cargo Door Assembly	Replace			1.5			4	
		Repair			2.0			4	
	**Depot Team will determine work time								

Table 1. MAC for
Storage and Distribution Section
(Continued)

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT-ENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
02	Portable Tracing/Scribe Board	Inspect	0.2						
		Service	0.2						
		Repair	0.3	0.5				3,6	
03	Furniture and Cabinets	Inspect	0.5						
		Remove/ Install		0.9				1,3,8	
		Repair		0.7				1,8	
04	Support Items	Inspect	0.8						
		Service	0.5						
		Remove/ Install		0.3				4	

Table 2. Tool and Test Equipment for Storage and Distribution Section

Tool or Test Equipment	Maintenance Level	Nomenclature	National Stock Number	Tool Number
1	O	Shop Kit, Automotive Maint and Repair Common #1 Plus Metric Option	4910-00-754-0654	
2	O	Tool Kit, Carpenter's Eng Squad	5180-00-293-2875	
3	O	Tool Kit, General Mechanic's Automotive Plus Metric Option	5180-00-177-7033	
4	O, F, D	Tool Kit, Light Machine Repair	5180-00-598-1540	
5	C	Brush, Wire	7920-00-291-5815	
6	C	Screwdriver, Cross-Tip #2	5120-00-234-8913	
7	C	Spring Scale	6670-00-238-9777	
8	O, F, D	Rivet Gun	5120-00-017-2849	
9	C	Wrench, Adjustable, 6 in.	5120-00-264-3795	
10	C	Screwdriver, Flat Tip, 6 in.	5120-00-234-8910	

Table 3. Remarks for
Storage and Distribution Section

REFERENCE CODE	REMARKS
A	See TM 9-4120-367-14 for Maintenance Procedures.
B	Maintenance personnel and TSS Section 7, maintenance van (which carries the required tools) are authorized by HHC TOE 05336 H600.

APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

Section I. INTRODUCTION

C-1. SCOPE.

This appendix lists components of end item and basic issue items for the Storage and Distribution Section to help you inventory items required for safe and efficient operation.

C-2. GENERAL

The Components of End Item and Basic Issue Items Lists are divided into the following sections:

a. Section II: Components of End Item. This listing is for informational purposes only, and is not authority to requisition replacements. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

b. Section III: Basic Issue Items. These are the minimum essential items required to place the Storage and Distribution Section in operation, to operate it, and to perform emergency repairs. BII must be with the Storage and Distribution Section during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item.

C-3. EXPLANATION OF COLUMNS.

The following provides an explanation of columns found in the tabular listings:

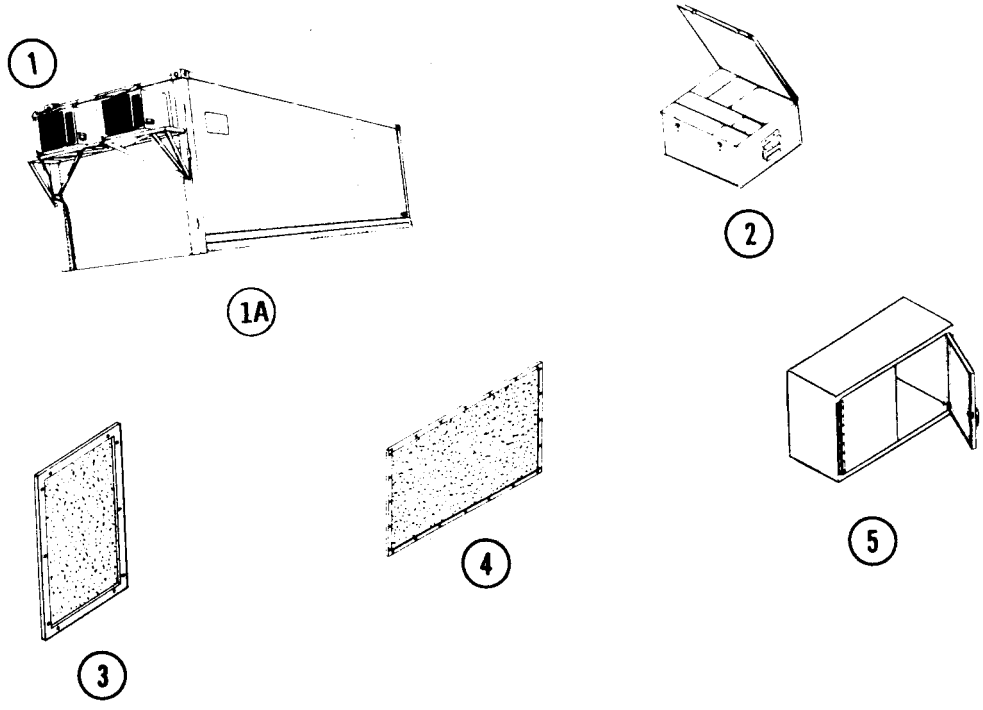
a. COLUMN (1): Illustration Number (Illus Number). This column indicates the number of the illustration in which the item is shown.

b. COLUMN (2): National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

c. COLUMN (3): Description. Indicates the National item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number.

d. COLUMN (4): Unit of Measure (U/M). Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr).

e. COLUMN (5): Quantity Required (Qty Rqr). Indicates the quantity of the item authorized to be used with/on the equipment.

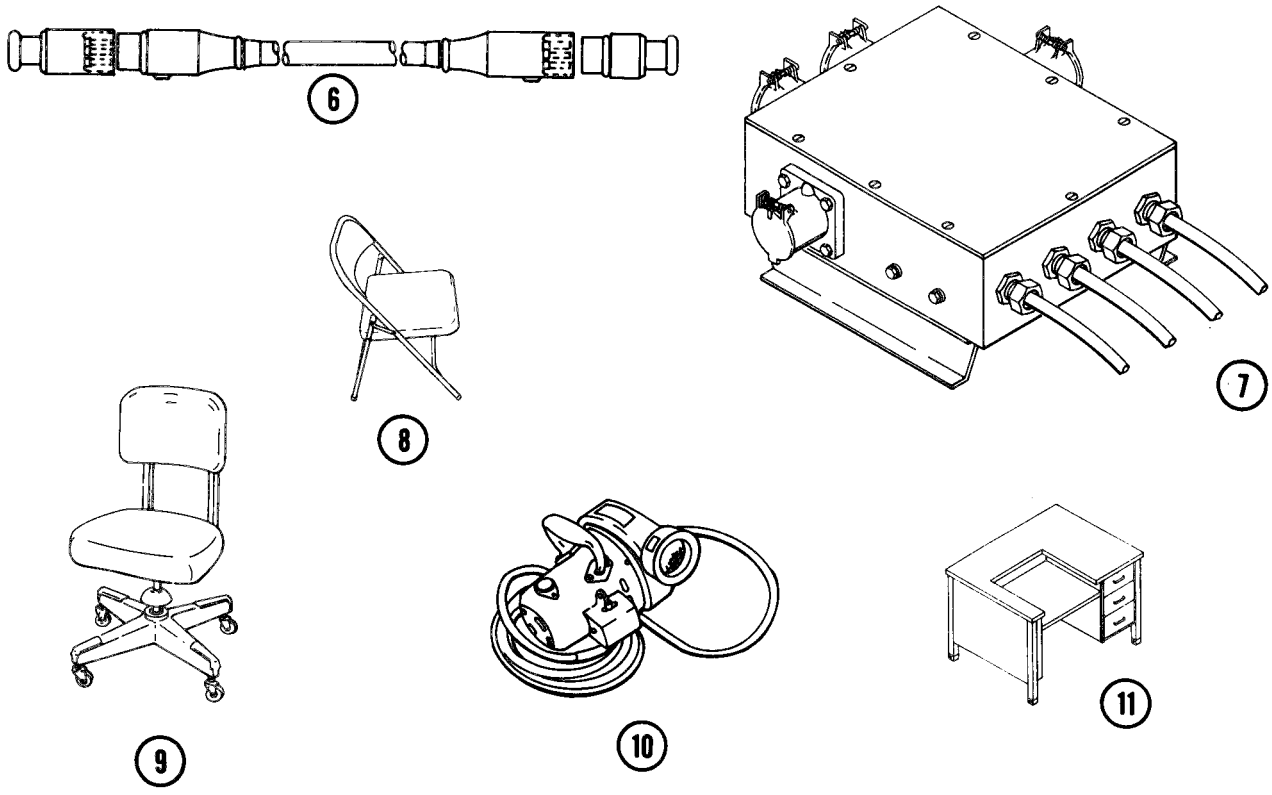


Section II. COMPONENTS OF END ITEM

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
1	4120-00-974-7206	AIR CONDITIONER (81349) MIL-A-52767	ea	2
1A	6675-01-220-2613	VAN ASSEMBLY: MODIFIED (97403) 13225E3027	ea	1
2		BOX, VEHICULAR ACCESSORIES for Vacuum Cleaner: (97403) 13225E3490	ea	1
3	7195-00-105-7941	BULLETIN BOARD, CORK: 34.0 in. w, 22.0 in. h (79819) T5-2303	ea	1
4	7195-00-105-7940	BULLETIN BOARD, CORK: 58.00 in. w, 34.00 in. h (79819) T5-2305	ea	
5		CABINET, STORAGE: TECH MANUALS (97403) 13225E4648	ea	1

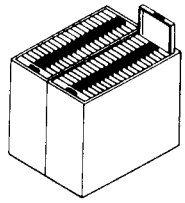
*U.S. GOVERNMENT PRINTING OFFICE: 1992- 654-028/60164

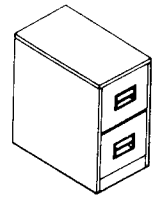
PIN # 053121-003

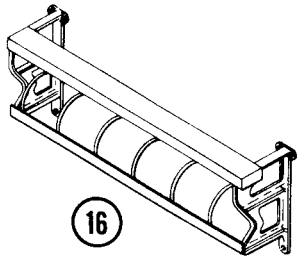


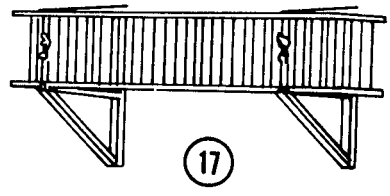
Section II COMPONENTS OF END ITEM - Cont

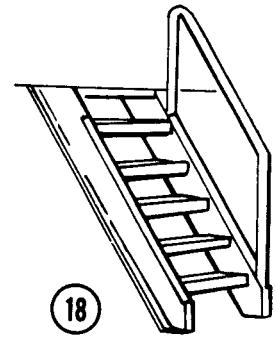
(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U M	(5) Qty Rqr
6	6150-00-134-0847	CABLE ASSEMBLY, POWER ELECTRICAL: (75477) 11601643, except 50.5 ft lg	ea ea	2
7	6150-01-081-9264	CABLE TERMINAL BOX ASSEMBLY, ELECTRICAL, SPECIAL PURPOSE: (51745) TL/TA 13222E6250	ea	1
8	7105-00-269-8463	CHAIR, FOLDING: (80063) SCD 539471	ea	2
9	7110-00-273-8791	CHAIR, ROTARY: (8D190) UC-S-17	ea	3
10	7910-00-205-3400	CLEANER, VACUUM, ELECTRIC: (51745) MVV 3400	ea	1
11	7110-00-143-0833	DESK, TYPEWRITER: (37296) AA-D-191 type II, class 2	ea	1





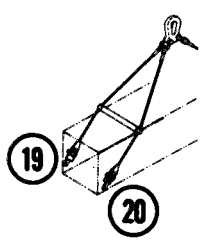


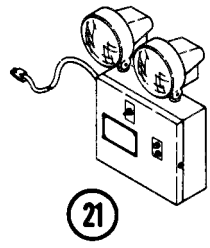


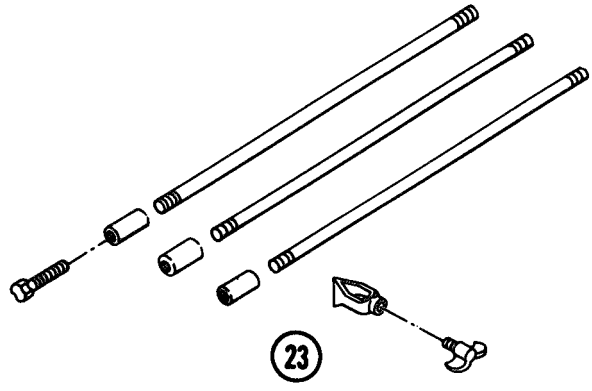


Section II. COMPONENTS OF END ITEM

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
12	Deleted			
13	7460-00-913-1531	FILE, VISIBLE INDEX, CABINET: (50456) VC853191	ea	2
14	7110-00-551-5491	FILING CABINET: (96247) AA-F-359, type I, size 1	ea	4
15	Deleted			
16	7290-00-298-7040	HOLDER AND CUTTER, WRAPPING PAPER: (8D190) S8-6C	ea	1
17	5440-01-152-7751	LADDER, EXTENSION-FOLDING: (39428) 8028T16	ea	1
18	2540-01-133-9726	LADDER, VEHICLE BOARDING: (51 745) 13225E3074	ea	2

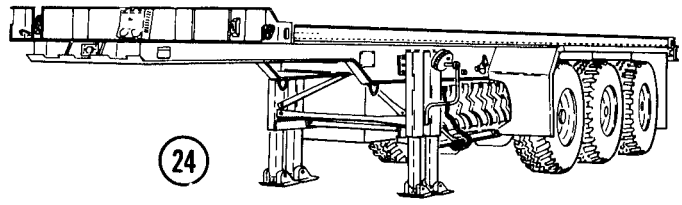


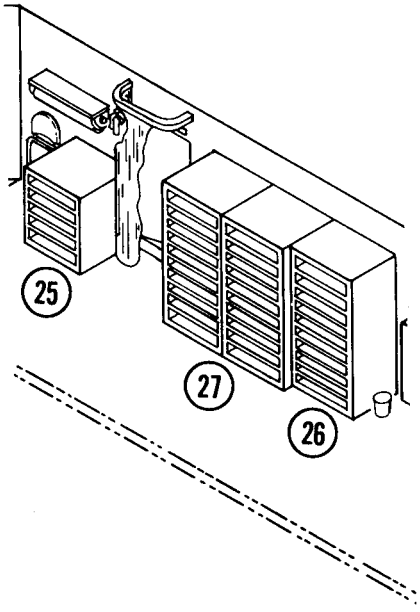


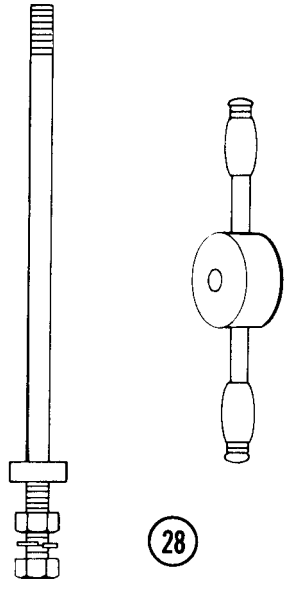


Section II. COMPONENTS OF END ITEM

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
19		LIFTING AND TIEDOWN DEVICE, TRANSPORTABLE SHELTER: Left hand (52555) 1390-4	ea	2
20		LIFTING AND TIEDOWN DEVICE, TRANSPORTABLE SHELTER: Right hand (52555) 1390-3	ea	2
21		LIGHT EMERGEMCY: (97403) 13225E3396	ea	1
22	Deleted			
23	5975-00-878-3791	ROD, GROUND: (82370) A104	ea	1

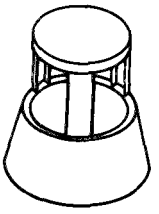






Section II COMPONENTS OF END ITEM - Cont

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
24	2330-01-076-4797	SEMITRAILER, FLATBED: (97403) TL/MIL-B-13207, par. 3.11, fig. 12, tables III and IV	ea	1
25		SHELF, STORAGE: (97403) 13225E4410	ea	3
26		SHELF, STORAGE: (97403) 13225E4392	ea	1
27		SHELF, STORAGE: (97403) 13225E4387	ea	4
28	5120-01-013-1676	SLIDE HAMMER, GROUND ROD EMPLACEMENT: (45225) P74-144	ea	1



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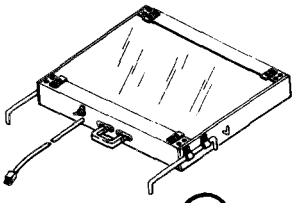

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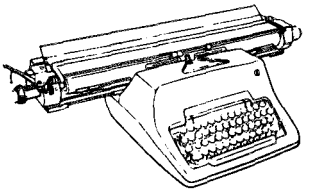

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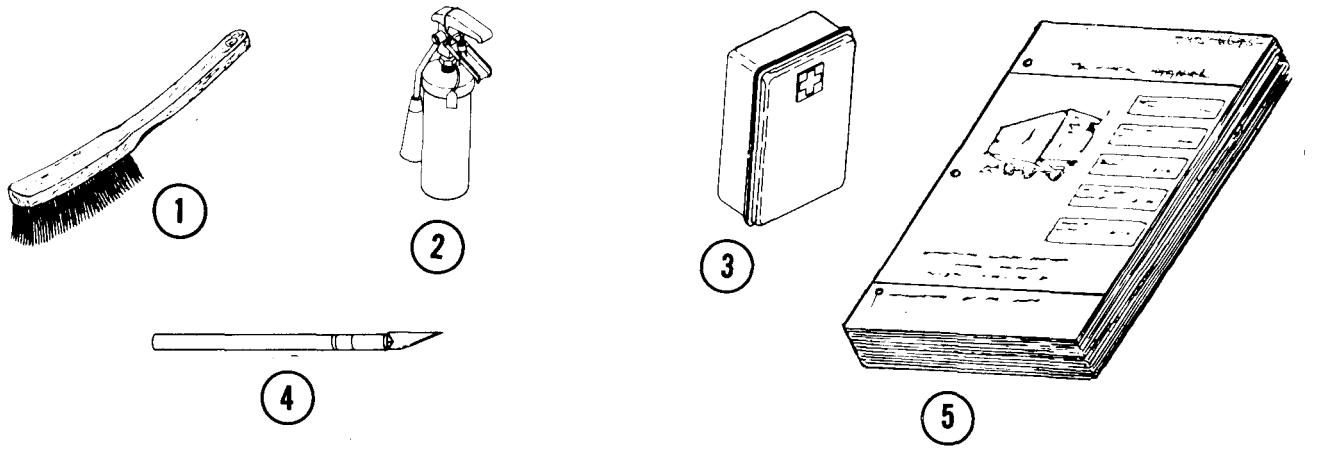
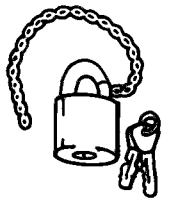
Section II. COMPONENTS OF END ITEM

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
29	7105-00-782-3166	STOOL, STEP: (8D190) H9-KS-1, gray	ea	2
30	Deleted			
31	Deleted			
32	6675-00-221-7121	TRACING BOARD: (26954) 51J3	ea	1
33	7430-00-663-9102	TYPEWRITER: (61634) S-27	ea	1



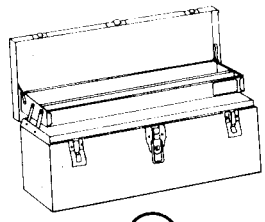
Section III. BASIC ISSUE ITEMS

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
1	7920-00-291-5815	BRUSH, WIRE, SCRATCH: (39428) 7187T2	ea	1
2	4210-00-555-8837	EXTINGUISHER, FIRE MONOBROMOTRI-FLUOROMETHANE: (33525) T2	ea	2
3	6545-00-922-1200	FIRST AID KIT, GENERAL PURPOSE: (89875) SC C-6545-IL-Vol 2	ea	1
4	5110-00-595-8400	KNIFE, CRAFTSMAN'S (99941) 3001	ea	4
5		MANUALS, TECHNICAL		
	TM 5-6675-314-14	OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT, TSS STORAGE AND DISTRIBUTION SECTION	ea	1
	LO 5-6675-314-12	LUBRICATION ORDER, TSS STORAGE AND DISTRIBUTION SECTION	ea	



Section III. BASIC ISSUE ITEMS - Cont

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
6	5340-00-682-1505	PADLOCK SET: (77765) MS21313-52		
7	5120-00-234-8913	SCREWDRIVER, CROSS TIP: size 2 (81348) GGG-S-121	ea	1
8	5120-00-234-8910	SCREWDRIVER, FLAT TIP: (78525) 1006	ea	1
		STRAP ASSEMBLY, BUCKLE-END: 6.0 in. (82820) 1844-104	ea	6
		STRAP ASSEMBLY, BUCKLE-END: 8.0 in. (82820) 1844-101	ea	17
		STRAP ASSEMBLY, BUCKLE-END: 9.0 in. (82820) 1844-103	ea	3
		STRAP ASSEMBLY, BUCKLE-END: 15.0 in. (82820) 1844-105	ea	3
		STRAP ASSEMBLY, TIP-END: 23.0 in. (82820) 1845-103	ea	2
		STRAP ASSEMBLY, TIP-END: 36.0 in. (82820) 1845-106	ea	1
		STRAP ASSEMBLY, TIP-END: 40.0 in. (82820) 1845-101	ea	19



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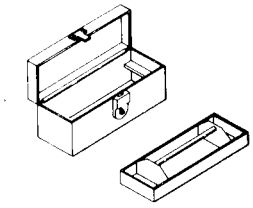

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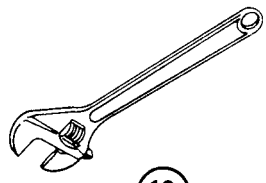

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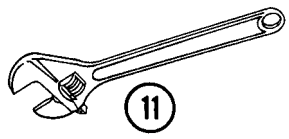
Section III. BASIC ISSUE ITEMS - Cont

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
		STRAP ASSEMBLY, TIP-END: 45.0 in. (82820) 1845-108	ea	1
		STRAP ASSEMBLY, TIP-END: 72.0 in. (82820) 1845-104	ea	15
		STRAP ASSEMBLY, WEBBING: 35.00 in. (98313) 13225E3695-2	ea	4
		STRAP ASSEMBLY, WEBBING: 38.00 in. (98313) 13225E3695-7	ea	1
		STRAP ASSEMBLY, WEBBING: 55.00 in. effective lg; 12.00 in. (98313) 13225E3695-6	ea	5
		STRAP ASSEMBLY, WEBBING: 55.00 in. effective lg: 27.00 in. (98313) 13225E3695-4	ea	1
		STRAP ASSEMBLY, WEBBING: 72.00 in. (98313) 13225E3695-1	ea	1
		STRAP ASSEMBLY, WEBBING: 2 piece construction (98313) 13225E3695-13	ea	2
8	5140-00-331-5496	TOOL BOX, PORTABLE: 1 fixed hinged tray (75206) CS 19	ea	3
9	5140-00-315-2747	TOOL BOX, PORTABLE: 1 removable tray (75206) CS 16	ea	1
10	5120-00-264-3795	WRENCH, ADJUSTABLE: (80244) GGG-W-631-TY1 CL1	ea	1

Pages C-11 and C-12 are deleted

Section III BASIC ISSUE ITEMS - Cont

(1) IIIus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
	7510-00-272-9662	STAPLES, PAPER FASTENING, OFFICE TYPE: (8D190) 8-SF4-5M	bx	2
	5345-00-265-3126	STONE, SHARPENING: (10670) 3501-3517	ea	1
		STRAP ASSEMBLY, BUCKLE-END: 6.0 in. (82820) 1844-104	ea	6
		STRAP ASSEMBLY, BUCKLE-END: 8.0 in. (82820) 1844-101	ea	17
		STRAP ASSEMBLY, BUCKLE-END: 9.0 in. (82820) 1844-103	ea	3
		STRAP ASSEMBLY, BUCKLE-END: 15.0 in. (82820) 1844-105	ea	3
		STRAP ASSEMBLY, TIP-END: 23.0 in. (82820) 1845-103	ea	2
		STRAP ASSEMBLY, TIP-END: 36.0 in. (82820) 1845-106	ea	1
		STRAP ASSEMBLY, TIP-END: 40.0 in. (82820) 1845-101	ea	19
		STRAP ASSEMBLY, TIP-END: 45.0 in. (82820) 1845-108	ea	1
		STRAP ASSEMBLY, TIP-END: 72.0 in. (82820) 1845-104	ea	15
		STRAP ASSEMBLY, WEBBING: 35.00 in. (98313) 13225E3695-2	ea	4
		STRAP ASSEMBLY, WEBBING: 38.00 in. (98313) 13225E3695-7	ea	1
		STRAP ASSEMBLY, WEBBING: 55.00 in. effective lg; 12.00 in. (98313) 13225E3695-6	ea	5



Section III BASIC ISSUE ITEMS - Cont

(1) Illus Number	(2) National Stock Number	(3) Description FSCM and Part Number	(4) U/M	(5) Qty Rqr
		STRAP ASSEMBLY, WEBBING: 55.00 in. effective lg; 27.00 in. (98313) 13225E3695-4	ea	1
		STRAP ASSEMBLY, WEBBING: 72.00 in. (98313) 13225E3695-1	ea	1
		STRAP ASSEMBLY, WEBBING: 2 piece construction (98313) 13225E3695-13	ea	2
	7510-00-995-0455	TAPE, PRESSURE SENSITIVE ADHESIVE: plastic; clear color; 1 side adhesive 1.0 in. w (76381) 681	ro	10
	7510-00-234-7960	TAPE, PRESSURE SENSITIVE ADHESIVE: plastic; clear color; 1 side adhesive 2.0 in. w (76381) 600	ro	10
	7920-00-823-9772	TOWEL, PAPER: (95135) DW61-1OOO-22	mx	2
	4020-00-242-4074	TWINE, FIBROUS: (79819) S9-9	lb	1
11	5120-00-240-5328	WRENCH, ADJUSTABLE: (92878) 1500559	ea	1

APPENDIX D

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

D-1. SCOPE.

This appendix lists additional items you are authorized for the support of the Storage and Distribution Section.

D-2. GENERAL.

This list identifies items that do not have to accompany the Storage and Distribution Section and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA or JTA.

D-3. EXPLANATION OF LISTING.

National stock numbers, descriptions and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

Section II ADDITIONAL AUTHORIZATION LIST

(1) National Stock Number	(2) Description FSCM and Part Number	(3) U/M	(4) Qty Auth
	TOE AUTHORIZED ITEMS		
6115-00-258-1622	Generator Set, DSL Eng TM:60kW	ea	1
5805-00-543-0012	Telephone Set: TA-312/PT	ea	1

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIAL LIST

Section I. INTRODUCTION

E-1. SCOPE.

This appendix lists expendable supplies and materials you will need to operate and maintain the Storage and Distribution Section. This listing is for information purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (except Medical, Class V, Repair Parts and Heraldic items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

E-2. EXPLANATION OF COLUMNS

a. Column (1) - Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., “Use cleaning compound, Item 5, Appendix E.”).

b. Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew

O - Organizational Maintenance

F - Direct Support Maintenance

H - General Support Maintenance

c. Column (3) - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

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

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

Section II EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
1	0	8040-00-174-2610	Adhesive, Rubber	cn
2	F	8040-00-152-0063	Adhesive, Waterproof	cn
3	C	7520-00-935-7136	Ball Point Pen, black (79819) VER-HR-84	dz
4	C	7520-00-281-5911	Basket, Wastepaper, (8D190) H10-34	ea
5	C	7510-00-616-7471	Binder and Filler, Loose Leaf, UU-B-356, grade C, 5 x 3 in. sh. (65957)	ea
6	C	5110-00-359-6478	Blade, Craftsman Knife, Beveled (99941) 11	pg
7	C	5110-00-542-2043	Blade, Craftsman Knife, Curved (99941) 10	pg
8	C	5110-00-542-2044	Blade, Craftsman Knife, Square (99941) 17	pg
9	C	5110-00-765-4144	Blade, Craftsman Knife, Stencil (99941) 16	pg
10	C	6850-01-077-8073	Cleaning Concentrate (79819) 3068	bt
11	C	7510-00-161-4291	Clip, Paper (79819) P2-72620	bx
12	C	8305-00-222-2423	Cloth, Cheesecloth	yd
13	C	7930-00-530-8067	Detergent, General Purpose	gl
14	C	7520-00-285-1772	Dispenser, Pressure Sensitive Adhesive Tape (79819) C-22	ea
15	C		Envelope, Transparent (8P494) 61, 34 x 28 in.	bx
16	F	5610-00-618-0258	Floor Patch	gl
17	C	7510-00-285-5862	Lead, Pencil, Graphite, HB (8D190) U2-F370-HB	pg
18	C	7510-00-285-5847	Lead, Pencil, Graphite, 2H (8D190) U2-F350-2H	pg

Section II EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
19	F	9150-00-273-2389	Oil, Lubricating, General Purpose	cn
20	C	7530-00-285-3083	Pad, Writing Paper (8D190) M9-21-112	pg
21	0	8010-01-131-6254	Paint, Black	kt
22	0	8010-01-160-6754	Paint, Brown	kt
23	0	8010-01-162-5578	Paint, Green (383)	kt
24	0	8010-01-248-3859	Paint, Light Green, Interior	gl
25	C	5350-00-619-9166	Paper, Abrasive	pk
26	C	8135-00-558-1242	Paper, Wrapping Chemically Neutral (8D190) S8-36-5K	ro
27	C	7510-00-240-1526	Pencil, black (79819) 1555, black	dz
2 8	C	7510-00-436-5210	Pencil, blue (79819) 1555, blue	dz
29	C	7520-00-161-5664	Pencil, Mechanical (8D190) VSC-P400	ea
30	0	8010-01-193-0520	Primer	kt
31	C	7510-00-543-6792	Refill, Ball Point Pen (79819) VER-4	dz
32	F	8010-01-030-7254	Resin, Epoxy	kt
33	C	7510-00-928-9146	Ribbon, Typewriter (6P460) 451-8153	ea
34	C	7510-00-255-4560	Rubber Band Assortment (8D190) N1-8366-54	bx
35	0	FSCM 39428	Screen, Nylon (P/N 1017A31)	ro
36	0	6040-00-851-0211	Sealant, Silicone	tu
37	C	7520-00-162-6178	Sharpener, Pencil (79819) U8-1031, Model KS	ea
38	C	5110-00-161-6912	Shears, Straight Trimmers (8D190) Q9-3769	ea

Section II EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
39	0	3439-00-273-3722	Solder, Rosin Core	sl
40	0	6850-00-274-5421	Solvent, P-D-680	cn
41	C	6850-00-880-1013	Spray, Silicone	cn
42	0	FSCM 39428	Sprayfoam Sealant (P/N 7627T1)	cn
43	C	7520-00-281-5895	Stapler, Paper Fastening, Office, (8D190) XB-27, gray	ea
44	C	7510-00-272-9662	Staples, Paper Fastening, Office Type (8D190) 8-SF4-5M	bx
45	C	5345-00-265-3126	Stone, Sharpening (10670) 3501-3517	ea
46	0	5640-00-103-2254	Tape, Cloth, Duct Sealing, 2 in.	ro
47	C	5970-00-926-7218	Tape, Insulating, Electrical	ro
48	C	7510-00-995-0455	Tape, Pressure Sensitive Adhesive, plastic; clear color; 1 side adhesive 1.0 in. w. (76381) 681	ro
49	C	7510-00-234-7960	Tape, Pressure Sensitive Adhesive, plastic; clear color; 1 side adhesive 2.0 in. w. (76381) 600	ro
50	C	7920-00-823-9772	Towel, Paper (95135) DW61-1000-22	mx
51	C	4020-00-242-4074	Twine, Fibrous (79819) S9-9	lb

PIN: 053121-001
U.S GOVERNMENT PRINTING OFFICE: 1986 - 652-032/40147

INDEX

SUBJECT PARAGRAPH

FURNITURE AND CABINETS

C

D

E

F

G

H

I

L

INDEX - Cont

SUBJECT PARAGRAPH

FURNITURE AND CABINETS - Cont

M

O

P

R

S

T

INDEX - Cont

SUBJECT PARAGRAPH

FURNITURE AND CABINETS - Cont

V

W

PORTABLE TRACING/SCRIBING BOARD

A

B

C

D

E

F

G

INDEX - Cont

SUBJECT PARAGRAPH

PORTABLE TRACING/SCRIBING BOARD - Cont

M

O

P

R

S

T

U

INDEX - Cont

SUBJECT PARAGRAPH

STORAGE AND DISTRIBUTION SECTION

A

B

C

D

E

INDEX - Cont

SUBJECT PARAGRAPH

STORAGE AND DISTRIBUTION SECTION - Cont

F

G

I

L

M

INDEX - Cont

SUBJECT PARAGRAPH

STORAGE AND DISTRIBUTION SECTION - Cont

O

P

R

INDEX - Cont

SUBJECT PARAGRAPH

STORAGE AND DISTRIBUTION SECTION - Cont

R - Cont

S

T

V

W

INDEX - Cont

INDEX - Cont

SUBJECT PARAGRAPH

SUPPORT ITEMS - Cont

O

P

R

S

T

V

W

By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

Official:

DONALD J. DELANDRO
Brigadier General, United States Army
The Adjutant General

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC JOHN DOE
COA, 3d ENGINEER BN
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 5-6675-314-14	17 May 85	TSS NSN 6675-01-105-5752

BE EXACT. . .PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
6	2-1 a			In line 6 of paragraph 2-1a the manual states the engine has 6 Cylenders. The engine on my set only has 4 Cylenders. Clenge the manual to show 4 Cylenders.
81		4-3		Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.
125	line 20			I ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (268) 317-7111

SIGN HERE: John Doe
JOHN DOE

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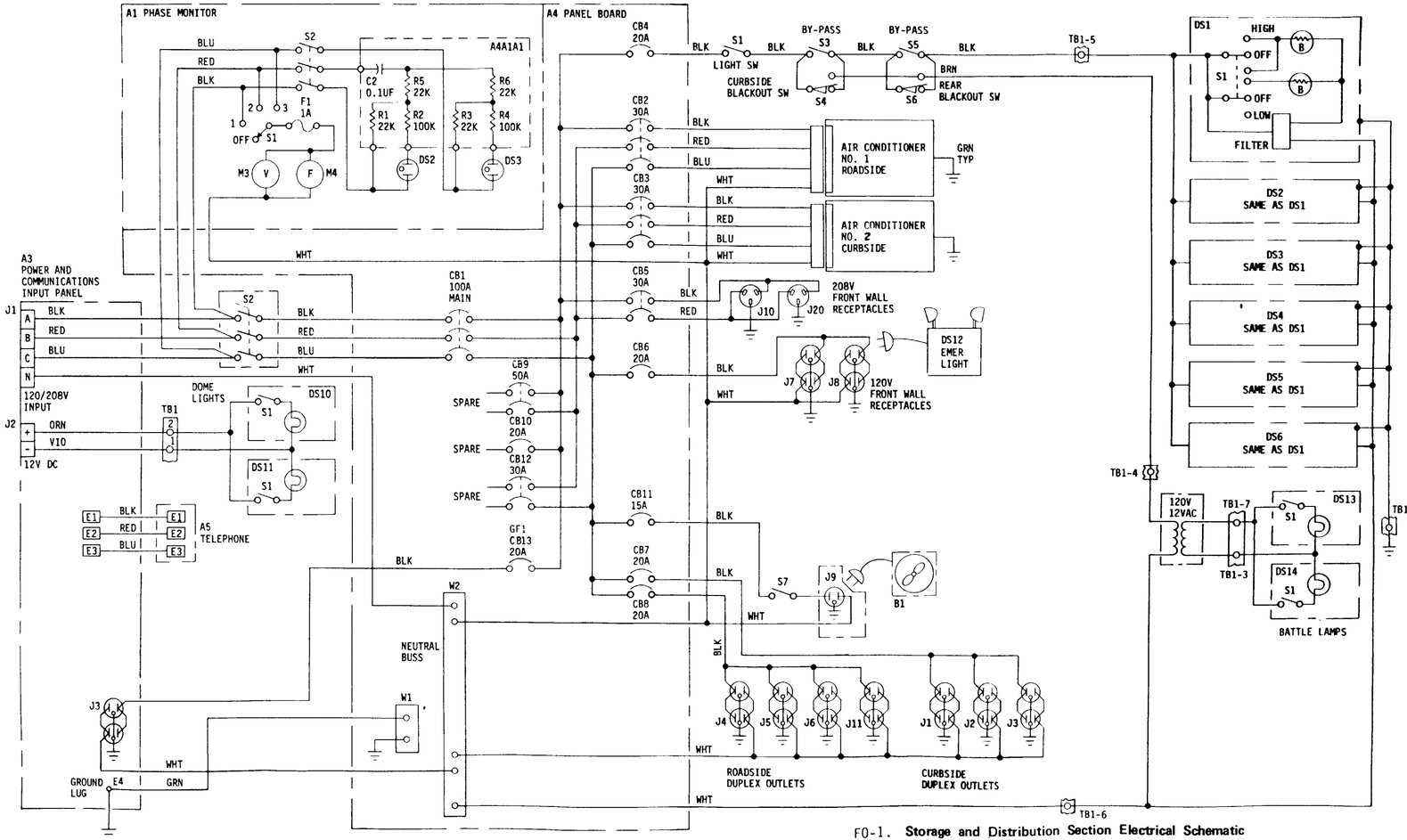

FO-1. **Storage and Distribution Section Electrical Schematic**