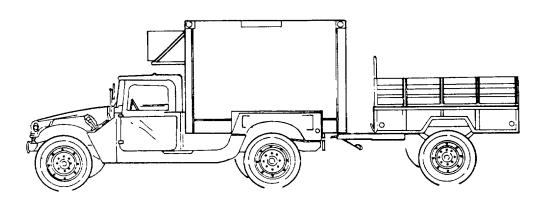
TECHNICAL MANUAL

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

TOPOGRAPHIC SUPPORT SYSTEM (TSS)

DOWNSIZED DIRECT SUPPORT SECTION (DDSS)

NSN 6675-01-300-9465



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HEADQUARTERS, DEPARTMENT OF THE ARMY 15 SEPTEMBER 1993

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WARNING CHEMICAL HAZARD

Avoid contact with ammonia. Failure to do so may result in serious injury to skin. Fumes can cause irritation and damage to lungs.

WARNING

HEAVY EQUIPMENT

Use proper lifting equipment to remove or install heavy equipment. Failure to do so may result in death or serious injury.

WARNING

ELECTRICAL SHOCK

Use extreme caution when performing checks, services, or maintenance at or near power entrance panel and power distribution panel. Failure to do so may result in death or serious injury. Main power cable must be disconnected before servicing power entrance panel connections. Failure to do so may result in death or serious injury.

Do not use wet or damp cloth to clean equipment, power cords, or power cables that are plugged in. Death or serious injury may result.

Turn off main power switch before replacing fuse. Failure to do so may result in death or serious injury.

Do not service main power cable if it is connected to power source. Failure to do so may result in death or serious injury.

Do not service electrical connection, switches, or circuit breakers when main power switch is on. Failure to do so may result in death or serious injury.

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TECHNICAL MANUAL

NO. 5-6675-331-14&P

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON D.C.15 September 1993

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

Topographic Support System (TSS) Downsized Direct Support Section (DDSS) NSN 6675-01-300-9465

Current As Of 3 September 1993

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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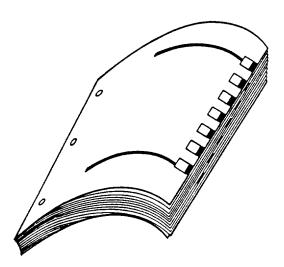
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HOW TO USE THIS MANUAL

This manual (TM 5-6675-331-14&P) is used by the Army for operation and maintenance of the Downsized Direct Support Section (DDSS). Along the right hand edge of the front cover is a list of the chapters and appendices contained in the manual (each item has a black tab next to it). Use the front cover index when you need to find information quickly. Just bend the manual in half and follow the margin index to the page with the black edge marker.



The first page of each chapter and appendix contains a chapter or appendix index which shows the paragraph numbers of the sections contained within that chapter or appendix. Additionally, each section contains a section index which shows the paragraph of the information contained within that section.

If you are not sure which chapter contains the information you are looking for, use the Table of Contents. As you can see in the Table of Contents, each chapter is divided into sections, and each section can be found by turning to the page number shown for that section. Page numbers are composed of two parts: the first part is the chapter number, and the second part is the sequential page number within that chapter. For example, page 1-3 refers to the third page of chapter 1.

If you need further assistance in finding certain information, the index at the back of the manual contains an alphabetical listing of the contents of the manual by topic.

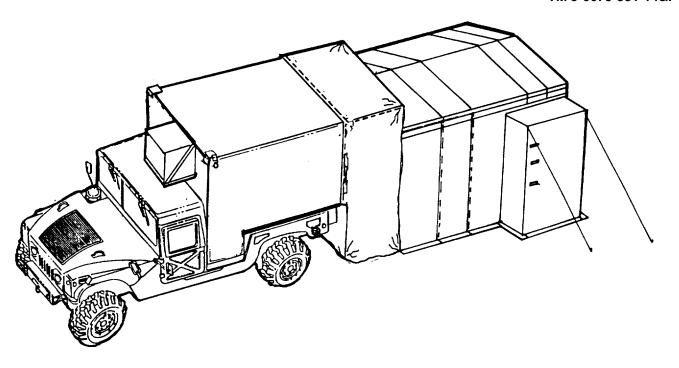


FIGURE 1-1. Downsized Direct Support Section (DDSS)

CHAPTER 1

INTRODUCTION

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- 1-1. <u>SCOPE</u>. This manual describes set up, operation, maintenance and tear down of the Downsized Direct Support Section (DDSS) of the Topographic Support System (TSS) for the crew/operator, unit, direct support, and general support maintenance levels. The purpose of the DDSS is to provide military geographic information to the unit to which it is assigned. This information includes databases consisting of organization names and the location, equipment, personnel, and other related information for that unit. The unit positions are plotted on video maps displayed on the color monitor, providing the Order of Battle Analyst with a visual representation of enemy unit movement activities in a specified geographic area. The M1037 High Mobility Multipurpose Wheeled Vehicle (HMMWV) is covered in TM 9-2320-280-10. The MIOIA2 Trailer covered in TM 9-2320-202-14 will transport the components of the DDSS.
- 1-2. **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).

- 1-3. **DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.** The DDSS must be destroyed in accordance with TM 750-244-3 to prevent enemy use.
- 1-4. <u>PREPARATION FOR STORAGE OR SHIPMENT</u>. Perform preparation for movement procedures (paragraph 2-8). Refer to paragraph 4-12 for administrative storage instructions.
- 1-5 NOMENCLATURE CROSS-REFERENCE LIST.

| Common Name | Official Nomenclature |
|-------------|---|
| BOOT | Boot-SICPS Wall |
| DDSS | Downsized Direct Support Section of the Topographic Support Section (TSS) |
| HEATER | Heater, Space, Multifuel with Blower, 60,000 BTU/HR, 120V, UH-68G |
| HMMWV | High Mobility Multipurpose Wheeled Vehicle, M1037 |
| SICPS TENT | Standardized Integrated Command Post System Tent Command Post |
| TRAILER | Trailer Utility, M1O1A2 |

- 1-6. REPORTING EQUIPMENT IMPROVEMENT RECONMENDATIONS (EIRs). If your DDSS needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. We'll send you a reply.
- 1-7. CORROSION PREVENTION AND CONTROL (CPC). Corrosion Prevention and Control (CPC) of Army material is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report. Use of key words such as "corrosion", "rust", "deterioration", or "cracking", will assure that the information is identified as a CPC problem.

This form should be submitted to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 631207-1798.

1-8. **WARRANTY INFORMATION**. Refer to the appropriate manufacturer's equipment manual supplied with the equipment for warranty/guarantee information on commercial equipment used in the DDSS.

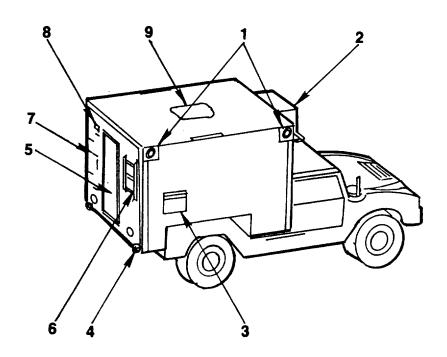
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| LOCATION AND DESCRIPTION OF MAJOR COMPONENTS | 1-10 |
| EQUIPMENT DATA | 1-11 |

- 1-9. **EQUIPMENT CHARACTERISTICS, CAPABILITIES.** AND FEATURES. The DDSS is a mobile facility for collecting, analyzing, cataloging, displaying, and retrieving topographic information. The system provides required military geographic support to the command to which it is assigned. The system is Land, Sea and Air Transportable.
 - a. **Highway**. The DDSS is transportable by a dedicated M1037 HMMWV and MIOIA2 3/4-ton trailer.
 - b. **Rail.** The DDSS is transportable by rail.
 - c. <u>Ocean and Waterways</u>. The DDSS is shipped overseas in volume (unit) movements. On deck stowage of the DDSS is permissible. The DDSS is shipped by breakbulk (general cargo), container, roll-on/roll-off, and barge-carrying ships.
 - d. <u>Lighterage.</u> In the Logistics-Over-The-Shore (LOTS) environment, the smallest lighter used to ship the DDSS is the Lighter Air-Cushioned Vehicle 30-ton (LACV-30).
 - e. Intermodal Containers. Not applicable.
 - f. Helicopters. The shelter and trailer is air transported externally by CH-47D.
 - g. <u>Fixed Wing Aircraft</u>. The DDSS is air transported by Air Force C-130, C-141, and C-5. The DDSS may also be air transported on the CRAF B747 side-door model in palletized configuration.
 - h. <u>Auxiliary Receptacles</u>. Orange microfix shelter receptacles are usable as auxiliary receptacles. The microfix shelter receptacles are controlled by a uninterruptable power supply (UPS). In the absence of a UPS, the power cord can be plugged into the dedicated microfix receptacle located on the left wall of the shelter. This enables all microfix receptacles to function as auxiliary receptacles.
- 1-10. **LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**. Major DDSS components are found on the exterior and interior of the shelter, and in the interior of the trailer (during transit).

1-10. LOCATION AND DESCRIPTION OF MUJOR COMPONNTS. (Cont'd)

a. Shelter Exterior Components.



COMPONENT FUNCTION

LIFT RING (1) Attachment points for lifting shelter from truck chassis.

ENVIRONMENTAL Controls internal shelter temperature. **CONTROL UNIT (2)**

POWER ENTRANCE BOX (3)Connections for grounding cable, power cables, and telephone lines.

BOOT SUPPORT Support for boot frame. BRACKET (4)

DOOR (5) Access to interior of shelter.

LADDER (6) Provides access to shelter.

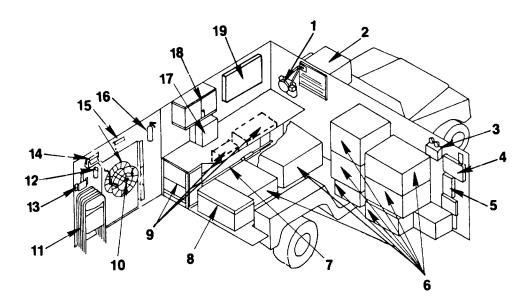
RETRACTABLE STEPS (7) Pull out for access to roof. Stored in retracted positions.

TENT LIGHT Power to tent lights. RECEPTACLE (8)

ESCAPE-HATCH (9) Emergency access to roof.

1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. (Cont'd)

b. Shelter Interior Components.



COMPONENT FUNCTION

MAGNIFIER LAMP (1)

Used when creating detailed mapping materials.

ENVIRONMENTAL CONTROL UNIT (2) Provides heating and cooling inside shelter.

EMERGENCY LIGHT (3) Provides light to shelter during primary power failure.

POWER DISTRIBUTION BOX (4) Monitors and controls distribution of power to DDSS.

MAIN SWITCH (5) Controls 120/240VAC, 60Hz power to DDSS.

REUSABLE CONTAINERS (6) Contents of containers determined by gaining unit.

GROUND ROD (7) Provides system ground.

ZOOM TRANSFER SCOPE (8) Provides optically superimposed photographic images on maps or charts.

FIELD FILES (9) Store supplies and documents.

CABLE REEL (10) Stowage for main power cable.

FOLDING CHAIRS (11) Shelter and tent seating.

FLASHLIGHT (12) Portable light source.

CRASH AXE (13) Provides means of escaping shelter in an emergency.

FIRST AID KIT (14) First aid supplies.

SAFETY LIGHT (15) Internal light source, battery operated.

FIRE EXTINGUISHER (16) Extinguish fires.

QUANTITY PROCESSING SYSTEM (17) Provides electronic estimation of area, distance, perimeter, and volume of

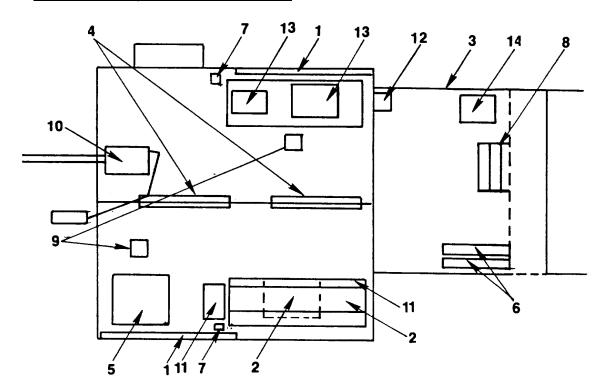
geographic shapes found on maps, drawings, aerial photographs.

STORAGE CABINET (18) For storage.

PORTABLE DRAFTING LIGHT TABLE (19) Provides working surface for preparing map overlays.

1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. (Cont'd)

c. SICPS Tent Components - Overhead View.



COMPONENT FUNCTION

MAP BOARD (1) Displays mapping materials.

TABLE/DIAZO PROCESS Table and ammonia process copier. REPRODUCTION SET (2)

TENT BOOT (3) Passageway which connects shelter and tent.

TENT LIGHTS (4) Provides fluorescent lighting for the tent.

DRAFTING TABLE/ EQUIPMENT (5) Table for creating map overlays and storage of drafting supplies.

MAP CASES (6) Storage for maps and flat paper.

ELECTRICAL RECEPTACLES (7) Provides power to operate electrical components.

LADDER (8) Provides access to shelter.

FOLDING CHAIRS (9)

HEATER ASSEMBLY(10) Provides heat to tent.

FIELD FILES (11) Storage for field data.

TOOL BOX (12) Contains operator's tools. Work table for ZTS or QPS

EYE WASH (14) Flush foreign materials/fluids from the eye.

1-11 **EQUIPMENT DATA.** Refer to applicable technical manual for individual component data (see Appendix A).

DDSS configuration weights.

| | Shelter | Trailer Assy | Trailer Equip | Shelter/ HMMWV | Gross System Wt |
|-----------------------------|---------------------------|---------------------------|-------------------------|---------------------------|----------------------------|
| Opera- tional, empty | 1,300 lbs (590.2 kg) | 1,515 lbs (687.8 kg) | 175 lbs (79.5 kg) | 6,605 lbs (2,998.7 kg) | 8,120 lbs (3,686.5 kg) |
| Opera- tional, loaded | 2,400 lbs (1,089.6 kg) | 2,690 lbs (1,221.3 kg) | 1,350 lbs (612.9 kg) | 8,540 lbs (3,877.2 kg) | 11,230 lbs (5,098.4 kg) |
| Ship- ping, empty | 1,300 lbs (590.2 kg) | 1,515 lbs (687.8 kg) | 175 lbs (79.5 kg) | 6,930 lbs (3,146.2 kg) | 8,445 lbs (3,834 kg) |
| Ship- ping, loaded | 2,400 lbs (1,089.6 kg) | 2,690 lbs (1,221.3 kg) | 1,350 lbs (612.9 kg) | 8,010 lbs (3,636.5 kg) | 10,720 lbs (4,866.9 kg) |
| | Length | Width | Height | | |
| Shelter | 203 in. (5.16 cm) | 85 in. (2.17 cm) | 100 in. (2.54 cm) | | |
| Trailer | 147 in. (3.74 cm) | 73.5 in. (1.87 cm) | 83 in. (2.11 cm) | | |
| Total Length | 350 in. (8.90 cm) | | | | |

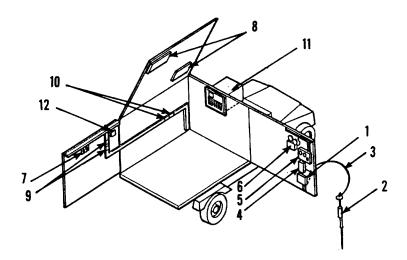
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1-12. **GENERAL.** Refer to TM 5-6675-326-14, Topographic Support System, Direct Support Section or applicable component technical manual for operation of individual components.

1-13. **ELECTRICAL SYSTEM**.

- a. <u>Power Entrance Box</u> (1). Connections for grounding cable, power cable, tent and heater power, and telephone lines.
- b. Ground Rod (2). Provides system ground.
- c. Ground Cable (3). Used with ground rod.



- d. Main Switch (4). Controls 110/240VAC, 60Hz power to DDSS.
- e. Power Distribution Box (5). Monitors and controls distribution of power to DDSS.
- f. Emergency Light (6). Battery-powered. Activated by external power failure.
- g. Safety Light (7). Internal light source, battery operated.
- h. Fluorescent Lights (8). Provide light to shelter during normal operation.
- i. Wall Switches (9). Used to control power to fluorescent and safety lights.

1-13. **ELECTRICAL SYSTEM**. (Cont'd)

- j. Wall Receptacles (10). Provide grounded outlets for plug-in equipment.
- k. Environmental Control Unit (11). Provides means of heating and cooling inside shelter.
- I. <u>Tent Light Receptacles</u> (12). Provides means of hook-up for tent lights.
- 1-14. <u>VENTILATION SYSTEM</u>. Air from the environmental control unit is controlled by movable louvers located on the main panel. Return air is filtered before entry into the environmental control unit. In vent mode, outside air is drawn into the system for distribution. Detailed description of the environmental control unit is contained in Operator's Organizational, Direct Support and General Support Maintenance Manual, Air Conditioner, Horizontal Compact, 9,000 BTU/HR TM 5-4120-370-14.

CHAPTER 2

OPERATING INSTRUCTIONS

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| Section II | Preventive Maintenance Checks and Services | 2-2 |
| Section III | Operation Under Usual Conditions | 2-4 |
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Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

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| OPERATOR CONTROLS AND INDICATORS | 2-1 | |

2-1. **OPERATOR CONTROLS AND INDICATORS**. Locations of operator controls and indicators are shown in Figure 2-1.

<u>Internal Shelter Controls and Indicators</u>. Internal Controls and Indicators consist of Switches, Circuit Breakers and Meters listed below:

| | Control or Indicator | Function |
|---|--|--|
| 1 | Phase Switch, 3 position | Controls phase voltage and frequency displayed on meters |
| 2 | Voltage Meter | Measures three phase AC voltages. |
| 3 | Frequency Meter | Monitors three phase frequencies. |
| 4 | Tent Power Circuit Breaker | Provides power supply to tent. |
| 5 | Roadside Power CB | Provides power to roadside receptacles. |
| 6 | Shelter Fluorescent Lights Circuit Breaker | Provides power for ceiling lights. |
| 7 | Emergency Light Circuit Breaker | Provides power for emergency light. |

2-1. OPERATOR CONTROLS AND INDICATORS. (Cont'd)

Internal Shelter Controls and Indicators (Cont'd)

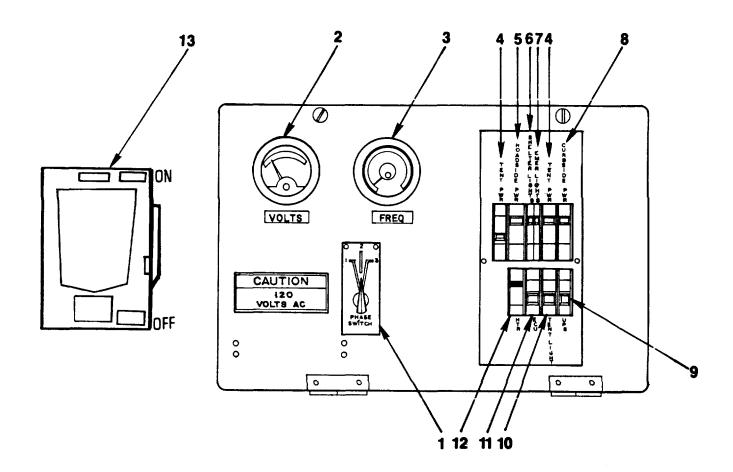
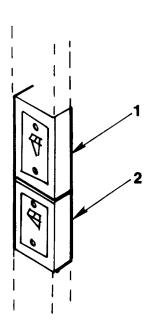


FIGURE 2-1. Operator Controls and Indicators

| | Control or Indicator | Function |
|----|---|--|
| 8 | Curbside Power Circuit Breaker | Power supply for curbside receptacles. |
| 9 | Uninterruptable Power Supply(UPS) Circuit Breaker | Power supply for UPS outlet. |
| 10 | SICPS Tent Lights Circuit Breaker | Controls amperage to tent lights. |
| 11 | Environmental Control Unit(ECU) Circuit | Controls amperage to ECU. |
| 12 | Heater Circuit Breaker | Controls amps to tent heater. |
| 13 | Main Switch | Controls three phase power to DDSS. |

2-1. **OPERATOR CONTROLS AND INDICATORS**. (Cont'd)

Internal Shelter Controls and Indicators (Cont'd)



| | Control or Indicator | Function |
|---|---------------------------|--|
| 1 | Fluorescent Light Switch | Controls power to shelter fluorescent lights. |
| 2 | Incandescent Light Switch | Controls power to incandescent shelter lights. |

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

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| PMCS PROCEDURES | 2-3 |

2-2. **GENERAL.**

- a. <u>Before You Operate</u>. Always keep in mind the WARNINGS and CAUTIONS. Perform your BEFORE PMCS prior to using your equipment.
- b. While You Operate. Always keep in mind the CAUTIONS and WARNINGS. Perform your DURING PMCS when the equipment is being used in its intended mission.
- c. <u>After You Operate</u>. Be sure to perform your AFTER PMCS after you have finished using your equipment for its intended mission.
- d. <u>If Your Equipment Fails To Operate</u>. Troubleshoot with the proper equipment. Report any deficiencies using the proper forms. See DA PAM 738-750.
- 2-3. **PMCS PROCEDURES**. Your Preventive Maintenance Checks and Services table (Table 2-1) lists inspections and care of your equipment required to keep it in good operating condition. The table is structured as follows: a. Item Number Column. This column shows the order in which to perform checks and services.
 - b. Interval Column. This column shows when to perform each check or service.
 - c. <u>Item to Check/Service Column</u>. This column identifies the item on which check or service is to be performed.
 - d. <u>Procedures Column</u>. This column shows how to perform required checks and services. Carefully follow these instructions. If you do not have the tools, or if the procedure shows you to, have unit maintenance do the work.
 - e. <u>Not Fully Mission Capable if: Column.</u> This column contains criteria used to decide whether or not equipment is ready and available for use. An entry in this column identifies conditions that make equipment not ready/available for readiness reporting.
 - f. <u>Instructions for Reporting and Correcting Deficiencies</u>. If equipment does not perform as required, refer to Chapter 3 under troubleshooting for possible problems. Report any malfunctions or failures on DA Form 2404, or refer to DA PAM 738-750.

2-3. **PMCS PROCEDURES**. (Cont'd)

Table 2-1. OPERATOR'S PREVENTIVE MAINTENANCE CHECKS AND SERVICES

NOTE

Within the designated interval, these checks are to be performed in order listed. If 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 equipment can be shut down.

| TEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: |
|-----------|----------|---|--|--|
| 1 | | HMMWV | Refer to TM 9-2320- | |
| 2 | Before | Shelter Assembly | 280-10 Check exterior of shelter for missing components, exterior damage, or leaks. Clean and remove debris. | Punctures, cracks or open seams are present. |
| 3 | | Tail Lights | Refer to TM 9-2320- 280-10. | |

2-3. **PMCS PROCEDURES**. (Cont'd)

Table 2-1. OPERATOR'S PREVENTIVE MAINTENANCE CHECKS AND SERVICES (Cont'd)

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|------------|---|---|--|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 4 | Before | Door | Check door hinges and latch assembly for missing or damaged items. Check for proper operation of latch assembly. | Door hinges or latch components missing or broken. | |
| | | | | | |
| 5 | Before | Cable Reel | Check cable reel for missing or damaged knob assembly. | | |
| 6 | Before | Cable Assembly | Check cables for cuts, corrosion, and proper mating to receptacles on power | Broken/cut or corroded cables will not connect to m a t i n g entrance panel. receptacles. | |
| | | (| | | |

2-6

| | Operator Preventive Maintenance Checks and Services -for DDSS | | | | |
|------------|---|---|--|-------------------------------|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| | | | WARNING | | |
| | | | ELECTRICAL SHOCK | | |
| | | | Ensure that all circuit breakers and | | |
| | | | "Main Switch" are off | | |
| | | | before applying power | | |
| | | | to the DDSS. Failure to do so may result | | |
| | | | in death or serious | | |
| 7 | Defens | Davier Healton | injury. | | |
| 7 | Before | Power Hookup Box | | | |
| | | | | | |
| | | | | | |
| | | a. Cover | Check ball stud, | Cover can not be | |
| | | Assembly | cover prop rod, and stud assemblies for | secured to shelter. | |
| | | | missing, bent, or broken hardware. | | |
| | | | 2-7 | | |

2-3. **PMCS PROCEDURE**. (Cont'd)

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

| | Operator Preventive Maintenance Checks and Services -for DDSS | | | | |
|------------|---|---|--|---|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| | | | WARNING ELECTRICAL SHOCK Ensure that all circuit breakers and "Main Switch" are off before applying power to the DDSS. Failure to do so may result in death or serious injury. | | |
| 7 Cont) | Before | b. Main Power Hook Up | Check hook up cover, threads, and connector pins. | Threads damaged, pins bent, broken or corroded. | |
| | TENT POWER 120 VAC, 50/40 HZ | MAIN POWER | | | |

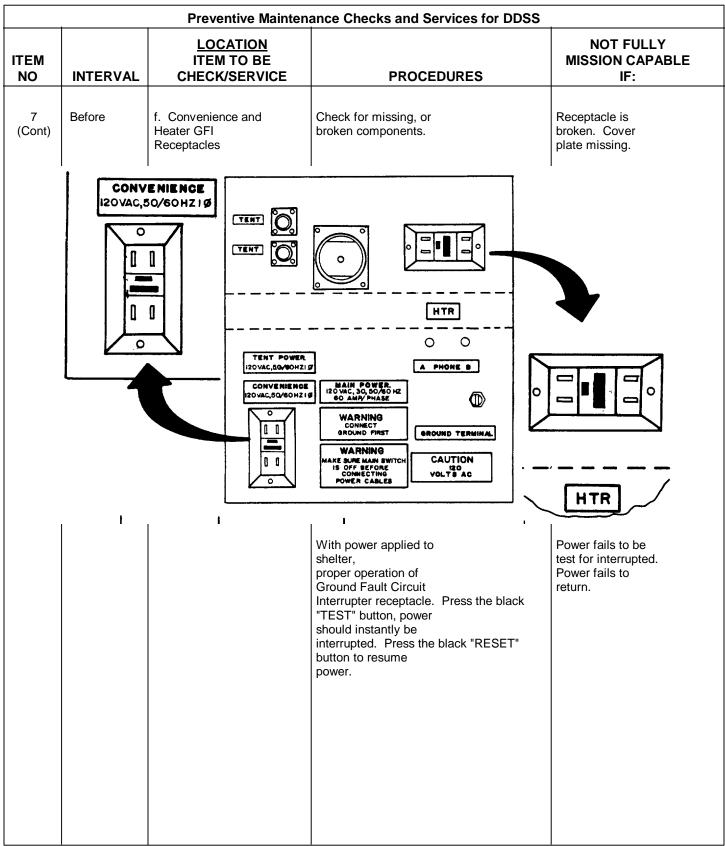
| | Preventive Maintenance Checks and Services for DDSS | | | |
|-------------|---|---|---|---|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: |
| 7 (Cont) | | c. Ground Terminal | Check threads, clamp and nut for damaged or missing parts. Check terminal for tightness. | Threads damaged clamp or nut missing. Ground terminal can not be tightened. |
| | | | | |
| | Before | d. Telephone Binding Post | Check for binding post covers, and insecure mountings. Check for proper operation by pressing binding posts down. | |
| | | | PHONE B | |
| | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|------------|---|---|---|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 7 | Before | e. Tent Power | WARNING HIGH VOLTAGE Use extreme caution when performing checks, services or, maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury. Check hook-up | Threads damaged | |
| (Cont) | Deloie | Receptacles | threads, and connector pins for damage. | or pins bent, broken, or corroded. | |
| | | T POWER C,50/90HZI 9 | CONVENIENCE IZOVAC, 50/80 MZ I # IZO VAC, 30, 50/80 MZ 60 AMP/PHASE WARNING CONNECT | HTR O O PHONE B CAUTION PROUND TERMINAL CAUTION VOLTS AC | |
| | | | | | |

| | | Preventive Mainte | nance Checks and Services for | DDSS | |
|------------|-----------------------------|---|--|------|-------------------------------------|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | | NOT FULLY MISSION CAPABLE IF: |
| | | | Apply power to shelter and test tent power circuit breaker (located on power distribution box) for proper operation. Turn on "Tent Power" circuit breaker. Press yellow "PUSH TO TEST" button, breaker will trip. Reset breaker to "ON" position. | | |
| | VOLTS CAUTION 120 VOLTS AC | FREQ | U2 (4 m - 0 | | COKBW-Dm +3K |
| | | • | | | |

2-3. PMCS PROCEDURES. (Cont'd)

Table 2-1. OPERATOR'S PREVENTIVE MAINTENANCE CHECKS AND SERVICES (Cont'd)



| | Preventive Maintenance Checks and Services for DDSS | | | | |
|------------|---|--|--|---|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 8 | Before | Electrical a. Power Distribution Box | Check cover for missing, broken or loose screws or hinges. | Cover screws or hinges broken or missing. | |
| | | CAUTION VOLTS AC O O O O O O O O O O O O O O O O O O | | Circuit breaker damaged or will not stay in off position. | |

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|-------------|---|--|--|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 8 (Cont) | | c. Phase Switch | Check that knob is in place and check that switch functions properly. | Knob missing. Switch does not function properly. | |
| | | VOLTS FREQ CAUTION VOLTS AC O O O | | PHASE WITCH | |
| | | d. Voltmeter | Check for damage to voltmeter. Check voltmeter reading. Observe voltage phases 1, 2, and 3. Voltage should read 120v ± 5v. | Broken glass cover. Voltmeter does not read 120 for volts in all three phases. | |
| | C | AUTION 120 DITS AC PREQ PRES PREQ PRES PREQ PRES PREQ PRES PRES | O O O O O O O O O O O O O O O O O O O | OLTS | |
| | | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|-------------|---|--|---|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 8 (Cont) | Before | | Check for damage to frequency meter. Check frequency meter reading. Observe frequency for phases 1, 2, and 3. Frequency should be 60Hz ± 1Hz. | Broken glass cover. Frequency does not read 60 Hz in all three phases. | |
| 9 | CAUTIO 120 VOLTS A | FREQ N C N C N C N C N C N C N C N | Check wall switches for missing or broken components and that switches function | FREQ Cover plates missing or switches do not function properly. | |
| | | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | | |
|------------|---|---|--|---|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | | |
| 10 | Before | Receptacles | Check receptacles for missing or broken components. | Cover plates are missing or Receptacles are broken. | | |
| 11 | Before | Incandescent Light | Check light cover and bulbs for damage. Set "INCANDESCENT LIGHT" switch to on (up position), check for burned out bulbs. | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | | |
|------------|---|---|--|-------------------------------------|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | | |
| 12 | Before | Emergency Light Assembly | Check emergency light case, lamp housing, and power cord for damaged or missing parts. Test emergency light for proper operation. Plug power cord into "EMERGENCY LIGHT" receptacle. Turn "Emergency Light" circuit breaker (located on power distribution box) to on. Check, "READY" lamp should be lit. Turn emergency light toggle switch to on (up position). Test No. 1 Press red "TEST" button, emergency light should light. Test No. 2 Disconnect emergency light power cord from receptacle, "READY" lamp should go off and emergency lights should be on. | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | | |
|------------|---|---|--|-------------------------------------|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | | |
| 13 | Before | Fluorescent Ceiling Lights | Check light fixtures for missing screws, and damaged light diffuser. Set "SHEL-TER LIGHT" circuit breaker to on. Set fluorescent light switch to on (up position), check for burned out lamps. | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | | |
|------------|---|---|--|--|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | | |
| 14 | Before | Portable Drafting Light Table | Check for damage to light diffuser. Turn on "ROADSIDE POWER" circuit breaker. Plug light table into "AUX" receptacle and set light table switch to on, check for burned out lamps. | Light diffuser damaged. Lamps do not operate. | | |
| 15 | Before | Tent Light Receptacle | Check for damage to cover, return spring, and weather proof seal. | Cover is missing or broken. Weather proof seal is torn or missing. | | |

| | Table 2-1. OPERATOR'S PREVENTIVE MAINTENANCE CHECKS AND SERVICES (Cont'd) | | | | |
|------------|---|---|--|---|--|
| | | | (Cont d) | | |
| | | Preventive Mainte | nace Checks and Services for DDSS | | |
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 16 | Before | Environmental Control Unit | Refer to TM 5-4120- 378-14 | | |
| | | ECU Cable | Check cable and plug assembly for frays or damaged parts. | Cable frayed, plug pins bent or broken. | |
| | | | | | |
| 17 | Before | Magnifier Lamp | Check light tube, lamp cord, lamp shade, and mounting bracket for damaged or missing parts. Plug lamp into "AUX" receptacle and turn on lamp switch. Check for burned out lamp tube. | | |
| | | | | | |
| | | | | | |

| ITEM NO INTERVAL CHECK/SERVICE PROCEDURES 18 Before Boot Check boot and boot support poles for cleanliness, damaged, or missing parts. Check fabric for rips or tears. Refer to FM 10-16 for repair procedures. 19 Before Wall Cabinet Check mounting screws, door latch components, and cabinet exterior. Check latch assembly for proper function. | Preventive Maintenance Checks and Services for DDSS | | | | |
|--|---|----------|--------------|--|---|
| support poles for cleanliness, damaged, or missing parts. Check fabric for rips or tears. Refer to FM 10-16 for repair procedures. Check mounting screws, door latch components, and cabinet exterior. Check latch assembly for proper function. | | INTERVAL | ITEM TO BE | PROCEDURES | MISSION CAPABLE |
| screws, door latch components, and cabinet exterior. Check latch assembly for proper function. | 18 | Before | Boot | support poles for cleanliness, damaged, or missing parts. Check fabric for rips or tears. Refer to | or open seams. Missing or broken Support pole |
| screws, door latch components, and cabinet exterior. Check latch assembly for proper function. | | | | | |
| | 19 | Before | Wall Cabinet | screws, door latch components, and cabinet exterior. Check latch assembly for proper function. | |

| | | Preventive Mainter | nance Checks and Services for DDSS | |
|------------|----------|---|---|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: |
| 20 | Before | Escape Hatch | Check for damaged or missing latching components. Check for proper operation of latching mechanism. | Screws missing, latch mechanism damaged or does not function properly. |
| | | | | |
| 21 | Before | Eye Wash Kit | Check for damage to plastic housing and wash solution reservoir is full. | Housing is cracked or broken, eye wash covers missing. Reservoir is not full. |
| | | | | |
| | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|------------|--|---|---|---|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 22 | Before | Trailer | Refer to TM 9-2330- 202-14&P | | |
| 23 | Before | Trailer Frame | Check for damage and security of trailer frame to trailer. Check curbside and roadside boxes for damage and security. | Trailer frame is not secure to trailer. | |
| | A decorate of the second of th | | | | |

| | Preventive Maintenance Checks and Services for DDSS | | | | |
|------------|---|---|---|---|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | |
| 24 | Before | MULTIFUEL Space Heater | Refer to TM 5-4520- 253-13 | | |
| 25 | Before | Heater Adapter Assembly | Check for missing, damaged, or loose components. Check fuel lines for leaks, cracks or tears. Check exhaust hose for breaks or constrictions. | Fuel lines leak, has cracks or tears or exhaust hose is constricted. | |
| | | I | | | |
| | | | | | |
| 26 | Before | Zoom Transfer Scope | Refer to TM 5-6675- 326-14 | | |
| 27 | Before | Quantity Processing System | Refer to TM 5-6675- 326-14 | | |

| Preventive Maintenance Checks and Services for DDSS | | | | |
|---|----------|---|---|-------------------------------------|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: |
| 28 | Before | Fire Extinguisher | Check nozzle and adapter for damage. Check to see if seal is broken, replace as required. | |
| 29 | Before | Diazo Repro- duction Set | Refer to TM 5-3610- 256-14 | |
| 30 | Before | SICPS Tent | Refer to TM 10-8340- 225-10 | |
| | | | | |

Section III.

OPERATION UNDER USUAL CONDITIONS

| CONTENTS | PARA |
|---|------|
| PREPARATION FOR USE | 2-4 |
| INITIAL ADJUSTMENTS AND DAILY CHECKS | 2-5 |
| OPERATING PROCEDURE | 2-6 |
| OPERATION OF AUXILIARY EQUIPMENT | 2-7 |
| PREPARATION FOR MOVEMENT | 2-8 |
| OPERATING INSTRUCTIONS ON DECALS AND INSTRUCTION PLATES | 2-9 |

2-4. PREPARATION FOR USE. Preparing the DDSS for use consists of:

- site selection
- removing tent from trailer
- setting up tent
- unloading trailer and shelter
- installing boot
- setting up mission equipment
- connecting components
- applying power
- a. Site selection.

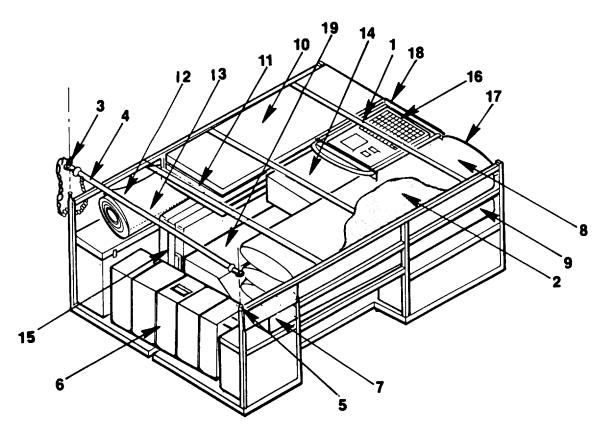
Select a site having the following features:

- (1) level area 20 ft x 50 ft minimum
- (2) clear of rocks and underbrush
- (3) sheltered from high winds
- (4) good drainage
- b. Pull trailer into position.
- c. Lock trailer brakes (refer to TM 9-2330-202-14).

WARNING

Tongue weight of the trailer is in excess of 80 pounds and hitch is in an awkward position. Two soldiers are required to lift the hitch when disconnecting the trailer. Exercise care when disconnecting. Failure to do so may result in personal injury or damage to equipment.

- d. Disconnect trailer from HMMWV (refer to TM 9-2330-202-14).
- e. Move HMMWV to a position next to roadside of trailer.



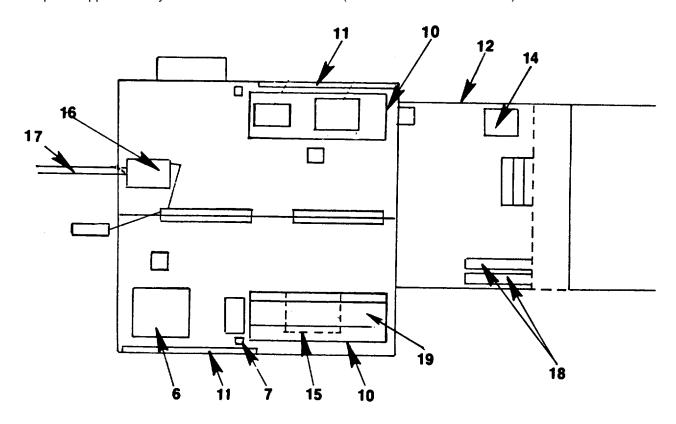
- f. Unloading trailer.
 - (1) Remove tarpaulin straps (1) and tarpaulin (2) from trailer (refer to TM 9-2330-202-14).
 - (2) Remove pull pins (3) from trailer frame stay bar (4).
 - (3) Remove stay bar (4) from supports (5). Lay stay bar outside trailer. Stay bar remains attached to trailer by chain.

- f. Unloading trailer. (Cont'd)
 - (4) Lower trailer tailgate and release tie down straps.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (5) Remove drafting equipment set (6) and place on ground on roadside of HMMWV.
- (6) Remove tool box (7).
- (7) Remove three tent bags (8) and place on ground.
- (8) Remove tent light canister (9) and place on ground near tent bags.
- (9) Setup tent approximately 8 to 10 feet behind HMMWV (refer to TM 10-8340-225-10).



- f. Unloading trailer. (Cont'd)
 - (10) Remove two folding tables (10) and set up in tent.
 - (11) Remove two map boards (11) and hang from tent frame in assigned location.
 - (12) Remove shelter boot (12) and place on ground.
 - (13) Remove boot frame (13) and place on ground.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (14) Place drafting equipment set (6) on floor inside tent near position where it is to be used.
- (15) Remove eye wash kit (14) and place inside tent.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

(16) Remove diazo expendable set (15) and place on floor inside tent under diazo reproduction table.

f. Unloading trailer. (Cont'd)

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

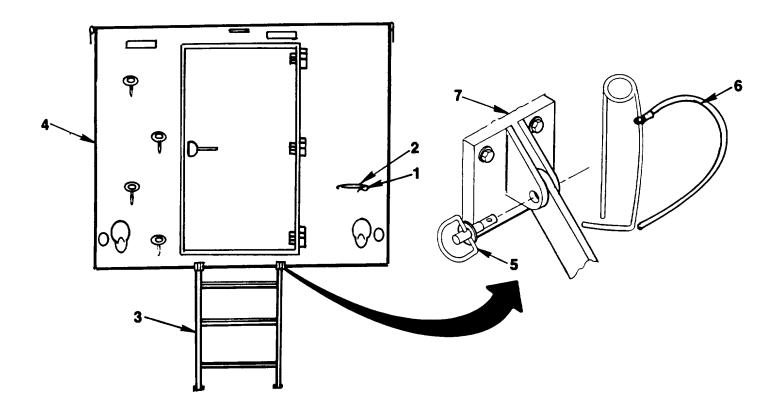
- (17) Remove multifuel space heater (16) and place inside tent.
- (18) Remove heater exhaust hose (17) and place near multifuel space heater (16).
- (19) Remove map cases (18) and place in assigned location.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (20) Remove diazo reproduction set (19) and place on table inside tent.
- (21) Stow tent light canister (9) and empty tent bags (8) in trailer.

- g. Removing and setting up ladder.
 - (1) Remove retaining clip (1) from pin (2) to remove ladder (3) from shelter (4).
 - (2) Remove retaining clips (5) and pins (6) from brackets (7).



(3) Position ladder (3) in brackets (7) below shelter door.

NOTE

Ladder must be positioned so that steps are level. If ladder is reversed, steps are incorrectly positioned, and bottom of ladder does not properly contact ground.

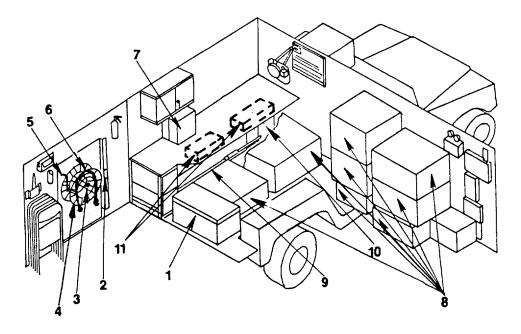
- (4) Install pins (5) through inside of ladder brackets (7) and ladder (3).
- (5) Install retaining clips (6) through pins (5).

h. Unloading shelter.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (1) Remove Zoom Transfer Scope (1) and place on table inside tent.
- (2) Enter shelter and turn on shelter incandescent lights (2).
- (3) Close door securely.
- (4) Remove cable reel retaining nut (3).



WARNING

Cable reel weighs in excess of 80 pounds. Ensure that two soldiers lift the reel together. Failure to do so may result in personal injury or damage to equipment.

- (5) Remove cable reel (4) from bracket (5) and set reel (4) on its side on floor of shelter.
- (6) Open door; one soldier exit shelter.
- (7) Unwind cable (6) from reel (4) and form coil on ground.

- h. Unloading Shelter. (Cont'd)
 - (8) Move coiled power cable to curb side of shelter and place on ground.
 - (9) Stow empty cable reel (4) in trailer.
 - (10) Remove Quantity Processing Set (7) and place inside tent.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (11) Remove equipment from reusable containers (8) and place equipment into designated position.
- (12) Place empty containers inside trailer.
- (13) Remove Ground Rod (9) and place on ground on curb side of shelter near Main Power Cable.
- (14) Photo Interpretation Kit (10) remains in shelter.

WARNING

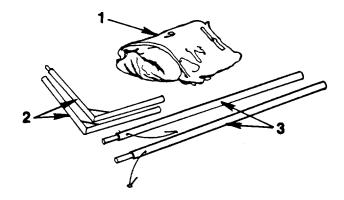
Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

(15) Remove two of the Field File Cabinets (11) from shelter and place in assigned locations in tent.

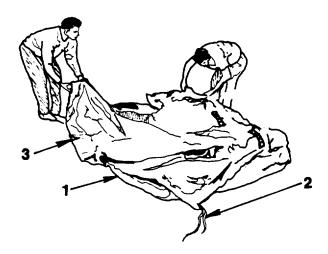
i. Installing boot.

NOTE

Boot installation requires three soldiers.



(1) Place boot (1) cross bars (2) and support poles (3) on ground between shelter and tent.



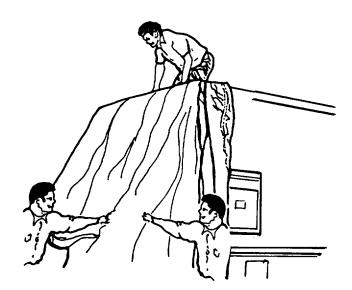
- (2) Unfold boot (1) and locate end of boot with belly strap (2).
- (3) Place boot (1) on ground with buckle strap (3) on roadside of shelter.

i. Installing boot. (Cont'd)

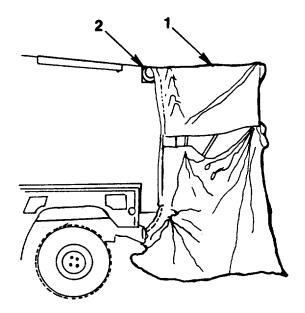
WARNING

Exercise extreme care when working on shelter roof. A fall may result in injury or death.

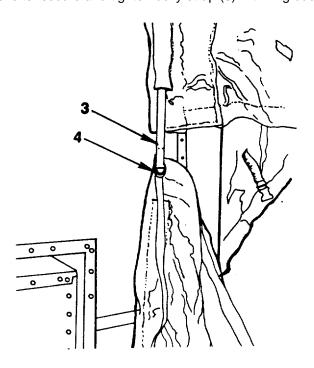
- (4) Soldier enters shelter and climbs through open escape hatch.
- (5) Close escape hatch and take prone position near rear edge of roof.
- (6) Remove ladder, place it in shelter, and close shelter door.
- (7) Two soldiers lift top of belly strap end of boot to soldier on roof.



- i. Installing boot. (Cont'd)
 - (8) Soldier on roof pulls end of boot (1) over rear lift ring bracket (2) of shelter.

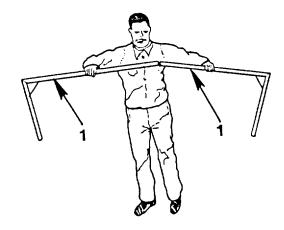


- (9) Two soldiers on ground position boot belly strap (3)under bottom of shelter.
- (10) Align boot corner pockets with bottom of shelter.
- (11) On roadside of shelter secure and tighten belly strap (3) with ring buckle (4).

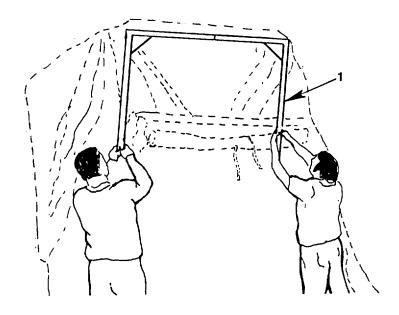


i. Installing boot. (Cont'd)

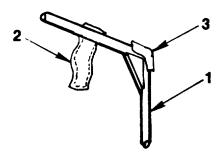
(12) Assemble boot support crossbars (1).



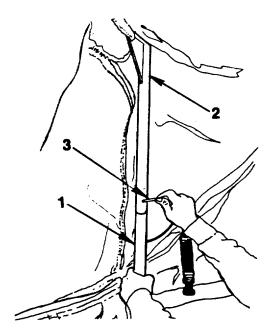
(13) Two soldiers enter open end of boot with assembled cross bar (1).



i. Installing boot. (Cont'd)

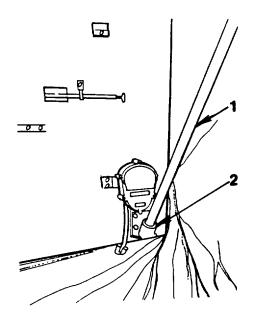


- (14) Center cross bar (1) against velcro fasteners (2).
- (15) Check ends of cross bar for fit in corner pockets (3) of boot.
- (16) Secure cross bar (1) with velcro fasteners (2).

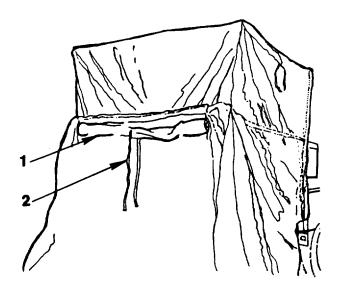


- (17) Two soldiers enter boot with boot support poles (1) and insert support poles (1) into cross bar (2).
- (18) Secure cross bar (2) to support poles (1) with attached pins (3) by inserting attached pins (3) through holes on assembled support poles (1).

- i. Installing boot. (Cont'd)
 - (19) Two soldiers simultaneously raise boot support (1) and insert bottom ends of support into bracket (2) located below tail lights.



- (20) Roll up rear flap (1) of boot and secure with straps (2).
- (21) Reattach ladder to brackets below door.



i. Installing boot. (Cont'd)

NOTE

Ladder must be positioned so that steps are level. If ladder is reversed, steps are incorrectly positioned, and bottom of ladder does not properly contact ground.

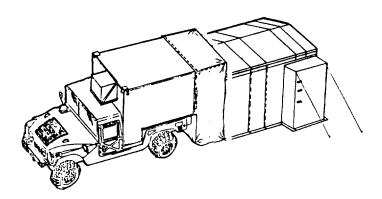
When boot is properly positioned, boot support cross bar fits into sewn pockets in corners of boot, and ladder rests on a rectangular section of canvas.

- (22) Check boot for even overlap and good fit on shelter corners. Tighten roadside ring buckle.
- (23) Soldier on roof can now exit shelter.
- (24) Temporarily remove ladder.

CAUTION

Ensure that boot does NOT get caught underneath HMMWV tires while HMMWV is backing up. Failure to do so may result in damage to the boot.

(25) Back HMMWV to a position where rear of shelter is approximately six feet from tent. Shelter is parallel with the tent.



- i. Installing boot. (Cont'd)
 - (26) Shut down the HMMWV and set parking brake.
 - (27) Attach boot to tent using velcro strips and straps located on boot and around tent door.
 - (28) Reinstall ladder.

NOTE

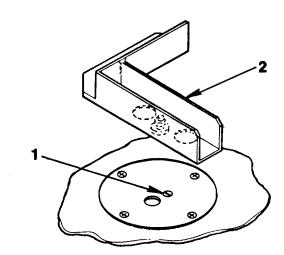
Bottom of ladder should rest on reinforced area of boot.

j. Preparing shelter for use.

NOTE

Floor bracket has three positions: OPEN-for removal or installation of floor bracket; LOCK-for locking floor bracket and PLUG-in this position, installation holes are covered.

(1) Turn screw (1) until floor bracket lock (2) is in open position. Remove floor brackets (2) and stow in trailer. Turn screw until floor bracket lock (2) is in the plug position.



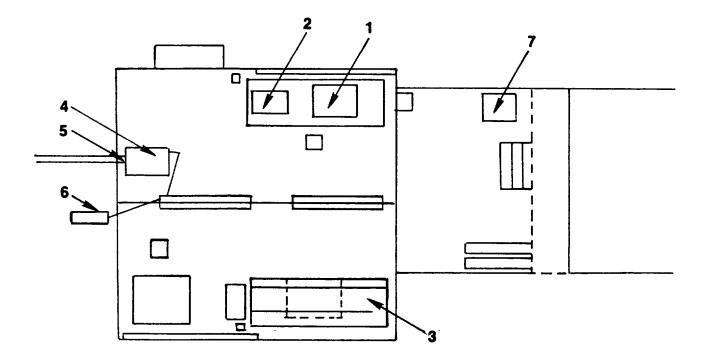
- (2) Press tang at rear of each buckle to loosen straps around chairs. Set chairs in tent and in shelter as needed.
- (3) Reach under shelf and pull writing surface forward until it stops. Pull down on rear of writing surface to flip surface up.
- (4) Ensure that main switch, environmental control unit, and all circuit breakers are OFF.

k. Preparing SICPS tent for use.

WARNING

Two persons are required to lift the zoom transfer scope (ZTS) due to weight. Failure to adhere to this warning may result in serious injury or damage to equipment.

(1) Remove Zoom Transfer Scope (1) from case and place it in its assigned position.



- (2) Store empty case in trailer.
- (3) Remove Quantity Processing System (2) from case and place it in its assigned position. Store empty case.

k. Preparing SICPS tent for use. (Cont'd)

WARNING

Ammonia vapor may cause blindness, skin burns, or death.

Ensure adequate ventilation prior to servicing or operating Diazo Reproduction Set.

Wear eye protection before servicing ammonia system.

Do not breathe vapor.

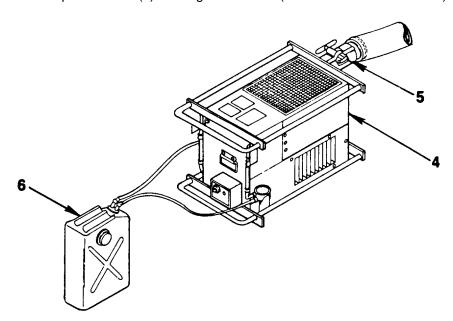
Do not let ammonia contact skin or clothing.

(4) Remove cover from Diazo Reproduction Set (3) and store cover.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

(5) Set up Multifuel Space Heater (4) in assigned location (Refer to TM5-4520-253-13).

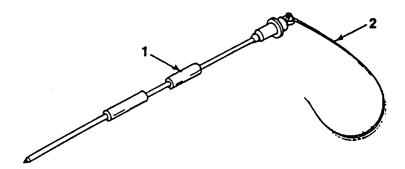


- (6) Secure Heater Exhaust Hose to Multifuel Space Heater with coupling (5).
- (7) Connect fuel can (6) to heater (4).

- k. Preparing SICPS tent for use. (Cont'd)
 - (8) Remove heater power cable from auxiliary box on trailer and connect to Multifuel Space Heater.
 - (9) Route heater exhaust hose and heater power cable under nearest wall of tent.
 - (10) Open power entrance panel and connect heater cable.
 - (11) Remove drawstring bag from auxiliary storage box in trailer.
 - (12) Remove gas mask and ammonia spill kit from drawstring bag, and place in tent near Diazo Reproduction Set (3).
 - (13) Fill Eyewash Station (7), and place it in assigned location.
- I. Connecting power.

NOTE

Locate ground rod near power entrance box.



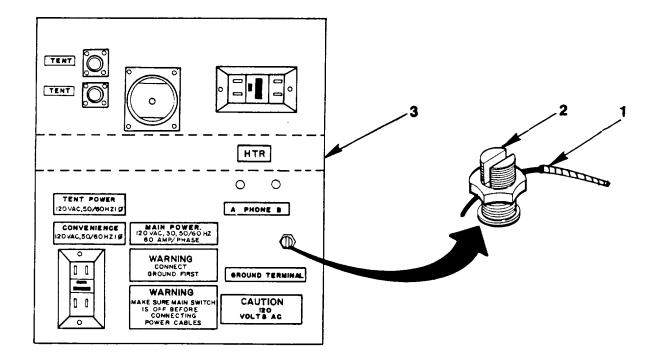
- (1) Drive Ground Rod (1) into ground until firmly planted.
- (2) Attach Ground Cable (2) to Ground Rod (1).

I. Connecting power. (Cont'd)

WARNING

Use extreme caution when performing checks, services, or maintenance at or near power entrance box. Failure to do so may result in death or serious injury.

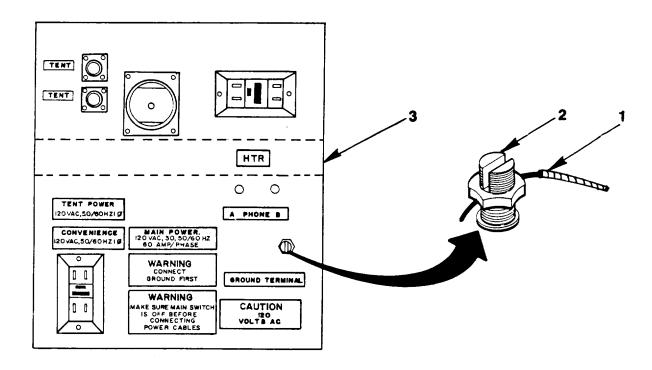
- (3) Attach ground cable (1) to ground post assembly (2) on power entrance panel (3).
- (4) Remove two power cables with outlet boxes from auxiliary storage box in trailer.
- (5) Position power cables with outlet boxes in tent.
- (6) Route cables under tent wall, and connect to shelter power entrance panel.
- (7) Remove tent lighting extension cord from auxiliary storage box in trailer.
- (8) Connect tent light plug and extension cable to tent light receptacle.



I. Connecting power. (Cont'd)

WARNING

Ensure that all individual circuit breakers and Main Switch inside shelter are OFF before applying power to the DDSS. Failure to do so may result in death or serious injury.



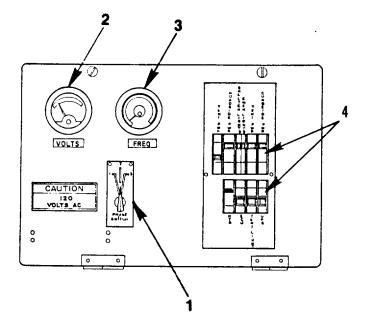
- (9) Connect Main Power Cable (1) to Main Power Connector (2) on Power Entrance Panel (3).
- (10) Set circuit breakers and Main Switch inside shelter to OFF.
- (11) Have generator operator connect Main Power Cable to generator output and apply power.

NOTE

Normal readings for procedures 12, 13, and 14 are:

- Voltage -- 120 Volts
- Frequency -- 60 Hz

I. Connecting power. (Cont'd)



- (12) Using Three Position Switch (1), check Voltmeter (2) and Frequency Meter (3) to ensure that readings are normal for each phase.
- (13) Turn on Main Switch and recheck meters (2) and (3) for normal readings. (Normal voltage equals $120v \pm 5$ volts and normal frequency equals $60 \text{ Hz} \pm 1 \text{ Hz}$)
- (14) Turn on individual circuit breakers (4) one at a time while monitoring meters for normal readings.
- (15) Turn on and operate individual equipment as required in accordance with each equipment's technical manual.
- (16) Turn on fluorescent lights.
- (17) Turn off incandescent light switch.
- **2-5 INITIAL ADJUSTMENTS AND DAILY CHECKS.** Refer to the technical manuals for the mission equipment used in the DDSS for initial adjustments and daily checks. See Appendix A, References, for TM numbers. Initial adjustments for the shelter and boot are covered in Section 2-4. DDSS daily checks are listed in the Operator Preventive Maintenance Checks and Services, Table 2-1.
- **2-6 OPERATING PROCEDURE**. Operating procedures for the mission equipment used in the DDSS are contained in the technical manuals for each equipment. See Appendix A, References, for applicable TM numbers.

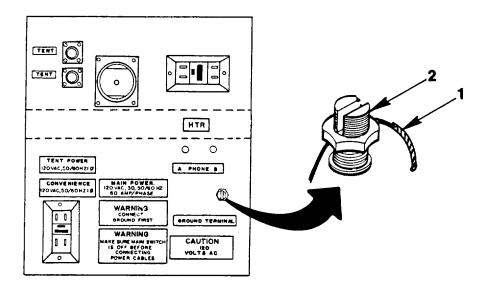
- **2-7 OPERATION OF AUXILIARY EOUIPMENT.** The DDSS requires an external 120V AC three-phase power source such as that provided by a generator. Refer to the technical manual pertinent to the generator being used for operating instructions.
- **2-8 PREPARATION FOR MOVEMENT.** Striking the DDSS in preparation for movement consists of:
 - · disconnecting power
 - · striking mission equipment
 - striking boot
 - · loading shelter and trailer
 - striking the SICPS
 - · loading SICPS onto the trailer
 - hitching trailer to HMMWV
 - a. Disconnecting Power.

WARNING

Use extreme caution when performing checks, services, or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

- (1) Turn off all equipment in accordance with each equipment's technical manual.
- (2) Turn off all circuit breakers.
- (3) Turn off Main Switch.
- (4) Disconnect Main Power Cable from power entrance panel.
- (5) Have generator operator disconnect Main Power Cable from generator.
- (6) Wind Main Power Cable on cable reel.

- a. Disconnecting Power. (Cont'd)
 - (7) Disconnect tent power cables and stow in trailer auxiliary storage box.



WARNING

Use extreme caution when performing checks, services, or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

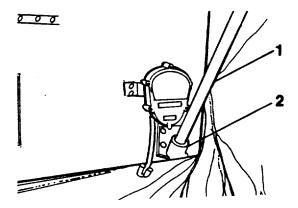
- (8) Detach Ground Cable (2) from Ground Post (4) in Power Entrance Panel and stow in shelter.
- (9) Disconnect heater power cable and stow in trailer auxiliary storage box.
- (10) Disconnect tent lighting cable and tent lights from tent light receptacle and stow in trailer auxiliary storage box.
- (11) Turn on incandescent light switch.

b. Striking Boot.

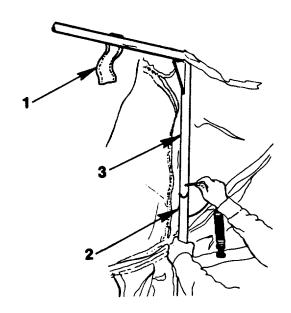
NOTE

Three soldiers are required to strike boot.

- (1) Remove ladder, place in shelter and close door.
- (2) Disconnect boot velcro fasteners and straps from tent.
- (3) Enter boot and remove boot support (1) from boot support brackets (2).



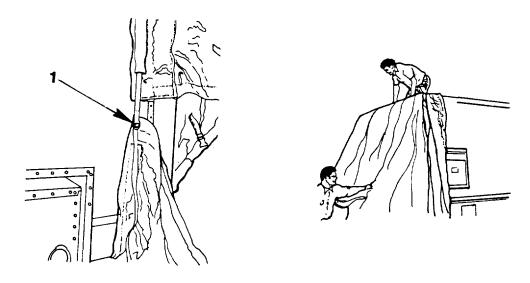
- (4) Disconnect three velcro fasteners (1) from boot support cross bar and remove boot support (3) from boot.
- (5) Disassemble boot support (3) and (2) and lay aside.
- (6) Unroll flap.



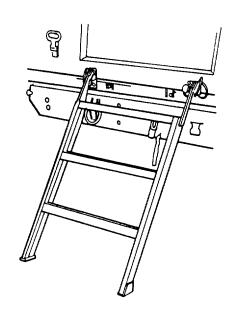
- b. Striking Boot. (Cont'd)
 - (7) Loosen and separate plain end and double ring end of belly strap (1) on roadside of boot.

CAUTION

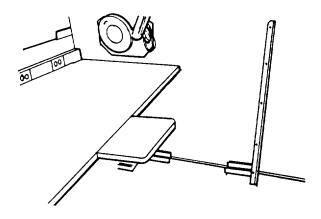
Be careful when removing boot from shelter. Boot fabric can be torn.



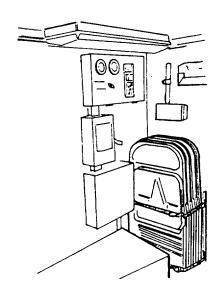
- (8) Grasp outside edges of boot and carefully slide boot from shelter.
- (9) Fold boot and lay aside.
- (10) Install ladder.



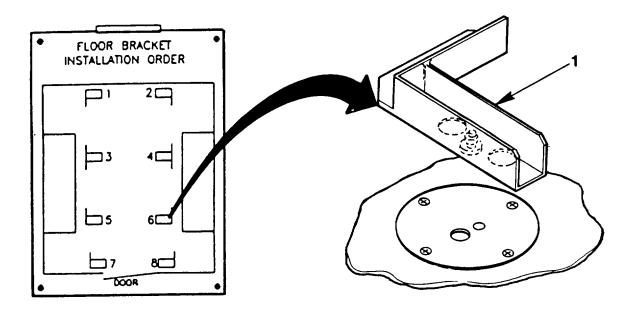
- c. Preparing Shelter for Movement.
 - (1) Prepare Environmental Control Unit for movement (refer to TM 5-4120-378-14).



- (2) Stow Writing Surface.
- (3) Stow all chairs in shelter and secure with straps provided.



- c. Preparing Shelter for Movement. (Cont'd)
 - (4) Install 8 floor brackets (1).



NOTE

Floor bracket has 3 positions: OPEN - for removal or installation of floor bracket; LOCK - for locking floor bracket and PLUG - in this position installation holes are covered.

- (5) Stow photo interpretation kit in assigned position in shelter.
- (6) Stow quantity processing set in assigned position in shelter.

WARNING

Cable reel weighs in excess of 80 pounds. Ensure that two soldiers lift the reel together. Failure to do so may result in personal injury or damage to equipment.

(7) Install cable reel with main power cable on shelter door.

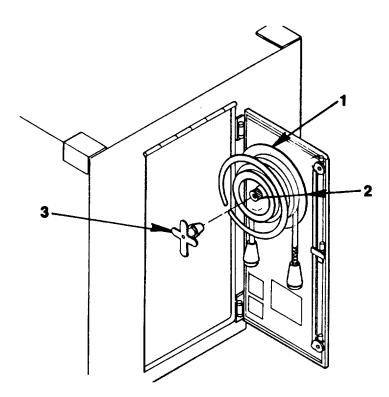
c. Preparing Shelter for Movement. (Cont'd)

WARNING

Cable reel weighs in excess of 80 pounds. Ensure that two soldiers lift the reel together. Failure to do so may result in personal injury or damage to equipment.

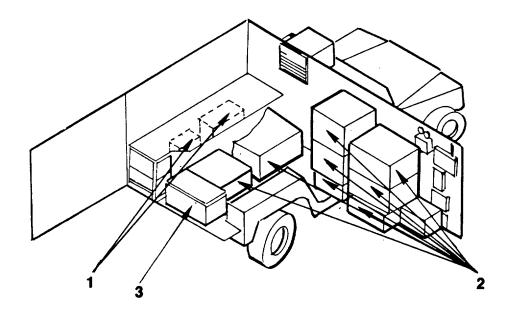
CAUTION

Ensure that cable reel retaining rod is properly positioned when installing cable reel. Failure to do so may cause damage to equipment.

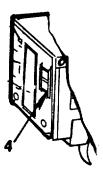


- (8) Position cable reel (1) so that cable reel retaining rod (2) extends through hub of cable reel, and install cable reel into cable reel bracket.
- (9) Install cable reel retaining nut (3) onto cable reel retaining rod (2) and tighten securely.

c. Preparing Shelter for Movement. (Cont'd)



- (10) Place field filing cabinets (1) into assigned locations in shelter and secure with straps.
- (11) Place reusable containers (2) into assigned locations in shelter and secure with straps.
- (12) Place zoom transfer scope (3) into assigned location in shelter and secure with straps.
- (13) Stow ladder (4).



d. Stowing Equipment from the Tent.

WARNING

Ammonia vapor may cause blindness, skin burns, or death.

Ensure adequate ventilation prior to servicing or operating Diazo Reproduction Set.

Wear eye protection before servicing ammonia system.

Do not breathe vapor.

Do not let ammonia contact skin or clothing.

(1) Stow ammonia canister and ammonia in trailer storage boxes.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

- (2) Install cover on Diazo Reproduction Set, prepare set for movement (refer to TM 5-3610-256-14), and stow in trailer.
- (3) Stow map cases in an assigned location in trailer.

WARNING

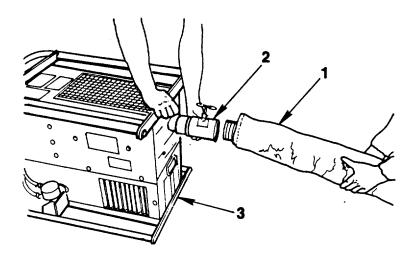
Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

(4) Stow Diazo expendable supplies in assigned location in trailer.

d. Stowing Equipment from the Tent. (Cont'd)

WARNING

Heater components may be hot; use care when handling. Failure to do so may result in personal injury.



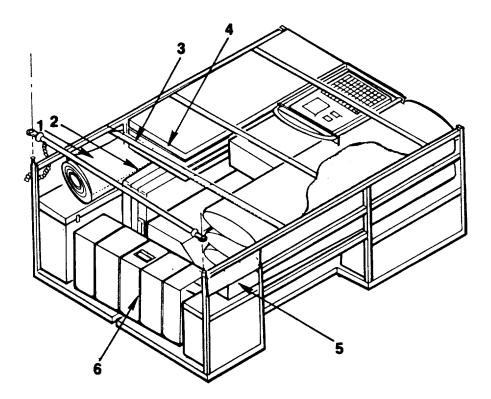
(5) Disconnect Exhaust Hose (1) and coupling (2) from heater (3). Stow coupling (2) in trailer auxiliary storage box.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to Equipment.

- (6) Prepare Heater for movement (refer to TM 5-4520-253-13) and stow in trailer.
- (7) Empty Eyewash Station and stow in assigned location in trailer.
- (8) Place gas mask and ammonia spill kit in drawstring bag, and stow bag in auxiliary storage box in trailer.
- (9) Place Quantity Processing system into case, prepare for movement (refer to TM 5-6675-326-14).

d. Stowing Equipment from the Tent. (Cont'd)



- (10) Stow boot (1) and boot support (2) in trailer.
- (11) Stow map boards (3) in trailer.
- (12) Stow folding tables (4) in trailer.
- (13) Stow toolbox (5) in trailer.
- (14) Remove drafting equipment from tent and set aside.
- (15) Strike tent (refer to TM 10-8340-225-10) and stow in trailer.

WARNING

Ensure two or more persons are available to lift heavy equipment. Failure to do so may result in serious injury or damage to equipment.

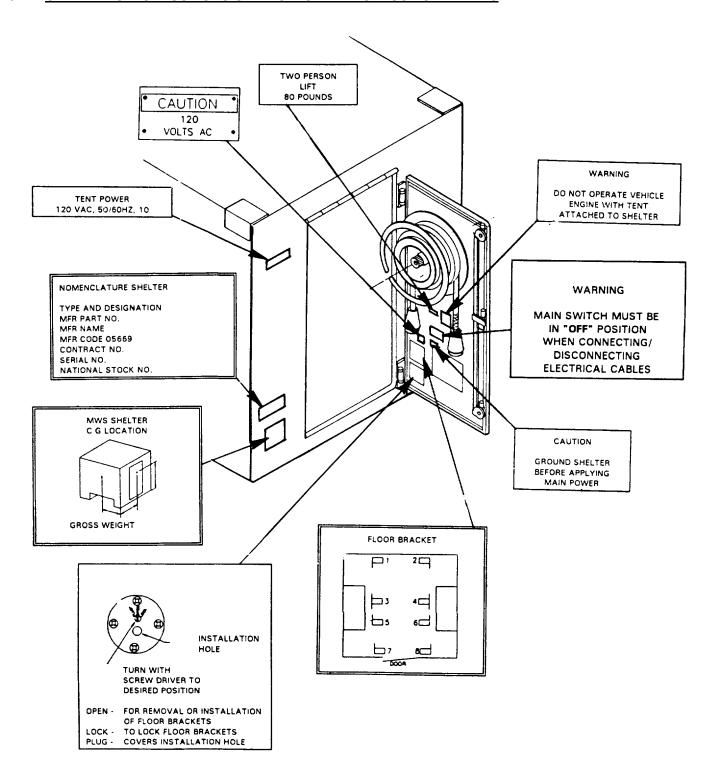
(16) Stow drafting equipment set (5) in trailer.

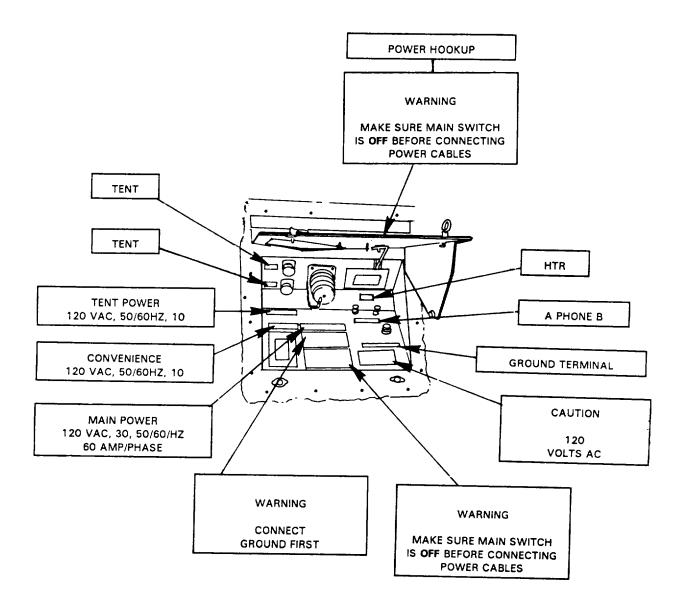
- e. Preparing Trailer for Movement.
 - (1) Close trailer tailgate (refer to TM 9-2330-202-14).
 - (2) Close trailer frame and insert pins in stay bars.
 - (3) Install stay bar on trailer frame.
 - (4) Install tarpaulin supports and cover trailer with tarpaulin (refer to TM 9-2330-202-14).

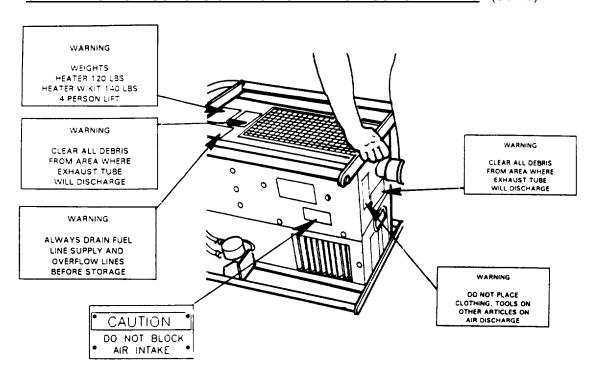
WARNING

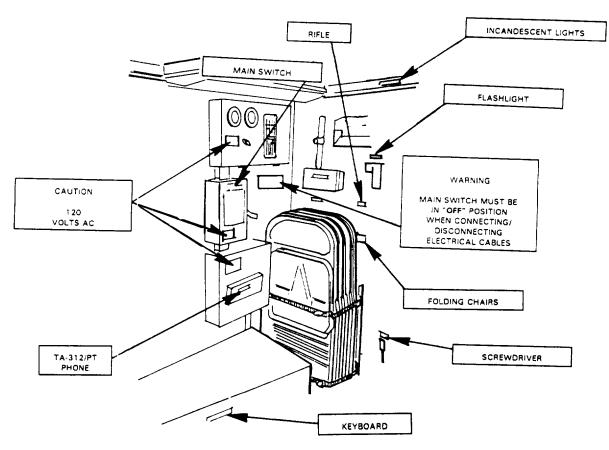
Tongue weight of the trailer is in excess of 80 pounds and hitch is in an awkward position. Two soldiers are required to lift the hitch when connecting the trailer. Exercise care when connecting. Failure to do so may result in personal injury or damage to equipment.

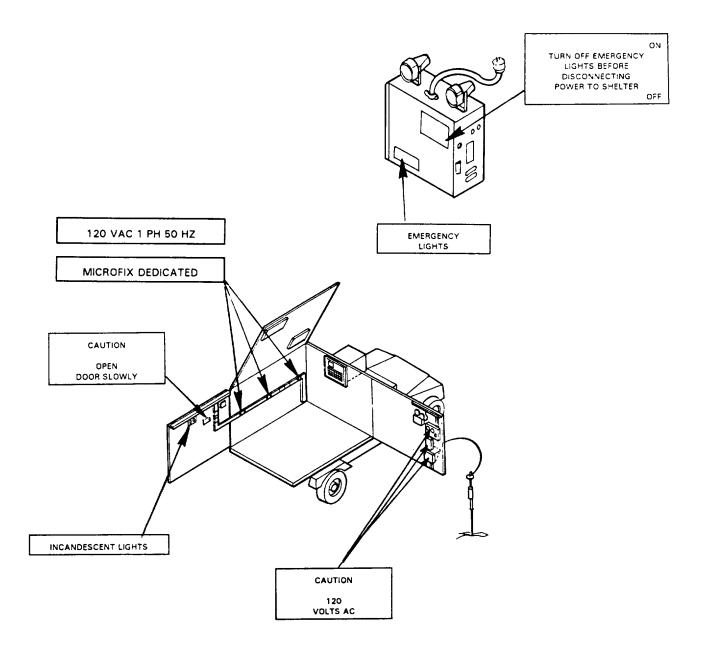
- (5) Connect HMMWV and trailer (refer to TM 9-2330-202-14).
- (6) Disengage trailer parking brakes (refer to TM 9-2330-202-14).

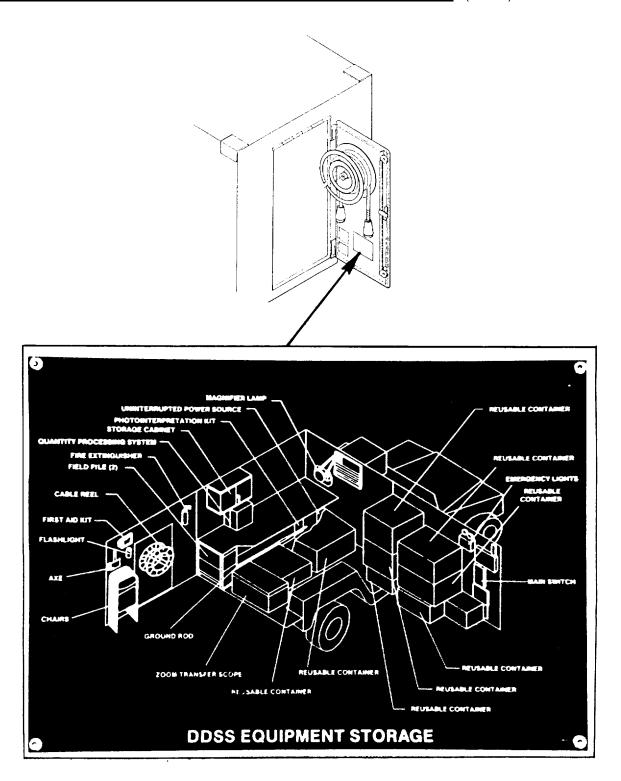


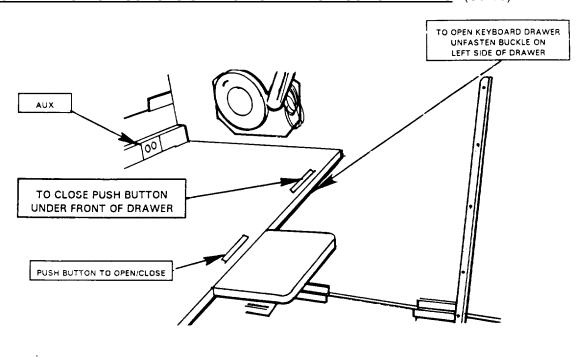


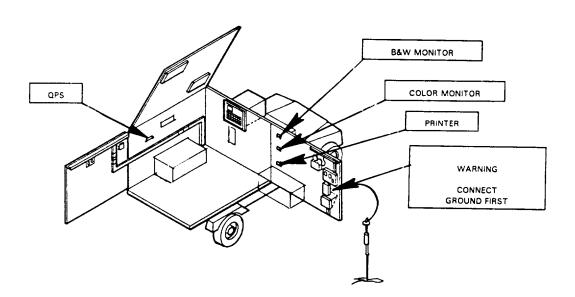


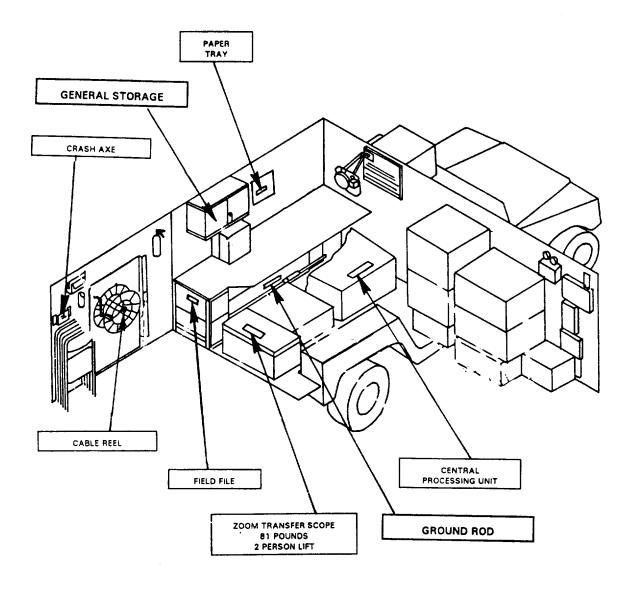


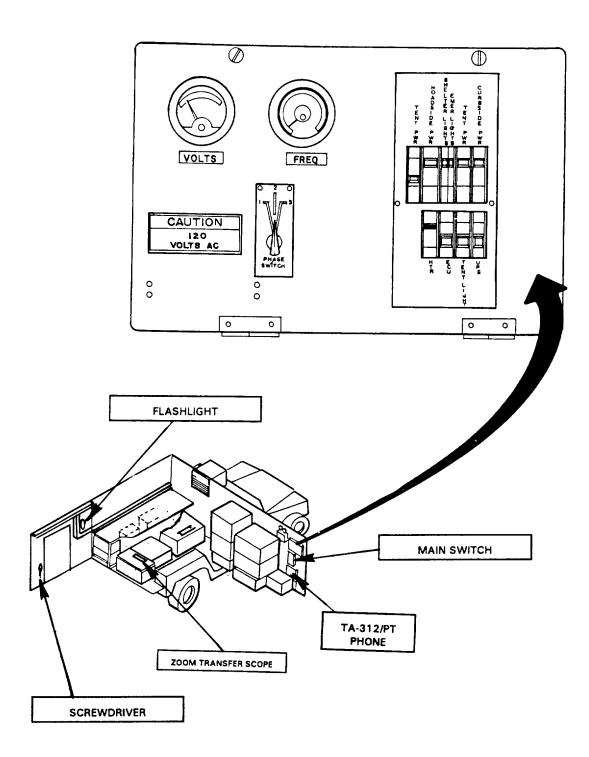












Section IV. OPERATION UNDER UNUSUAL CONDITIONS

| CONTENTS | PARA |
|------------------------------|------|
| OPERATION IN UNUSUAL WEATHER | 2-10 |
| FORDING AND SWIMMING | 2-11 |

Detailed instructions for operation of the three major sections of the DDSS are provided in the following technical manuals:

HMMWV TM 9-2330-280-10

SICPS TM 10-8340-225-10

Utility Trailer (MIOIA2) TM 9-2330-202-14

2-10. OPERATION IN UNUSUAL WEATHER.

- a. Operation in High Wind or Storm Conditions.
 - (1) Secure all loose objects in the area.
 - (2) Secure shelter body by connecting ropes to lift rings, pulling ropes tight, and connecting ropes to buried deadman.
 - (3) Tighten all boot connections to shelter and tent and add additional tiedowns as required.
 - (4) Follow special instructions in technical manuals for HMMWV, Utility Trailer, and SICPS.
- b. Operation in Cold Weather.

CAUTION

When transporting the DDSS, or when heaters are not operating, and temperature is below 32°F (0°C), protect liquid supplies from freezing. Failure to do so may result in container breakage and damage to equipment.

2-10. OPERATION IN UNUSUAL WEATHER. (Cont'd)

- b. Operation in Cold Weather. (Cont'd)
 - (1) Ensure liquid supplies are stored in a warm place.

CAUTION

Extreme cold can cause external power cables and ground cable to become hard and brittle. Avoid kinks or tight loops in cables. Failure to do so may result in permanent damage to cables.

NOTE

During normal DDSS operation, shelter and tent interiors are kept environmentally controlled, and internal equipment is not affected by outside temperature.

- (2) Ensure all external power and ground cables are free from tight loops and kinks.
- c. Operation in Extreme Heat or Tropical Conditions.

CAUTION

When transporting the DDSS, or when the shelter environmental control unit is not operating, and the weather is extremely humid, mold or mildew can form on equipment, supplies, and documents causing damage.

NOTE

During normal DDSS operation, shelter and tent interiors are kept environmentally controlled, and internal equipment is not affected by outside temperature.

Store consumable supplies, documents and normally exposed equipment in protective containers to keep dry and free from condensation.

2-10. OPERATION IN UNUSUAL WEATHER. (Cont'd)

d. Operation in Desert Conditions.

CAUTION

Do not let sand or dust accumulate on or around DDSS equipment. Such accumulation can clog filters and cause damage to equipment.

NOTE

During normal DDSS operation, shelter and tent interiors are kept environmentally controlled, and internal equipment is not affected by outside conditions.

- (1) Change air filters frequently as required.
- (2) Clean interior of shelter and tent frequently.
- **2-11 FORDING AND SWIMMING.** Fording and swimming procedures and depth limits are defined in the HMMWV technical manual (TM 9-2330-280-10) and Utility Trailer technical manual (TM 9-2330-202-14).

CHAPTER 3

OPERATOR'S MAINTENANCE INSTRUCTIONS

| | | PAGE |
|-------------|-------------------------------------|------|
| Section I | Lubrication Instructions | 3-1 |
| Section II | Operator Troubleshooting Procedures | 3-1 |
| Section III | Operator Maintenance Procedures | 3-6 |
| | | |

Section I. LUBRICATION INSTRUCTIONS

3-1. LUBRICATION. Operator lubrication of the DDSS is not required.

Section II. OPERATOR TROUBLESHOOTING PROCEDURES

| CON | TENTS | PARA |
|------|----------------------------|------|
| INTR | ODUCTION | 3-2 |
| TRO | JBLESHOOTING SYMPTOM INDEX | 3-3 |

3-2. <u>INTRODUCTION.</u>

- a. Table 3-1 lists the common malfunctions which you may find during the operation or maintenance of the DDSS or its components. You should perform the tests/inspections and corrective actions in the order listed.
- b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

3-3. TROUBLESHOOTING SYMPTOM INDEX.

| | PARA |
|--|------|
| NO POWER TO DDSS SHELTER | 3-4 |
| FLUORESCENT LIGHTS DO NOT WORK | 3-5 |
| INCANDESCENT LIGHTS DO NOT WORK | 3-6 |
| EMERGENCY LIGHTS DO NOT WORK | 3-7 |
| NO POWER TO ROADSIDE OR CURBSIDE RECEPTACLES | 3-8 |
| NO POWER TO ECU | 3-9 |
| NO TENT LIGHTS | 3-10 |
| NO POWER TO TENT EQUIPMENT | 3-11 |

Table 3-1. OPERATOR TROUBLESHOOTING

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

NOTE

If malfunction is not corrected by listed corrective actions, notify your supervisor.

3-4. 10 POWER TO DDSS SHELTER.

WARNING

Use extreme caution when performing checks or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

- Step 1. Check to see if cable is properly connected at DDSS power entrance box and generator. Reconnect cable connectors.
- Step 2. Check to see if there are loose, broken, or corroded cable connectors/cable.

 Report loose, broken, or corroded cable connectors/cable to Unit Maintenance.

CAUTION

Do not energize DDSS power if voltage or frequency are incorrect. Damage to equipment may result.

Step 3. Observe voltage/frequency meter on power distribution box. Frequency must be in range between 50Hz and 70Hz. Voltage must be in range between 110V and 125V.

Notify Unit Maintenance for service to the power source.

Step 4. Check position of main switch.

Reset main switch to on (up) position.

Notify Unit Maintenance if malfunction persists.

Table 3-1. OPERATOR TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

3-5. FLUORESCENT LIGHTS DO NOT WORK.

WARNING

HIGH VOLTAGE

Use extreme caution when performing checks or maintenance at or near power distribution box. Failure to do so may result in death or serious injury.

Step 1. Check that fluorescent light switch is on.

Reset light switch on.

Step 2. Check that shelter light circuit breaker is on.

Reset circuit breaker to on. If malfunction persists, replace fluorescent light. Refer to paragraph 3-14.

3-6. INCANDESCENT LIGHTS DO NOT WORK.

Check to see if incandescent light switch is on. Reset light switch to on, if malfunction persists, replace incandescent light. Refer to paragraph 3-15.

Call the Unit Maintenance if malfunction persists.

3-7. EMERGENCY LIGHTS DO NOT WORK.

Test by pressing test button.

If light still does not work, notify Unit Maintenance.

Table 3-1. OPERATOR TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

3-8. NO POWER TO ROADSIDE OR CURBSIDE RECEPTACLES.

WARNING

Use extreme caution when performing checks or maintenance at or near power distribution box. Failure to do so may result in death or serious injury.

- Step 1. Check that ROADSIDE POWER CIRCUIT BREAKER is on. Reset circuit breaker to on.
- Step 2. Check that CURBSIDE POWER CIRCUIT BREAKER is on. Reset circuit breaker to on.

Call Unit Maintenance if malfunction persists.

3-9. NO POWER TO ECU.

Check that ECU CIRCUIT BREAKER is on.

Reset circuit breaker to on.

Call Unit Maintenance if malfunction persists.

3-10. NO TENT LIGHTS.

- Step 1. Check that cable is properly connected at DDSS tent power feed through connector. Reconnect cable connector.
- Step 2. Check that SICPS LIGHTS CIRCUIT BREAKER is on. Reset circuit breaker to on.

Call Unit Maintenance if malfunction persists.

Table 3-1. OPERATOR TROUBLESHOOTING - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

3-11. NO POWER TO TENT EQUIPMENT.

WARNING

HIGH VOLTAGE

Use extreme caution when performing checks or maintenance at or near power distribution box. Failure to do so may result in death or serious injury.

Step 1. Check that tent power cables are properly connected at DDSS power entrance box.

Reconnect cable connectors.

Step 2. Check that TENT POWER CIRCUIT BREAKERS are on.

Reset tent circuit breakers to on.

Call Unit Maintenance if malfunction persists.

Refer to TM 10-8340-225-10 Troubleshooting.

Section III. OPERATOR MAINTENANCE PROCEDURES

| CONTENTS | PARA |
|--|------|
| INTRODUCTION | 3-12 |
| INDEX OF OPERATOR MAINTENANCE PROCEDURES | 3-13 |

- **3-12. INTRODUCTION**. The following procedures are for use of operator maintenance personnel in repairing the DDSS components.
 - a. Personnel required are listed only if the task requires two or more persons.
 - b. The normal standard equipment condition to start a maintenance task is power off. EQUIPMENT CONDITION is not listed unless some other condition is required besides power being off.

3-13. INDEX OF OPERATOR MAINTENANCE PROCEDURES.

| | PARA |
|---|------|
| FLUORESCENT CEILING LAMPS, REMOVE/REPLACE | 3-14 |
| INCANDESCENT LIGHTS. REMOVE/REPLACE | 3-15 |

3-14. FLUORESCENT CEILING LAMPS.

This task covers:

- a. Remove
- b. Replace

INITIAL SETUP:

Tools:

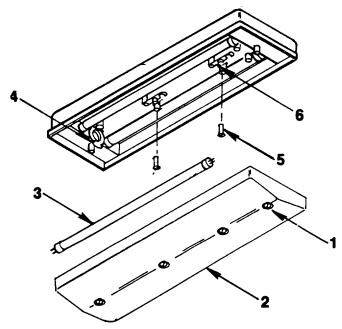
Screwdriver (Appendix C, Item 27) Screwdriver (Appendix C, Item 28) Equipment Conditions:

Incandescent Light on

a. Remove.

WARNING

Ensure shelter light circuit breaker is off. Failure to do so may result in death or serious injury.



- 1. Turn off shelter light circuit breaker.
- 2. Loosen 4 screws (1) and remove diffuser panel (2).
- 3. If outer light tubes (3) are not lighting, disengage safety clamps (4) and remove defective tube by rotating.
- 4. If center tube is not working, loosen 4 screws (5) securing diffuser panel mounting brackets (6).
- 5. Rotate brackets (6) away from light tube.
- 6. Disengage safety clamps (4).
- 7. Remove defective tube by rotating.

3-14. FLUORESCENT CEILING LAMPS (Cont'd)

b. Replace.

- 1. Install light tube (3) by rotating until seated.
- 2. Engage safety clamps (4).
- Rotate diffuser mounting bracket (6) into position and tighten screws (5)
 Install diffuser panel (2) and secure with 4 screws (1).
- 5. Turn on shelter light circuit breaker.
- 6. Turn off incandescent light.

3-15. INCANDESCENT LAMPS.

This task covers:

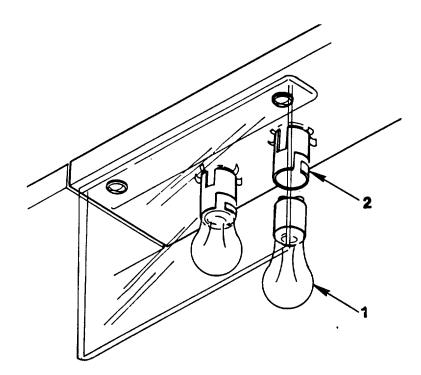
- a. Replace
- b. Replace

a. Remove.

WARNING

Incandescent light switch must be in OFF position. Failure to do so may result in death or serious injury.

- 1. Set incandescent light switch to OFF.
- 2. Push bulb (1) into socket (2) and turn bulb (1) to left.
- 3. Pull bulb (1) from socket.



b. Replace.

- 1. Push bulb (1) into socket (2) and turn bulb (1) to right.
- 2. Set incandescent light switch to ON.

CHAPTER 4

UNIT MAINTENANCE INSTRUCTIONS

| Section I | Repair Parts, Special Tools, Test, Measurement, and Diagnostic Equipment (TMDE), and | PAGE |
|-------------|--|------|
| | Support Equipment | 4-1 |
| Section II | Service Upon Receipt | 4-2 |
| Section III | Lubrication | 4-3 |
| Section IV | Unit Preventive Maintenance Checks and Services | 4-3 |
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Section I. REPAIR PARTS, SPECIAL TOOLS, TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE), AND SUPPORT EQUIPMENT

| CONTENTS | PARA |
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| COMMON TOOLS AND EQUIPMENT | 4-1 |
| SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT | 4-2 |
| REPAIR PARTS | 4-3 |

- **4-1.** <u>COMMON TOOLS AND EQUIPMENT</u>. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.
- **4-2. SPECIAL TOOLS, TMDE. AND SUPPORT EQUIPMENT**. There are no unit special tools, test, measurement, diagnostic equipment (TMDE), or items of support equipment required.
- **4-3. REPAIR PARTS**. Repair parts covering unit maintenance of the DDSS are listed and illustrated in Appendix F, Repair Parts and Special Tools List, of this manual.

Section II. SERVICE UPON RECEIPT

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| UNPACKING | | 4-4 |
| INSPECTION | | 4-5 |
| SITE, SHELTE | R AND SICPS REQUIREMENTS | 4-6 |

- **4-4. UNPACKING**. Avoid damaging transit cases, reusable containers, and tent bags and retain for storage and transit.
- 4-5. **INSPECTION**. Inspect DDSS as follows:
 - a. Inspect equipment for damage incurred during shipment. If equipment has been damaged, report damage on SF Form 364, Report of Discrepancy.
 - b. Check equipment against packing slip to see if shipment is complete. Report all discrepancies in accordance with instructions of DA PAM 738-750.
 - c. Check the following individual operational items for damage and completeness:
 - (1) Reusable Containers
 - (2) Photointerpretation (PI) Kit
 - (3) Quantity Processing System
 - (4) Field Diazo Print Machine (Including Expendables)
 - (5) Zoom Transfer Scope
 - (6) Drafting Equipment Set
 - (7) Gas Mask
 - (8) Ammonia Spill Kit
 - (9) Eye Wash
- **4-6.** <u>SITE, SHELTER AND SICPS REQUIREMENTS</u>. Refer to Chapter 2, Section III, Operation Under Usual Conditions.

Section III. LUBRICATION

| CONTENTS | ARA |
|--------------------------|-----|
| LUBRICATION REQUIREMENTS | 4-7 |

4-7. <u>LUBRICATION REQUIREMENTS</u>. Refer to other equipment technical manuals for lubrication requirements.

Section IV. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES

| CONTENTS | PARA |
|--|------|
| UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PCMS) | 4-8 |

- **4-8. PMCS**. Refer to Table 4-1, Unit Preventive Maintenance Checks and Services.
 - a. General. The DDSS must be regularly inspected to find and correct defects.
 - (1) Monthly. Always keep in mind WARNINGS and CAUTIONS. Perform your MONTHLY (M) PMCS.
 - (2) <u>Semiannually</u>. Always keep in mind the WARNINGS and CAUTIONS. Perform your SEMIANNUAL (S) PMCS.
 - (3) <u>If Your Equipment Fails to Operate</u>. Troubleshoot with proper equipment. Report any deficiencies using proper forms. See DA PAM 738-750.
 - b. PMCS Procedures.
 - PMCS procedures are designed to keep equipment in good working condition by performing periodic service tasks.
 - (2) Service intervals provide you with time schedules that determine when to perform specified service tasks.
 - (3) If your equipment fails to operate after PMCS is performed immediately report this condition to your supervisor.
 - c. PMCS Columnar Entries.
 - (1) <u>Item Number Column</u>. Item numbers are assigned in chronological, ascending sequence regardless of interval designation. These numbers are used for "TM number" Column on DA Form 2404, Equipment Inspection and Maintenance Worksheet in recording results of PMCS.

4-8. PMCS. (Cont'd)

- (2) Interval Column. This column determines the time period designated to perform your PMCS.
- (3) <u>Item to Check/Service Column</u>. This column lists functional groups and respective assemblies and subassemblies as shown in Appendix B, Maintenance Allocation Chart.
- (4) <u>Procedures Column</u>. This column describes procedures necessary to perform check.
- (5) Not Fully Mission Capable if: Column. This column contains criteria used to decide whether or not equipment is ready and available for use. An entry in this column identifies conditions that make equipment not ready/available for readiness reporting.

Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES

| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | VE MAINTENANCE CHECKS AND SER PROCEDURES | NOT FULLY MISSION CAPABLE IF: |
|------------|----------|---|--|-------------------------------|
| 1 | Monthly | Trailer Pallet | Check exterior for blistered or flaking paint, bare metal spots, dents or corrosion. Repair or repaint in accordance with TM 43-0139. Check for broken or missing hardware. | |
| | | | | |
| 2 | Monthly | Shelter Exterior | Check exterior for blistered or flaking paint, bare metal spots, dents or corrosion. Repaint in accordance with TM 43-0139. Repair in accordance with FM 43-2 | |
| | | | | |
| | | | 4-5 | |

Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES

| Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES | | | | | | |
|--|-------------|---|---|-------------------------------------|--|--|
| ITEM NO | INTERVAL | LOCATION ITEM TO BE CHECK/SERVICE | PROCEDURES | NOT FULLY MISSION CAPABLE IF: | | |
| NO 3 | Semimonthly | CHECK/SERVICE | WARNING Do not service power cable if it is connected to power source or to shelter. Failure to do so may result in death or serious injure. Check mounting flanges, lift rings, sling angles, retractable steps, escape hatch, door, boot support brackets, ECU support bracket and ladder for damage and corrosion. Inspect all exterior hardware for loose or missing bolts or screws. | MISSION CAPABLE IF: | | |
| | | | | | | |
| | | | 4-6 | | | |

Section V. UNIT TROUBLESHOOTING

| CONTENTS | PARA |
|----------------------|------|
| UNIT TROUBLESHOOTING | 4-9 |
| MALFUNCTION INDEX | 4-10 |

4-9. UNIT TROUBLESHOOTING.

- a. Table 4-2 lists common malfunctions which you may find during operation or maintenance of DDSS or its components. You should perform tests/inspections and corrective actions in order listed.
- b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify next level of maintenance for assistance.

4-10. MALFUNCTION INDEX.

| | PARA |
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| FLUORESCENT LIGHTS DO NOT WORK | 4-12 |
| INCANDESCENT LIGHTS DO NOT WORK | 4-13 |
| EMERGENCY LIGHTS DO NOT WORK | 4-14 |
| NO POWER TO ROADSIDE OR CURBSIDE AUXILIARY RECEPTACLES | 4-15 |
| ECU DOES NOT WORK | 4-16 |
| TENT LIGHTS DO NOT WORK. | 4-17 |
| NO POWER TO TENT EQUIPMENT | 4-18 |
| NO POWER TO MICROFIX RECEPTACLES | 4-19 |

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

4-11. NO POWER TO DDSS SHELTER.

WARNING

Use extreme caution when performing checks or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

Turn off main switch, before checking or replacing fuses. Failure to do so may result in death or serious injury.

Check fuse for continuity.

Replace defective fuse. (Refer to paragraph 4-28).

4-12. FLUORESCENT LIGHTS DO NOT WORK.

WARNING

Use extreme caution when performing checks or maintenance at or near electrical power. Failure to do so may result in death or serious injury.

- Step 1. Test fluorescent light switch for continuity. Replace fluorescent light switch. (Refer to paragraph 4-25).
- Step 2. Test fluorescent light circuit breaker for continuity. Replace fluorescent light circuit breaker. (Refer to paragraph 4-24).

If continuity exists at circuit breaker, replace starter (refer to paragraph 4-31) or ballast (refer to paragraph 4-30).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

4-13. INCANDESCENT LIGHTS DO NOT WORK.

Test incandescent light switch for continuity.

Replace incandescent light switch. (Refer to paragraph 4-25).

4-14. EMERGENCY LIGHTS DO NOT WORK.

Step 1. Check battery red charge indicator light. Full charge indicated by pulsating red light.

Replace batteries. (Refer to paragraph 4-29).

Step 2. If light still does not operate, replace emergency light. (Refer to paragraph 4-29).

4-15. NO POWER TO ROADSIDE OR CURBSIDE AUXILIARY RECEPTACLES.

WARNING

Use extreme caution when performing checks or maintenance at or near power distribution box. Failure to do so may result in death or serious injury.

Check voltage at receptacle with multimeter.

If 120v does not exist, check circuit breaker for continuity.

If continuity exists, replace receptacle (refer to paragraph 4-26).

If no continuity at circuit breaker, replace circuit breaker (refer to paragraph 4-24).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

4-16. ECU DOES NOT WORK.

Check for 120v of voltage at ECU circuit breakers. Using a multimeter insert probe in terminals A and B.

If 120v is not present, check ECU circuit breaker for continuity. If no continuity, replace circuit breaker (refer to paragraph 4-24). If 120v exists, refer to TM 5-4120-378-14.

4-17. TENT LIGHTS DO NOT WORK.

Check tent power receptacle for 120v.

If no voltage, check continuity of tent light circuit breaker. If continuity exists, replace receptacle (refer to paragraph 4-26). If no continuity, replace circuit breaker (refer to paragraph 4-24).

4-18. NO POWER TO TENT EQUIPMENT.

WARNING

Use extreme caution when performing checks or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

Check for 120v at tent receptacle.

If voltage does not exist, check continuity of appropriate circuit breaker. If 120v is present at circuit breaker, replace tent power receptacle (refer to paragraph 4-26). If 120v is not present at circuit breaker, replace circuit breaker (refer to paragraph 4-24).

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

4-19. NO POWER TO MICROFIX RECEPTACLE.

WARNING

Use extreme caution when performing checks or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

Check voltage at receptacle with multimeter.

If 120v does not exist, check circuit breaker for continuity. If continuity exists, replace receptacle (refer to paragraph 4-26). If no continuity at circuit breaker, replace circuit breaker (refer to paragraph 4-24).

Section VI. UNIT MAINTENANCE PROCEDURES

| CONTENTS | PARA |
|--------------------------------------|------|
| INTRODUCTION | 4-20 |
| INDEX OF UNIT MAINTENANCE PROCEDURES | 4-21 |

- **4-20.** <u>INTRODUCTION.</u> The following procedures are for use of unit maintenance personnel in repairing the DDSS components.
 - a. Resources required are not listed unless they apply to the procedure.
 - b. Personnel required are listed only if the task requires more than one. If PERSONNEL are not listed, it means one person can do the task.
 - c. The normal standard equipment condition to start a maintenance task is power off. EQUIPMENT CONDITION is not listed unless some other condition is required besides power being off.

4-21. <u>INDEX OF UNIT MAINTENANCE PROCEDURES.</u>

| COMPONENT/ASSEMBLY | PARA |
|-----------------------------------|------|
| SHELTER BODY SKIN | 4-22 |
| DOOR LATCH ASSEMBLY | 4-23 |
| CIRCUIT BREAKER | 4-24 |
| LIGHT SWITCHES | 4-25 |
| ELECTRICAL RECEPTACLES | 4-26 |
| HEATER/CONVENIENCE RECEPTACLES | 4-27 |
| FUSE | 4-28 |
| EMERGENCY LIGHT ASSEMBLY | 4-29 |
| FLUORESCENT CEILING LIGHT BALLAST | 4-30 |
| FLUORESCENT CEILING LIGHT STARTER | 4-31 |
| TENT LIGHT RECEPTACLE. | 4-32 |
| PORTABLE LIGHT TABLE | 4-33 |
| SHELTER BOOT | 4-34 |
| TRAILER FRAME BOX LATCH | 4-35 |

4-22. SHELTER BODY SKIN.

This task covers: Repair (Temporary)

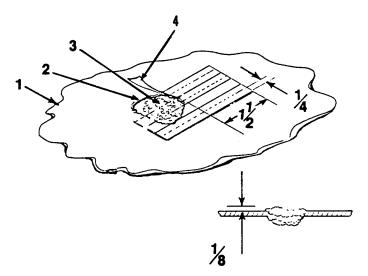
INITIAL SETUP

Tools: Materials/Parts:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III) Cloth (Appendix E, Item 7)
Silicone Sealant (Appendix E, Item 16)
Sealing Tape (Appendix E, Item 17)

NOTE

This procedure is limited to temporary repair of small punctures and breaks in the skin. Refer to FM 43-2 for permanent repairs.



Repair.

CAUTION

Do not attempt to remove fragments of skin by bending or pulling outward.

- 1. Push broken edges of skin (1) into puncture (2).
- 2. Remove loose fragments of foam (3).
- 3. Clean area around puncture with dampened cloth (Appendix E, item 7).
- 4. Inject silicone sealant into puncture until it has filled hole and is 1/8 in. (3.2mm) above surface of skin.
- 5. Apply sealant to cracks leading to puncture.
- 6. Cut strips of tape (4) (Appendix E, Item 17) and apply lightly. For a good repair, overlap tape strips 1/4 in. (6.4mm), Extend tape strips 1-1/2 in. (38.1mm) beyond sealant.
- 7. Rub tape (4) into place.
- 8. Clean repaired area of excess sealant.

4-23. DOOR LATCH ASSEMBLY.

This task covers: a. Remove

b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

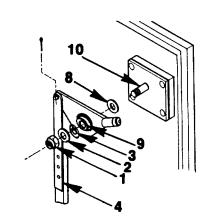
- 1. Remove nuts (1) and flatwashers (2) and (3) from arm assembly (4).
- 2. Remove roll pin (5), handle (6) and flatwasher (7).
- 3. Remove arm assembly (4) and flatwasher (7).
- 4. Remove flatwashers (8) and bearing (9) from door studs (10).

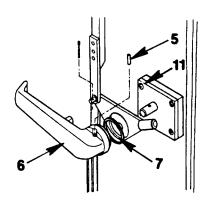
b. Replace.

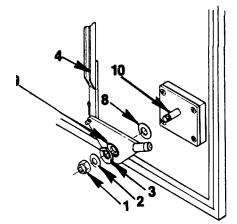
NOTE

Ensure flatwasher are over bearings before installation.

- 1. Install bearings (9) flatwashers (3) and (8) onto arm assembly (4).
- 2. Secure arm assembly (4) with flatwashers (2) and nuts (1).
- 3. Install flatwasher (7), arm assembly (4) onto door handle stud (10).
- 4. Install door handle (6) and roll pin (5).







4-24. CIRCUIT BREAKER.

This task covers: a. Remove

b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

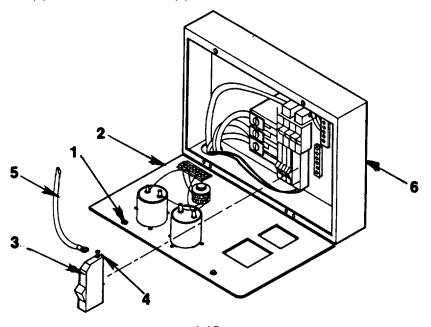
WARNING

Use extreme caution when performing checks, services, or maintenance at or near Power Distribution Box and Main Switch. Failure to do so may result in death or serious injury.

NOTE

This is a general procedure to replace any defective circuit breaker in the power distribution box.

- 1. Turn off Main Switch.
- 2. Loosen cover panel screws (1) and open panel (2).
- 3. Grasp circuit breaker (3) near top and pull out far enough to gain access to terminal screw (4).
- 4. Loosen terminal screw (4) and disconnect wire (5).



4-24. CIRCUIT BREAKER. (Cont'd)

b. Replace.

- 1. Loosen screw (4) on circuit breaker (3).
- 2. Install wire (5) and tighten screw (4).
- 3. Align top of circuit breaker (3) with top mount in Power Distribution Box (6).
- 4. Press circuit breaker (3) into place until it is firmly seated.
- 5. Close cover panel (2) and tighten screws (1).
- 6. Ensure that circuit breaker is turned OFF.
- 7. Turn Main Switch ON.
- 8. Turn circuit breaker ON.

4-25. LIGHT SWITCHES.

This task covers:

- a. Remove
- b. Replace

<u>INITIAL SETUP</u>

Tools:

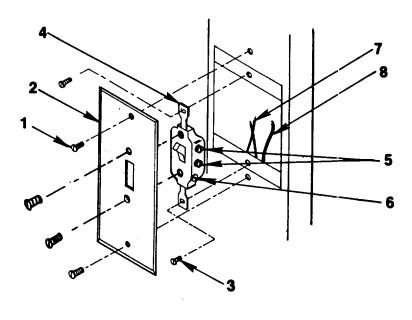
Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

WARNING

Set Main Switch and light circuit breaker to OFF. Failure to do so may result in death or serious injury.

- 1. Set Main Switch to OFF.
- 2. Set circuit breaker to OFF.
- 3. If replacing incandescent light switch, disconnect 24v coupling located under curbside of shelter.



4-25. LIGHT SWITCES8. (Cont'd)

- a. Remove. (Cont'd)
 - 4. Remove cover plate screws (1) and cover plate (2).
 - 5. Loosen two screws (3) and pull switch (4) out far enough to gain access to power terminal screws (5) and ground screw (6).

NOTE

Tag all wires before disconnecting. Incandescent light switch has two terminals. Fluorescent light switch has three terminals.

- 6. Loosen power terminal screws (5) and ground screw (6), and disconnect power wires (7) and ground wire (8).
- 6. Remove switch (4).

b. Replace.

1. Loosen power terminal screws (5) and ground terminal screw (6).

CAUTION

Ensure that wires are securely wrapped clockwise around power terminal screws and ground screw and that ends of wires do not stick out. Failure to do so may result in damage to equipment.

- 2. Install power wires (7) and tighten screws (5).
- 3. Install ground wire (8) and tighten screw (6).
- 4. Install switch (4) and tighten screws (3)
- 5. Install cover plate (2) with four screws (1) and tighten.
- 6. If incandescent light switch was replaced, connect 24v coupling under curbside of shelter.
- 7. Set Main Switch to ON.
- 8. Set circuit breaker to ON.
- 9. Test operate light switch.

4-26. ELECTRICAL RECEPTACLES.

This task covers:

a. Remove

b. Replace

INITIAL SETUP

Tools:

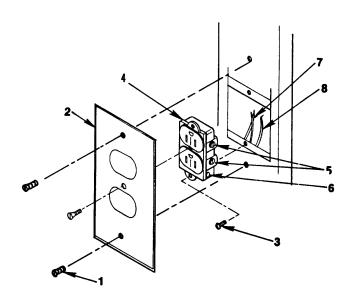
Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

WARNING

Turn OFF Power circuit breaker and Main Switch. Failure to do so may result in death or serious injury.

- 1. Set circuit breaker to OFF.
- 2. Set Main Switch to OFF.
- 3. Remove cover plate screws (1) and cover plate (2).



4-26. ELECTRICAL RECEPTACLES. (Cont'd)

a. Remove. (Cont'd)

4. Loosen two screws (3) and pull receptacle (4) out far enough to gain access to terminal screws (5) and (6).

NOTE

Tag all wires before disconnecting.

- 5. Loosen power terminal screws (5) and ground terminal screw (6) and disconnect wires (7) and (8).
- 6. Remove receptacle (4).

b. Replace.

1. Loosen power terminal screws (5) and ground terminal screw (6).

CAUTION

Ensure that wires are securely wrapped clockwise around power terminal screws and ground screw, and that ends of wires do not stick out. Failure to do so may result in damage to equipment.

- 2. Install power wires (7) and tighten screws (5).
- 3. Install ground wire (8) and tighten screw (6).
- 4. Install receptacle (4) and tighten screws (3).
- Install cover plate (2) and screw (1).
- 6. Turn on Main Switch.
- 7. Turn on receptacle circuit breaker.
- 8. Test receptacle for power.

4-27. HEATER/CONVENIENCE RECEPTACLES.

This task covers: a. Remove

b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

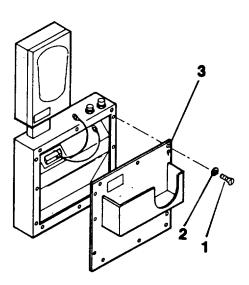
WARNING

Use extreme caution when performing checks or maintenance at or near power entrance box and power distribution box. Failure to do so may result in death or serious injury.

NOTE

This procedure covers replacement of GFI receptacles for the heater and convenience outlets.

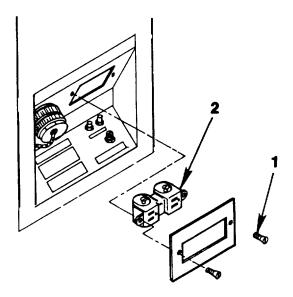
1. Turn off main switch.



- 2. Remove twelve screws (1) and twelve lock washers (2) and inside power entrance panel cover (3).
- 3. Tag and disconnect receptacle wires.

4-27. HEATER/CONVENIENCE RECEPTACLES. (Cont'd)

4. On outside of shelter, remove screws (1) and receptacle (2).



b. Replace.

- 1. On outside of shelter, install receptacle (2) and secure with screws (1).
- 2. Connect wires and remove tags.
- 3. Install inside power entrance panel cover (3) and secure with twelve lock washers (2) and twelve screws (1).
- 4. Turn on circuit breaker.
- 5. Test operate receptacles.

4-28. FUSE.

This task covers:

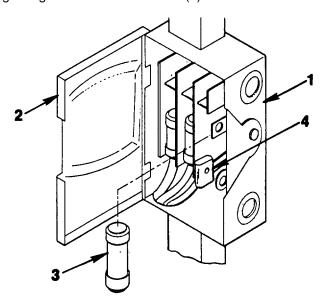
- a. Remove
- b. Replace

a. Remove.

WARNING

Disconnect power cable at power entrance panel. Set Main Switch to OFF before replacing fuse. Failure to do so may result in death or serious injury.

- 1. Set Main Switch to OFF and disconnect power cables at power entrance panel.
- 2. Press tab and open switch box (1).
- 3. Remove fuse (3) by pulling straight out from fuse holder (4).



b. Replace.

- 1. Align fuse (3) with fuse holder (4) and push straight in until fuse (3) is firmly seated.
- 2. Close switch box cover (2).
- 3. Connect power cable at power entrance panel.
- 4. Turn on main switch.

4-29. EMERGENCY LIGHT ASSEMBLY.

This task covers: a. Remove

b. Replace

c. Repair

<u>INITIAL SETUP</u>

Tools:

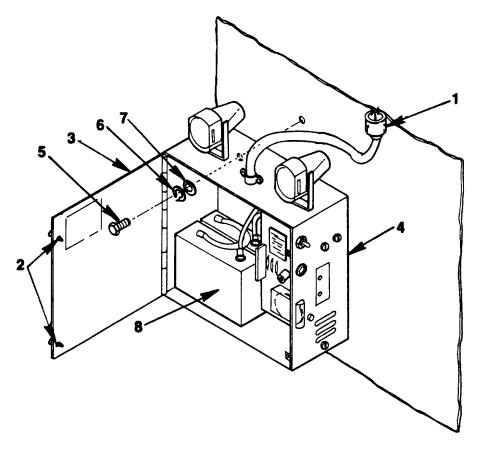
Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

WARNING

Unplug emergency light power cord before removing emergency light assembly. Failure to do so may result in death or serious injury.

a. Remove.

- 1. Unplug power cord (1).
- 2. Remove two screws (2) securing cover (5) to box (6) and open cover (3) of box (4).



4-29. EMERGENCY LIGHT ASSEMBLY. (Cont'd)

a. Remove. (Cont'd)

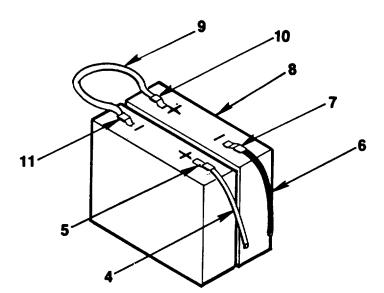
CAUTION

Support emergency light assembly when removing from wall. Failure to do so may result in damage to equipment.

3. Remove two mounting screws (5), two lock washers (6), and two flat washers (7) securing light assembly to wall and remove emergency light assembly (4).

b. Replace.

- 1. Align emergency light assembly (4) with holes in shelter wall.
- 2. Secure with two mounting screws (5), lock washers (6) and flat washers (7).
- 3. Close cover (3) and tighten screws (2).
- 4. Connect power cord (1).
- 5. Test operate emergency light assembly.
- c. Repair. Repair of the emergency light is limited to replacement of batteries.
 - 1. Unplug power cord (1).
 - 2. Remove screws (2) and open cover (3).



- 3. Disconnect red wire (4) from positive terminal (5) and black wire (6) from negative terminal (7).
- 4. Remove batteries (8).

4-29. EMERGENCY LIGHT ASSEMBLY. (Cont'd)

- c. Repair. (Cont'd)
 - 5. Remove jumper wire (9) from battery positive terminal (10) and negative terminal (11).
 - 6. Install jumper wire (9) on battery to positive terminal (10) and negative terminal (11).
 - 7. Install batteries (8) in emergency light.
 - 8. Install black wire (6) to negative terminal (7) and red wire (4) on positive terminal (5).
 - 9. Close cover (3) and secure with screws (2).
 - 10. Plug in power cord (1).
 - 11. Test operate emergency light.

4-30. FLUORESCENT CEILING LIGHT BALLAST.

This task covers:

- a. Remove
- b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

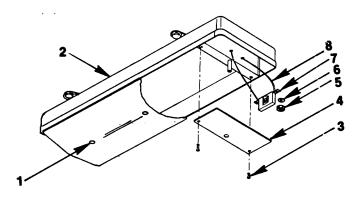
a. Remove.

1. Turn off fluorescent light switch.

WARNING

Turn off shelter light circuit breaker. Failure to do so may result in death or serious injury.

- 2. Turn off shelter light circuit breaker.
- 3. Loosen 4 screws (1) and remove diffuser panel (2).
- 4. Remove 2 screws (3) and ballast cover (4).
- 5. Remove 2 nuts (5) and starwasher (6).
- 7. Disconnect ballast leads (8).
- 8. Remove ballast (7).



b. Replace.

WARNING

Turn off shelter light circuit breaker. Failure to do so may result in death or serious injury.

- 1. Turn off shelter light circuit breaker.
- 2. Install ballast (7) and secure with starwasher (6) and nut (5).
- 3. Connect leads (8).
- 4. Install ballast cover (4) and secure with 2 screws (3).
- 5. Install diffuser panel (2) and secure with 4 screws (1).

4-31. FLUORESCENT CEILING LIGHT STARTER.

This task covers: a. Remove

b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics Automotive (Appendix B, Sec III)

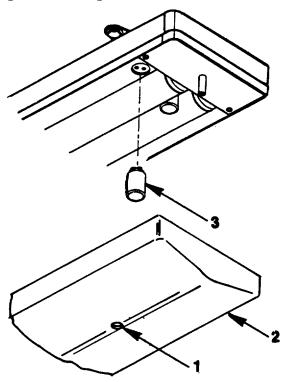
a. Remove.

1. Turn off fluorescent light switch.

WARNING

Turn off shelter light circuit breaker. Failure to do so may result in death or serious injury.

- 2. Turn off shelter light circuit breaker.
- 3. Loosen 4 screws (1) and remove diffuser panel (2).
- 4. Remove starter (3) by pushing in and rotating counter clockwise.



4-31. FLUORESCENT CEILING LIGHT STARTER. (Cont'd)

b. Replace.

WARNING

Turn off shelter light circuit breaker. Failure to do so may result in death or serious injury.

- 1. Install starter (3) by pushing in and rotating clockwise.
- 2. Install diffuser panel (2) and secure with 4 screws (1).

4-32. TENT LIGHT RECEPTACLE.

This task covers:

- a. Remove
- b. Replace

INITIAL SETUP

Tools:

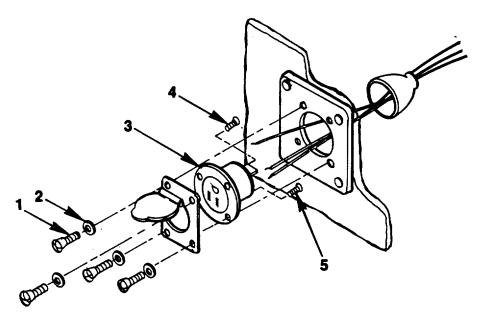
Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

a. Remove.

WARNING

Turn off tent light circuit breaker. Failure to do so may result in serious injury or death.

1. Turn off tent light circuit breaker.

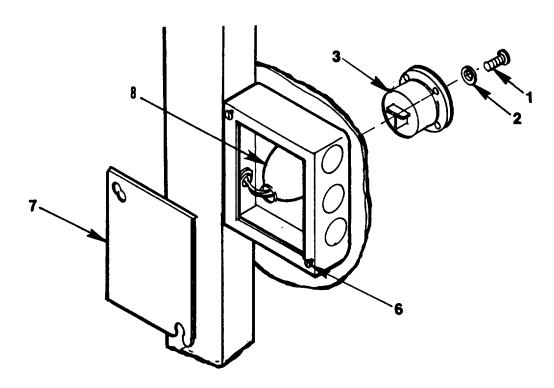


- 2. Remove 4 screws (1) and flat washers (2).
- 3. Pull receptacle (3) out far enough to gain access to power terminal screws (4) and ground screws (5).
- 4. Tag and disconnect wires.
- 5. Remove receptacle.

4-32. TENT LIGHT RECEPTACLE. (Cont'd)

b. Replace.

- 1. Loosen power terminal screws (4) and ground screws (5) and connect wires. Remove tags.
- 2. On inside shelter wall, loosen screw (6) and light cover (7).
- 3. Pull wires through receptacle boot (8) until receptacle is secure.
- 4. Secure receptacle (3) on outside of shelter with flat washer (2) and screws (1).
- 5. On inside of shelter install cover (7) and secure with screw (6).



4-33. PORTABLE LIGHT TABLE.

This task covers:

a. Remove

b. Replace

INITIAL SETUP

Tools:

Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

WARNING

Turn off tent light circuit breaker. Failure to do so may result in serious injury or death.

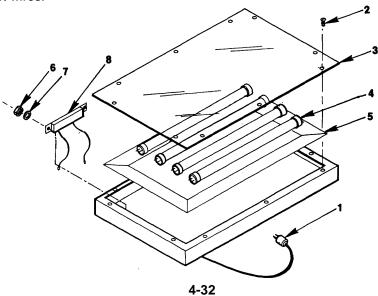
a. Remove.

- 1. Unplug light table power cord (1).
- 2. Remove 10 screws (2) and diffuser (3).
- 3. Grasp fluorescent tube (4) and rotate to remove.

NOTE

To remove ballast, all light tubes must be removed.

- 4. Remove reflective light panel (5).
- 5. Remove 2 nuts (6), 2 star washers (7) and ballast (8).
- 6. Tag and disconnect wires.



4-33. PORTABLE LIGHT TABLE. (Cont'd)

b. Replace.

- 1. Connect wires and remove tags.
- 2. Install ballast (8) and secure with star washers (7) and nuts (6).
- 3. Install reflective light panel (5).
- 4. Install 4 fluorescent tubes (4).
- 5. Install diffuser (3) and secure with 10 screws (2).
- 6. Connect light table power cord (1).
- 7. Test operate light table.

4-34. SHELTER BOOT.

This task covers: Repair

Refer to FM 10-16, Fabric Repair, for repair of rips and tears on the shelter boot.

4-35. TRAILER FRAME BOX LATCH.

This task covers:

a. Remove
b. Replace

Tools: <u>INITIAL SETUP</u>

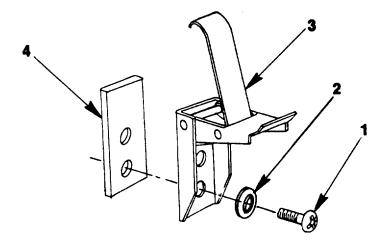
Tool Kit, General Mechanics, Automotive (Appendix B, Sec III)

NOTE

For latch remove/replace procedures all boxes on trailer frame can be considered identical.

a. Remove.

Remove 2 screws (1), 2 lock washers (2), latch (3) and spacer (4).



b. Replace.

- 1. Position spacer (4) on box.
- 2. Position latch (3) in place on spacer.
- 3. Secure latch (3) and spacer (4) to box with lock washer (2) and screws (1).

Section VII. PREPARATION FOR STORAGE OR SHIPMENT

4-36. **SPECIAL INSTRUCTIONS FOR ADMINISTRATIVE STORAGE**. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness with 24 hours or within the time factors as determined by the directing authority. During storage period, appropriate maintenance records will be kept.

Before placing equipment in administrative storage, current maintenance services and Equipment Serviceable Criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all Modification Work Orders (MWOs) should be applied.

<u>Storage Site Selection.</u> Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks vans, conex containers and other containers may be used.

4-35/(4-36 blank)

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

There are no Direct Support or General Support Maintenance Instructions.

TM 5-4520-253-23P

APPENDIX A

REFERENCES

A-1. **SCOPE**. This appendix lists all forms, technical manuals, and miscellaneous publications referenced in this manual. A-2. **TECHNICAL MANUALS.** Operator's Manual Truck, Utility, 1-1/4 Ton, 4x4, M1037 TM 9-2320-280-10 Operator's, Unit, and Direct Support Maintenance Manual Topographic Support System, Direct Support Section..... TM 5-6675-326-14 Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Repair Parts and Special Tools), Topographic Support System, Direct Support Section..... TM 5-6675-326-24P Operator's, Unit, and Direct Support Maintenance Manual Distribution Illumination System, (DISE) TM 9-6150-226-13 Organizational, Direct Support, and General Support Repair Parts and Special Tools List, Distribution Illumination System, (DISE) TM 9-6150-226-23P Operator's, Organizational, Direct Support and General Support Manual Air Conditioner Horizontal, Compact, 9,000 BTU/HR..... TM 5-4120-378-14 Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List, Air Conditioner Horizontal, Compact, 9,000 BTU/HR..... TM 5-4120-378-24P Operator's, Unit, and Direct Support Maintenance Manual Trailer, Cargo, 3/4 Ton, MIOIA2..... TM 9-2330-202-14&P Operator's, Unit, and Intermediate Maintenance Manual Heater, Space, Multifuel with Blower, 60,000 BTU/HR..... TM 5-4520-253-13 Unit and Intermediate Maintenance

Heater, Space, Multifuel with Blower

Repair Parts and Special Tools List,

| | Operator's, Unit, and Direct Support Maintenance Manual Reproduction Set, Diazo Process | TM 5-3610-256-14 |
|------|--|-------------------|
| | Organizational, Direct Support, and General Support Repair Parts and Special Tools List, Reproduction Set, Diazo Process | TM 5-3610-256-24P |
| | Operator's Manual Standard Integrated Command Post System Tent Command Post | TM 10-8340-225-10 |
| | Procedures for Destruction of Equipment to Prevent Enemy Use | TM 750-244-3 |
| A-3. | MISCELLANEOUS PUBLICATIONS. | |
| | Army Maintenance Management System (TAMMS) | DA PAM 738-750 |
| | Metal Body Repair and Related Operations | FM 43-2 |
| | Fabric Repair | FM 10-15 |
| A-4. | FORMS . | |
| | Recommended Changes to Publications and Blank Forms | DA FORM 2028 |
| | Equipment Inspection and Maintenance Worksheet | DA FORM 2404 |

TM 5-6675-331-14&P

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

- a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.
- b. The Maintenance Allocation Chart (MAC) in Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.
- c. Section III lists the special tools and test equipment required for each maintenance function as referenced from Section II.
- d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS.

- a. <u>Inspect</u>. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.
- b. <u>Test</u>. To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. <u>Service</u>. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluid, or compressed air supplies.
- d. <u>Adjust</u>. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. <u>Install</u>. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- f. Replace. The act of substituting a serviceable part, subassembly, or module (component or assembly) for an unserviceable counterpart.
- g. <u>Repair</u>. The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), and item, or system.

B-2. MAINTENANCE FUNCTIONS. (Cont'd)

- h. <u>Overhaul</u>. That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to new condition.
- i. <u>Rebuild</u>. Consists of those services/actions necessary for the restoration of unserviceable equipment to 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 (hours/miles, etc.) considered in classifying Army equipments/components.

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

- a. <u>Column 1, Group Number</u>. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.
- b. <u>Column 2, Component/Assembly</u>. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. <u>Column 3. Maintenance Functions</u>. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para. B-2.)
- d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of manhours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:
 - C Operator/crew
 - O Unit maintenance
 - F Direct support maintenance
 - H General support maintenance
 - D Depot maintenance
- e. <u>Column 5, Tools and Equipment</u>. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.
- f. <u>Column 6, Remarks</u>. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EOUIPMENT REOUIREMENTS, SECTION III.

- a. <u>Column 1, Reference Code</u>. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool(s) or test equipment for maintenance functions.
- b. <u>Column 2, Maintenance Category</u>. The codes in this column indicate the maintenance category allocated the tool or test equipment.
- c. <u>Column 3, Nomenclature</u>. Name or identification of the tool or test equipment required to perform the maintenance functions.
- d. <u>Column 4, National/NATO Stock Number</u>. This column lists the National/NATO stock number of the specific tool or test equipment.
- e. <u>Column 5, Tool Part Number</u>. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for Manufacturers (5-digit) in parenthesis.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

- a. Reference Code. The code recorded in Column 6, Section II.
- b. Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section II. MAINTENANCE ALLOCATION CHART

| NONMENCLATURE OF END ITEMS | | | | | | | | | |
|----------------------------|---|----------------------------|------------|------------|-----------|-----------|------------|---------------------|---------|
| (1) | (4) MAINTENANCE LEVEL | | | | | (5) | (6) | | |
| | | | | | DIR | GEN | | | |
| GROUP NUMBER | COMPONENT/ ASSEMBLY | MAINTENANCE FUNCTION | C | NIT O | SUPI F | PORT H | DEPOT D | TOOLS AND EQUIPMENT | REMARKS |
| 00 | Downsized Direct Support Station | | | | | | | | |
| 01 | HMMWV | | | | | | | | Α |
| 02 | Shelter Assembly | Inspect Service | 0.4 0.5 | 0.5 | | | | | |
| 0201 | Tail Lights | | | | | | | | Α |
| 0202 | Door | Inspect Repair | 0.3 | 0.5 | | | | | |
| 0203 | Cable Reel | Inspect | 0.1 | | | | | | |
| 0204 | Cable Assembly | | | | | | | | G |
| 0205 | Power Entrance Panel | Inspect Test Repair | 0.3 | 0.5 1.0 | | | | | |
| 0206 | Electrical | | | | | | | | |
| 020601 | Power Distri- bution Box | Inspect Test Repair | 0.1 | 0.2 0.3 | | | | | |
| 0207 | Wall Switches | Inspect Test Replace | 0.1 | 0.3 0.5 | | | | | |
| 0208 | Receptacles | Inspect Test Replace | 0.1 | 0.3 0.6 | | | | | |
| 0209 | Incan- descent Lights | Inspect Test Repair | 0.1 | 0.2 0.5 | | | | | |
| 0210 | Emergency Light Assembly | Inspect Test Repair | 0.2 | 0.3 0.5 | | | | | |
| 0211 | Fluorescent Ceiling Lights | Inspect Test Repair | 0.1 | 0.3 0.7 | | | | | |
| 0212 | Portable Light Table | Inspect | 0.1 | | В | | | | |

Section II. MAINTENANCE ALLOCATION CHART

| NONMENCLATURE OF END ITEMS | | | | | | | | | |
|----------------------------|---|----------------------------|-----------------------|------------|------|-----------|------------|------------------------|---------|
| (1) | (2) | (3) | (4) MAINTENANCE LEVEL | | | | | (5) | (6) |
| onoun. | OOMBONENT/ | MAINTENANCE | | NIT | _DIR | GEN | | TOOL O AND | |
| GROUP NUMBER | COMPONENT/ ASSEMBLY | MAINTENANCE FUNCTION | С | NII 0 | F | PORT H | DEPOT D | TOOLS AND EQUIPMENT | REMARKS |
| 0213 | Tent Light Receptacle | Inspect Test Replace | 0.1 | 0.2 0.6 | | | | | |
| 0215 | Magnifier Lamp | Inspect Replace | 0.1 | 0.6 | | | | | В |
| 0216 | Boot | Inspect Replace | 0.2 | 0.6 | | | | | |
| 0217 | Wall, Cabinet | Inspect | 0.1 | | | | | | |
| 0218 | Escape Hatch | Inspect | 0.2 | | | | | | |
| 0219 | Eye Wash Kit | Service Replace | 0.1 | 0.6 | | | | | |
| 03 | Trailer | | | | | | | | С |
| 0301 | Trailer Frame | | | | | | | | |
| 030101 | Trailer Frame Curbside | Inspect Replace | 0.2 | 1.0 | | | | | |
| 030102 | Trailer Frame Roadside | Inspect Replace | 0.2 | 1.0 | | | | | |
| 04 | Multifuel Space Heater | | | | | | | | D |
| 0401 | Heater Adapter Assembly | Inspect Replace | 0.2 | 1.0 | | | | | |
| 05 | Zoom Transfer Scope | | | | | | | | В |
| 06 | Quantity Processing System | | | | | | | | В |
| 07 | Diazo Process Reproduc- tion Set | | | | | | | | E |
| 08 | SICPS Tent | | | | | | | | F |

Section III. TOOLS AND TEST EQUIPMENT

| REFERENCE CODE | MAINTENANCE CATEGORY | NOMENCLATURE | NSN | TOOL NUMBER |
|-------------------|-------------------------|---|------------------|-------------|
| 1 | 0 | Tool Kit, General Mechanics, Automotive | 5180-00-177-7033 | |
| 2 | 0 | Multimeter | 6625-01-132-2512 | |

Section IV. REMARKS

| REFERENCE CODE | | REMARKS/DESCRIPTION |
|-------------------|--------------------|--|
| А | TM 9-2320-280-10 | Operator's Manual Truck, Utility, 1-1/4 Ton, 4x4, M1037 |
| В | TM 5-6675-326-14 | Operator's, Unit, and Direct Support Maintenance Manual Topographic Support System, Direct Support Section |
| С | TM 9-2330-202-14&P | Operator's, Unit, and Direct Support Maintenance Manual Trailer, Cargo, 3/4 Ton, M1OIA2 |
| D | TM 5-4520-253-13 | Operator's, Unit, and Intermediate Maintenance Manual Heater, Space, Multifuel with Blower, 60,000 BTU/HR |
| E | TM 5-3610-256-14 | Operator's, Unit, and Direct Support Maintenance Manual Reproduction Set, Diazo Process |
| F | TM 10-8340-225-10 | Operator's Manual Standard Integrated Command Post System Tent Command Post |
| G | TM 9-6150-226-13 | Operator's Unit, Direct Support Maintenance Manual, Distribution, Illumination, System (DISE) |

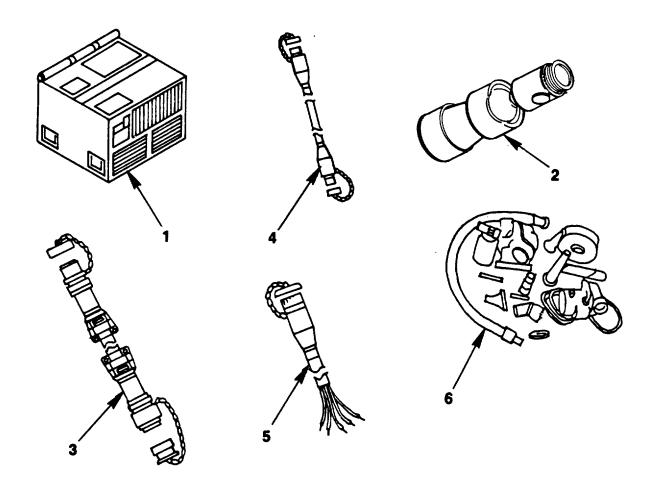
APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

Section I. INTRODUCTION

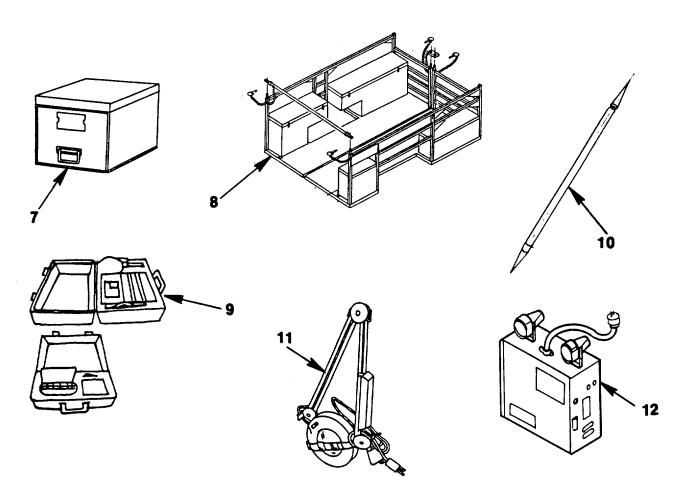
- C-1. **SCOPE**. This appendix lists components of end item and basic issue items for the Direct Support Section to help you inventory items required for safe and efficient operation.
- C-2. **INTRODUCTION**. The Components of End Item and Basic Issue Item lists are divided into the following sections:
 - a. <u>Section II. Components of End Item</u>. This is for informational purposes only and is not authority to requisition replacements. These items are part of the end item, but are removed and separately packaged for transportation or shipment. 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. <u>Section III. Basic Issue</u>. These are the minimum essential items required to place the Downsized Direct Support Section in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the Downsized Direct Support 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. <u>Column (1) Illustration Number (Illus Number).</u> This column indicates the number of the illustration in which the item is shown.
 - b. <u>Column (2) National Stock Number</u>. Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.
 - c. <u>Column (3) Description</u>. Indicates the Federal Item Name and, if required, a minimum description to identify and locate the item. The last line for each item indicates Contractor and Government Entity Code (CAGEC) (in parentheses) followed by the part number.
 - d. <u>Column (4) Unit of Measure (U/M).</u> 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. <u>Column (5) Quantity Required (QTY RQR).</u> Indicates the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM



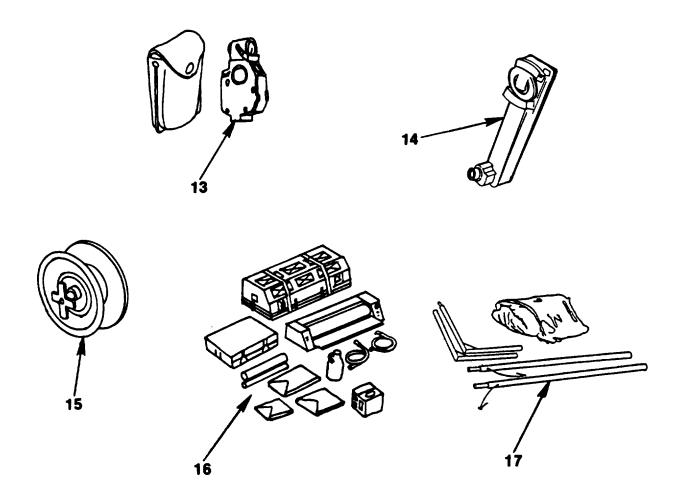
| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|---------------------------|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 1 | 4120-01-136-2214 | Air Conditioner | EA | 1 |
| | | (57107) A9KH-115P | | |
| 2 | | Ball Joint Adapter | EA | 1 |
| | | (51985) 102155 | | |
| 3 | 6150-01-250-0044 | Cable Assy, Pwr Elect | EA | 2 |
| | | (97403) 13226E7032-2 | | |
| 4 | 6150-01-247-4781 | Cable Assy, Pwr Elect | EA | 2 |
| | | (97403) 13226E7023-2 | | |
| 5 | 6150-01-256-6301 | Cable Assy, Spec Purpose | EA | 1 |
| | | (97403) 13226E7019 | | |
| 6 | 7910-00-205-3400 | Cleaner, Vacuum, Electric | EA | 1 |
| | | (12835) MVU | | |

Section II. COMPONENTS OF END ITEM - Continued



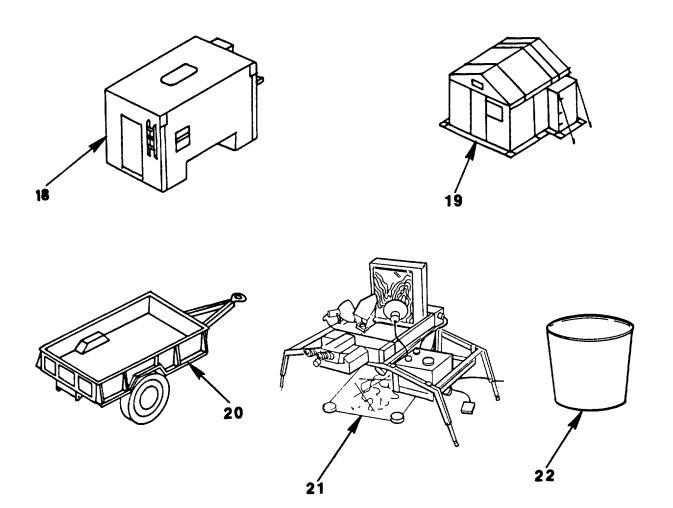
| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|----------------------------|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 7 | 7110-00-823-7218 | Filing Cabinet | EA | 4 |
| | | (81349) MILF43101 | | |
| 8 | | Frame, Trailer Assy mtd in | EA | 1 |
| | | MIO1A2 | | |
| | | (31902) 10624 | | |
| 9 | 6675-01-266-0700 | Graphic Quantity Processor | EA | 1 |
| | | (36970) L-2800AM | | |
| 10 | 6675-00-171-5159 | Jacobs Staff | EA | 1 |
| | | (58536) A-A-52024 | | |
| 11 | 6650-01-124-0832 | Lamp, Magnifier | EA | 1 |
| | | (15607) LFM1BX5 | | |
| 12 | 6220-01-197-7387 | Light, Emergency | EA | 1 |
| | | (72914) 11-0283-3 | | |

Section II. COMPONENTS OF END ITEM - Continued



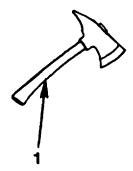
| (1) | (2) | (3) | (4) | (5) |
|---------|-----------------------|--|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 13 | 6675-01-168-4229 | Measurer, Optical Tree (04024) 43865 | EA | 1 |
| 14 | | Range Finder, Optical (35763) 8031-31 | EA | 1 |
| 15 | 8130-00-656-1090 | Reel, Cable (06076) RC-435/u | EA | 1 |
| 16 | 3610-01-123-7782 | Reproduction Set, Diazo (60887) 185.FL-M | EA | 1 |
| 17 | | Tent, Boot/Support System (97403) 13229E7461 | EA | 1 |

Section II. COMPONENTS OF END ITEM - Continued



| (1) | (2) | (3) | (4) | (5) |
|-----------------|-----------------------|-----------------------------------|-----|------------|
| Illus Number | National Stock Number | Description CAGEC and Part Number | U/M | QTY RQR |
| 18 | National Stock Names | Shelter, Nonexpander | EA | 1 |
| | | (31902) 10480 | | |
| 19 | | Standardized Integrated Command | EA | 1 |
| | | Post | | |
| | | System Tent Command Post | | |
| 20 | 2330-01-102-4697 | Trailer, Cargo | EA | 1 |
| | | (19207) 8750050 | | |
| 21 | 6675-01-043-6139 | Transfer, Scope, Zoom | EA | 1 |
| | | (06175) 53-05-04-20 | | |
| 22 | 7520-00-281-5911 | Wastepaper Basket | EA | 2 |
| | | (58536) A-A-182 | | |

Section III. BASIC ISSUE ITEMS



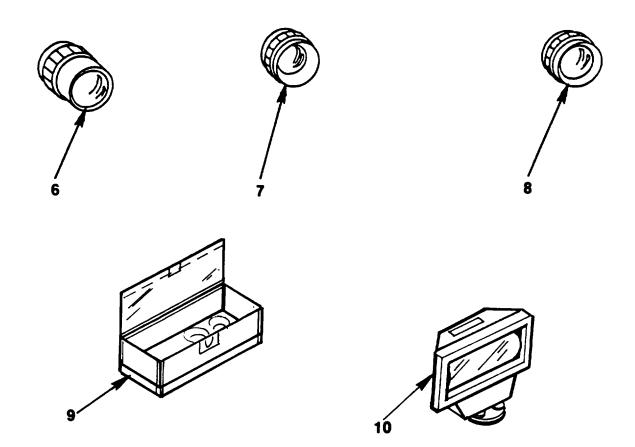




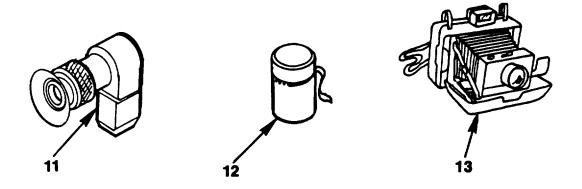




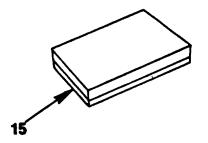
| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|---|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 1 | 4210-00-137-1970 | Ax, Pick Head (76109) 1-1/2 # PKHD | EA | 1 |
| 2 | 6720-01-122-3366 | Camera, Still Picture (80058) KS-99C1 | EA | 1 |
| 3 | 6720-01-018-1682 | Camera, Body, Still (53374) C12-0751-211 | EA | 1 |
| 4 | 6720-01-022-6333 | Cap, Dust, Rear u/w camera (53374) 43-1473 | EA | 1 |
| 5 | 6720-01-024-3872 | Cover, Camera Lens (2G118) C45-2031 | EA | 1 |



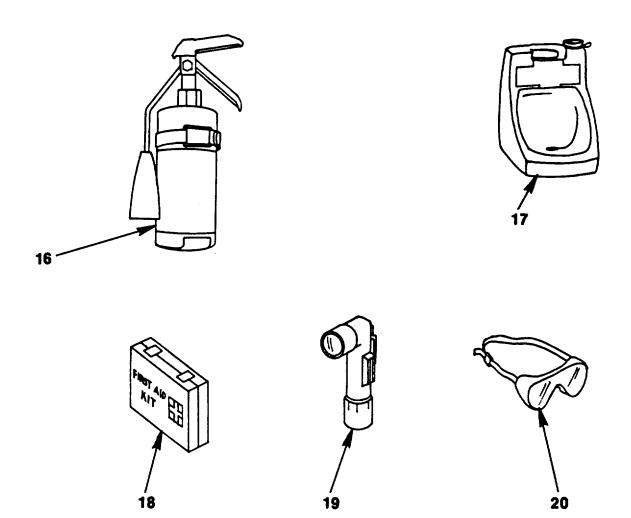
| (1) Illus | (2) | (3) Description | (4) | (5) QTY |
|--------------|-----------------------|--|-----|------------|
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 6 | 6760-00-614-9224 | Lens 135 mm lg F/2.8 u/w Camera (2G118) C21-7221-201 | EA | 1 |
| 7 | 6760-00-614-9223 | Lens 35 mm lg F/2.8 u/w Camera (2G118) C21-5241-201 | EA | 1 |
| 8 | 6760-01-024-3867 | Lens 50 mm lg F/1.8 u/w Camera (G118) C21-6107-201 | EA | 1 |
| 9 | 6760-00-602-5107 | Case, Photographic Equipment (2G118) 4-800151 | EA | 1 |
| 10 | 6720-01-149-2259 | Flash, Electric Unit | EA | 1 |



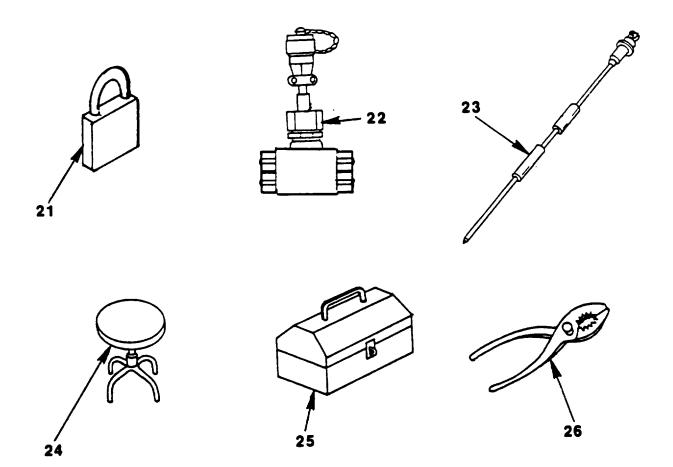




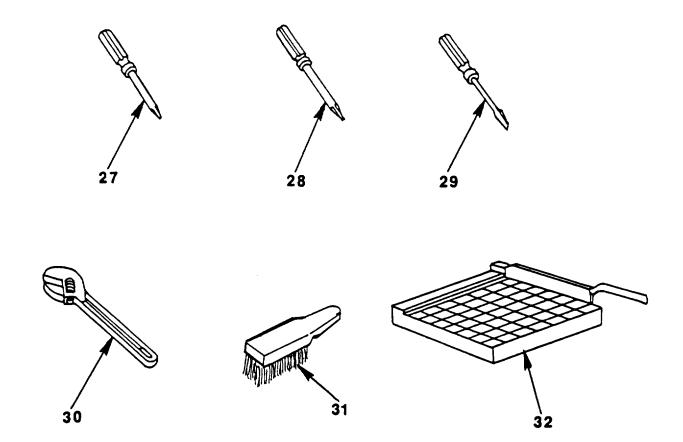
| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|---|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 11 | 6760-00-614-9257 | Viewer 90° Angle | EA | 1 |
| 12 | 6720-01-024-3872 | Lens Bag | EA | 1 |
| 13 | 6720-01-064-8071 | Camera Set, Still Picture (29556) EE-100 | EA | 2 |
| 14 | 7105-00-269-8463 | Chair, Folding (80063) SCD539471 | EA | 5 |
| 15 | 8460-21-593-3018 | Case, Map Container (MET-R-00381) | EA | 5 |



| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|---|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 16 | 4212-00-555-8837 | Extinguisher, Fire (06535) FH900-2 | EA | 2 |
| 17 | 4240-01-241-2431 | Eye Wash Station, Laboratory (95632) Lab Line 99 | EA | 1 |
| 18 | 6545-00-922-1200 | First Aid Kit (19207) 11677011 | EA | 1 |
| 19 | 6230-00-161-6422 | Flashlight (80063) TL122D | EA | 1 |
| 20 | 4240-00-816-3819 | Goggles, Industrial (74936) WA60SH07460315 | EA | 1 |



| (1) Illus | (2) | (3) Description | (4) | (5) QTY |
|--------------|-----------------------|--|-----|------------|
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 21 | 5340-00-682-1501 | Padlock Set (81349) MIL-P-17802 | SE | 1 |
| 22 | 9150-01-251-3125 | Receptacle Group 2 Duplex (97403) 13226E7040 | EA | 2 |
| 23 | 5975-01-050-5707 | Rod, Ground (97403) 13219E0462 | EA | 1 |
| 24 | 7110-00-634-8596 | Stool, Revolving (81349) AA-8A700 | EA | 1 |
| 25 | 5140-00-315-2747 | Tool Box Portable (81348) GGG-T-558 | EA | 1 |
| 26 | 5100-00-223-7396 | Pliers, Slip Joint (93389) 376 | EA | 1 |



| (1) | (2) | (3) | (4) | (5) |
|--------|-----------------------|---|-----|-----|
| Illus | | Description | | QTY |
| Number | National Stock Number | CAGEC and Part Number | U/M | RQR |
| 27 | 5120-00-764-8080 | Screwdriver, Cross Tip Size 1 (84040) G-801DR | EA | 1 |
| 28 | 5120-00-764-8120 | Screwdriver, Cross Tip Size 3 (84040) G-803DR | EA | 1 |
| 29 | 5120-00-234-8910 | Screwdriver, Flat Tip (77873) FT1-1 | EA | 2 |
| 30 | 5120-00-240-5328 | Wrench, Adjustable (39428) 5385A13 | EA | 1 |
| 31 | 7920-00-291-5815 | Brush Wire, Scratch (81348) H-B-178/1 | EA | 1 |
| 32 | 7520-00-224-7621 | Trimmer, Paper, Drop Knife (79819) 08-2-24 | EA | 1 |

C-11/(C-12 blank)

APPENDIX D

ADDITIONAL AUTHORIZATION LIST

SECTION I. INTRODUCTION

- D-1. **SCOPE**. This appendix lists additional items you are authorized for the support of the Downsized Direct Support Section.
- D-2. **GENERAL**. This list identifies items that do not have to accompany the Downsized Direct Support 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) | (2) | (3) | (4) |
|-----------------------|----------------------------------|-----|------|
| | Description | | QTY |
| National Stock Number | FSCM and Part Number | U/M | AUTH |
| 4520-01-203-4410 | Heater, Space | EA | 1 |
| 6675-00-202-8542 | Interpretation Kit, Photographic | EA | 1 |
| 5805-00-543-0012 | Telephone TA-312/PT | EA | 1 |

D-1 /(D-2 blank)

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. **SCOPE**. This appendix lists expendable and durable items that you will need to operate and maintain the Downsized Direct Support Section. This listing is for informational 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. <u>Column (1)-Item Number</u>. 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 Unit Maintenance
 - F Direct Support Maintenance
 - H General Support Maintenance
- c. <u>Column (3)-National Stock Number.</u> This is the National Stock Number assigned to the item; use it to request or requisition the item.
- d. <u>Column (4)-Description</u>. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Commercial and Government Entity Code (CAGE) in parentheses followed by the part number.
- e. <u>Column (5)-Unit of Measure (U/M).</u> Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr). If the 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) | (2) | (3) | (4) | (5) |
|--------|-------|-----------------------|-------------------------------|-----|
| Item | | , , | . , | . , |
| Number | Level | National Stock Number | Description | UM |
| 1 | С | 8040-00-266-0849 | Adhesive | Jr |
| 2 | С | 6135-00-643-1309 | Battery, Nonrechargeable u/w | Pg |
| | | | electronic flash | |
| 3 | С | 7510-00-616-7471 | Binder & Filler Loose Leaf | Ea |
| 4 | С | 8125-01-088-3553 | Bottle, Applicator | Bt |
| 5 | С | 7510-00-223-6706 | Chalk, Marking | Bx |
| 6 7 | С | 7920-01-215-6568 | Cloth, Chamois, Artificial | Ea |
| | 0 | | Cloth | Ea |
| 8 | С | 8320-00-299-8625 | Cotton, Nonsterile | Bg |
| 9 | С | 6750-01-053-2029 | Film u/w Still Camera KS-9901 | Bx |
| 10 | С | 9150-00-273-2389 | Lubricating Oil, General | Cn |
| | | | Purpose | |
| 11 | С | 6640-00-559-1384 | Paper, Lens | Bx |
| 12 | С | 7530-01-006-4496 | Paper, Tracing | Rm |
| 13 | С | 6750-00-868-7901 | Picture Pack, Rapid PRC., | Pg |
| | | | Photo | |
| 14 | С | 9330-01-126-0009 | Plastic Sheet 24x30 in. X | Ro |
| | | | .0075 | |
| 15 | С | 9330-01-125-4587 | Plastic Sheet, Matte One Side | Ro |
| 16 | 0 | 8040-00-828-7385 | Silicone Sealant | EA |
| 17 | 0 | 5040-00-103-2254 | Tape, Cloth, Duct Sealing | EA |

APPENDIX F

REPAIR PARTS & SPECIAL TOOLS LIST

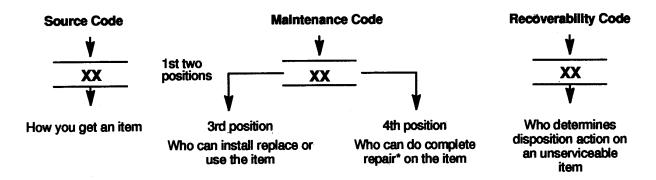
SECTION I. INTRODUCTION

- F-1. **SCOPE**. This RPSTL lists and authorizes spares and repair parts, special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of operator, unit, direct support, and general support maintenance. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.
- F-2. **GENERAL**. In addition to this section, Introduction, this Repair Parts and Special Tools List is divided into the following sections.
 - a. <u>Section II. Repair Parts List</u>. A list of spares and repair parts authorized by the RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts Lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items are shown on the associated illustration(s)/ figure(s).
 - b. <u>Section III. Special Tools List.</u> A list of special tools, special TMDE, and other special support equipment authorized by the RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.
 - c. <u>Section IV. National Stock Number and Part Number Index.</u> A list, in National item identification number (NIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.
 - a. Column 1, Item No.. Indicates the number used to identify items called out in the illustration.
 - b. <u>Column 2. SMR Code</u>. The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:

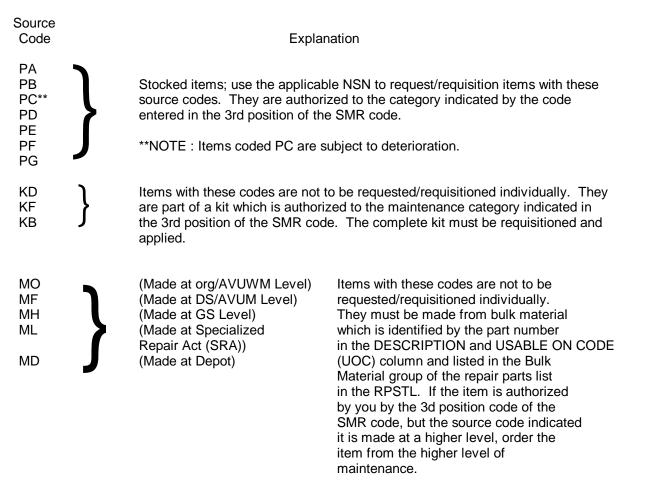
F-3. EXPLANATION OF COLUMNS. SECTIONS II AND III.

a. Column 1. Item No. Indicates the number used to identify items called out in the illustration.

b. <u>SMR Code (Column (2)).</u> The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



- * Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.
 - (1) <u>Source Code</u>. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanation of source code follow.



SOURCE CODE

AO (Assembled by org AVUM Level) AF (Assembled by DS/AVUM Level) AH (Assembled by GS Category) AL (Assembled by SRA) (Assembled by Depot)

EXPLANATION

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code, authorizes you to replace the item, but the source code indicates the items are assembled at a higher level, order the item from the higher level of maintenance.

- XA -- Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
- XB - If an "XB" item is not available from salvage, order it using the CAGE Code and part number given.
- XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD - Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE Code and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42

(2) <u>Maintenance code.</u> Maintenance codes tells you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are centered in the third and fourth positions of the SMR Code as follows:

The maintenance code centered in the third position tells you the lowest maintenance level authorized to remove, replace, and user an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Maintenance

Code

Explanation

- C Crew or operator maintenance done within unit/AVUM maintenance.
- O Unit level VAVUM maintenance can remove, replace, and use the item.
- F Direct support/AVIM maintenance can remove, replace, and use the item.
- H General support maintenance can remove, replace, and use the item.
- L Specialized repair activity can remove, replace, and use the item.
- D Depot can remove, replace, and use the item.

The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on an item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes. This position will contain one of the following maintenance codes.

Maintenance

Code

Explanation

- O Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
- F Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
- H General Support is the lowest level that can do complete repair of the item.
- L Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
- D Deport is the lowest level that can do complete repair of the item.
- Z Nonrepairable. No repair is authorized.
- H No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

Recoverability

Codes

Explanation

- Z Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3rd position of SMR Code.
- O Repairable item. When not economically repairable, condemn and dispose of the item at unit or AVUM level.
- F Repairable item. When uneconomically repairable, condemn and dispose of the item at the direct support or AVIM level.
- H Repairable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
- D Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
- L Repairable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
- A Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.
- c. <u>Column 3. CAGEC</u>. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- d. <u>Column 4. Part Number</u>. Indicates the primary number used by the manufacturer, (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

- e. <u>Column 5</u>. Description and Usable on Code (UOC). This column includes the following information:
- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification of the item is indicated by the parenthetical entry, e.g., Phy Sec C1-Confidential, Phy Sec CI (S)-Secret, Phy Sec CI (T)-Top Secret.

- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/ fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the description (before UOC).
- (7) The usable on code, when applicable (see paragraph 5, Special Information).
- (8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment, When density of equipments supported exceed density spread indicated in the basis of issue, the total authorization is increased proportionately.
- (9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.
- f. <u>Column 6. OTY</u>. The QTY quantity per figure column indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

F-4. EXPLANATION OF COLUMNS. SECTION IV.

- National Stock Number (NSN) Index.
 - (1) Stock number column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists

of the last nine digits of the NSN i.e.,

When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

- (2) <u>FIG column.</u> This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.
- (3) <u>Item column.</u> The item number identifies the item associated with the figure listed in the adjacent FIG column. This item is also identified by the NSN listed on the same line.

- b. Part Number Index. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter.
 - (1) <u>Stock number column.</u> This column lists the NSN for the associated part number and manufacturer identified in the Part Number and FSCM columns to the left.
 - (2) <u>FIG column.</u> This column lists the number of the figure where the item is identified/located in Sections I and III.
 - (3) <u>Item column</u>. The item number is that number assigned to the item as it appears in the figure referenced in adjacent figure number column.

F-5. **SPECIAL INFORMATION**. Use the following subparagraphs as applicable:

- a. Usable on Code. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC:.." in the Description Column (justified left) on the first line applicable item description/nomenclature. Uncoded items are applicable to all models.
- b. Associated Publications. Refer to Appendix A, References.

F-6. HOW TO LOCATE REPAIR PARTS.

- a. When National Stock Number or Part Number is NOT Known.
 - (1) Use the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings, are divided into the same groups.
 - (2) Find the figure covering the assembly group or subassembly group to which the item belongs.
 - (3) Identify the item on the figure and note the item number.
 - (4) Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.
 - (5) Refer to the Part Number Index to find the NSN, if assigned.

- b. When National Stock Number or Part Number is Known
 - (1) Use the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4a(1). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph 4(b)). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.
 - (2) After finding the figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.
- F-7. ABBREVIATIONS. Abbreviation used in the manual are listed in MIL-STD-12.

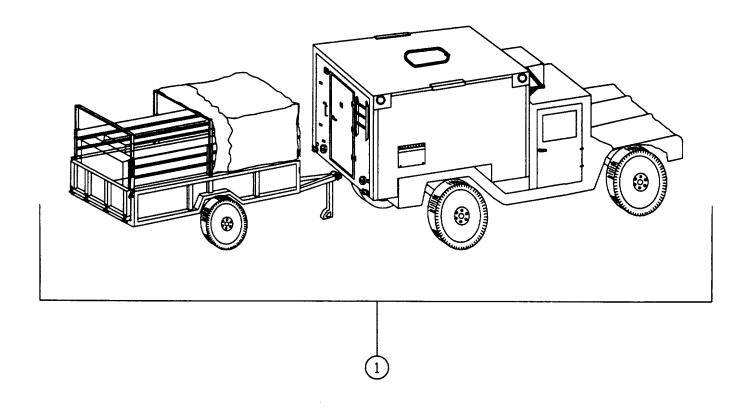


FIGURE 1. DDSS UNIT

F-9 Blank/F-10

| SECTIO | II NC | | | TM 5-6675-331 | -14&P |
|--------|-------------|-------|----------------|--|-------|
| (1) | (2) | (3) | (4) DART | (5) | (6) |
| NO NO | SMR CODE | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 00 DOWNSIZED DIRECT SUPPORT SYSTEM | |
| | | | | FIG. 1 DDSS UNIT | |
| 1 | XDOOD | 97403 | 13229E7370 | TOPOGRAPHIC SUPPORT | 1 |
| | | | | END OF FIGURE | |
| | | | | | |

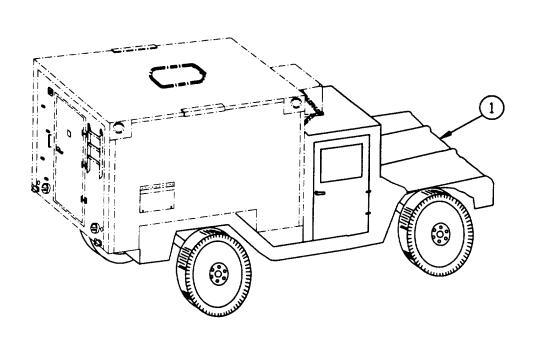
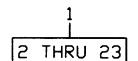


FIGURE 2. TRUCK, (HMMWV)

F-12

| SECTIO | II NC | | | TM 5-6675-331 | -14&P |
|-------------|------------|-------|-------------|---|-------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) GROUP 01 HMMWV | QTY |
| | | | | FIG. 2 TRUCK (HMMWV) | |
| 1 | PDODD | 19207 | 8750117 | TRUCK, (HMMWV) SEE TM9-2330-20214&P FOR PARTS BREAKDOWN | 1 |
| | | | | END OF FIGURE | |



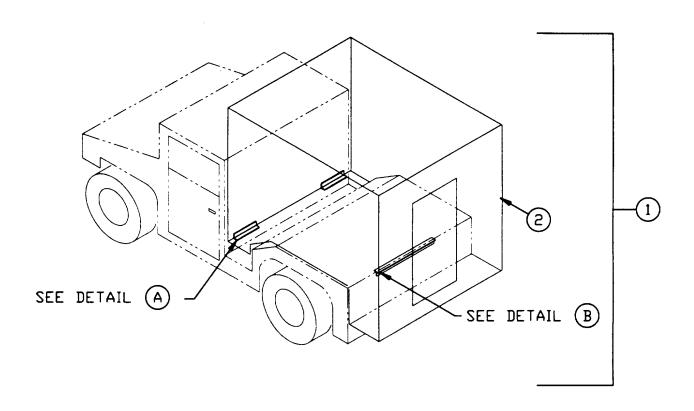


FIGURE 3. SHELTER AND MOUNTINGS (SHEET 1 OF 3)

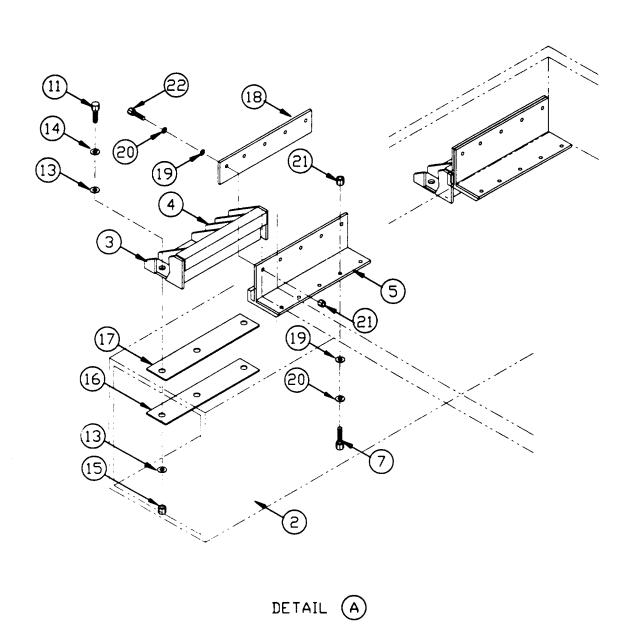
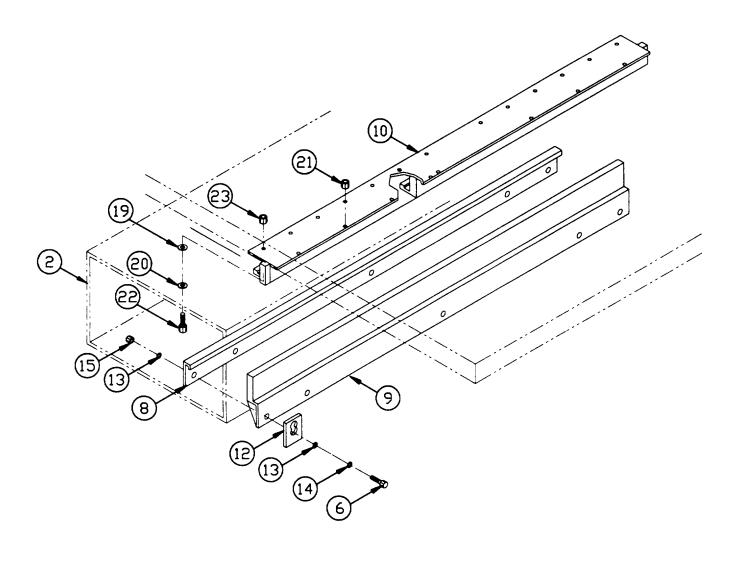


FIGURE 3. SHELTER AND MOUNTINGS (SHEET 2 OF 3)



DETAIL B

FIGURE 3. SHELTER AND MOUNTINGS (SHEET 3 OF 3)

SECTION II TM 5-6675-331-14&P

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|--------------|---------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 3 SHELTER AND MOUNTINGS | |
| 1 | XDOOO | 97403 | 13229E7371 | SHELTER & MOUNTING | 1 |
| 2 | XDOOO | 05699 | 707500-010 | SHELTER SEE DETAIL A,B | 1 |
| 3 | XDOZZ | 97403 | 13229E7479-1 | MOUNTING ELEMENT SEE DETAIL A | 1 |
| 4 | XDOZZ | 97403 | 13229E7479-2 | MOUNTING ELEMENT SEE DETAIL A | 1 |
| 5 | XDOZZ | 97403 | 13229E7480-1 | MOUNTING ELEMENT SEE DETAIL A | 2 |
| 6 | XDOZZ | 88044 | AN8C20A | BOLT,MACHINE SEE DETAIL B | 5 |
| 7 | | 88044 | AN5C5A | BOLT,MACHINE SEE DETAIL A | 14 |
| 8 | | 97403 | 13229E7478-1 | MOUNTING ELEMENT SEE DETAIL B | 1 |
| 9 | | 97403 | 13229E7478-2 | MOUNTING ELEMENT SEE DETAIL B | 1 |
| 10 | XDOZZ | 97403 | 13229E7481 | MOUNTING ELEMENT SEE DETAIL B | 1 |
| 11 | XDOZZ | 88044 | AN8C16A | BOLT,MACHINE SEE DETAIL A | 6 |
| 12 | XDOZZ | 97403 | 13229E7479-5 | BACKPLATE SEE DETAIL B | 5 |
| 13 | XDOZZ | 88044 | AN960C816L | WASHER,FLAT SEE DETAIL A,B | 22 |
| 14 | XDOZZ | 96906 | MS35338-143 | WASHER,LOCK SEE DETAIL A B | 11 |
| 15 | XDOZZ | 96906 | MS21044C8 | NUT, SELF-LOCKING, HE SEE DETAIL A, B | 11 |
| 16 | XDOZZ | 97403 | 13229E7479-3 | SHIM SEE DETAIL A | 2 |
| 17 | XDOZZ | 97403 | 13229E7479-4 | SHIM SEE DETAIL A | 4 |
| 18 | XDOZZ | 97403 | 13229E7480-2 | PLATE SEE DETAIL A | 2 |
| 19 | XDOZZ | 96906 | MS27183-10 | WASHER, FLAT SEE DETAIL AB | 42 |
| 20 | XDOZZ | 96906 | MS35337-83 | WASHER SEE DETAIL AB | 42 |
| 21 | XDOZZ | 84256 | AP520-524 | INSERT SEE DETAIL A.B. | 42 |
| 22 | XDOZZ | 88044 | AN5C7A | BOLT,MACHINE SEE DETAIL A,B | 20 |
| 23 | XDOZZ | 84256 | AP515-524 | INSERT,POTTED,5/16 SEE DETAIL B | 22 |

END OF FIGURE

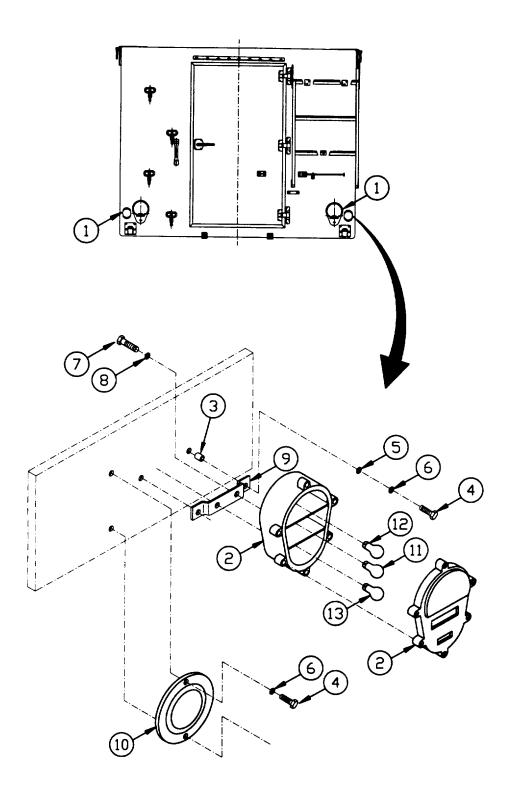


FIGURE 4. TAILLIGHT ASSEMBLY

SECTION II TM 5-6675-331-14&P

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|-----------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 4 TAILLIGHT ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7376 | TAILLIGHT ASSY | 1 |
| 2 | PAOZZ | 96906 | MS52125-2 | STOP LIGHT-TAILLIGH | 2 |
| 3 | XDOZZ | 84256 | AP515-428 | INSERT,1/4 | 8 |
| 4 | XDOZZ | 96906 | MS35308-305 | SCREW,CAP,HEXAGON H | 8 |
| 5 | XDOZZ | 88044 | AN960C416L | WASHER,FLAT | 8 |
| 6 | XDOZZ | 96906 | MS35338-139 | WASHER,LOCK | 8 |
| 7 | XDOZZ | 96906 | MS35307-357 | SCREW,CAP,HEXAGON H | 4 |
| 8 | XDOZZ | 96906 | MS35338-141 | WASHER,LOCK | 4 |
| 9 | XDOZZ | 97403 | 13229E7482 | BRACKET, TAILLIGHT | 2 |
| 10 | PAOZZ | 05699 | A-A-2129 TYPE 1 | REFLECTOR | 2 |
| 11 | PAOZZ | 81349 | ML-1683 | BULB,STOP | 1 |
| 12 | PAOZZ | 81349 | MI-623 | BULB,PARKING | 1 |
| 13 | PAOZZ | 81349 | ML-1251 | BULB,BLACKOUT | 1 |

END OF FIGURE

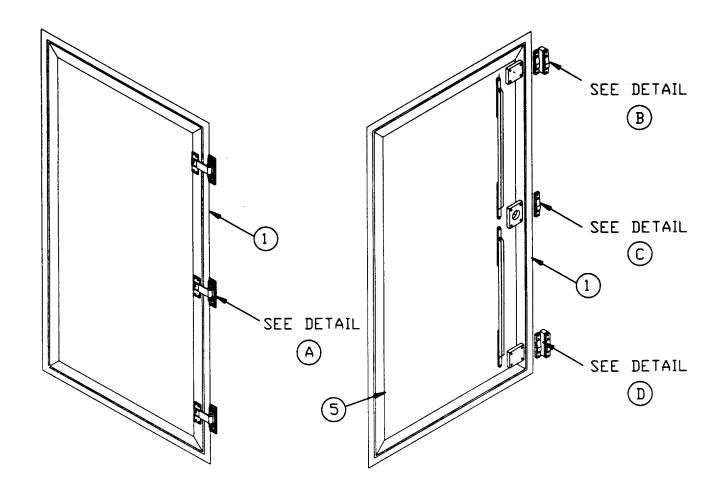
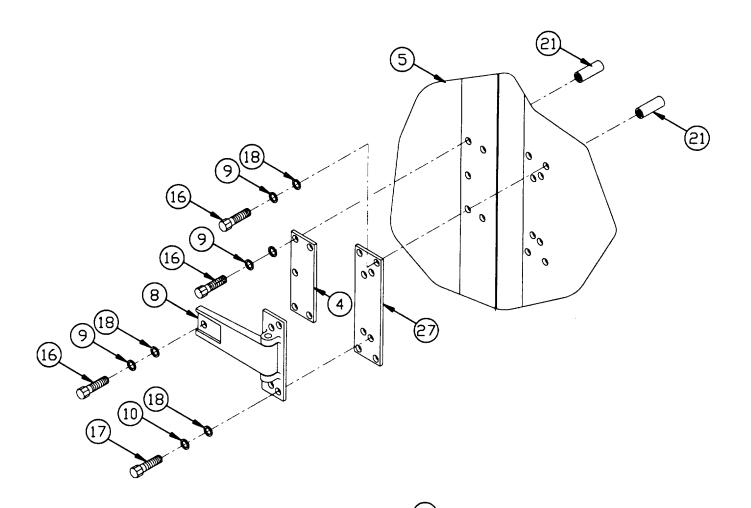
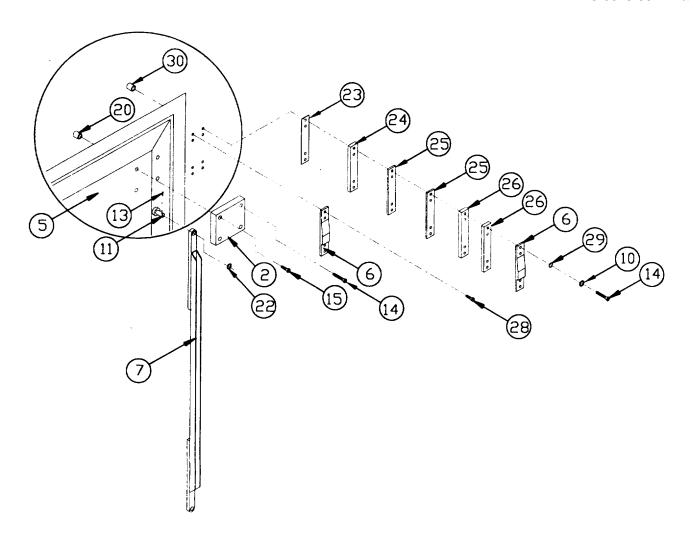


FIGURE 5. DOOR ASSEMBLY (SHEET 1 OF 5)



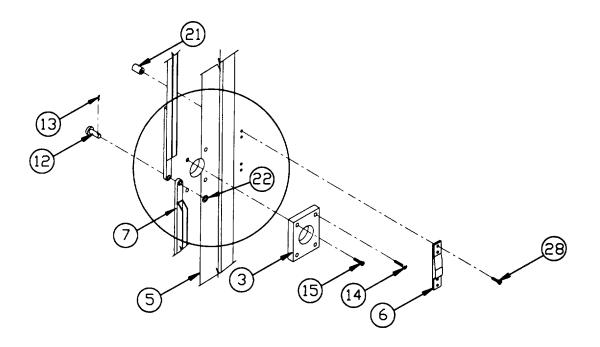
DETAIL (A)

FIGURE 5. DOOR ASSEMBLY (SHEET 2 OF 5)



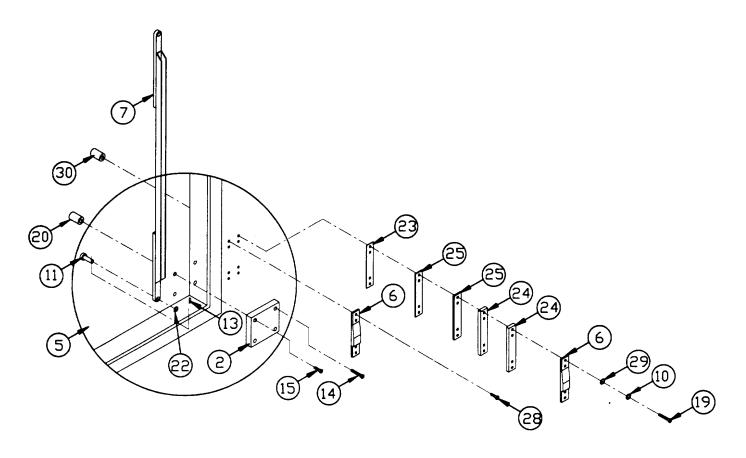
DETAIL B

FIGURE 5. DOOR ASSEMBLY (SHEET 3 OF 5)



DETAIL C

FIGURE 5. DOOR ASSEMBLY (SHEET 4 OF 5)



DETAIL D

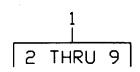
FIGURE 5. DOOR ASSEMBLY (SHEET 5 OF 5)

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SECTION II TM 5-6675-331-14&P

| GROUP 02 SHELTER ASSEMBLY FIG. 5 DOOR ASSEMBLY 1 XDOOO 97403 13229E7377 DOOR ASSY | QTY 1 2 |
|---|----------------|
| FIG. 5 DOOR ASSEMBLY 1 XDOOO 97403 13229E7377 DOOR ASSY | - |
| 1 XDOOO 97403 13229E7377 DOOR ASSY | - |
| 2 XDOZZ 97403 13229E7494-2 SPACER, LATCH ASSY SEE DETAIL B, D. 3 XDOZZ 97403 13229E7484-1 SPACER, HANDLE DOOR SEE DETAIL C. 4 XDOZZ 97403 13229E7485-1 SHIM SEE DETAIL A. 5 XDOZZ 97403 13229E7486 DOOR PANEL SEE DETAIL A, B, C, D. 6 XDOZZ 97403 13229E7489 STRIKE SEE DETAIL B, C D. 7 XDOZZ 97403 13229E7487 LINK ASSY, DOOR SEE DETAIL B, C, D. 8 XDOZZ 8063 SM-C-563520 HINGE, DOOR SEE DETAIL A. 9 XDOZZ 88044 AN960C416 WASHER, FLAT SEE DETAIL A. 10 XDOZZ 96906 MS20392-3C19 PIN, STRAIGHT, HEADED SEE DETAIL B, D. 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL C. 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D. 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D. | - |
| 2 XDOZZ 97403 13229E7494-2 SPACER, LATCH ASSY SEE DETAIL B, D. 3 XDOZZ 97403 13229E7484-1 SPACER, HANDLE DOOR SEE DETAIL C. 4 XDOZZ 97403 13229E7485-1 SHIM SEE DETAIL A. 5 XDOZZ 97403 13229E7486 DOOR PANEL SEE DETAIL A, B, C, D. 6 XDOZZ 97403 13229E7489 STRIKE SEE DETAIL B, C D. 7 XDOZZ 97403 13229E7487 LINK ASSY, DOOR SEE DETAIL B, C, D. 8 XDOZZ 8063 SM-C-563520 HINGE, DOOR SEE DETAIL A. 9 XDOZZ 88044 AN960C416 WASHER, FLAT SEE DETAIL A. 10 XDOZZ 96906 MS20392-3C19 PIN, STRAIGHT, HEADED SEE DETAIL B, D. 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL C. 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D. 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D. | 2 |
| 3 XDOZZ 97403 13229E7484-1 SPACER, HANDLE DOOR SEE DETAIL C | |
| 4 XDOZZ 97403 13229E7485-1 SHIM SEE DETAIL A 5 XDOZZ 97403 13229E7486 DOOR PANEL SEE DETAIL A, B, C, D 6 XDOZZ 97403 13229E7489 STRIKE SEE DETAIL B, C D 7 XDOZZ 97403 13229E7487 LINK ASSY, DOOR SEE DETAIL B, C, D 8 XDOZZ 80063 SM-C-563520 HINGE, DOOR SEE DETAIL A 9 XDOZZ 88044 AN960C416 WASHER, FLAT SEE DETAIL A 10 XDOZZ 88044 AN960C416L WASHER, FLAT SEE DETAIL A, B, C, D 11 XDOZZ 96906 MS20392-3C19 PIN, STRAIGHT, HEADED SEE DETAIL B, D 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL B, C, D 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D | 1 |
| 5 XDOZZ 97403 13229E7486 DOOR PANEL SEE DETAIL A, B, C, D. 6 XDOZZ 97403 13229E7489 STRIKE SEE DETAIL B, C D. 7 XDOZZ 97403 13229E7487 LINK ASSY, DOOR SEE DETAIL B, C, D. 8 XDOZZ 80063 SM-C-563520 HINGE, DOOR SEE DETAIL A 9 XDOZZ 88044 AN960C416 WASHER, FLAT SEE DETAIL A 10 XDOZZ 88044 AN960C416L WASHER, FLAT SEE DETAIL A, B, C, D. 11 XDOZZ 96906 MS20392-3C19 PIN, STRAIGHT, HEADED SEE DETAIL B, D. 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL B, C, D. 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D. 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D. | 3 |
| 7 XDOZZ 97403 13229E7487 LINK ASSY, DOOR SEE DETAIL B, C, D | 1 |
| 8 XDOZZ 80063 SM-C-563520 HINGE, DOOR SEE DETAIL A | 6 |
| 8 XDOZZ 80063 SM-C-563520 HINGE, DOOR SEE DETAIL A | 2 |
| 10 XDOZZ 88044 AN960C416L WASHER, FLAT SEE DETAIL A, B, C, D | 3 |
| 11 XDOZZ 96906 MS20392-3C19 PIN, STRAIGHT, HEADED SEE DETAIL B, 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL C 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D | 33 |
| D | 6 |
| 12 XDOZZ 96906 MS20392-3C27 PIN, STRAIGHT, HEADED SEE DETAIL C 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D | 2 |
| 13 XDOZZ 96906 MS24665-151 PIN, COTTER SEE DETAIL B, C, D 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D | |
| 14 XDOZZ 96906 MS51960-81 SCREW, MACHINE SEE DETAIL B, C, D | 1 |
| | 3 |
| 15 YDD77 96996 M99469C109 - 9CDEW MACHINE SEE DETAIL B.C.D. | 4 |
| | 8 |
| , , | 24 |
| | 12 |
| · | 33 |
| 19 XDOZZ 96906 MS51960-68 SCREW, MACHINE SEE DETAIL D | 6 |
| 20 XDOZZ 84256 AP428-260 INSERT SEE DETAIL B, D | 6 |
| | 43 |
| 22 XDOZZ 05699 4L4-F BEARING, SLEEVE SEE DETAIL C, D | 4 |
| 23 XDOZZ 97403 13229E7485-2 SHIM SEE DETAIL B, C, D | 3 |
| 24 XDOZZ 97403 13229E7485-3 SHIM SEE DETAIL B, D | 3 6 |
| 25 XDOZZ 97403 13229E7485-4 SHIM SEE DETAIL B, C, D | 6 |
| 27 XDOZZ 97403 13229E7465-6 SHIM SEE DETAIL B, D | 3 |
| 28 XDOZZ 96906 MS51960-66 SCREW, MACHINE SEE DETAIL B | ა 6 |
| 29 XDOZZ 96906 MS35337-81 WASHER SEE DETAIL B | 6 |
| | 12 |

END OF FIGURE



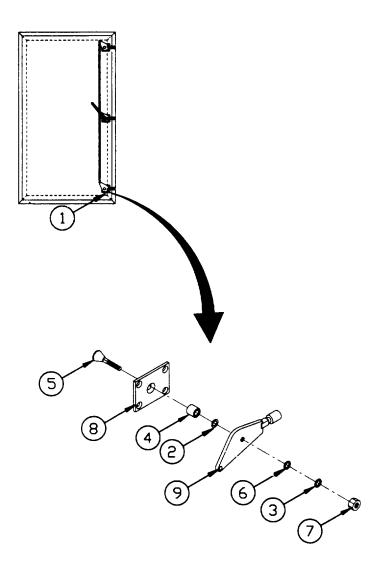


FIGURE 6. LATCH ASSEMBLY, DOOR

SECTION II TM 5-6675-331-14&P

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|----------------------------|---|--|--|---|---------------------------------|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 6 LATCH ASSEMBLY DOOR | |
| 1 2 3 4 5 6 | XDOOO XDOZZ XDOOO XDOZZ XDOZZ XDOZZ XDOZZ | 97403 05699 05699 97403 96906 96906 | 13229E7488-1 600591-002 707559-3 13229E7483 MS24694-0198 MS15793-813 MS6104466 | LATCH ASSY, DOOR WASHER WASHER BEARING, LATCH SCREW WASHER NUT | 2 1 1 2 2 2 2 |
| 8 9 | XDOZZ XDOOO | 97403 | 13229E7494-1 13229E7495-1 | PLATE, LATCH ASSEMBLPIVOT ARMS, DOOR SEE FIGURE 7 FOR PARTS BREAKDOWN | 2 |

END OF FIGURE

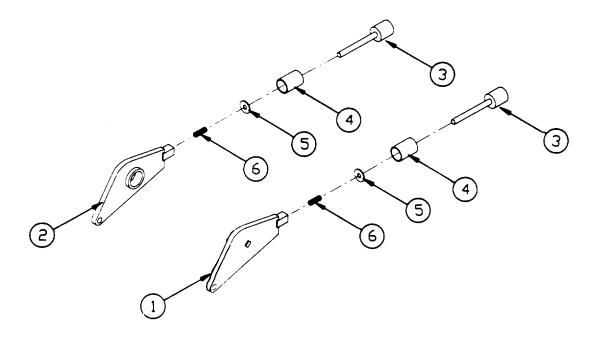
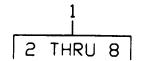


FIGURE 7. PIVOT ARMS, DOOR

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|-------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 7 PIVOT ARMS, DOOR | |
| 1 | XDOZZ | 05699 | 708130-1 | PIVOT ARM, CENTER | 1 |
| 2 | XDOZZ | 05699 | 708139-1 | PIVOT ARM, END | 2 |
| 3 | XDOZZ | 05699 | 708125-1 | PIN | 3 |
| 4 | XDOZZ | 05699 | 708123-1 | ROLLER | 3 |
| 5 | XDOZZ | 88044 | AN960C016 | WASHER | 3 |
| 6 | XDOZZ | 96906 | MS16562-213 | PIN, SPRING | 3 |
| | | | | END OF FIGURE | |



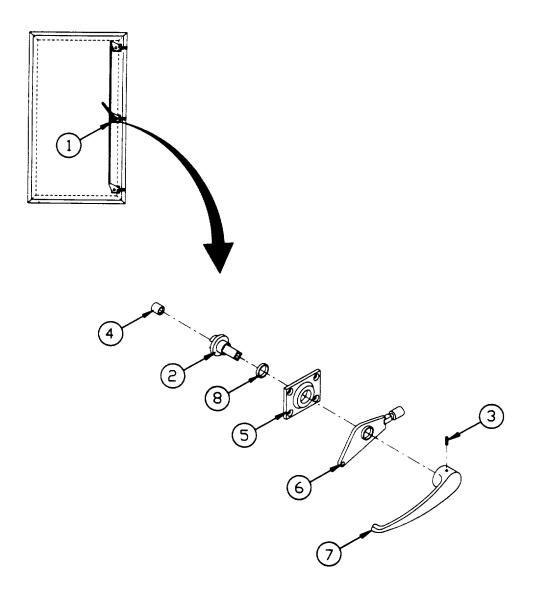
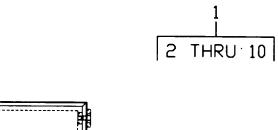


FIGURE 8. HANDLE ASSEMBLY, DOOR INSIDE

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|---------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 8 HANDLE ASSEMBLY, DOOR INSIDE | |
| 1 | XDOOO | 97403 | 13229E7488-3 | HANDLE ASSY, DOOR IN | 1 |
| 2 | XDOZZ | 97403 | 13229E7492 | SHAFT, DOOR HANDLE | 1 |
| 3 | XDOZZ | 80205 | NAS561SF-8-20 | PIN | 2 |
| 4 | XDOZZ | 05669 | 6L6-F | BEARING | 1 |
| 5 | XDOZZ | 97403 | 13229E7490 | PLATE, DOOR HANDLE | 1 |
| 6 | XDOZZ | 97403 | 13229E7495-2 | PIVOT ARM | 1 |
| 7 | XDOZZ | 97403 | 13229E7496-2 | HANDLE, INSIDE | 1 |
| 8 | XDOZZ | 05469 | BSF-2832-8 | BEARING | 2 |

END OF FIGURE



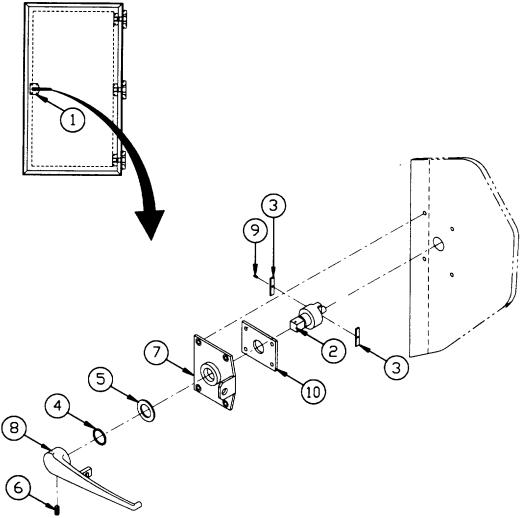


FIGURE 9. HANDLE ASSEMBLY, DOOR OUTSIDE

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|----------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 9 HANDLE ASSEMBLY, DOOR OUTSIDE | |
| 1 | XDOOO | 97403 | 13229E7488-2 | HANDLE ASSY, DOOR OU | 1 |
| 2 | XDOZZ | 97403 | 13229E7491 | SHAFT, DOOR HANDLE | 1 |
| 3 | XDOZZ | 97403 | 13229E7484-2 | SPACER, SHAFT DOOR | 2 |
| 4 | XDOZZ | 05669 | 600597-001 | GASKET | 1 |
| 5 | XDOZZ | 05699 | 600596-001 | WASHER | 1 |
| 6 | XDOZZ | 80205 | NAS561SF-8-20 | PIN | 2 |
| 7 | XDOZZ | 97403 | 13229E7493 | PLATE, DOOR HANDLE | 1 |
| 8 | XDOZZ | 97403 | 13229E7496-1 | HANDLE, OUTSIDE | 1 |
| 9 | XDOZZ | 96906 | MS20470-AC4-14 | RIVET | 1 |
| 10 | XDOZZ | 96906 | 13229E7494-1 | PLATE, LATCH ASSY | 2 |

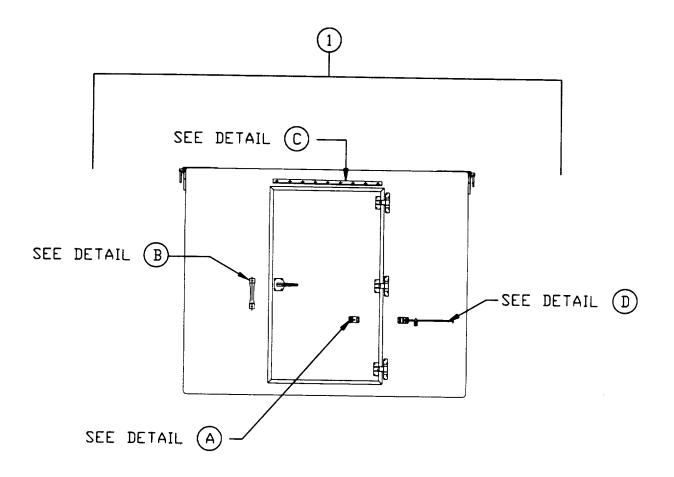
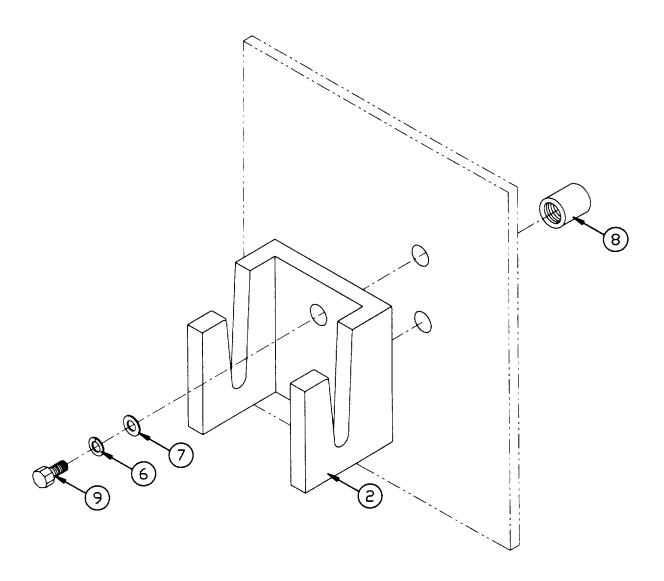
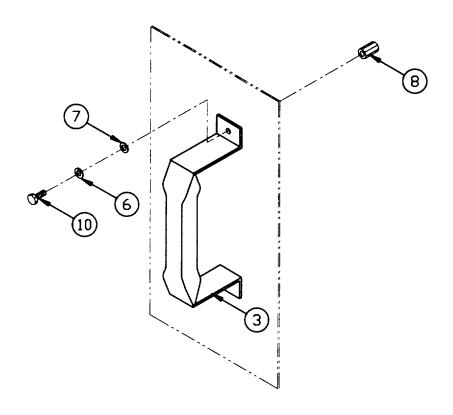


FIGURE 10. AFT END ASSEMBLY (SHEET 1 OF 5)



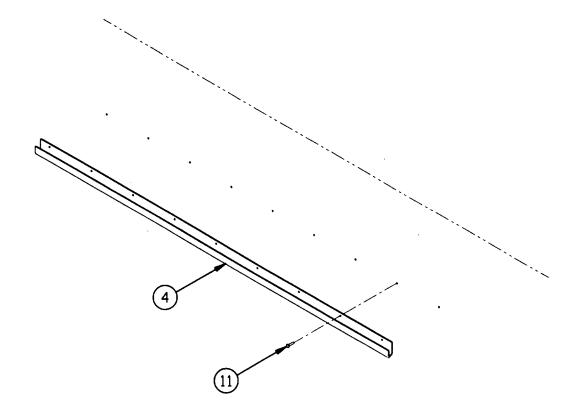
DETAIL (A)

FIGURE 10. AFT END ASSEMBLY (SHEET 2 OF 5)



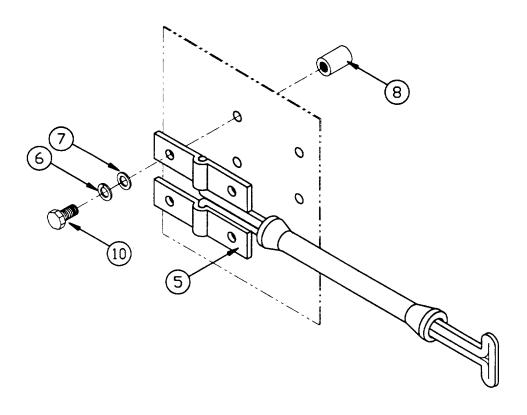
DETAIL B

FIGURE 10. AFT END ASSEMBLY (SHEET 3 OF 5)



DETAIL (C)

FIGURE 10. AFT END ASSEMBLY (SHEET 4 OF 5)

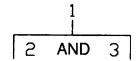


DETAIL D

FIGURE 10. AFT END ASSEMBLY (SHEET 5 OF 5)

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|-------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 10 AFT END ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7378 | AFT END ASSY | 1 |
| 2 | XDOZZ | 05699 | 5-4-4943 | HOOK, DOOR KEEPER SEE DETAIL A | 1 |
| 3 | XDOOO | 97403 | 13229E7497 | HANDLE, AFT END SEE DETAIL B | 1 |
| 4 | XDOZZ | 97403 | 13229E7500 | DRIP CAP SEE DETAIL C | 1 |
| 5 | XDOZZ | 97403 | 13229E7501 | KEEPER, DOOR SEE DETAIL D | 1 |
| 6 | XDOZZ | 96906 | MS35338-139 | WASHER, LOCK SEE DETAIL A, B, D | 12 |
| 7 | XDOZZ | 88044 | AN960C416L | WASHER, FLAT SEE DETAIL A, B D | 12 |
| 8 | XDOZZ | 84256 | AP515-428 | INSERT, 1/4 SEE DETAIL A, B D | 12 |
| 9 | XDOZZ | 96906 | MS35308-333 | BOLT, MACHINE SEE DETAIL A | 2 |
| 10 | XDOZZ | 88044 | AN4C6A | BOLT, MACHINE SEE DETAIL B, D | 6 |
| 11 | XDOZZ | 19738 | 4871-0508 | RIVET SEE DETAIL C | 9 |

END OF FIGURE



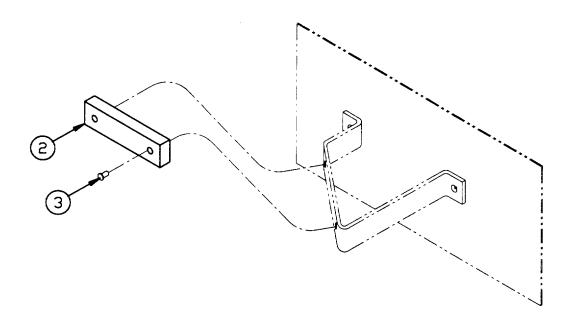


FIGURE 11. DOOR STOP

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|----------------|----------------|----------------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 11 DOOR STOP | |
| 1 | XDOOO XDOZZ | 97403 39428 | 13229E7502 | DOOR STOP | 1 |
| 3 | , _ | 39428 | 8635K567 9752A025 | RIVET | 2 |
| | | | | END OF FIGURE | |

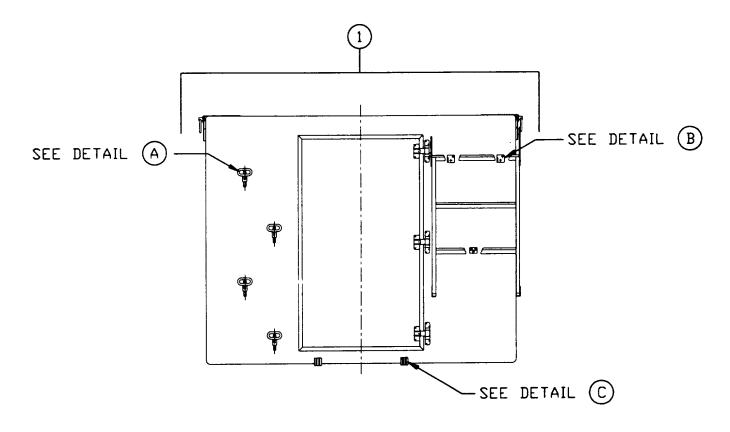


FIGURE 12. STEP AND LADDER ASSEMBLY (SHEET 1 OF 4)

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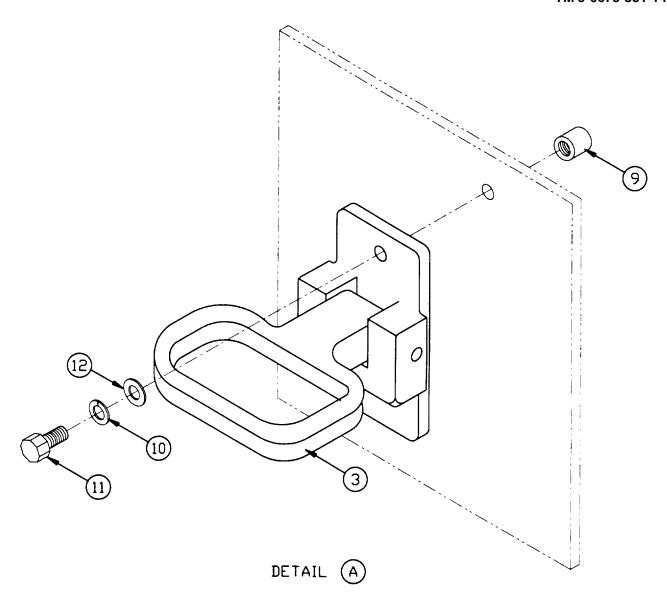


FIGURE 12. STEP AND LADDER ASSEMBLY (SHEET 2 OF 4)

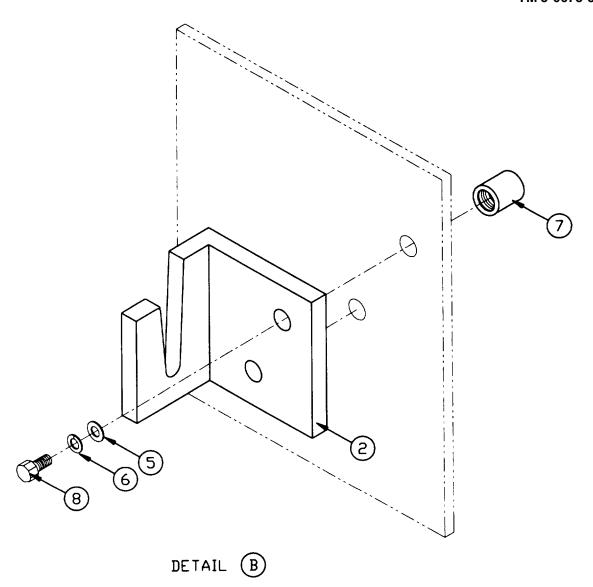
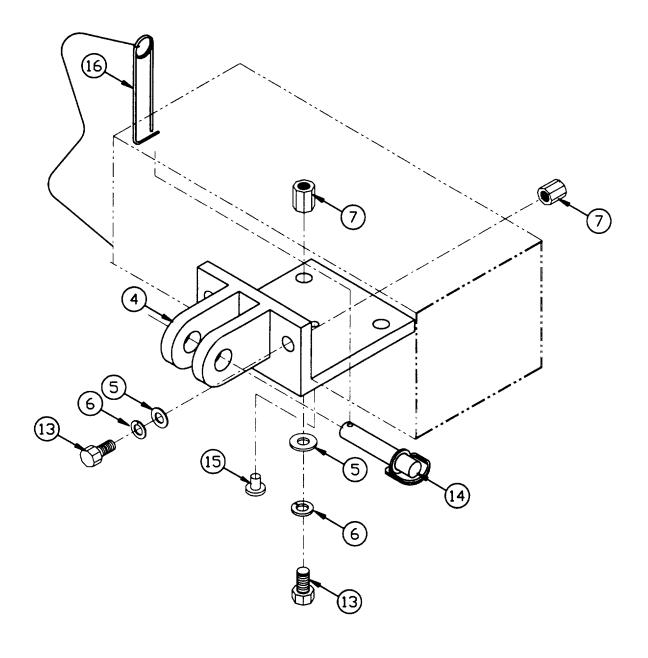


FIGURE 12. STEP AND LADDER ASSEMBLY (SHEET 3 OF 4)

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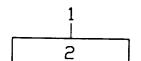


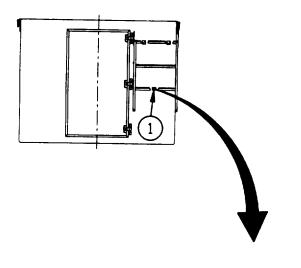
DETAIL (C)

FIGURE 12. STEP AND LADDER ASSEMBLY (SHEET 4 OF 4)

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|-------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 12 STEP AND LADDER ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7379 | STEPS & LADDER ASSY | 1 |
| 2 | XDOZZ | 97403 | 13229E7533 | BRACKET SEE DETAIL B | 2 |
| 3 | XDOZZ | 05699 | 5-4-4964 | STEPS SEE DETAIL A | 4 |
| 4 | XDOZZ | 97403 | 13229E7534 | BRACKET, LADDER SEE DETAIL C | 2 |
| 5 | XDOZZ | 88044 | AN960C416L | WASHER, FLAT SEE DETAIL B, C | 14 |
| 6 | XDOZZ | 96906 | MS35338-139 | WASHER, LOCK SEE DETAIL B, C | 14 |
| 7 | XDOZZ | 84256 | AP515-428 | INSERT, 1/4 SEE DETAIL B, C | 14 |
| 8 | XDOZZ | 88044 | AN4C7A | BOLT, MACHINE SEE DETAIL B | 10 |
| 9 | XDOZZ | 84256 | AP515-524 | INSERT, POTTED, 5/16 SEE DETAIL A | 8 |
| 10 | XDOZZ | 96906 | MS35338-140 | WASHER, LOCK SEE DETAIL A | 8 |
| 11 | XDOZZ | 96906 | MS35308-333 | BOLT, MACHINE SEE DETAIL A | 8 |
| 12 | XDOZZ | 88044 | AN960C10L | WASHER, FLAT SEE DETAIL A | 4 |
| 13 | XDOZZ | 88044 | AN4C5A | BOLT, MACHINE SEE DETAIL C | 8 |
| 14 | XDOZZ | 96652 | S1100-1 | HITCH PIN ASSY SEE DETAIL C | 2 |
| 15 | XDOZZ | 19738 | 1604-0514 | RIVET, BLIND SEE DETAIL C | 8 |
| 16 | XDOZZ | 96652 | S1600-1 | HAIR PIN ASSY SEE DETAIL C | 3 |

END OF FIGURE





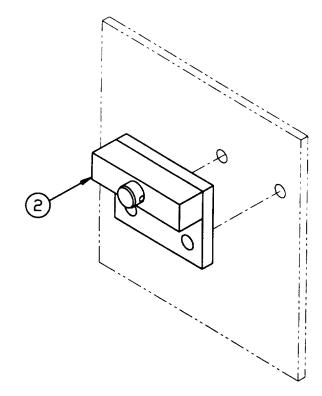


FIGURE 13. BRACKET, PIN

| SECTIO | II NC | | | TM 5-6675-331 | I-14&P |
|-------------|----------------|----------------|----------------------|--------------------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | | | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 13 BRACKET, PIN | |
| 1 2 | XDOZZ XDOZZ | 97403 05699 | 13229E7532 312100 | BRACKET, PINBUMPER | 1 |
| | | | | END OF FIGURE | |

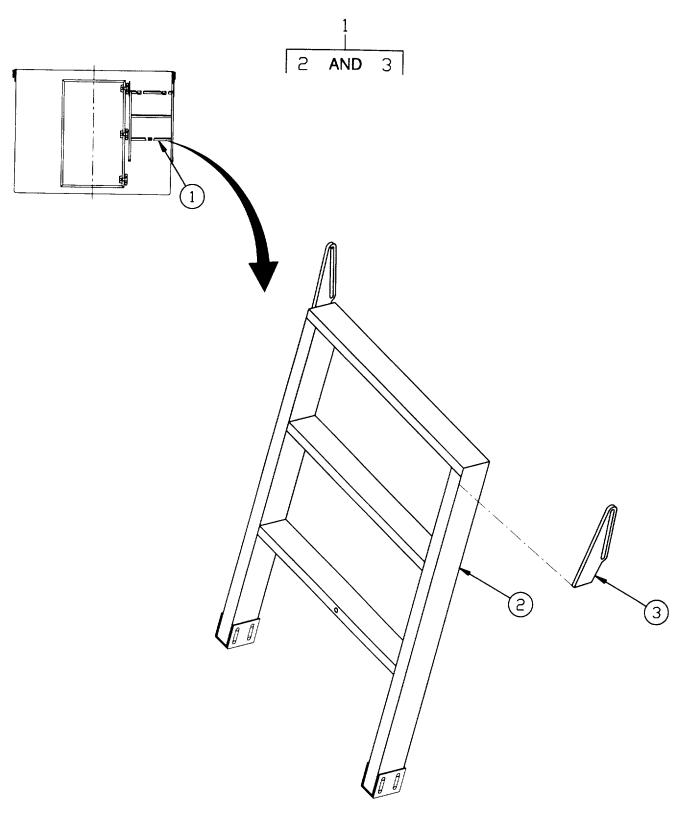


FIGURE 14. LADDER ASSEMBLY

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | DESCRIPTION AND U | (5) SABLE ON CODES(UOC) | (6) QTY |
|-------------------|-------------------------|-------------------------|--|-------------------|----------------------------|-------------|
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 14 | LADDER ASSEMBLY | |
| 1 2 3 | XDOOO XDOZZ XDOZZ | 97403 97403 97403 | 13229E7503 13229E7504 13229E7535 | LADDED | | 1 1 1 |

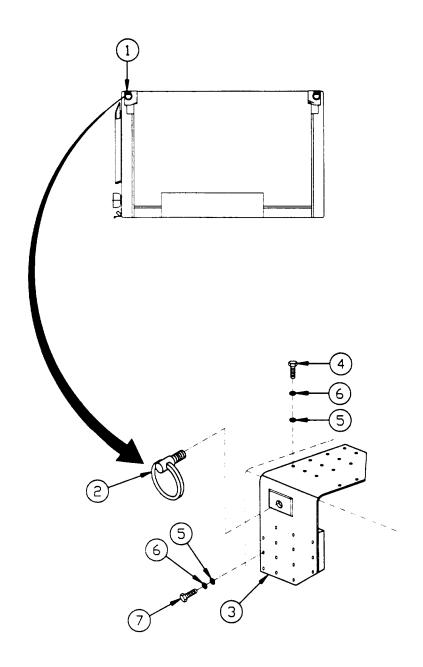


FIGURE 15. LIFT RING

| 5 XDOZZ 88044 AN960C416L WASHER, FLAT 5 | SECTI (1) ITEM NO | ON II (2) SMR CODE | 2) (3) //R | (4) PART NUMBER | DESCRIPTION AND US | TM 5-6675-33 (5) SABLE ON CODES(UOC) | 1-14&P (6) QTY |
|---|----------------------------|--|---|--|---|---|---|
| 1 XDOOO 97403 13229E7380 LIFT RING | | | | | GROUP 02 | SHELTER ASSEMBLY | |
| 2 XDOZZ 97403 13229E7505-1 LIFT RING, LEFT HAND SHOWN 2 XDOZZ 97403 13229E7505-2 LIFT RING, RIGHT HAND OPPOSITE SIDE 3 XDOZZ 97403 13229E7506-1 DOUBLER, LIFT RING R OPPOSITE SIDE 4 XDOZZ 88044 AN4C7A BOLT, MACHINE 2 5 XDOZZ 88044 AN960C416L WASHER, FLAT 5 | | | | | FIG. 15 | LIFT RING | |
| 7 XDOZZ 88044 AN4C12A BOLT, MACHINE 3 END OF FIGURE | 2 3 3 4 5 6 | XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ | 0ZZ 97403 0ZZ 97403 0ZZ 97403 0ZZ 97403 0ZZ 88044 0ZZ 88044 0ZZ 88044 | 13229E7505-1 13229E7505-2 13229E7506-1 13229E7506-2 AN4C7A AN960C416L MS35337-82 | LIFT RING, LEFT HAN LIFT RING, RIGHT HAI DOUBLER, LIFT RING DOUBLER, LIFT RING BOLT, MACHINE WASHER, FLAT WASHER BOLT, MACHINE | D SHOWN ND OPPOSITE SIDE L SHOWN R OPPOSITE SIDE | 4 2 2 2 2 26 56 56 30 |

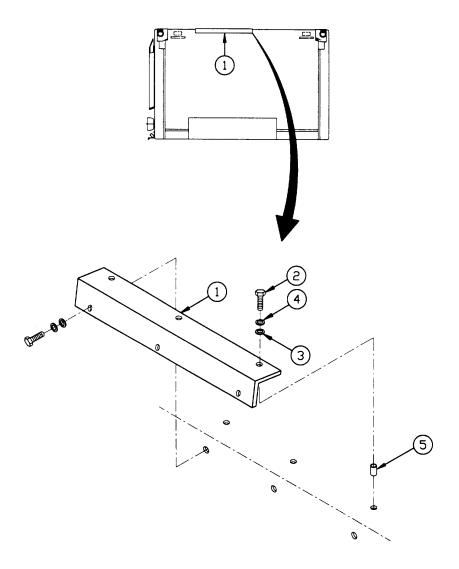
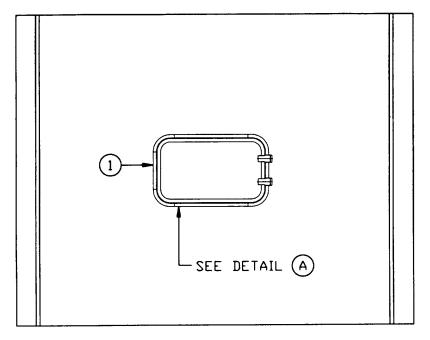


FIGURE 16. SLING ANGLE

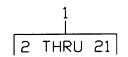
| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | DESCRIPTION AND U | (5) SABLE ON CODES(UOC) | (6) QTY |
|-----------------------|---|---|--|---|---|---------------------------|
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 16 | SLING ANGLE | |
| 1 2 3 4 5 | XDOOO XDOZZ XDOZZ XDOZZ XDOZZ | 97403 88044 88044 96906 84256 | 13229E7381 AN4C6A AN960C416L MS35338-139 AP515-428 | BOLT, MACHINE CUR WASHER, FLAT CUR WASHER, LOCK CUR | SIDE OF SHELTER RBSIDE OF SHELTER BSIDE OF SHELTER RBSIDE OF SHELTER | 2 12 12 12 12 |

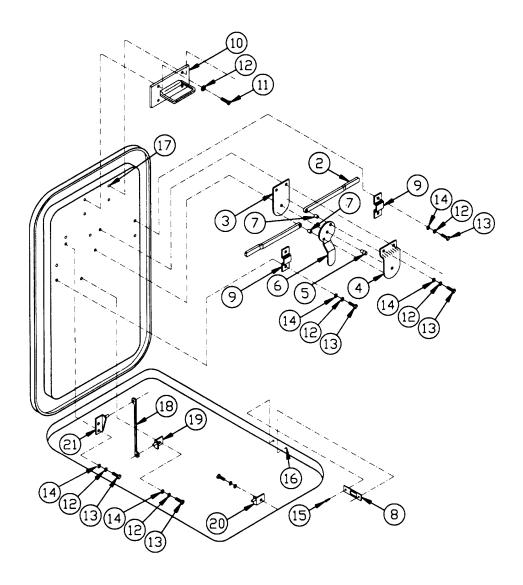
ROADSIDE OF SHELTER



CURBSIDE OF SHELTER

FIGURE 17. ESCAPE HATCH ASSEMBLY (SHEET 1 OF 2)





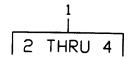
DETAIL (A)

FIGURE 17. ESCAPE HATCH ASSEMBLY (SHEET 2 OF 2)

| SECTION | ON II | | | IM 5-6675-33 | 31-14&P |
|-------------|------------|-------|--------------|---|---------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 17 ESCAPE HATCH ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7382 | ESCAPE HATCH ASSY TOP VIEW OFSHELTER, DETAIL A | |
| 2 | XDOZZ | 97403 | 13229E7507-8 | ARM, ESCAPE HATCH TOP VIEW OFSHELTER, DETAIL A | 2 |
| 3 | XDOZZ | 97403 | 13229E7507-3 | RETAINER, UPPER TOP VIEW OFSHELTER, DETAIL A | 1 |
| 4 | XDOZZ | 97403 | 13229E7507-2 | RETAINER, LOWER TOP VIEW OFSHELTER, DETAIL A | 1 |
| 5 | XDOZZ | 97403 | 13229E7507-4 | PIVOT TOP VIEW OF SHELTER,DETAIL A | 1 |
| 6 | XDOZZ | 97403 | 13229E7507-1 | HANDLE, CLOSURE ASSY TOP VIEW OF SHELTER, DETAIL A | 1 |
| 7 | XDOZZ | 97403 | 13229E7507-7 | PIN TOP VIEW OF SHELTER, DETAIL A | |
| 8 | XDOZZ | 97403 | 13229E7507-5 | KEEPER, ARM TOP VIEW OF SHELTER, | |
| | | | | DETAIL A | |
| 9 | XDOZZ | 97403 | 13229E7507-6 | SIDE BRACKET, ARM TOP VIEW OFSHELTER, DETAIL A | 2 |
| 10 | XDOZZ | 84256 | 5-4-4966 | HANDLE, BAIL TOP VIEW OF SHELTER, DETAIL A | 1 |
| 11 | XDOZZ | 96906 | MS35207-280 | SCREW, MACHINE TOP VIEW OFSHELTER, DETAIL A | 4 |
| 12 | XDOZZ | 96906 | MS35338-139 | WASHER, LOCK TOP VIEW OF SHELTER, DETAIL A | 18 |
| 13 | XDOZZ | 88044 | AN4C5A | BOLT, MACHINE TOP VIEW OF SHELTER, DETAIL A | 18 |
| 14 | XDOZZ | 88044 | AN960C416L | WASHER, FLAT TOP VIEW OF SHELTER, DETAIL A | 18 |
| 15 | XDOZZ | 96906 | MS51960-65 | SCREW, MACHINE TOP VIEW OF | 4 |
| 16 | XDOZZ | 84256 | APS-1032-130 | INSERT TOP VIEW OF SHELTER,DETAIL A | 4 |
| 17 | XDOZZ | 84256 | APS-515-428 | INSERT TOP VIEW OF SHELTER, | 18 |
| 18 | XDOZZ | 97403 | 13229E7540-1 | PROP ROD TOP VIEW OF SHELTER, DETAIL A | 1 |
| 19 | XDOZZ | 97403 | 13229E7540-2 | RETAINER, LOWER TOP VIEW OF | 1 |
| 20 | XDOZZ | 97403 | 13229E7540-3 | SHELTER, DETAIL A RETAINER, UPPER TOP VIEW OF | 1 |
| 21 | XDOZZ | 97403 | 13229E7540-4 | SHELTER, DETAIL ARETAINER, PROP ROD TOP VIEW OF | |

END OF FIGURE

SHELTER, DETAIL A



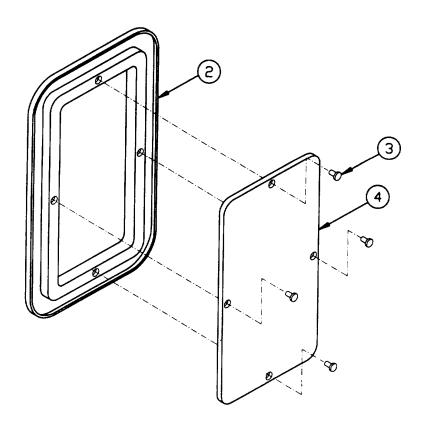


FIGURE 18. PANEL ASSEMBLY, ESCAPE HATCH

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | DESCRIPTION AND U | (5) SABLE ON CODES(UOC) | (6) QTY |
|-------------------|----------------------------------|----------------------------------|---|----------------------------|---------------------------------|-------------------|
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG.18 | PANEL ASSEMBLY, ESCAPE HATCH | |
| 1 2 3 4 | XDOOO XDOZZ XDOZZ XDOZZ | 97403 05699 19738 07542 | 13229E7509 708115-1 1604-0615 FM41 | FRAME ASSY RIVET, BLIND | E H | 1 1 26 1 |
| | | | | END OF FIGURE | | |

CURBSIDE OF SHELTER

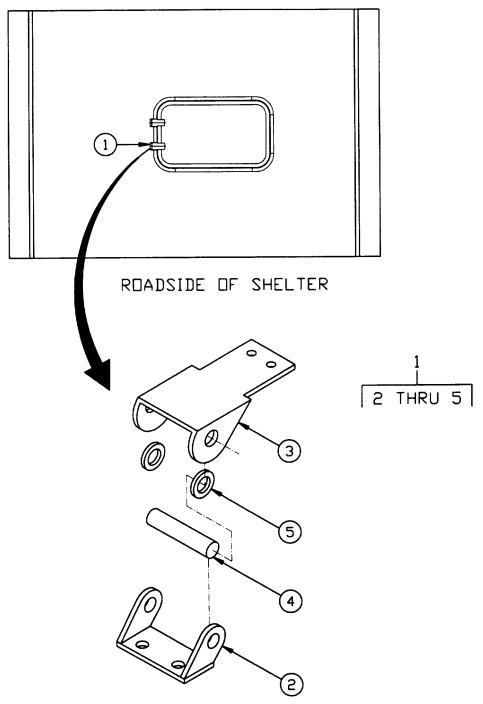


FIGURE 19. HINGE ASSEMBLY, HATCH

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | | (6) QTY |
|-----------------------|---|---|--|--|-----------------------|-----------------------|
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 19 | HINGE ASSEMBLY, HATCH | |
| 1 2 3 4 5 | XDOOO XDOZZ XDOZZ XDOZZ XDOZZ | 97403 97403 97403 05699 88044 | 13229E7508 13229E7538-1 13229E7538-2 CRS4130 AN960C1OL | PLATE PLATE PIN | 1 | 2 2 2 2 4 |
| | | | | END OF FIGURE | | |



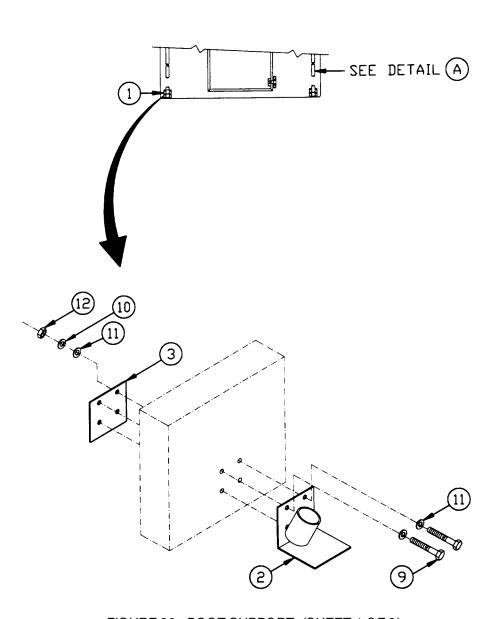


FIGURE 20. BOOT SUPPORT (SHEET 1 OF 2)

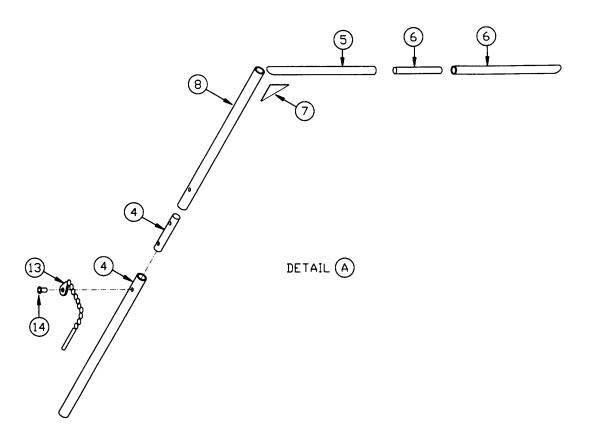
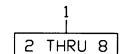


FIGURE 20. BOOT SUPPORT (SHEET 2 OF 2)

| (1) ITEM | (2) SMR | (3) | (4) PART | | (5) | (6) |
|---|--|---|---|--|----------------------------|--|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND U | SABLE ON CODES(UOC) | QTY |
| | | | | | | |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 20 | BOOT SUPPORT | |
| 1 2 3 4 5 6 7 8 9 10 11 | XDOOO XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ XDOZZ | 97403 97403 97403 97403 97403 97403 97403 96906 96906 96906 39428 | 13229E7385 13229E7385-1 13229E7385-2 13229E7385-4 13229E7385-5 13229E7385-6 13229E7385-7 13229E7385-8 MS90726-40 MS35338-45 MS27183-12 96480A030 | BRACKET, BOOT SPE BACKING PLATE, BOO FRAME, UPRIGHTS & HEADER, TOP LEFT HEADER, TOP RIGHT GUSSET, TOP HEADE HEADER, SIDE SEE I BOLT, MACHINE WASHER, LOCK WASHER, FLAT | PRT | 1 2 2 2 1 1 2 2 8 8 8 8 |
| 13 14 | XDOZZ XDOZZ | 39428 96906 | 98306A173 MS20613-6C24 | The state of the s | AB SEE DETAIL A ETAIL A | 2 3 |



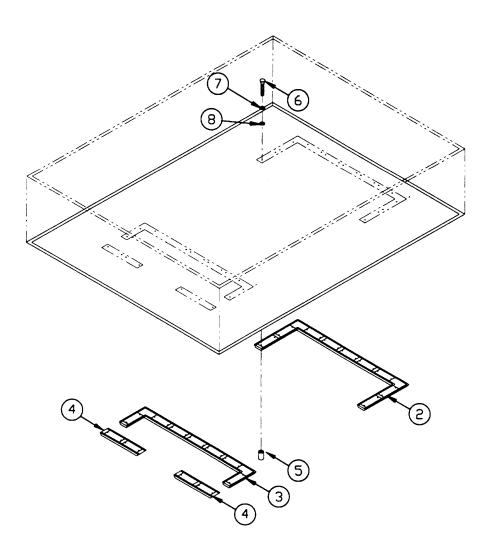


FIGURE 21. SKIDS, HMMWV

SECTION II TM 5-6675-331-14&P (3) (1) (2) (4) (5) (6) **PART** ITEM **SMR NUMBER** NO CODE CAGEC **DESCRIPTION AND USABLE ON CODES(UOC) QTY GROUP 02** SHELTER ASSEMBLY FIG. 21 SKIDS, HMMWV SKIDS, HMMWV 1 XDOOO 97403 13229E7386 1 2 XDOZZ 97403 13229E7514-1 SKID ASSEMBLY..... 1 3 XDOZZ 97403 13229E7514-2 SKID ASSEMBLY..... 1 4 XDOZZ 97403 13229E7514-3 SKID ASSEMBLY..... 2 5 XDOZZ 84256 AP515-524 INSERT..... 36 6 **XDOZZ** 88044 BOLT, MACHINE..... 36 ANSC6A 7 XDOZZ AN960C-5164 WASHER, FLAT..... 88044 36 WASHER, FLAT..... XDOZZ 88044 AN935-5166 36

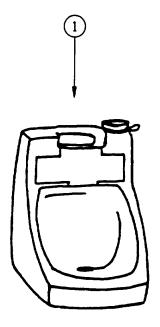


FIGURE 22. EYEWASH, PORTABLE

| SECTIO | II NC | | | TM 5-6675-331-14& | | |
|-------------|------------|-------|-------------|-------------------|----------------------|-----|
| (1) ITEM | (2) SMR | (3) | (4) PART | | (5) | (6) |
| NO | CODE | CAGEC | AGEC NUMBER | DESCRIPTION AND U | ISABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 22 | EYEWASH, PORTABLE | |
| 1 | PAOZZ | 05178 | C1219 | EYEWASH, PORTABLE | | 1 |
| | | | | END OF FIGURE | | |

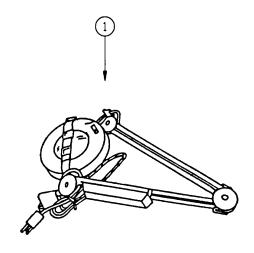
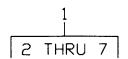


FIGURE 23. MAGNIFIER LAMP

| SECTIO | II NC | | | | TM 5-6675-33 | 1-14&P |
|-------------|------------|-------|-------------|-----------------|----------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) PART | | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND | USABLE ON CODES(UOC) | QTY |
| | | | | | | |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 23 | MAGNIFIER LAMP | |
| | | | | | | |
| 1 | PBOOZ | 63547 | 175/150/140 | MAGNIFIER LAMP | | 1 |
| | | | | END OF FIGURE | | |



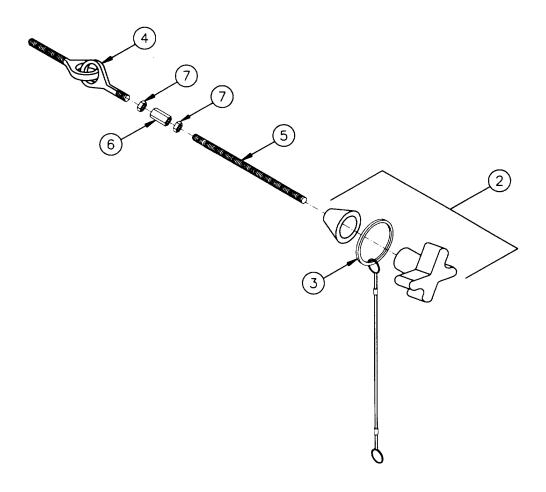


FIGURE 24. KNOB ASSEMBLY, CABLE REEL

SECTION II TM 5-6675-331-14&P (3) (4) (1) (2) (5) (6) PART ITEM **SMR** NO CODE CAGEC **NUMBER DESCRIPTION AND USABLE ON CODES(UOC) QTY GROUP 02** SHELTER ASSEMBLY FIG. 24 KNOB ASSEMBLY, CABLE REEL XDOOO 97403 13229E7398 KNOB ASSY, CABLE REE..... 1 1 XDOZZ 97403 2 KNOB ASSY..... 13229E7399 1 CABLE ASSY..... 3 XDOZZ 99862 CL-21-KA-20.0 4 XAOZZ 39428 9489T19 BOLT, EYE 1/4-20 UNC 2 5 XAOZZ ROD, TH READ ED, 250-2..... 39428 98804A029 1 XAOZZ 39428 90268A029 NUT, COUPLING 1/4-20 1 XAOZZ 96906 MS35469-2254 NUT, PLAIN, WING..... 2

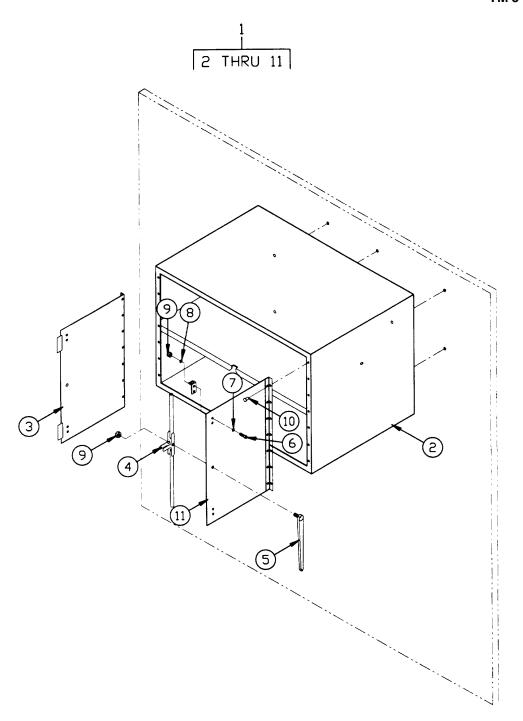
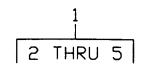


FIGURE 25. CABINET, WALL

| SECTION II | | | | | TM 5-6675-33 | 1-14&P |
|-------------|------------|-------|--------------|---------------|----------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) PART | | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION | N AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 25 | CABINET, WALL | |
| 1 | XDOOO | 97403 | 13229E7410 | CABINET WALL | L | 1 |
| 2 | XDOZZ | 97403 | 13229E7411 | | | 1 |
| 3 | XDOZZ | 97403 | 13229E7412-1 | | T (LEFT) | 1 |
| 4 | XDOZZ | 94222 | A5-21-120-10 | ROD ASSY | | 2 |
| 5 | XDOZZ | 94222 | 92-20-305-72 | HANDLE, DOOR | | 1 |
| 6 | XDOZZ | 96906 | MS51958-63 | SCREW,MACHI | NE | 4 |
| 7 | XDOZZ | 96906 | MS27183-42 | | | 4 |
| 8 | XDOZZ | 96906 | MS35338-43 | WASHER,LOCK | (| 4 |
| 9 | XDOZZ | 96906 | MS35650-302 | NUT,PLAIN,HE | KAGON | 4 |
| 10 | XDOZZ | 19738 | 1601-0613 | | | 14 |
| 11 | XDOZZ | 97403 | 13229E7412-2 | DOOR, CABINET | T(RIGHT) | 1 |



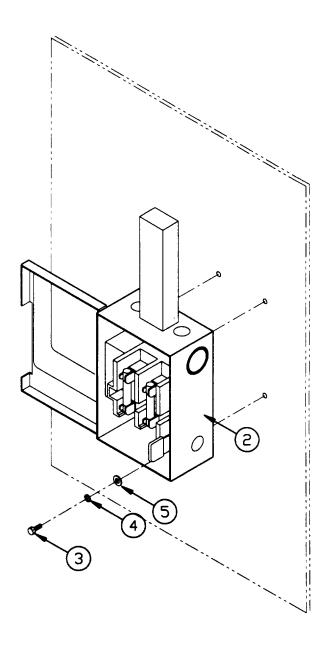
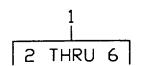


FIGURE 26. RACEWAY ASSEMBLY
F-78

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|-------|-------------|--------------------------------------|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 26 RACEWAY ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7392 | RACEWAY ASSY | 1 |
| 2 | XDOZZ | 1L333 | D322N | SWITCH,MAIN | 1 |
| 3 | XDOZZ | 96906 | MS90726-30 | SCREW,HEX HD.,5/16 | 4 |
| 4 | XDOZZ | 96906 | MS35338-45 | WASHER,LOCK | 4 |
| 5 | XDOZZ | 96906 | MS27183-12 | WASHER,FLAT | 4 |



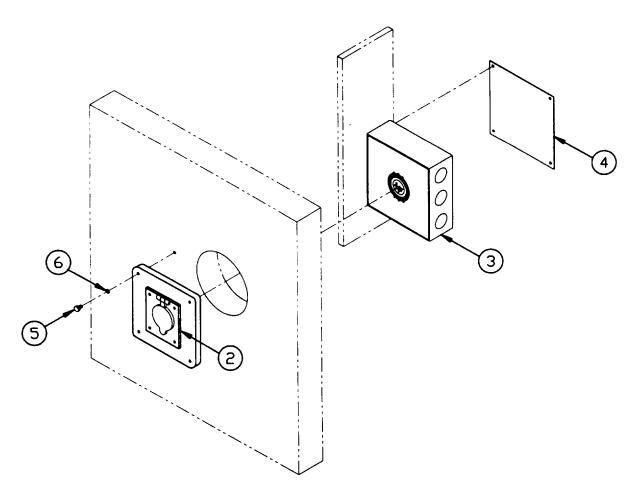


FIGURE 27. POWER FEED ASSEMBLY

| (1) ITEM | (2) | (3) | (4) PART | | (5) | (6) |
|-------------|-------------|-------|-----------------|---------------|----------------------------|-----|
| NO | SMR CODE | CAGEC | NUMBER | DESCRIPTION | N AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 27 | POWER FEED ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7396 | PWR FEED AS | SY | 1 |
| 2 | PAOZZ | 30003 | 470AS-C0117-001 | OUTLET,20A 12 | 25V | 1 |
| 3 | XDOZZ | 28488 | 190 | BOX,OUTLET 4 | SQ | 1 |
| 4 | XDOZZ | 28488 | 752 | COVER,4 SQ B | OX | 1 |
| 5 | XDOZZ | 39428 | 92196A148 | | EX SOCKE | 4 |
| 6 | XDOZZ | 96906 | MS15795-806 | WASHER, FLAT | | 4 |

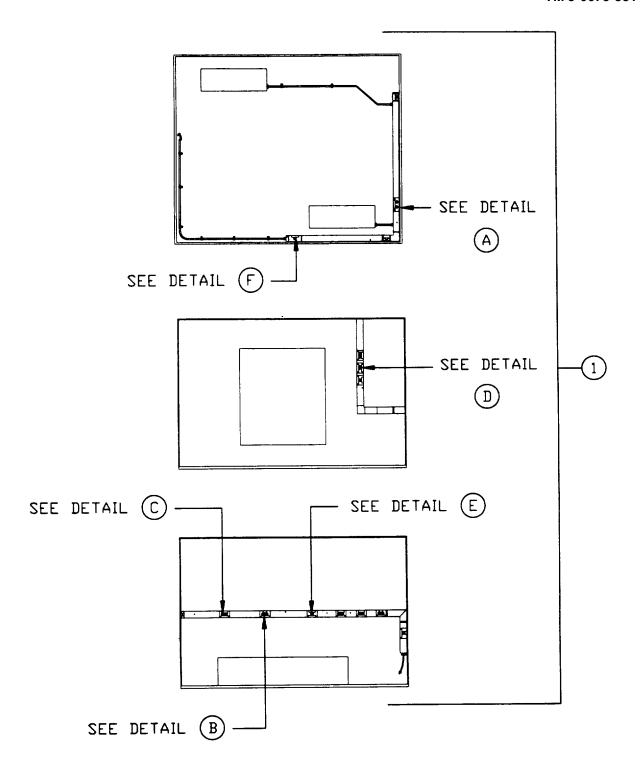


FIGURE 28. ELECTRICAL ASSEMBLY (SHEET 1 OF 7)

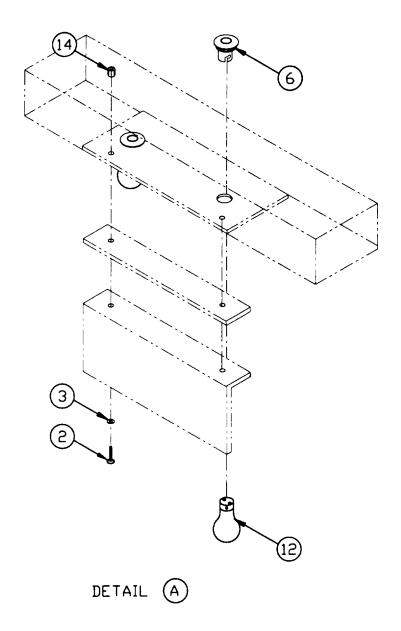


FIGURE 28. ELECTIRCAL ASSEMBLY (SHEET 2 OF 7)
F-83

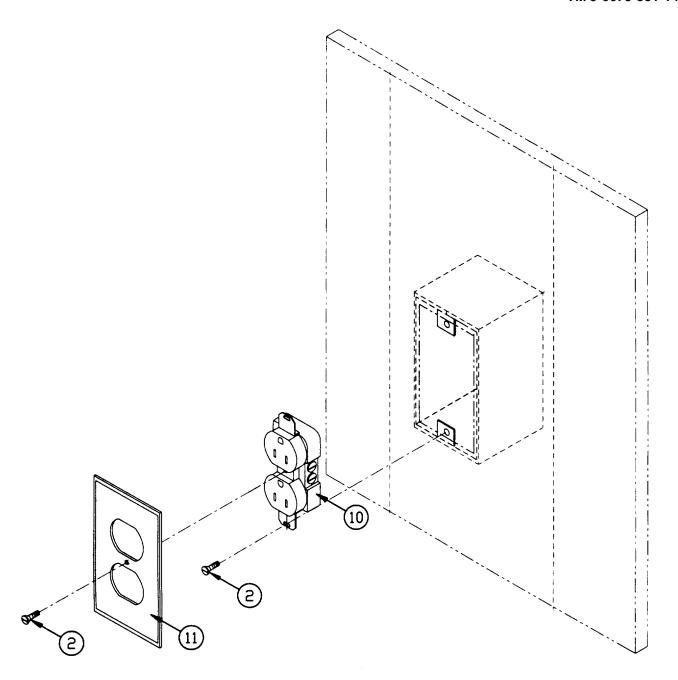


FIGURE 28. ELECTIRCAL ASSEMBLY (SHEET 3 OF 7)

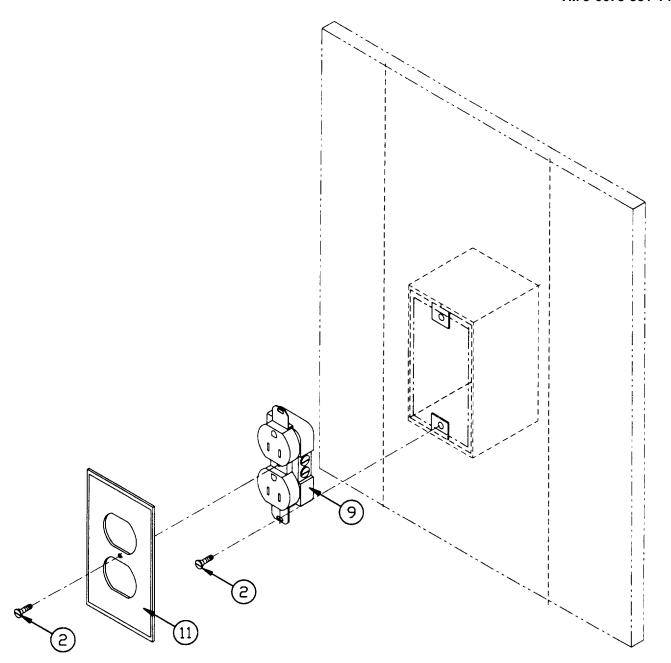
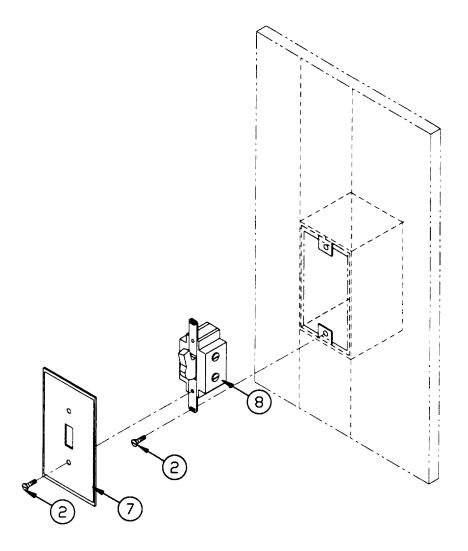
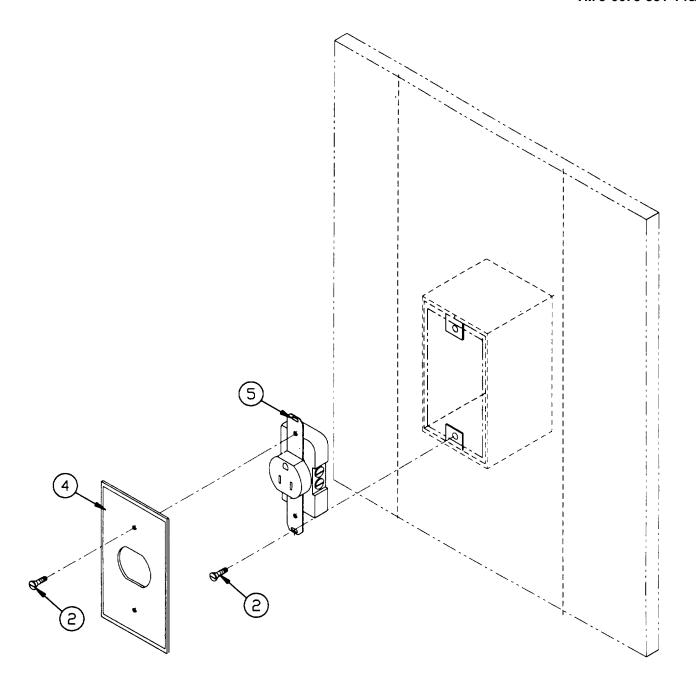


FIGURE 28. ELECTRICAL ASSEMBLY (SHEET 4 OF 7)



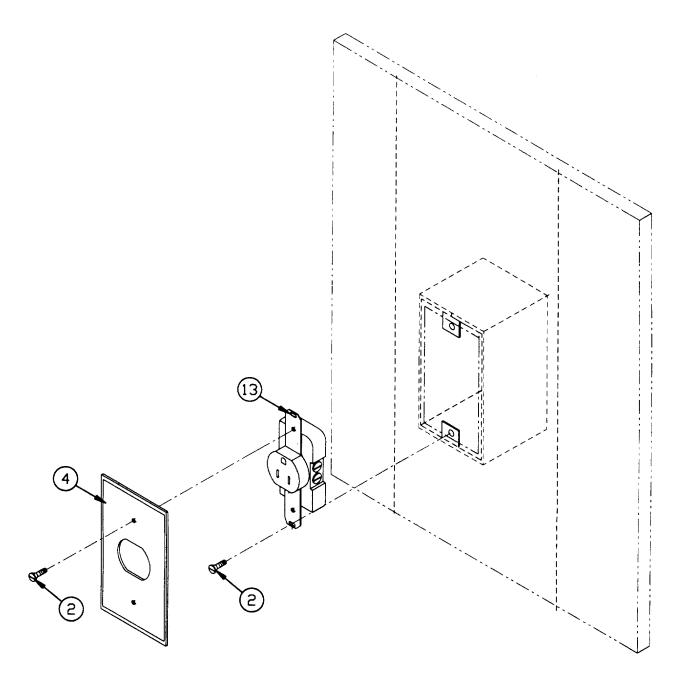
DETAIL D

FIGURE 28. ELECTRICAL ASSEMBLY (SHEET 5 OF 7)



 $\label{eq:detaile} \mbox{DETAIL E}$ FIGURE 28. ELECTRICAL ASSEMBLY (SHEET 6 OF 7)

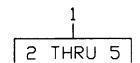
F-87



DETAIL (F)

FIGURE 28. ELECTRICAL ASSEMBLY (SHEET 7 OF 7)

| (1) ITEM | (2) SMR | (3) | (4) PART | | (5) | (6) |
|-------------|------------|-------|-------------|------------------|--------------------------|--------|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION | AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 28 | ELECTRICAL ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7391 | ELECTRICAL A | SSY | 1 |
| 2 | XDOZZ | 96906 | MS51958-65 | SCREW, MACHI | NE SEE DETAIL A, B, C, | 12 |
| 3 | XDOZZ | 96906 | MS27183-42 | WASHER,FLAT | SEE DETAIL A | 12 |
| 4 | XDOZZ | 79725 | G-3046AE | | LECTRIC SEE DETAIL E, | 4 |
| 5 | PAOZZ | 80704 | IF-5361 | RECEPTACLE, | SINGLE,1 SEE DETAIL E | 1 |
| 6 | XDOZZ | OAAR4 | 81N2583 | RECEPTACLE, I | AMP SEE DETAIL A | 2 |
| 7 | XDOZZ | 79725 | G-3046CE | COVER,SWITC | H SEE DETAIL D | 1 |
| 8 | PAOZZ | 74545 | 1201 | SWITCH,TOGG | LE,SINGL SEE DETAIL D | 2 |
| 9 | PAOZZ | OAAR4 | IF-5262 | RECEPTACLE, | DUPLEX SEE DETAIL C | 3 3 |
| 10 | PAOZZ | 80704 | IG-5262 | , | DUPLEX SEE DETAIL B | |
| 11 | XDOZZ | 79725 | G-30468E | COVER,RECEP C | TACLE DU SEE DETAIL B, | 6 |
| 12 | PAOZZ | 06001 | 21CP | BULB,24 V DC | SEE DETAIL A | 2 |
| 13 | PAOZZ | OAAR4 | IG-5261 | RECEPTACLE, | SINGLE,1 SEE DETAIL F | 1 |
| 14 | XDOZZ | 96906 | MS21044-C3 | NUT, SELF-LOC | KING,HE SEE DETAIL A | 2 |



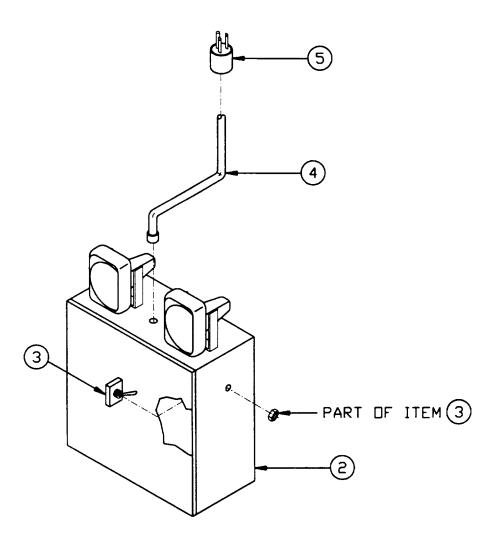
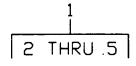


FIGURE 29. LIGHTING, EMERGENCY F-90

| (1) ITEM | (2) | (3) | (4) PART | (5) | (6) |
|-------------|-------------|-------|----------------|--------------------------------------|-----|
| NO | SMR CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | YT |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 29 LIGHTING, EMERGENCY | |
| 1 | PB000 | 97403 | 13229E7395 | LIGHTING,EMERGENCY | 1 |
| 2 | XDOZZ | 12020 | 610850L-0-0-02 | EMERGENCY LIGHT,CL | 1 |
| 3 | PAOZZ | 96906 | MS35058-22 | SWITCH,TOGGLE | 1 |
| 4 | XDOZZ | 39428 | 7080K43 | CORD, PORTABLE | 1 |
| 5 | XDOZZ | 74545 | 5266-C | PLUG,3 WIRE 15A | 1 |



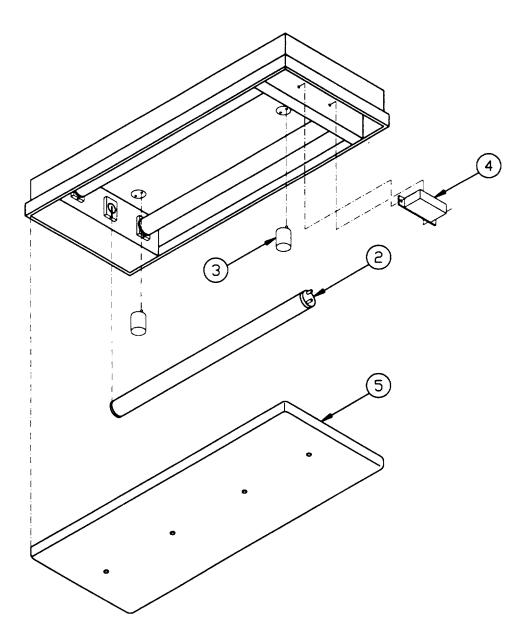


FIGURE 30. FLOURESCENT LIGHTING FIXTURE

| SECTION II | | | | | TM 5-6675-33 | 1-14&P |
|-------------|----------------|----------------|------------------|---------------|---------------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) BART | | (5) | (6) |
| NO | CODE | CAGEC | PART NUMBER | DESCRIPTION | N AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 30 | FLUORESCENT LIGHTING FIXTURE | |
| 1 | PA000 | 81349 | M16377/12-333.1 | | TING | 2 |
| 2 3 | PAOZZ PAOZZ | 08805 81770 | F20T12/CW 115 | | SCENT DRESCENT | 6 6 |
| 4 | PAOZZ | 81349 | M16377/44-001 | BALLAST, LAMF |) | 6 |
| 5 | PAOZZ | 81349 | M16377/12-001 | WINDOW,LIGH | TING FIX | 2 |

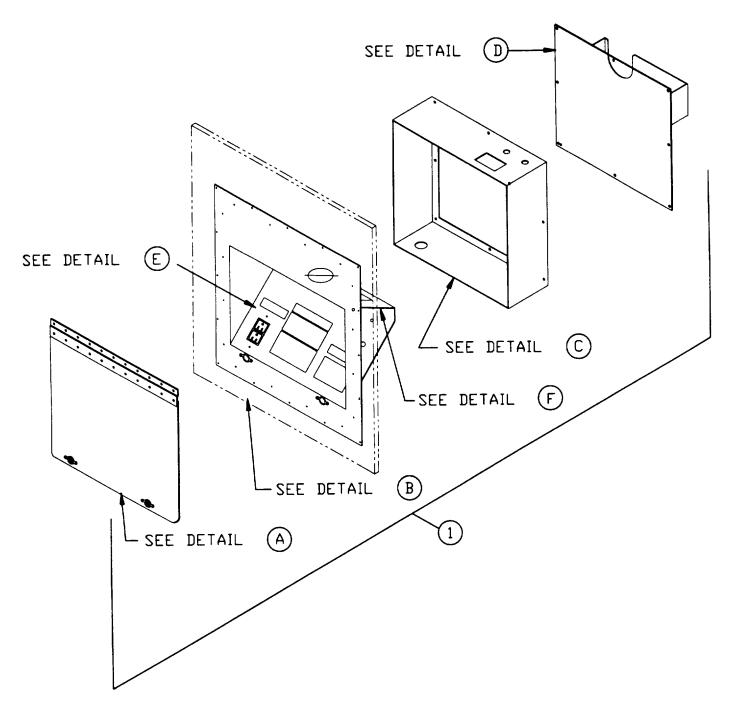
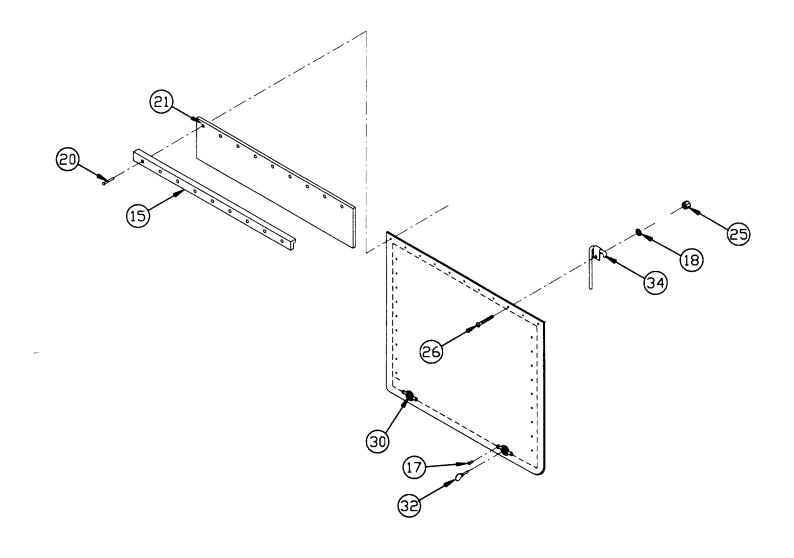
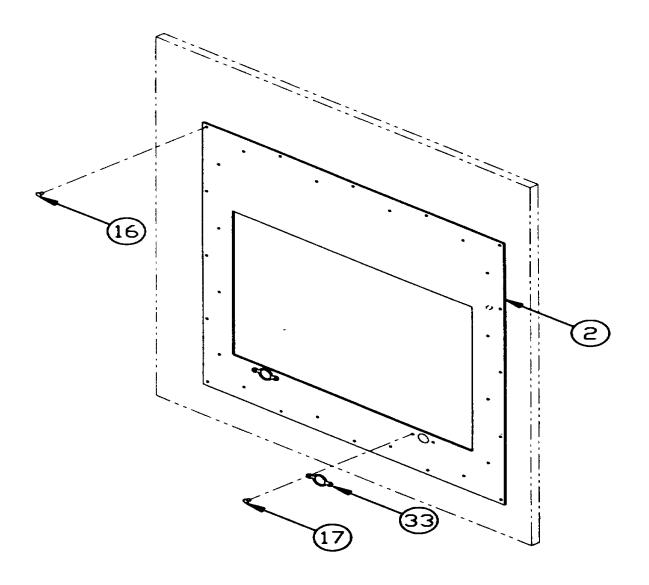


FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 1 OF 7)
F-94



DETAIL A

FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 2 OF 7) $\mathbf{F-95}$



DETAIL B

FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 3 OF 7) $\mathbf{F-96}$

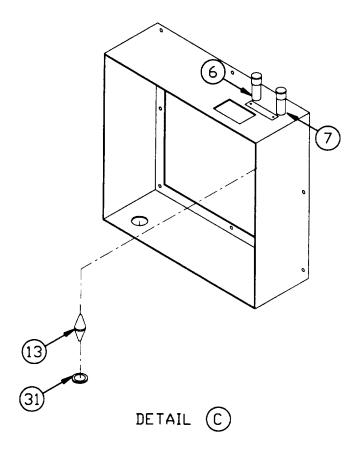
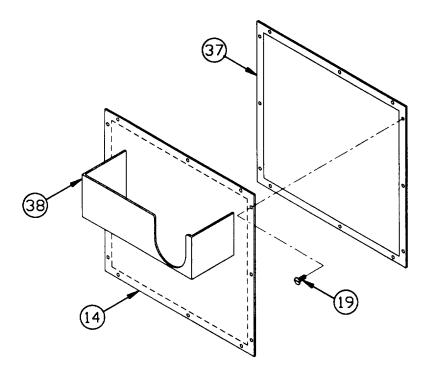


FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 4 OF 7) $\mathbf{F-97}$



DETAIL D

FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 5 OF 7) $\mathbf{F-98}$

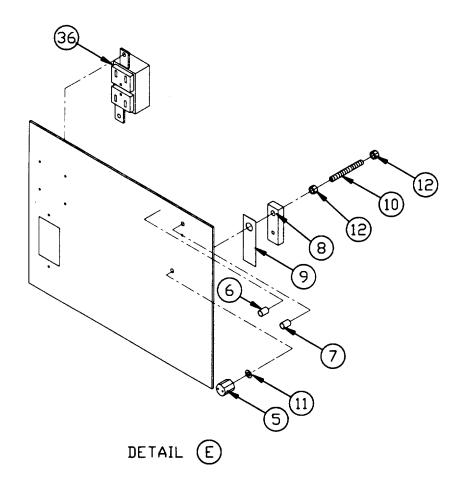


FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 6 OF 7) $\mathbf{F-99}$

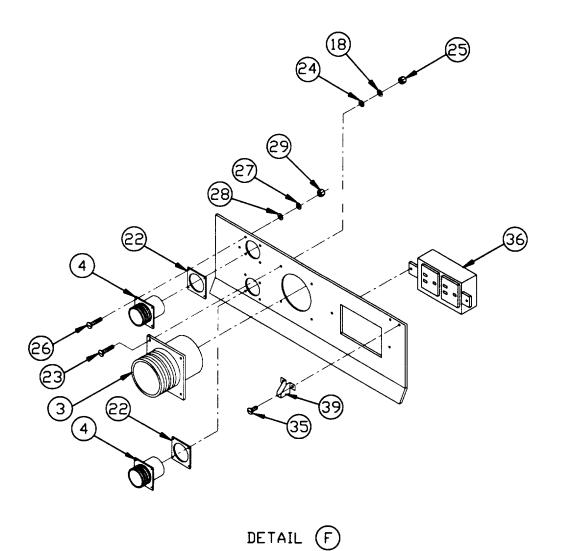


FIGURE 31. POWER ENTRANCE ASSEMBLY (SHEET 7 OF 7)
F-100

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | DESCRIPTION | (5) I AND USABLE ON CODES(UOC) | (6) QTY |
|----------------------|--------------------|----------------|---------------------------|---------------|---|------------|
| 110 | OODL | OAGEO | HOMBER | DEGOKII TION | TAND COADLE ON CODEC(CCC) | Q I I |
| | | | | GROUP 02 | SHELTER ASSEMBLY | |
| | | | | FIG. 31 | POWER ENTRANCE ASSEMBLY | |
| 1 | XD000 9 | 97403 | 13229E7393 | | NCE ASSY | 1 |
| 2 | XDOZZ | 97403 | 13229E7435 | | NCE BOX SEE DETAIL B | 1 |
| 3 | XDOZZ | 96906 | MS90558C32413P | | ECEPTACL SEE DETAIL F | 1 |
| 4 | XDOZZ | 96906 | MS3402D16-10S | | ECEPTACL SEE DETAIL F | 2 |
| 5 | XDOZZ | 5R061 | KC-1 | | ROUNDING SEE DETAIL E | 1 |
| 6 | PAOZZ | 81349 | PB08NA01 | | ELECTR SEE DETAIL C, | 2 |
| | | | | | | |
| 7 | PAOZZ | 81349 | PB08NA02 | | ELECTR SEE DETAIL C, | 2 |
| 0 | XDOZZ | 07400 | 1222057400.4 | | OLINDING OFF DETAIL F | 4 |
| 8 9 | XDOZZ | 97403 | 13229E7406-1 | | OUNDING SEE DETAIL E | 1 1 |
| 9 10 | XDOZZ | 97403 39428 | 13229E7406-2 98813A029 | | OUNDING SEE DETAIL E | 1 |
| 11 | XDOZZ | 39428 | 90061A017 | | D,.250-2 SEE DETAIL EILDER,INS SEE DETAIL E | 1 |
| 12 | XDOZZ | 96906 | MS25082-84 | | TRICAL SEE DETAIL E | 4 |
| 13 | XDOZZ | 78553 | P116-447-5-24A | | E DETAIL C | 2 |
| 14 | XDOZZ | 97403 | 13229E7439 | | POWER SEE DETAIL D | 1 |
| 15 | XDOZZ | 39428 | 1104A26 | | ER,PLAI SEE DETAIL A | 1 |
| 16 | XDOZZ | 19738 | 4871-0409 | | NIV HD SEE DETAIL B | 32 |
| 17 | XDOZZ | 19738 | 4871-0411 | | NIV HD SEE DETAIL A, | 15 |
| ., | NDOZZ | 13730 | 407 1 04 1 1 | | WY TID OLL BETTHETH, | 10 |
| 18 | XDOZZ | 39428 | 92146A011 | | HELICAL SEE DETAIL A, | 17 |
| | | | | F | | |
| 19 | XDOZZ | 39428 | 91772A242 | SCREW, MACHII | NE PAN SEE DETAIL D | 12 |
| 20 | XDOZZ | 39428 | 92470A110 | | SK HD SEE DETAIL A | 8 |
| 21 | XDOZZ | 39428 | 8568K24 | | C,FIRM SEE DETAIL A | 1 |
| 22 | XDOZZ | 96906 | MS51007-5 | | ETAIL F | 2 |
| 23 | XDOZZ | 39428 | 91772A113 | | PAN HD SEE DETAIL F | 5 |
| 24 | XDOZZ | 39428 | 98019A125 | | .190NOM SEE DETAIL F | 4 |
| 25 | XDOZZ | 39428 | 90730A011 | | 4 UNC SEE DETAIL A, | 5 |
| 26 | <i>X</i> DOZZ | 39428 | 91772A113 | SCREW MACH | PAN HD SEE DETAIL A, F | 8 |
| 27 | XDOZZ | 39428 | 98019A109 | | DIA .11 SEE DETAIL F | 8 |
| 28 | XDOZZ | 39428 | 92146A005 | | HELICAL SEE DETAIL F | 8 |
| 29 | XDOZZ | 39428 | 90730A005 | | 0 UNC SEE DETAIL F | 8 |
| 30 | XDOZZ | 71286 | 40R12-1 | | URNLOCKSEE DETAIL A | 2 |
| 31 | XDOZZ | 39428 | 92141A006 | | .138 NO SEE DETAIL C | 2 |
| 32 | XDOZZ | 97403 | 40547-6 | | _Y,1/4TU SEE DETAIL A | 2 |
| 33 | XDOZZ | 71286 | 40G16-100S | | DETAIL B | 2 |
| 34 | PADZZ | 19738 | 1010-1020 | | E DETAIL A | 1 |
| 3 4 35 | XDOZZ | 39428 | 92470A190 | | APPING SEE DETAIL F | 4 |
| 36 | PAOZZ | 39426 74545 | GF-5362-GY | | GROUND F SEE DETAIL F | 2 |
| 30 | TAULL | 14040 | G1 -3302-G1 | | SKOUND F SEE DETAIL E, | ۷ |
| 37 | XDOZZ | 39428 | 8568K13 | | R, .125 SEE DETAIL D | 1 |
| 38 | XAOZZ | 39428 | 5052H32 | | SEE DETAIL D | 1 |
| 39 | XAOZZ | 39428 | 6061-76 | | SEE DETAIL F | 1 |
| | | | | | | |

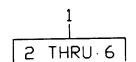
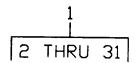


FIGURE 32. COVER, POWER ENTRANCE F-102

| SECTION II | | | | TM 5-6675-331 | I-14&P |
|-------------|------------|-------|------------------|--------------------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (3) (4) (5) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | | |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 32 COVER, POWER ENTRANCE | |
| 1 | XDOOO | 97403 | 13229E7437 | COVER, PWR ENTRANCE | 1 |
| 2 | XDOZZ | 96906 | MS35825-11A | HINGE, BUTT | 1 |
| 3 | XDOZZ | 97403 | 13229E7438-2 | FLAP, COVER, PWR ENTR | 1 |
| 4 | XDOZZ | 97403 | 13229E7438-1 | FLAP, COVER, PWR ENTR | 1 |
| 5 | XDOZZ | 39428 | 8568K13 | SHEET, RUBBER, .125 | 4 |
| 6 | XDOZZ | 96906 | MS20426AD-6 | RIVET, SOLID, FLATHD | 29 |



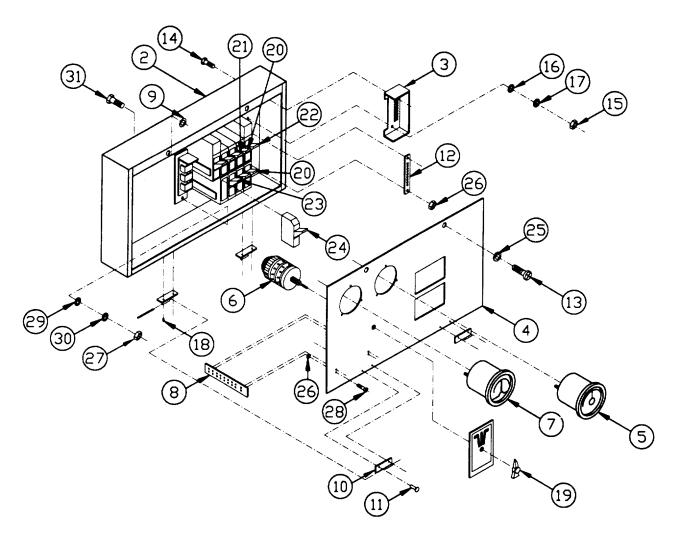


FIGURE 33. POWER DISTRIBUTION BOX

| ECII | ON II | | | I M 5-6675-33 | 1-14& |
|-------------|------------|-------|-------------------|--------------------------------------|-------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 33 POWER DISTRIBUTION BOX | |
| 1 | XDOOO | 97403 | 13229E7394 | POWER DISTR BOX | 1 |
| 2 | XDOZZ | 97403 | 13229E7442 | PWR DSTRBTN BX ASSY | 1 |
| 3 | XDOZZ | 05684 | Q0412L125, SERIES | LOAD CENTER, 120VAC, | 1 |
| 4 | XDOZZ | 97403 | 13229E7443 | COVER, PWR DIST BOX | 1 |
| 5 | XDOZZ | 25497 | 17993 | METER, ELECTRICAL | 1 |
| 6 | XDOZZ | 82121 | 31904LT | SWITCH, ROTARY | 1 |
| 7 | XDOZZ | 25497 | 08470 | VOLTMETER, 0-150 VAC | 1 |
| 8 | XDOZZ | 81349 | 37TB-10 | TERMINAL BOARD | 1 |
| 9 | XDOZZ | 94222 | 12-1105-14 | RECEPTACLE | 2 |
| 10 | XDOZZ | OFCK2 | LJ-182432-B | HINGE, LOOSE JOINT | 2 |
| 11 | XDOZZ | 96906 | MS20426A4-6 | RIVET, SOLID | 4 |
| 12 | XDOZZ | 05684 | PK9GTA | GROUND BAR | 1 |
| 13 | XDOZZ | 94222 | 12-11-205-11 | SCREW, PANEL FASTENE | 2 |
| 14 | XDOZZ | 96906 | MS35307-306 | SCREW, CAP, HEXAGON H | 2 |
| 15 | XDOZZ | 96906 | MS35649-2252 | NUT, PLAIN, HEXAGON | 2 |
| 16 | XDOZZ | 96906 | MS15795-810 | WASHER, FLAT | 2 |
| 17 | XDOZZ | 96906 | MS35338-139 | WASHER, LOCK | 2 |
| 18 | XDOZZ | 19738 | 1601-0410 | RIVET, BLIND | 4 |
| 19 | XDOZZ | 82121 | 03029-1 | KNOB | 1 |
| 20 | PAOZZ | 81348 | WC375/01-002 | CIRCUIT BREAKER | 4 |
| 21 | PAOZZ | 56303 | Q0T1515 | CIRCUIT BREAKER | 2 |
| 22 | PAOZZ | 81487 | Q0120GFI | CIRCUIT BREAKER | 2 |
| 23 | PAOZZ | 81348 | WC375/01-007 | CIRCUIT BREAKER | 1 |
| 24 | PAOZZ | 81348 | WC375/01-003 | CIRCUIT BREAKER | 1 |
| 25 | XDOZZ | 94222 | 12-11014-26 | RETAINER | 2 |
| 26 | XDOZZ | 96906 | MS21044-N06 | NUT, SELF-LOCKING, .1 | 6 |
| 27 | XDOZZ | 96906 | MS35649-242 | NUT, PLAIN, HEXAGON | 1 |
| 28 | XDOZZ | 96906 | MS35206-232 | SCREW, MACHINE | 4 |
| 29 | XDOZZ | 96906 | MS27183-4 | WASHER, FLAT | 4 |
| 30 | XDOZZ | 96906 | MS35338-40 | WASHER, LOCK | 4 |
| 31 | XDOZZ | 96906 | MS35190-225 | SCREW, MACHINE | 4 |

END OF FIGURE

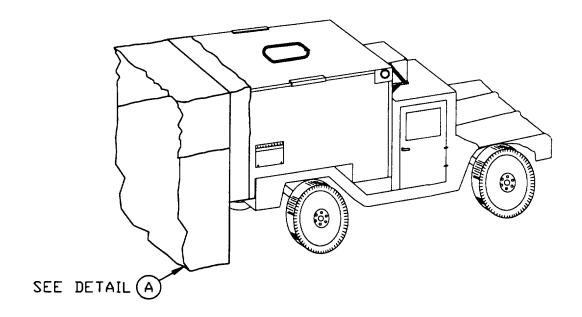
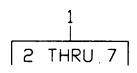
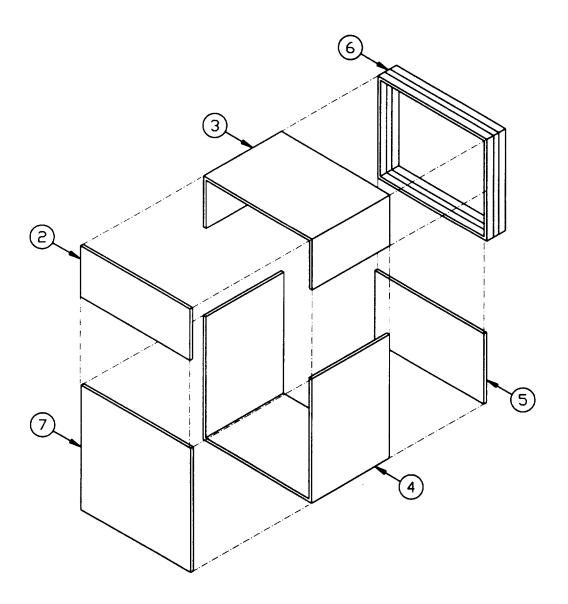


FIGURE 34. BOOT (SHEET 1 OF 2)



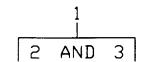


DETAIL (A)

FIGURE 34. BOOT (SHEET 2 OF 2)

F-108

| SECTION II | | | | TM 5-6675-33 ⁴ | I-14&P |
|-------------|------------|-------|-------------|--------------------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 34 BOOT | |
| 1 | XDOOO | 97403 | 13229E7461 | BOOT | 1 |
| 2 | XDOZZ | 97403 | 13229E7523 | FACE WALL, UPPER SEE DETAIL A | 1 |
| 3 | XDOZZ | 97403 | 13229E7524 | ROOF/UPPER WALL, OUT SEE DETAIL A | 1 |
| 4 | XDOZZ | 97403 | 13229E7526 | FLOOR/LOWER WALL, IN SEE DETAIL A | 1 |
| 5 | XDOZZ | 97403 | 13229E7528 | BACK WALL SEE DETAIL A | 1 |
| 6 | XDOZZ | 97403 | 13229E7530 | BELLY BAND, OUTSIDE SEE DETAIL A | 1 |
| 7 | XDOZZ | 97403 | 13229E7531 | SICPS WALL SEE DETAIL A | 1 |



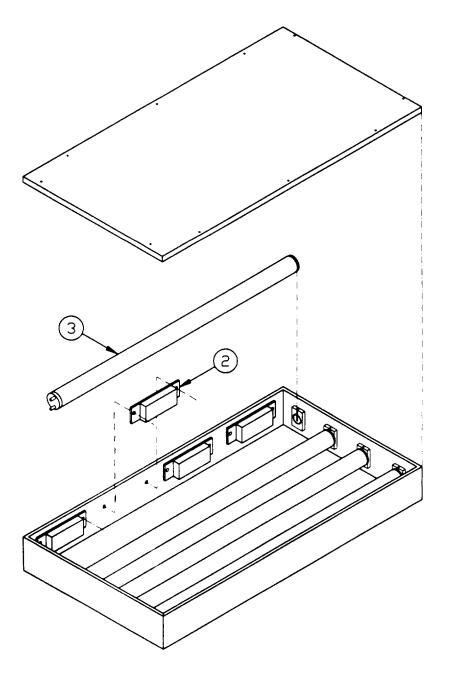


FIGURE 35. LIGHT, PORTABLE DRAFTING

F-110

| SECTION II | | | | TM 5-6675-331 | 1-14&P |
|---------------------|-------------------------|-------------------------|--------------------------------------|--|-------------|
| (1) (2) | | R | (4) DART | (5) | (6) |
| ITEM SMR NO CODE | PART NUMBER | | DESCRIPTION AND USABLE ON CODES(UOC) | QTY | |
| | | | | GROUP 02 SHELTER ASSEMBLY | |
| | | | | FIG. 35 LIGHT, PORTABLE DRAFTING | |
| 1 2 3 | PAOOO PAOZZ PAOZZ | 15889 15889 15889 | 2436-46 RSL 40P F30T12/C50/RS | LIGHT, PORTABLE DRFT BALLAST LIGHT TUBE END OF FIGURE | 1 4 4 |

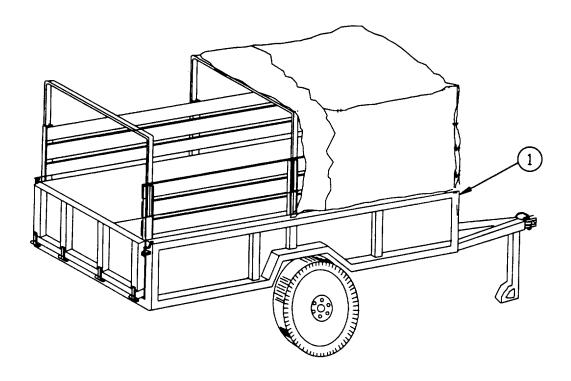


FIGURE 36. TRAILER

F-112

| SECTION II | | | | TM 5-6675-331 | I-14&P |
|-------------|------------|-------|---|--------------------------------------|--------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | CAGEC | NUMBER DESCRIPTION AND USABLE ON CODES(UOC) | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 03 TRAILER | |
| | | | | FIG. 36 TRAILER | |
| 1 | PDODD | 19207 | M101A2 | TRAILER, CARGO | 1 |
| | | | | END OF FIGURE | |

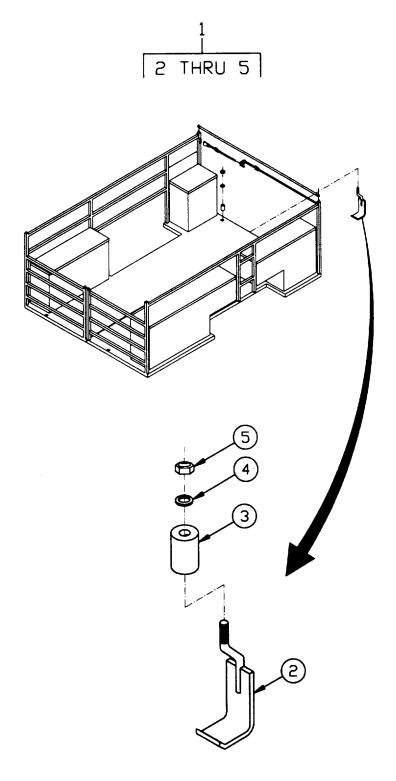
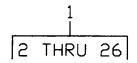


FIGURE 37. TRAILER FRAME ASSEMBLY

| SECTION II | | | | TM 5-6675-33 | 1-14&P |
|------------|-------------|--|-------------|--------------------------------------|--------|
| (1) | (2) | (3) | (4) DADT | (5) | (6) |
| NO NO | SMR CODE | PART CAGEC NUMBER DESCRIPTION AND USAB | | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 03 TRAILER | |
| | | | | FIG. 37 TRAILER FRAME ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7374 | TRAILER FRAME ASSY | 1 |
| 2 | XDOZZ | 97403 | 13229E7458 | J HOOK, TRAILER | 4 |
| 3 | XDOZZ | 97403 | 13229E7457 | SPACER, "J" HOOK, TRLR | 1 |
| 4 | XDOZZ | 96906 | MS15795-815 | WASHER, FLAT | 4 |
| 5 | XDOZZ | 96906 | MS51922-18 | NUT, SELF-LOCKING, HE | 4 |
| | | | | END OF FIGURE | |

F-115/(116 Blank)



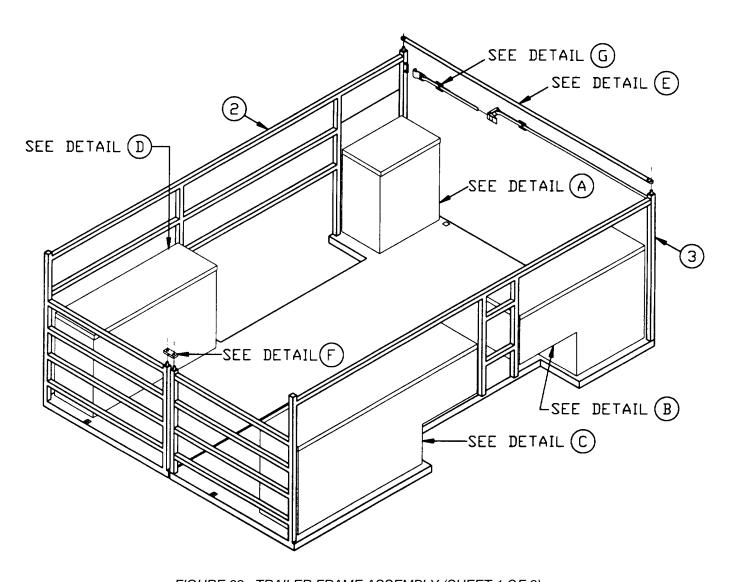


FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 1 OF 8)

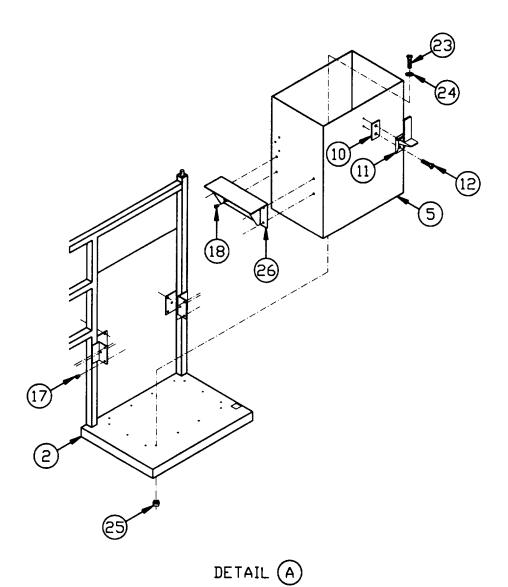
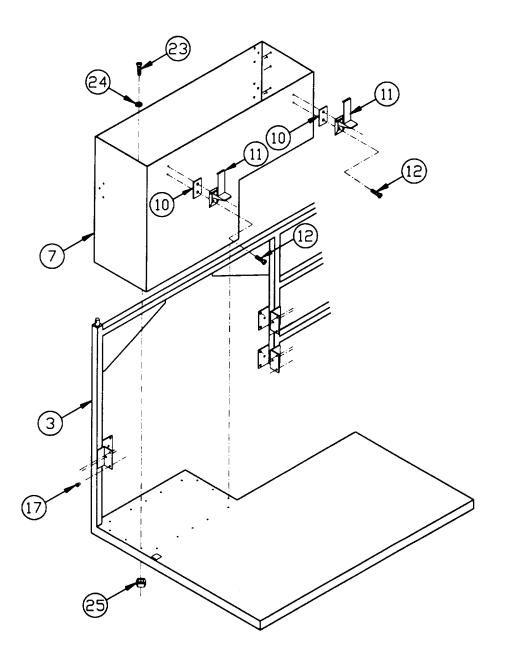


FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 2 OF 8)



DETAIL B

FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 3 OF 8)

F-119

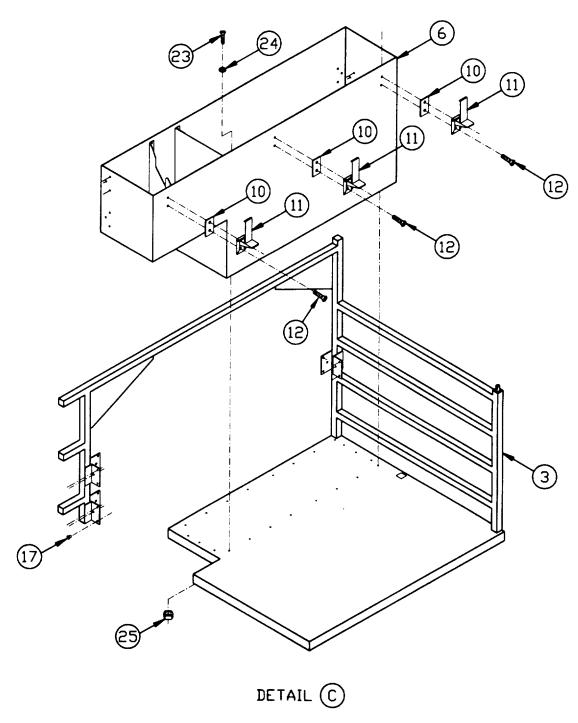


FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 4 OF 8)

F-120

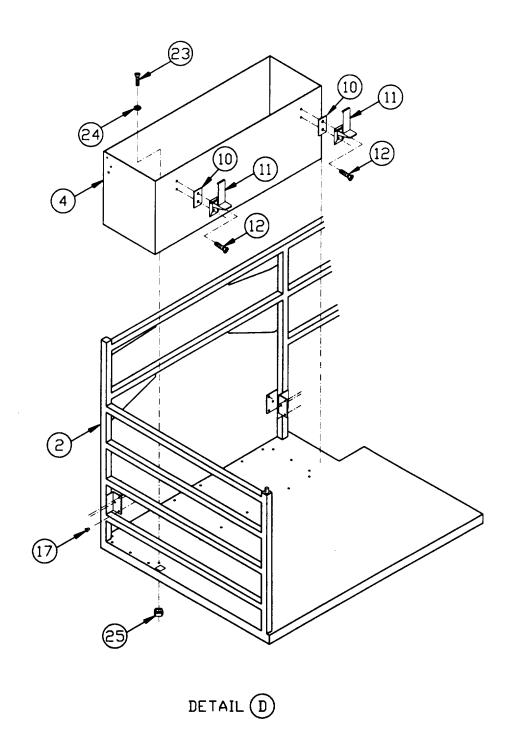
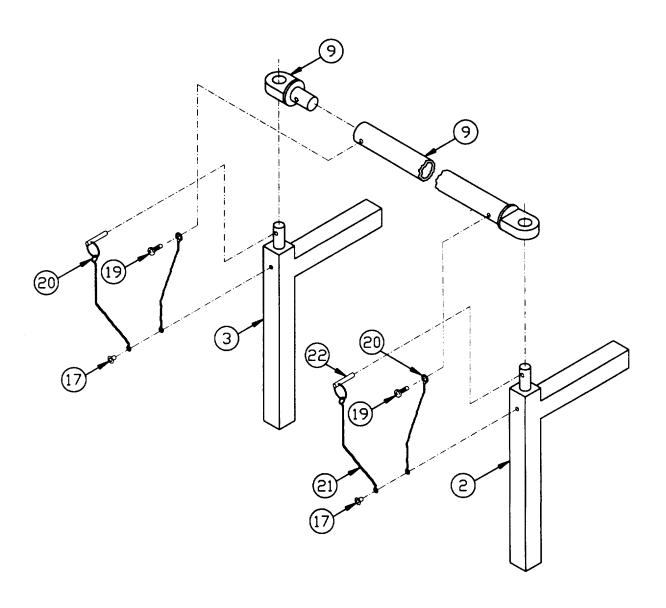
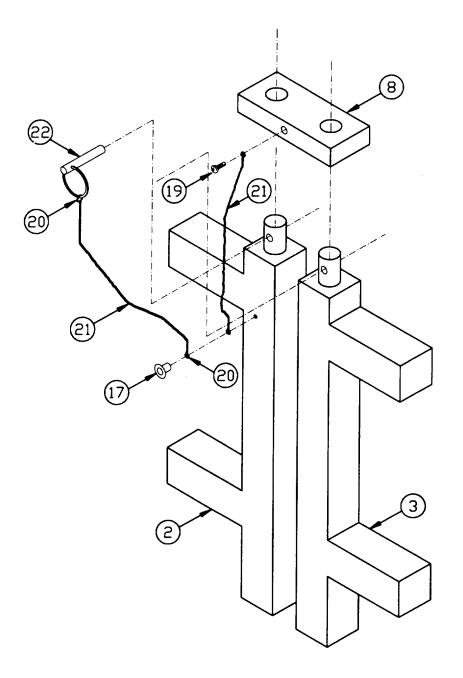


FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 5 OF 8)



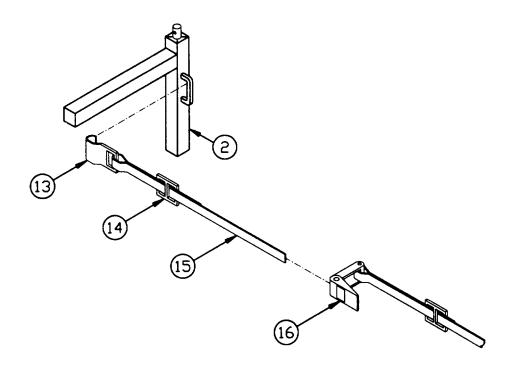
DETAIL (E)
FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 6 OF 8)

F-122



DETAIL

FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 7 OF 8)



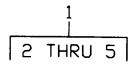
DETAIL G

FIGURE 38. TRAILER FRAME ASSEMBLY (SHEET 8 OF 8)

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SECTION II TM 5-6675-331-14&P

| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
|-------------|------------|--------|--------------|--|-----|
| NO | CODE | CAGEC | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 03 TRAILER | |
| | | | | FIG. 38 TRAILER FRAME ASSEMBLY | |
| 1 | XDOOO | 97403 | 13229E7444 | TRAILER FRAME ASSY | 1 |
| 2 | XDOZZ | 97403 | 13229E7445 | FRAME, CURBSIDE SEE DETAIL A, D, E, | |
| 3 | XDOZZ | 97403 | 13229E7446 | FRAME, ROADSIDE SEE DETAIL B, C, E, F | 1 |
| 4 | XDOZZ | 97403 | 13229E7447 | BOX, CANNISTER, CURB SEE DETAIL D | 1 |
| 5 | XDOZZ | 97403 | 13229E7448 | BOX, AUXILARY, CURB SEE DETAIL A | 1 |
| 6 | XDOZZ | 97403 | 13229E7451 | BOX, DEVELOPER SEE DETAIL C | 1 |
| 7 | XDOZZ | 97403 | 13229E7453 | BOX, AUXILARY, ROAD SEE DETAIL B | 1 |
| 8 | XDOZZ | 97403 | 13229E7454 | STAY, FORWARD SEE DETAIL F | 1 |
| 9 | XDOZZ | 97403 | 13229E7455 | STAY, REAR, TUBE SEE DETAIL E | 1 |
| 10 | XDOZZ | 97403 | 13229E7456 | SPACER, LATCH SEE DETAIL A, B, C, D | 8 |
| 11 | XDOZZ | 94222 | 97-50-220-12 | LATCH, OVER CENT. SEE DETAIL A, B, | 8 |
| • • • | ABOLL | O IZZZ | 07 00 220 12 | C, D | Ü |
| 12 | XDOZZ | 96906 | MS51957-45 | SCREW, MACHINE SEE DETAIL A, B, C, D | 16 |
| 13 | XDOZZ | 39428 | 3699T14 | STRAP, QUICK DISCONN SEE DETAIL G | 6 |
| 14 | XDOZZ | 39428 | 3699T15 | PLATE, THREADING SEE DETAIL G | 18 |
| 15 | XDOZZ | 39428 | 3699T16 | WEBBING, 1 WIDE SEE DETAIL G | 1 |
| 16 | XDOZZ | 39428 | 3699TII | BUCKLE SEE DETAIL G | 6 |
| 17 | XDOZZ | 19738 | 1601-0613 | RIVET, BLIND SEE DETAIL A, B, C, D, E, | 64 |
| | ABOLL | 10700 | 1001 0010 | F | 0. |
| 18 | XDOZZ | 96906 | MS20426AD6-7 | RIVET, SOLID SEE DETAIL A | 23 |
| 19 | XDOZZ | 96906 | MS51958-63 | SCREW, MACHINE SEE DETAIL E, F | 2 |
| 20 | XDOZZ | 39428 | 3606T33 | COUPLING, END #10 (. 1 SEE DETAIL E, | 12 |
| 20 | ABOLL | 00 120 | 0000100 | F | |
| 21 | XDOZZ | 39428 | 3606T19 | CHAIN, BEAD #10 (. 187 SEE DETAIL E, | 1 |
| | | | | F | |
| 22 | XDOZZ | 39428 | 98320AD07 | PIN, QUICK RELEASE SEE DETAIL E, F | 4 |
| 23 | XDOZZ | 96906 | MS51958-65 | SCREW, MACHINE SEE DETAIL A, B, C, D | 74 |
| 24 | XDOZZ | 96906 | MS15795-846 | WASHER, FLAT SEE DETAIL A, B, C, D | 74 |
| 25 | XDOZZ | 96906 | MS21044-C3 | NUT, SELF-LOCKING, HE SEE DETAIL A, B, C, D | 74 |
| 26 | PADZZ | 97403 | 13229E7521 | BRACKET, TENT LIGHT SEE DETAIL A | 1 |
| | | | | | |



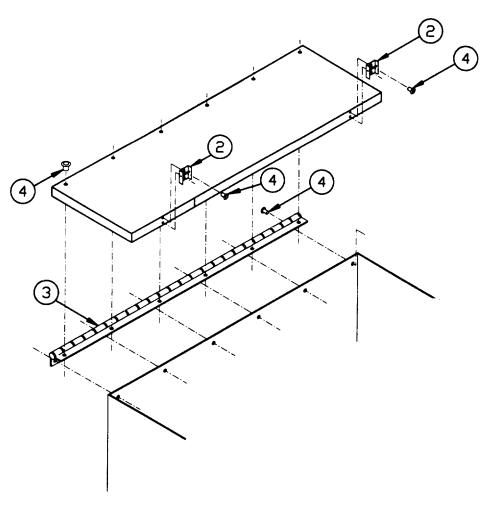
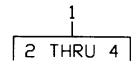


FIGURE 39. COVER, CANNSITER

F-126

| SECTION II | | | | TM 5-6675-33 | 1-14&P |
|--------------------------------------|-------------|----------------------------------|--|--|-------------------|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | | = | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 03 TRAILER | |
| | | | | FIG. 39 COVER, CANNISTER | |
| 1XDOOO 2XDOZZ 3XDOZZ 4XDOZZ | 7 - 7 | 97403 94222 96906 96906 | 13229E7449 97-50-221-12 MS20257-C43225 MS20426AD6-7 | COVER, CANNISTER CATCH, DRAW LATCH HINGE, CONT .062X1.5 RIVET, SOLID | 2 4 2 32 |
| | | | | END OF FIGURE | |



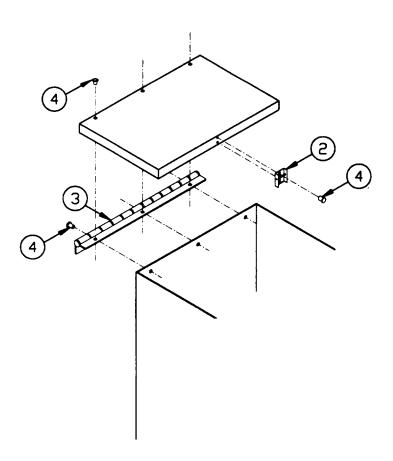
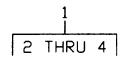


FIGURE 40. COVER, CURBSIDE AUXILIARY BOX

F-128

| SECT | ION II | | | | TM 5-6675-331- | 14&P |
|-------------------|----------------------|----------------|----------------------------|--------------|--------------------------------------|----------|
| (1) ITEN NO | (2) I SMR CODE | (3) | (4) PART NUMBER | DESCRIPTI | (5) ON AND USABLE ON CODES(UOC | (6) |
| 140 | QTY | OAGEG | NOMBER | DEGOINII 11 | ON AND GOADLE ON GODLG(GOO | , |
| | | | | GROUP 03 | TRAILER | |
| | | | | FIG. 40 | COVER, CURBSIDE AUXILIARY BOX | |
| 1 2 | XDOOO XDOZZ | 97403 94222 | 13229E7450 97-50-221-12 | COVER, CUR | BSIDE AUX | 1 |
| 3 | XDOZZ | 94222 96906 | MS20257-C4 | | <i>N</i> LATCH ⁻ .062X1.5 | 1 |
| 4 | XDOZZ | 96906 | MS20426AD6-7 | RIVET, SOLID |) | 8 |
| | | | | END OF FIGU | IRE | |



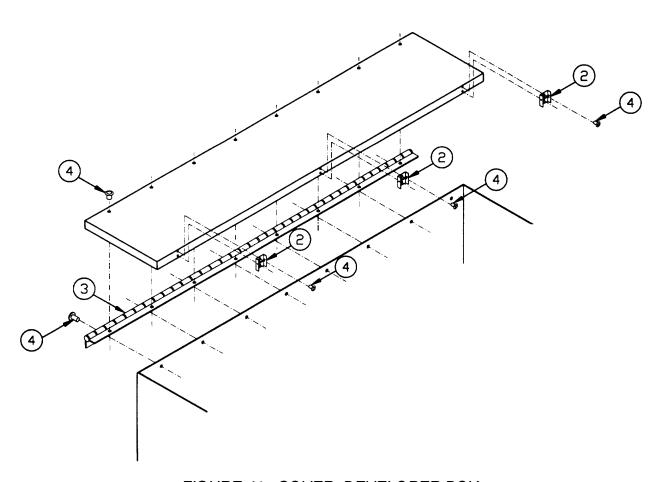
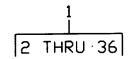


FIGURE 41. COVER, DEVELOPER BOX

| SECT | TION II | | | | TM 5-6675-331- | 14&P |
|------------------|----------------------------------|----------------------------------|--|-------------|----------------------------|-------------------|
| (1) | (2) | (3) | (4) PART | | (5) | (6) |
| NO NO | _ | CAGEC | | DESCRIPTI | ON AND USABLE ON CODES(UOC |) |
| | | | | GROUP 3 | TRAILER | |
| | | | | FIG. 41 | COVER, DEVELOPER BOX | |
| 1 2 3 4 | XDOOO XDOZZ XDOZZ XDOZZ | 97403 94222 96906 96906 | 13229E7452 97-50-221-12 MS20257-C43225 MS20426AD6-7 | CATCH, DRAV | ELOPER BOX | 1 3 1 11 |



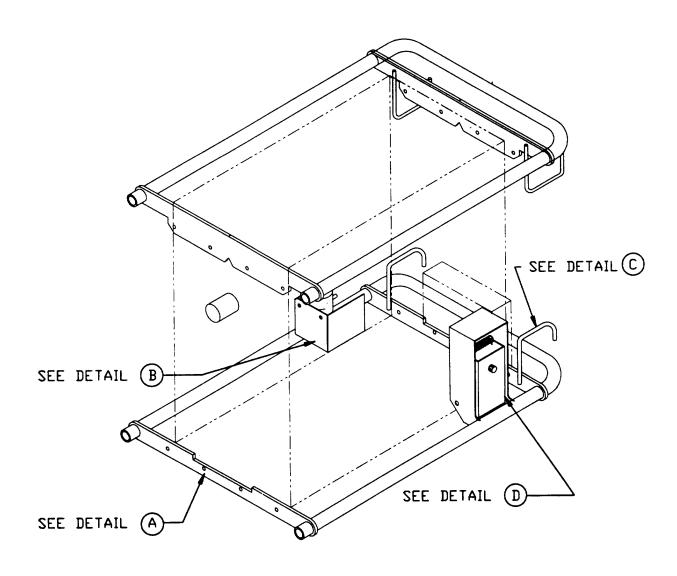


FIGURE 42. MULTIFUEL SPACE HEATER (SHEET 1 OF 5)

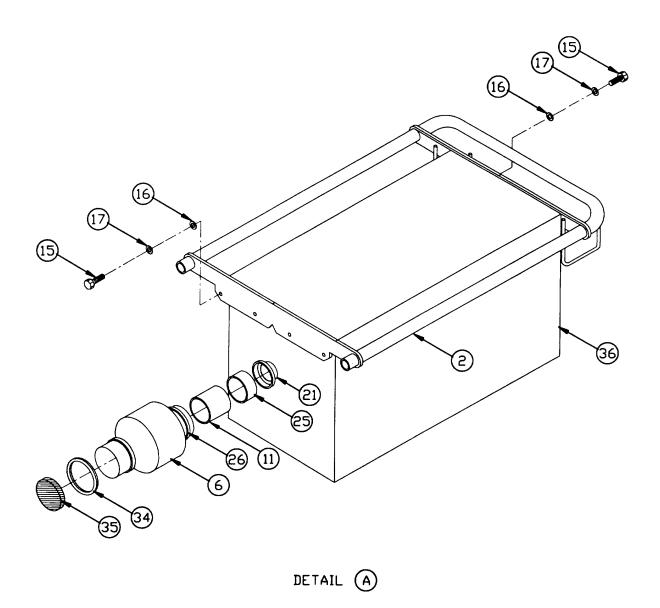


FIGURE 42. MULTIFUEL SPACE HEATER (SHEET 2 OF 5)

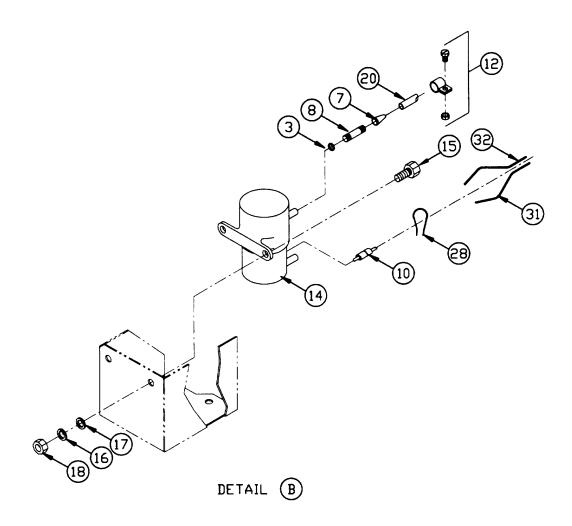


FIGURE 42. MULTIFUEL SPACE HEATER (SHEET 3 OF 5)

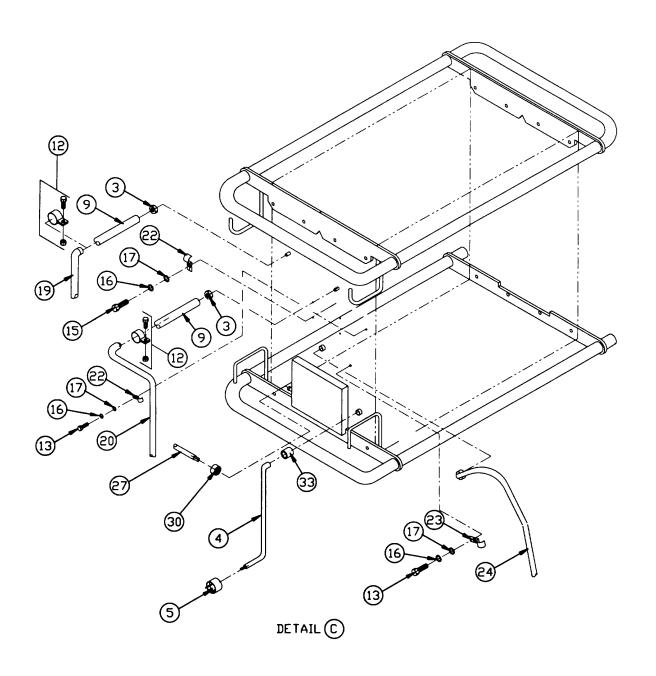
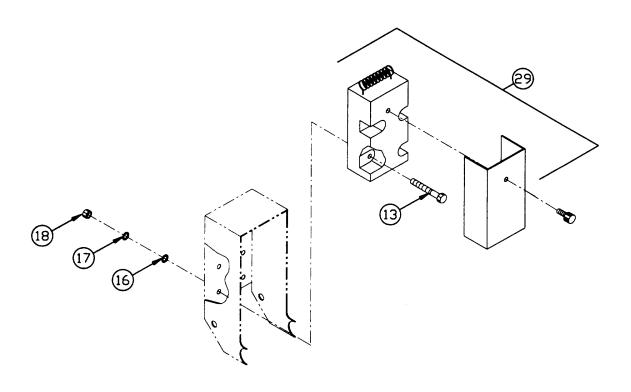


FIGURE 42. MULTIFUEL SPACE HEATER (SHEET 4 OF 5)



DETAIL D

FIGURE 42. MULTIFUEL SPACER HEATER (SHEET 5 OF 5)

SECTION II TM 5-6675-331-14&P

| (1) | (2) | (3) | (4) |
|------|------|--------------|--------|
| ITEM | SMR | | PART |
| NO | CODE | CAGEC | NUMBER |
| | QTY | | |

DESCRIPTION AND USABLE ON CODES(UOC)

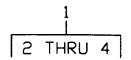
(5)

(6)

GROUP 04 MULTIFUEL SPACE HEATER

FIG. 42 MULTIFUEL SPACE HEATER

| | \/D000 | 07.100 | | UEATER ARABTER AGOV OFF THE 4500 | |
|--------|----------|----------------|---------------|---|----|
| 1 | XDOOO | 97403 | 13229E7459 | HEATER ADAPTER ASSY SEE TM5-4520 253-23P FOR PARTS BREAKDOWN | 1 |
| 2 | XDOZZ | 97403 | 13229E7516 | HANDLE ASSY, TOP SEE DETAIL A | 1 |
| 3 | XDOZZ | 39428 | 5061K12 | NUT, TUBE COUPLING SEE DETAIL B, C | 4 |
| 3 4 | XDOZZ | 39426 39428 | 7080K44 | CABLE, 12-3 TYPE SO SEE DETAIL C | 1 |
| | XDOZZ | 39428 | | PLUG, HOSPITAL TYPE SEE DETAIL C | 1 |
| 5 | XDOZZ | OJYE2 | 7462KII | | 1 |
| 6 | | | SKUX38 | SLEEVE, INSULATING SEE DETAIL A | 2 |
| 7 | XDOZZ | 39428 | 5068K15 | MALE UNIONS, 1/4-1/8 SEE DETAIL B | 2 |
| 8 | XDOZZ | 39428 | 5174K3B | TUBING, COPPER 1/4" SEE DETAIL B | |
| 9 | XDOZZ | 39428 | 5174K3A | TUBING, COPPER 1/4" SEE DETAIL C | 2 |
| 10 | XDOZZ | 39428 | 8338561 | FM LIGHT PLUG SEE DETAIL B | 1 |
| 11 | XDOZZ | 39428 | 5241K65 | TUBE, STL 2.75 OD 8' SEE DETAIL A | 1 |
| 12 | XDOZZ | 39428 | 5321K14 | CLAMP, WORM DRIVE SEE DETAIL B, C | 6 |
| 13 | XDOZZ | 96906 | MS35307-303 | SCREW, CAP, HEXAGON H SEE DETAIL C, | 4 |
| | \\D.O.77 | | 140=4004 4 | D | |
| 14 | XDOZZ | 96906 | MS51321-1 | PUMP, FUEL, ELECTRICA SEE DETAIL B | 1 |
| 15 | XDOZZ | 96906 | MS35307-306 | SCREW, CAP, HEXAGON H SEE DETAIL A, | 23 |
| | | | | B, C | |
| 16 | XDOZZ | 96906 | MS35338-82 | WASHER, LOCK SEE DETAIL A, B, C, D | 28 |
| 17 | XDOZZ | 96906 | MS15795-810 | WASHER, FLAT SEE DETAIL A, B, C, D | 28 |
| 18 | XDOZZ | 96906 | MS35649-2254 | NUT, PLAIN, HEXAGON SEE DETAIL B, D | 7 |
| 19 | XDOZZ | 39428 | 5235K45 | HOSE, 1/4" ID 25 FT SEE DETAIL C | 3 |
| 20 | XDOZZ | 39428 | 5235K45 | HOSE, I/4" ID 13 FT SEE DETAIL B, C | 1 |
| 21 | XDOZZ | 39428 | 557K64 | COUPLING, 2" SEE DETAIL A | 1 |
| 22 | XDOZZ | 39428 | MS9352-7 | CLAMP, CUSHION ALUM SEE DETAIL C | 3 |
| 23 | XDOZZ | 39428 | MS9352-6 | CLAMP, CUSHION ALUM SEE DETAIL C | 1 |
| 24 | XDOZZ | 39428 | 7080K27 | CABLE, 2 COND 16 AWG SEE DETAIL C | 1 |
| 25 | XDOZZ | 39428 | 6815K21 | COUPLING, PIPE SEE DETAIL A | 1 |
| 26 | XDOZZ | 39428 | 8827K44 | SILICA STRIP, 16 TH SEE DETAIL A | 1 |
| 27 | XDOZZ | 39428 | 7080K42 | CABLE, 16-3 TYPE SJ SEE DETAIL C | 1 |
| 28 | XDOZZ | 39428 | 7130K13 | TIE, CABLE SEE DETAIL B | 1 |
| 29 | XDOZZ | 39428 | 1877K21 | THERMOSTAT ASSY SEE DETAIL D | 1 |
| 30 | XDOZZ | 96906 | MS3106E14&14S | PLUG SEE DETAIL C | 2 |
| 31 | XDOZZ | 39428 | 8338526 | CONN 1, PWR CABLE SEE DETAIL B | 1 |
| 32 | XDOZZ | 39428 | 7982997 | CONN 2, PWR CABLE SEE DETAIL B | 1 |
| 33 | XDOZZ | 96906 | MS3106E-18 | PLUG SEE DETAIL C | 1 |
| 34 | XDOZZ | 39428 | 35416K22 | CLAMP SEE DETAIL A | 2 |
| 35 | XDOZZ | 39428 | 9226T392 | WIRE CLOTH SEE DETAIL A | 1 |
| 36 | PAOZZ | 92878 | UH68-G1 | HEATER, SPACE SEE DETAIL A | 1 |
| | | | | | |



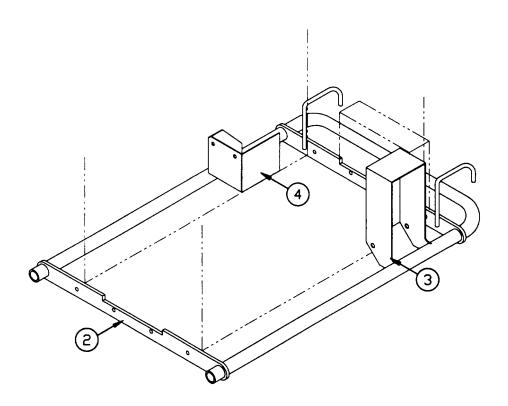
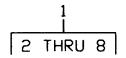
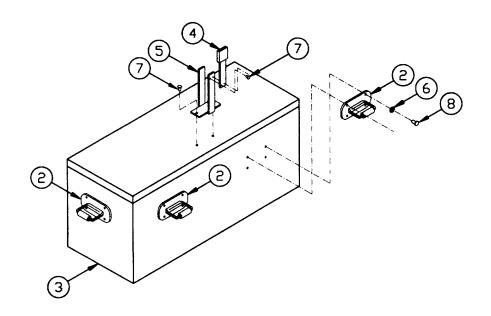


FIGURE 43. HANDLE ASSEMBLY, BOTTOM

| SECTION II | | TM 5-6675-331-14&P | | |
|--|--|--------------------------------------|-------------------------|-----|
| (1) (2) (3) ITEM SMR | (4) PART | | (5) | (6) |
| NO CODE CAGEC QTY | | DESCRIPTION AND USABLE ON CODES(UOC) | | |
| | | GROUP 04 | MULTIFUEL SPACE HEATER | |
| | | FIG. 43 | HANDLE ASSEMBLY, BOTTOM | |
| 1 XDOZZ 97403 2 XDOZZ 97403 3 XDOZZ 97403 4 XDOZZ 97403 | 13229E7517 13229E7518 13229E7519 13229E7520 | HANDLE ASSY, BOTTOM | | |
| | | END OF FIGURE | | |





FIGUE 44. ZOOM TRANSFER SCOPE

SECTION II TM 5-6675-331-14&P (1) (2) (3) **(4)** (5) **(6)** ITEM SMR **PART DESCRIPTION AND USABLE ON CODES(UOC)** NO CODE CAGEC **NUMBER QTY GROUP 05 ZOOM TRANSFER SCOPE ZOOM TRANSFER SCOPE** FIG. 44 ZTS 1 XDOOO 97403 13229E7462 2 HANDLE, SPRING LOAD XDOZZ 39428 1764A25 3 XDOZZ 51745 ADC-136-00 CASE, ZOOM TRANSFER 1 4 XDOZZ 02768 101-0100 BUCKLE, SIDE RELEASE 1 5 **XDOZZ** 3722T17 WEBBING, 1.00WX.07TH 39428 6 **XDOZZ** 96906 MS15795-803 WASHER, FLAT 4 7 XDOZZ 39428 97447A105 RIVET, BLIND 2 RIVET, BLIND, DOME HD XDOZZ 39428 97447A050

END OF FIGURE

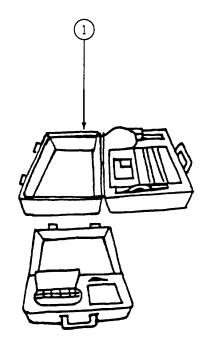


FIGURE 45. GRAPHIC QUANTITY PROCESSOR

SECTION II TM 5-6675-331-14&P (1) (2) (4) (5) (3) (6) **ITEM SMR PART DESCRIPTION AND USABLE ON CODES(UOC)** NO CODE CAGEC **NUMBER** QTY **GROUP 06 QUANTITY PROCESSING SYSTEM** FIG. 45 **GRAPHIC QUANTITY PROCESSOR** 1 PFOOD 36970 L-2800AM GRAPHIC QUANTITY PRSEE TM5-6675-1 326-24P..... **END OF FIGURE**

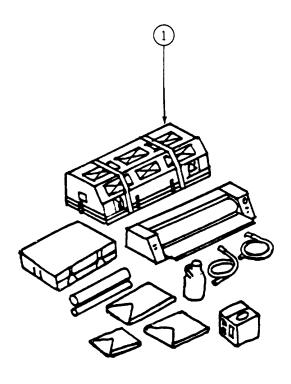


FIGURE 46. COPIER, DIAZO

| SECTION II | | | TM 5-6675-331- | 14&P |
|----------------------|-------------|-------------|--------------------------------------|------|
| (1) (2) (3) ITEM SMR | (4) PART | | (5) | (6) |
| NO CODE CAGEC QTY | NUMBER | DESCRIPT | ON AND USABLE ON CODES(UOC |) |
| | | GROUP 07 | DIAZO PROCESS REPRODUCTION SET | |
| | | FIG. 46 | COPIER, DIAZO | |
| 1 PDOOH 60887 | 185 FL-M | | ZO SEE TM5-3610-256-24P BREAKDOWN | 1 |
| | | END OF FIGU | JRE | |

Section III. Special Tools List (Not Applicable)

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

| 6240-00-152-2996 30 2 6250-00-299-2884 30 3 5925-00-465-4021 33 21 6650-00-477-9613 23 1 6210-00-548-0222 30 1 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 4520-01-297-6803 42 36 | STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|---|------------------|------|------|--------------|------|------|
| 6250-00-299-2884 30 3 5925-00-465-4021 33 21 6650-00-477-9613 23 1 6210-00-548-0222 30 1 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 2010 20 150 2020 | | | | | |
| 5925-00-465-4021 33 21 6650-00-477-9613 23 1 6210-00-548-0222 30 1 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6240-00-152-2996 | 30 | 2 | | | |
| 6650-00-477-9613 23 1 6210-00-548-0222 30 1 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6250-00-299-2884 | 30 | 3 | | | |
| 6210-00-548-0222 30 1 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 5925-00-465-4021 | 33 | 21 | | | |
| 6250-00-569-9502 30 4 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6650-00-477-9613 | 23 | 1 | | | |
| 5930-00-655-1514 29 3 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6210-00-548-0222 | 30 | 1 | | | |
| 5940-00-937-5237 31 6 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6250-00-569-9502 | 30 | 4 | | | |
| 5925-01-021-5222 33 22 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 5930-00-655-1514 | 29 | 3 | | | |
| 5925-01-042-0109 33 20 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 5940-00-937-5237 | 31 | 6 | | | |
| 6220-01-093-4439 4 2 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 5925-01-021-5222 | 33 | 22 | | | |
| 2330-01-102-4697 36 1 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 5925-01-042-0109 | 33 | 20 | | | |
| 5925-01-111-7562 33 24 6675-01-266-0700 45 1 | 6220-01-093-4439 | 4 | 2 | | | |
| 6675-01-266-0700 45 1 | 2330-01-102-4697 | 36 | 1 | | | |
| | 5925-01-111-7562 | 33 | 24 | | | |
| 4520-01-297-6803 42 36 | 6675-01-266-0700 | 45 | 1 | | | |
| | 4520-01-297-6803 | 42 | 36 | | | |

| CAGEC | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
|----------------|-----------------------------|------------------|---------|----------|
| 05699 | A-A-2129 TYPE 1 | | 4 | 10 |
| 51745 | ADC-136-00 | | 44 | 3 |
| 88044 | AN4C10A | | 5 | 17 |
| 88044 | AN4C12A | | 15 | 7 |
| 88044 | AN4C5A | | 12 | 13 |
| | | | 17 | 13 |
| 88044 | AN4C6A | | 5 | 16 |
| | | | 10 | 10 |
| | | | 16 | 2 |
| 88044 | AN4C7A | | 12 | 8 |
| | | | 15 | 4 |
| 88044 | AN5C5A | | 3 | 7 |
| 88044 | AN5C6A | | 21 | 6 |
| 88044 | AN5C7A | | 3 | 22 |
| 88044 | AN8C16A | | 3 | 11 |
| 88044 | AN8C20A | | 3 | 6 |
| 88044 | AN935-5166 | | 21 | 8 |
| 88044 | AN960C-5164 | | 21 | 7 |
| 88044 | AN960C016 | | 7 | 5 |
| 88044 | AN960C10L | | 12 | 12 |
| | | | 19 | 5 |
| 88044 | AN960C416 | | 5 | 9 |
| 88044 | AN960C416L | | 4 | 5 |
| | | | 5 | 10 |
| | | | 10 | 7 |
| | | | 12 | 5 |
| | | | 15 | 5 |
| | | | 16 | 3 |
| 00044 | ANOCOC04CI | | 17 | 14 |
| 88044 84256 | AN960C816L APS-1032-130 | | 3 17 | 13 16 |
| 84256 | APS-1032-130 APS-515-428 | | 17 | 17 |
| 84256 | AP3-313-426 AP428-260 | | 5 | 20 |
| 84256 | AP515-1032 | | 5 | 30 |
| 84256 | AP515-1032 AP515-428 | | 4 | 3 |
| 04230 | Al 313 420 | | 5 | 21 |
| | | | 10 | 8 |
| | | | 12 | 7 |
| | | | 16 | 5 |
| 84256 | AP515-524 | | 3 | 23 |
| | | | 12 | 9 |
| | | | 21 | 5 |
| 84256 | AP520-524 | | 3 | 21 |
| 94222 | A5-21-120-10 | | 25 | 4 |
| 05469 | BSF-2832-8 | | 8 | 8 |
| 99862 | CL-21-KA-20.0 | | 24 | 3 |
| 05699 | CRS4130 | | 19 | 4 |
| 05178 | C1219 | | 22 | 1 |
| 1L333 | D322N | | 26 | 2 |
| 07542 | FM41 | | 18 | 4 |
| 08805 | F20T12/CW | 6240-00-152-2996 | 30 | 2 |

| CAGEC | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
|-------|----------------|------------------|----------|---------|
| 15889 | F30T12/C50/RS | | 35 | 3 |
| 79725 | G-3046AE | | 28 | 4 |
| 79725 | G-3046CE | | 28 | 7 |
| 79725 | G-30468E | | 28 | 11 |
| 74545 | GF-5362-GY | | 31 | 36 |
| 0AAR4 | IF-5262 | | 28 | 9 |
| 80704 | IF-5361 | | 28 | 5 |
| 0AAR4 | IG-5261 | | 28 | 13 |
| 80704 | IG-5262 | | 28 | 10 |
| 5R061 | KC-1 | | 31 | 5 |
| 36970 | L-2800AM | 6675-01-266-0700 | 45 | 1 |
| 0FCK2 | LJ-182432-B | | 33 | 10 |
| 81349 | MI-623 | | 4 | 12 |
| 81349 | ML-1251 | | 4 | 13 |
| 81349 | ML-1683 | | 4 | 11 |
| 96906 | MS15793-813 | | 6 | 6 |
| 96906 | MS15795-803 | | 44 | 6 |
| 96906 | MS15795-806 | | 27 | 6 |
| 96906 | MS15795-810 | | 33 | 16 |
| | | | 42 | 17 |
| 96906 | MS15795-815 | | 37 | 4 |
| 96906 | MS15795-846 | | 38 | 24 |
| 96906 | MS16562-213 | | 7 | 6 |
| 96906 | MS20257-C4 | | 40 | 3 |
| 96906 | MS20257-C43225 | | 39 | 3 |
| 00000 | N000000 0040 | | 41 | 3 |
| 96906 | MS20392-3C19 | | 5 | 11 |
| 96906 | MS20392-3C27 | | 5 | 12 |
| 96906 | MS20426AD-6 | | 32 38 | 6 |
| 96906 | MS20426AD6-7 | | 39 | 18 4 |
| | | | 40 | 4 |
| | | | 41 | 4 |
| 96906 | MS20426A4-6 | | 33 | 11 |
| 96906 | MS20470-AC4-14 | | 9 | 9 |
| 96906 | MS20613-6C24 | | 20 | 14 |
| 96906 | MS21044-C3 | | 28 | 14 |
| 00000 | 62.10.11.60 | | 38 | 25 |
| 96906 | MS21044-N06 | | 33 | 26 |
| 96906 | MS21044C8 | | 3 | 15 |
| 96906 | MS24665-151 | | 5 | 13 |
| 96906 | MS2469C102 | | 5 | 15 |
| 96906 | MS24694-0198 | | 6 | 5 |
| 96906 | MS25082-84 | | 31 | 12 |
| 96906 | MS27183-10 | | 3 | 19 |
| 96906 | MS27183-12 | | 20 | 11 |
| | | | 26 | 5 |
| 96906 | MS27183-4 | | 33 | 29 |
| 96906 | MS27183-42 | | 25 | 7 |
| 00000 | M00400E 40 | | 28 | 3 |
| 96906 | MS3106E-18 | | 42 | 33 |

SECTION IV TM 5-6675-331-14&P CROSS-REFERENCE INDEXES

| | P | ART NUMBER INDEX | | |
|----------------|----------------------------|------------------|----------|----------|
| CAGEC | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 96906 | MS3106E14&14S | | 42 | 30 |
| 96906 | MS3402D16-10S | | 31 | 4 |
| 96906 | MS35058-22 | 5930-00-655-1514 | 29 | 3 |
| 96906 | MS35190-225 | | 33 | 31 |
| 96906 | MS35206-232 | | 33 | 28 |
| 96906 | MS35207-280 | | 17 | 11 |
| 96906 96906 | MS35307-303 MS35307-306 | | 42 33 | 13 14 |
| 90900 | NI333307-300 | | 33 42 | 15 |
| 96906 | MS35307-357 | | 4 | 7 |
| 96906 | MS35308-305 | | 4 | 4 |
| 96906 | MS35308-333 | | 10 | 9 |
| | | | 12 | 11 |
| 96906 | MS35337-81 | | . 5 | 29 |
| 96906 | MS35337-82 | | 15 | 6 |
| 96906 | MS35337-83 | | 3 | 20 |
| 96906 | MS35338-139 | | 4 5 | 6 18 |
| | | | 10 | 6 |
| | | | 12 | 6 |
| | | | 16 | 4 |
| | | | 17 | 12 |
| | | | 33 | 17 |
| 96906 | MS35338-140 | | 12 | 10 |
| 96906 | MS35338-141 | | 4 | 8 |
| 96906 | MS35338-143 | | 3 | 14 |
| 96906 96906 | MS35338-40 MS35338-43 | | 33 25 | 30 8 |
| 96906 | MS35338-45 | | 20 | 10 |
| 30300 | WI000000 40 | | 26 | 4 |
| 96906 | MS35338-82 | | 42 | 16 |
| 96906 | MS35469-2254 | | 24 | 7 |
| 96906 | MS35649-2252 | | 33 | 15 |
| 96906 | MS35649-2254 | | 42 | 18 |
| 96906 | MS35649-242 | | 33 | 27 |
| 96906 | MS35650-302 | | 25 | 9 |
| 96906 96906 | MS35825-11A MS51007-5 | | 32 31 | 2 22 |
| 96906 | MS51007-5 MS51321-1 | | 42 | 14 |
| 96906 | MS51321-1 MS51922-18 | | 37 | 5 |
| 96906 | MS51957-45 | | 38 | 12 |
| 96906 | MS51958-63 | | 25 | 6 |
| | | | 38 | 19 |
| 96906 | MS51958-65 | | 28 | 2 |
| 00000 | NO54062 25 | | 38 | 23 |
| 96906 | MS51960-65 | | 17 | 15 |
| 96906 96906 | MS51960-66 MS51960-68 | | 5 5 | 28 19 |
| 96906 96906 | MS51960-88 | | 5 5 | 19 |
| 96906 | MS51900-81 MS52125-2 | 6220-01-093-4439 | 4 | 2 |
| 96906 | MS6104466 | 3223 3. 000 1100 | 6 | 7 |
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| 96906 | MS90726-30 | | 26 | 3 | |
| 96906 | MS90726-40 | | 20 | 9 | |
| 39428 | MS9352-6 | | 42 | 23 | |
| 39428 | MS9352-7 | | 42 | 22 | |
| 19207 | M10LA2 | 2330-01-102-4697 | 36 | 1 | |
| 81349 | M16377/12-001 | | 30 | 5 | |
| 81349 | M16377/12-333.1 | 6210-00-548-0222 | 30 | 1 | |
| 81349 | M16377/44-001 | 6250-00-569-9502 | 30 | 4 | |
| 80205 | NAS561SF-8-20 | | 8 | 3 | |
| | | | 9 | 6 | |
| 81349 | PB08NA01 | 5940-00-937-5237 | 31 | 6 | |
| 81349 | PB08NA02 | | 31 | 7 | |
| 05684 | PK9GTA | | 33 | 12 | |
| 78553 | P116-447-5-24A | | 31 | 13 | |
| 56303 | Q0T1515 | 5925-00-465-4021 | 33 | 21 | |
| 81487 | Q0120GFI | 5925-01-021-5222 | 33 | 22 | |
| 05684 | Q0412L125,SERIES | | 33 | 3 | |
| 15889 | RSL 40P | | 35 | 2 | |
| OJYE2 | SKUX38 | | 42 | 6 | |
| 80063 | SM-C-563520 | | 5 | 8 | |
| 96652 | S1110-1 | | 12 | 14 | |
| 96652 | S1600-1 | | 12 | 16 | |
| 92878 | UH68-G1 | 4520-01-297-6803 | 42 | 36 | |
| 81348 | WC375/01-002 | 5925-01-042-0109 | 33 | 20 | |
| 81348 | WC375/01-003 | 5925-01-111-7562 | 33 | 24 | |
| 81348 | WC375/01-007 | | 33 | 23 | |
| 82121 | 03029-1 | | 33 | 19 | |
| 25497 | 08470 | | 33 | 7 | |
| 02768 | 101-0100 | | 44 | 4 | |
| 19738 | 1010-1020 | | 31 | 34 | |
| 39428 | 1104A26 | 0050 00 000 0004 | 31 | 15 | |
| 81770 | 115 | 6250-00-299-2884 | 30 | 3 | |
| 94222 | 12-11-205-11 | | 33 | 13 | |
| 94222 | 12-11014-26 | | 33 | 25 | |
| 94222 | 12-1105-14 | | 33 | 9 | |
| 74545 | 1201 | | 28 | 8 | |
| 97403 | 13229E7370 | | 1 | 1 | |
| 97403 | 13229E7371 | | 3 | 1 | |
| 97403 | 13229E7374 | | 37 | 1 | |
| 97403 | 13229E7376 | | 4 | 1 | |
| 97403 | 13229E7377 | | 5 | 1 | |
| 97403 97403 | 13229E7378 | | 10 12 | 1 | |
| 97403 | 13229E7379 13229E7380 | | 15 | 1 1 | |
| 97403 | 13229E7380 13229E7381 | | 16 | 1 | |
| 97403 97403 | 13229E7361 13229E7382 | | 17 | | |
| 97403 97403 | 13229E7362 13229E7385 | | 20 | 1 | |
| 97403 97403 | 13229E7365 13229E7385-1 | | 20 | 1 2 | |
| 97403 | 13229E7365-1 13229E7385-2 | | 20 | 3 | |
| 97403 97403 | 13229E7365-2 13229E7385-4 | | 20 | 3 4 | |
| 31403 | 1322901303-4 | | ∠∪ | 4 | |

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| 07400 | 4000057005.5 | | 00 | _ | |
| 97403 | 13229E7385-5 | | 20 | 5 | |
| 97403 | 13229E7385-6 | | 20 | 6 | |
| 97403 | 13229E7385-7 | | 20 | 7 | |
| 97403 | 13229E7385-8 | | 20 | 8 | |
| 97403 | 13229E7386 | | 21 | 1 | |
| 97403 | 13229E7391 | | 28 | 1 | |
| 97403 | 13229E7392 | | 26 | 1 | |
| 97403 | 13229E7393 | | 31 | 1 | |
| 97403 | 13229E7394 | | 33 | 1 | |
| 97403 | 13229E7395 | | 29 | 1 | |
| 97403 | 13229E7396 | | 27 | 1 | |
| 97403 | 13229E7398 | | 24 | 1 | |
| 97403 | 13229E7399 | | 24 | 2 | |
| 97403 | 13229E7406-1 | | 31 | 8 | |
| 97403 | 13229E7406-2 | | 31 | 9 | |
| 97403 | 13229E7410 | | 25 | 1 | |
| 97403 | 13229E7411 | | 25 | 2 | |
| 97403 | 13229E7412-1 | | 25 | 3 | |
| 97403 | 13229E7412-2 | | 25 | 11 | |
| 97403 | 13229E7435 | | 31 | 2 | |
| 97403 | 13229E7437 | | 32 | 1 | |
| 97403 | 13229E7438-1 | | 32 | 4 | |
| 97403 | 13229E7438-2 | | 32 | 3 | |
| 97403 | 13229E7439 | | 31 | 14 | |
| 97403 | 13229E7442 | | 33 | 2 | |
| 97403 | 13229E7443 | | 33 | 4 | |
| 97403 | 13229E7444 | | 38 | 1 | |
| 97403 | 13229E7445 | | 38 | 2 | |
| 97403 | 13229E7446 | | 38 | 3 | |
| 97403 | 13229E7447 | | 38 | 4 | |
| 97403 | 13229E7448 | | 38 | 5 | |
| 97403 | 13229E7449 | | 39 | 1 | |
| 97403 | 13229E7450 | | 40 | 1 | |
| 97403 | 13229E7451 | | 38 | 6 | |
| 97403 | 13229E7452 | | 41 | 1 | |
| 97403 | 13229E7453 | | 38 | 7 | |
| 97403 | 13229E7454 | | 38 | 8 | |
| 97403 | 13229E7455 | | 38 | 9 | |
| 97403 | 13229E7456 | | 38 | 10 | |
| 97403 | 13229E7457 | | 37 | 3 | |
| 97403 | 13229E7458 | | 37 | 2 | |
| 97403 | 13229E7459 | | 42 | 1 | |
| 97403 | 13229E7461 | | 34 | 1 | |
| 97403 | 13229E7462 | | 44 | 1 | |
| 97403 | 13229E7478-1 | | 3 | 8 | |
| 97403 | 13229E7478-2 | | 3 | 9 | |
| 97403 | 13229E7479-1 | | 3 | 3 | |
| 97403 | 13229E7479-2 | | 3 | 4 | |
| 97403 | 13229E7479-3 | | 3 3 | 16 | |
| 97403 | 13229E7479-4 | | 3 | 17 | |
| 97403 | 13229E7479-5 | | 3 | 12 | |
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| 97403 | 13229E7480-1 | | 3 | 5 | | |
| 97403 | 13229E7480-2 | | 3 | 18 | | |
| 97403 | 13229E7481 | | 3 | 10 | | |
| 97403 | 13229E7482 | | 4 | 9 | | |
| 97403 | 13229E7483 | | 6 | 4 | | |
| 97403 | 13229E7484-1 | | 5 | 3 | | |
| 97403 | 13229E7484-2 | | 9 | 3 | | |
| 97403 | 13229E7485-1 | | 5 | 4 | | |
| 97403 | 13229E7485-2 | | 5 | 23 | | |
| 97403 | 13229E7485-3 | | 5 | 24 | | |
| 97403 | 13229E7485-4 | | 5 | 25 | | |
| 97403 | 13229E7485-5 | | 5 | 26 | | |
| 97403 | 13229E7485-6 | | 5 | 27 | | |
| 97403 | 13229E7486 | | 5 | 5 | | |
| 97403 | 13229E7487 | | 5 | 7 | | |
| 97403 | 13229E7488-1 | | 6 | 1 | | |
| 97403 | 13229E7488-2 | | 9 | 1 | | |
| 97403 | 13229E7488-3 | | 8 | 1 | | |
| 97403 | 13229E7489 | | 5 | | | |
| 97403 | 13229E7499 | | 8 | 5 | | |
| 97403 | 13229E7491 | | 9 | 6 5 2 2 7 | | |
| 97403 | 13229E7491 | | 8 | 2 | | |
| 97403 | 13229E7492 | | 9 | 7 | | |
| 97403 | 13229E7493 | | 6 | 8 | | |
| 31403 | 1322917494-1 | | 9 | 10 | | |
| 97403 | 13229E7494-2 | | 5 | 2 | | |
| 97403 | 13229E7495-1 | | 6 | 9 | | |
| 97403 | 13229E7495-2 | | 8 | 6 | | |
| 97403 | 13229E7496-1 | | 9 | 8 | | |
| 97403 | 13229E7496-2 | | 8 | 7 | | |
| 97403 | 13229E7497 | | 10 | 3 | | |
| 97403 | 13229E7500 | | 10 | 4 | | |
| 97403 | 13229E7501 | | 10 | 5 | | |
| 97403 | 13229E7502 | | 11 | 1 | | |
| 97403 | 13229E7503 | | 14 | 1 | | |
| 97403 | 13229E7504 | | 14 | 2 | | |
| 97403 | 13229E7505-1 | | 15 | 2 | | |
| 97403 | 13229E7505-2 | | 15 | 2 | | |
| 97403 | 13229E7506-1 | | 15 | 3 | | |
| 97403 | 13229E7506-2 | | 15 | 3 3 | | |
| 97403 | 13229E7507-1 | | 17 | 6 | | |
| 97403 | 13229E7507-2 | | 17 | 4 | | |
| 97403 | 13229E7507-3 | | 17 | 3 | | |
| 97403 | 13229E7507-4 | | 17 | 5 | | |
| 97403 | 13229E7507-5 | | 17 | 8 | | |
| 97403 | 13229E7507-6 | | 17 | 9 | | |
| 97403 | 13229E7507-7 | | 17 | 7 | | |
| 97403 | 13229E7507-8 | | 17 | 2 | | |
| 97403 | 13229E7508 | | 19 | 1 | | |
| 97403 | 13229E7509 | | 18 | 1 | | |
| 97403 | 13229E7514-1 | | 21 | 2 | | |
| 37 700 | 10220210171 | | 21 | 2 | | |

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| 97403 | 13229E7514-2 | | 21 | 3 | |
| 97403 | 13229E7514-3 | | 21 | 4 | |
| 97403 | 13229E7516 | | 42 | 2 | |
| 97403 | 13229E7517 | | 43 | 1 | |
| 97403 | 13229E7518 | | 43 | 2 | |
| 97403 | 13229E7519 | | 43 | 3 | |
| 97403 | 13229E7520 | | 43 | 4 | |
| 97403 | 13229E7521 | | 38 | 26 | |
| 97403 | 13229E7523 | | 34 | 2 | |
| 97403 | 13229E7524 | | 34 | 3 | |
| 97403 | 13229E7526 | | 34 | 4 | |
| 97403 | 13229E7528 | | 34 | 5 | |
| 97403 | 13229E7530 | | 34 | 6 | |
| 97403 | 13229E7531 | | 34 | 7 | |
| 97403 | 13229E7532 | | 13 | 1 | |
| 97403 | 13229E7533 | | 12 | 2 | |
| 97403 | 13229E7534 | | 12 | 4 | |
| 97403 | 13229E7535 | | 14 | 3 | |
| 97403 | 13229E7538-1 | | 19 | 2 | |
| 97403 | 13229E7538-2 | | 19 | 3 | |
| 97403 | 13229E7540-1 | | 17 | 18 | |
| 97403 | 13229E7540-2 | | 17 | 19 | |
| 97403 | 13229E7540-3 | | 17 | 20 | |
| 97403 | 13229E7540-4 | | 17 | 21 | |
| 19738 | 1601-0410 | | 33 | 18 | |
| 19738 | 1601-0613 | | 25 | 10 | |
| 10700 | 1001 0010 | | 38 | 17 | |
| 19738 | 1604-0514 | | 12 | 15 | |
| 19738 | 1604-0615 | | 18 | 3 | |
| 63547 | 175/150/140 | 6650-00-477-9613 | 23 | 1 | |
| 39428 | 1764A25 | | 44 | 2 | |
| 25497 | 17993 | | 33 | 5 | |
| 60887 | 185 FL-M | | 46 | 1 | |
| 39428 | 1877K21 | | 42 | 29 | |
| 28488 | 190 | | 27 | 3 | |
| 06001 | 21CP | | 28 | 12 | |
| 15889 | 2436-46 | | 35 | 1 | |
| 05699 | 312100 | | 13 | 2 | |
| 82121 | 31904LT | | 33 | 6 | |
| 39428 | 35416K22 | | 42 | 34 | |
| 39428 | 3606T19 | | 38 | 21 | |
| 39428 | 3606T33 | | 38 | 20 | |
| 39428 | 3699TII | | 38 | 16 | |
| 39428 | 3699T14 | | 38 | 13 | |
| 39428 | 3699T15 | | 38 | 14 | |
| 39428 | 3699T16 | | 38 | 15 | |
| 81349 | 37TB-10 | | 33 | 8 | |
| 39428 | 3722T17 | | 44 | 5 | |
| 05699 | 4L4-F | | 5 | 22 | |
| 71286 | 40G16-100S | | 31 | 33 | |
| 71286 | 40R12-1 | | 31 | 30 | |
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| 97403 | 40547-6 | | 31 | 32 |
| 30003 | 470AS-C0117-001 | | 27 | 2 |
| 19738 | 4871-0409 | | 31 | 16 |
| 19738 | 4871-0411 | | 31 | 17 |
| 19738 | 4871-0508 | | 10 | 11 |
| 05699 | 5-4-4943 | | 10 | 2 |
| 05699 | 5-4-4964 | | 12 | 3 |
| 84256 | 5-4-4966 | | 17 | 10 |
| 39428 | 5052H32 | | 31 | 38 |
| 39428 | 5061K12 | | 42 | 3 |
| 39428 | 5068K15 | | 42 | 7 |
| 39428 | 5174K3A | | 42 | 9 |
| 39428 | 5174K3B | | 42 | 8 |
| 39428 | 5235K45 | | 42 | 19 |
| 33420 | 32331(43 | | 42 | 20 |
| 39428 | 5241K65 | | 42 | 11 |
| 74545 | 5266-C | | 29 | 5 |
| 39428 | 5321K14 | | 42 | 12 |
| 39428 | 557K64 | | 42 | 21 |
| 05669 | 6L6-F | | 8 | 4 |
| 05699 | 600591-002 | | 6 | 2 |
| 05699 | 600596-001 | | 9 | 5 |
| 05669 | 600597-001 | | 9 | 4 |
| 39428 | 6061-76 | | 31 | 39 |
| 12020 | 610850L-0-02 | | 29 | 2 |
| 39428 | 6815K21 | | 42 | 25 |
| 05699 | 707500-010 | | 3 | 25 |
| 05699 | 707559-3 | | 6 | 3 |
| 39428 | 707339-3 7080K27 | | 42 | 24 |
| 39428 | 7080K27 7080K42 | | 42 | 27 |
| 39428 | 7080K42 7080K43 | | 29 | 4 |
| 39428 | 7080K44 | | 42 | 4 |
| 05699 | 7080144 | | 18 | 2 |
| 05699 | 708113-1 | | 7 | 4 |
| 05699 | 708125-1 | | 7 | 3 |
| 05699 | 708123-1 | | 7 | 1 |
| 05699 | 708130-1 | | 7 | 2 |
| 39428 | 7130K13 | | 42 | 28 |
| 39428 | 7462K11 | | 42 | 5 |
| 28488 | 7402KTT | | 27 | 4 |
| 39428 | 7982997 | | 42 | 32 |
| OAAR4 | 81N2583 | | 28 | 6 |
| 39428 | 8338526 | | 42 | 31 |
| 39428 | 8338561 | | 42 | 10 |
| 39428 | 8568K13 | | 31 | 37 |
| 33420 | 0000113 | | 32 | 5 |
| 39428 | 8568K24 | | 31 | 21 |
| 39428 | 8635K567 | | 11 | 2 |
| 19207 | 8750117 | | 2 | 1 |
| 39428 | 8827K44 | | 42 | 26 |
| 39428 | 90061A017 | | 31 | 20 11 |
| J34Z0 | 90001A017 | | 31 | 11 |

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| 39428 | 90268A029 | | 24 | 6 |
| 39428 | 90730A005 | | 31 | 29 |
| 39428 | 90730A011 | | 31 | 25 |
| 39428 | 91772A113 | | 31 | 23 |
| | | | 31 | 26 |
| 39428 | 91772A242 | | 31 | 19 |
| 94222 | 92-20-305-72 | | 25 | 5 |
| 39428 | 92141A006 | | 31 | 31 |
| 39428 | 92146A005 | | 31 | 28 |
| 39428 | 92146A011 | | 31 | 18 |
| 39428 | 92196A148 | | 27 | 5 |
| 39428 | 9226T392 | | 42 | 35 |
| 39428 | 92470A110 | | 31 | 20 |
| 39428 | 92470A190 | | 31 | 35 |
| 39428 | 9489T19 | | 24 | 4 |
| 39428 | 96480A030 | | 20 | 12 |
| 94222 | 97-50-220-12 | | 38 | 11 |
| 94222 | 97-50-221-12 | | 39 | 2 |
| | | | 40 | 2 |
| | | | 41 | 2 |
| 39428 | 97447A050 | | 44 | 8 |
| 39428 | 97447A105 | | 44 | 7 |
| 39428 | 9752A025 | | 11 | 3 |
| 39428 | 98019A109 | | 31 | 27 |
| 39428 | 98019A125 | | 31 | 24 |
| 39428 | 98306A173 | | 20 | 13 |
| 39428 | 98320AD07 | | 38 | 22 |
| 39428 | 98804A029 | | 24 | 5 |
| 39428 | 98813A029 | | 31 | 10 |

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| 1 | 1 | | 97403 | 13229E7370 |
| 2 | 1 | | 19207 | 8750117 |
| 3 | 1 | | 97403 | 13229E7371 |
| 3 | 2 | | 05699 | 707500-010 |
| 3 | 3 | | 97403 | 13229E7479-1 |
| 3 | 4 | | 97403 | 13229E7479-2 |
| 3 | 5 | | 97403 | 13229E7480-1 |
| 3 | 6 | | 88044 | AN8C20A |
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| 3 | 8 | | 97403 | 13229E7478-1 |
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| 3 | 13 | | 88044 | AN960C816L |
| 3 | 14 | | 96906 | MS35338-143 |
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| 3 | 20 | | 96906 | MS35337-83 |
| 3 | 21 | | 84256 | AP520-524 |
| 3 | 22 | | 88044 | AN5C7A |
| 3 | 23 | | 84256 | AP515-524 |
| 4 | 1 | | 97403 | 13229E7376 |
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| 4 | 3 | | 84256 | AP515-428 |
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| 4 | 6 | | 96906 | MS35338-139 |
| 4 | 7 | | 96906 | MS35307-357 |
| 4 | 8 | | 96906 | MS35338-141 |
| | 9 | | | 13229E7482 |
| 4 | | | 97403 | |
| 4 | 10 | | 05699 | A-A-2129 TYPE 1 |
| 4 | 11 | | 81349 | ML-1683 |
| 4 | 12 | | 81349 | MI-623 |
| 4 | 13 | | 81349 | ML-1251 |
| 5 | 1 | | 97403 | 13229E7377 |
| 5 | 2 | | 97403 | 13229E7494-2 |
| 5 | 3 | | 97403 | 13229E7484-1 |
| 5 | 4 | | 97403 | 13229E7485-1 |
| 5 | 5 | | 97403 | 13229E7486 |
| 5 | 6 | | 97403 | 13229E7489 |
| 5 | 7 | | 97403 | 13229E7487 |
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| 5 | 9 | | 88044 | AN960C416 |
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| 7 | 6 | | 96906 | MS16562-213 |
| 8 | 1 | | 97403 | 13229E7488-3 |
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| 8 | 3 | | 80205 | NAS561SF-8-20 |
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| 8 | 5 | | 97403 | 13229E7490 |
| 8 | 6 | | 97403 | 13229E7495-2 |
| 8 | 7 | | 97403 | 13229E7496-2 |
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| 9 | 1 | | 97403 | 13229E7488-2 |
| 9 | 2 | | 97403 | 13229E7491 |
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| | 3 4 | | 05669 | 600597-001 |
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| 9 | 7 | | 97403 | 13229E7493 |
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| 10 | 5 | | 97403 | 13229E7501 |
| 10 | 6 | | 96906 | MS35338-139 |
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| 10 | 8 | | 84256 | AP515-428 |
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| 11 | 1 | | 97403 | 13229E7502 |
| 11 | 2 | | 39428 | 8635K567 |
| 11 | 3 | | 39428 | 9752A025 |
| 12 | 1 | | 97403 | 13229E7379 |
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| 12 | 7 | | 84256 | AP515-428 |
| 12 | 8 | | 88044 | AN4C7A |
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| 12 | 10 | | 96906 | MS35338-140 |
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| 29 | 2 | | 12020 | 610850L-0-0-02 |
| 29 | 3 | 5930-00-655-1514 | 96906 | MS35058-22 |
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| 33 | 7 | | 25497 | 08470 |
| 33 | 8 | | 81349 | 37TB-10 |
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| 33 | 10 | | OFCK2 | LJ-182432-B |
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| 33 | 20 | 5925-01-042-0109 | 81348 | WC375/01-002 |
| 33 | 21 | 5925-00-465-4021 | 56303 | Q0T1515 |
| 33 | 22 | 5925-01-021-5222 | 81487 | Q0120GFI |
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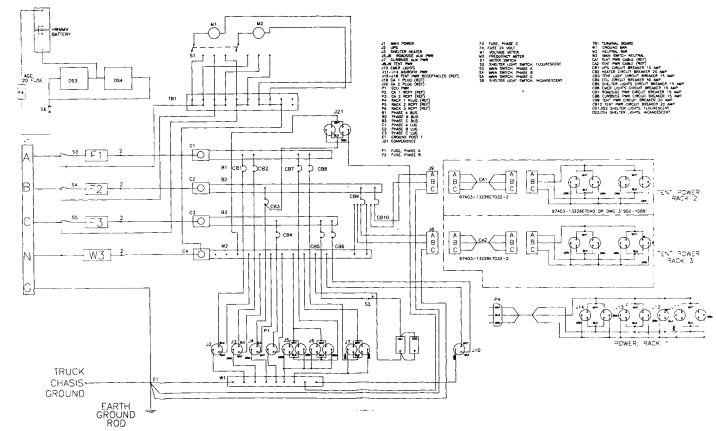
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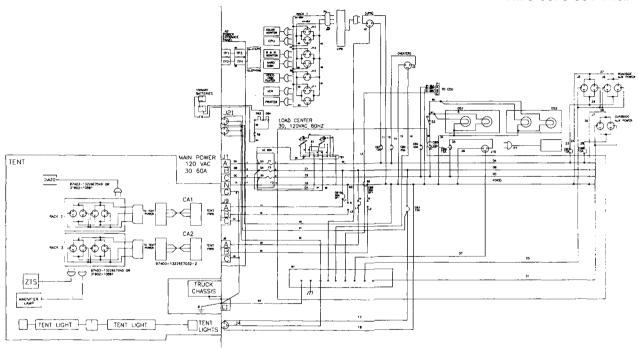
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TM 5-6675-331-14&P



FO-1. DDSS POWER SCHEMATIC FP-1/(FP-2 BLANK)

TM 5-6675-331-14&P



FO-2. WIRING DIAGRAM, ELECTRICAL FP-3/(FP-4 BLANK)

GORDON R. SULLIVAN General, United States Army

Chief of Staff

By Order of the Secretary of the Army:

Official: Mitte of dunto

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

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PREVIOUS EDITIONS ARE OBSOLETE.

P.S.-IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

THE METRIC SYSTEM AND EQUIVALENTS

Linear Measure

1 centimeter = 10 millimeters = .39 inch 1 decimeter = 10 centimeters = 3.94 inches 1 meter = 10 decimeters = 39.37 inches 1 dekameter = 10 meters = 32.8 feet 1 hectometer = 10 dekameters = 328.08 feet 1 kilometer = 10 hectometers = 3.2808.8 feet

Weights

1 centigram = 10 milligrams = .15 gram 1 decigram = 10 centigrams = 1.54 grains 1 gram = 10 decigram = .035 ounce 1 dekagram = 10 grams = .35 ounce 1 hectogram = 10 dekagrams = 3.52 ounces 1 kilogram = 10 hectograms = 2.2 pounds 1 quintal = 100 kilograms = 220.46 pounds 1 metric ton = 10 quintals = 1.1 short tons

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu in. 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Square measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. in.
1 sq. decimeter = 100 sq. centimeters = 15.5 inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 feet
1 sq. dekameter (are) = 100 sq. meters = 1.076.4 sq. ft.
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres

Liquid Measure

1 sq. kılometer = 100 hectometers = .386 sq. mıles

1 dekaliter = 10 liters = 2.64 gallons 1 hectoliter = 10 dekaliters = 26.42 gallons 1 kiloliter = 10 hectoliters = 264.18 gallons 1 liter = 10 deciliters = 33.81 fl. ounces 1 centiliter = 10 milliliters = .34 fl. ounce 1 deciliter = 10 centiliters = 3 38 fl. ounces 1 metric ton = 10 quintals = 1.1 short tons

Approximate Conversion Factors

| To change | То | Multiply by | To change | То | Multiply by |
|--------------|-----------------|-------------|-----------------|---------------|-------------------|
| inches | centimeters | 2.540 | ounce inches | newton-meters | .0070062 |
| feet | meters | .305 | centimeters | ınches | .394 |
| yards | meters | .914 | meters | feet | 3.280 |
| miles | kilometers | 1.609 | meters | yards | 1.094 |
| sq. inches | sq. centimeters | 6.451 | kılometers | miles | .621 |
| sq. feet | sq. meters | .093 | sq. centimeters | sq. inches | .155 |
| sq. yards | sq. meters | .836 | sq. meters | sq. yards | 10.764 |
| sq. miles | sq. kılometers | 2.590 | sq. kilometers | sq. miles | 1.1 96 |
| acres | sq. hectometers | .405 | sq. hectometers | acres | 2.471 |
| cubic feet | cubic meters | .028 | cubic meters | cubic feet | 35.315 |
| cubic yards | cubic meters | .765 | milliliters | fluid ounces | .034 |
| fluid ounces | milliliters | 29.573 | liters | pints | 2.113 |
| pints | liters | .472 | liters | quarts | 1.057 |
| quarts | liters | .946 | grams | ounces | .035 |
| gallons | liters | 3.785 | kılograms | pounds | 2.205 |
| ounces | grams | 28.349 | metric tons | short tons | 1.102 |
| pounds | kilograms | .454 | pound-feet | newton-meters | 1.356 |
| short tons | metric tons | .907 | - | | |
| pound inches | newton-meters | .11296 | | | |

Temperature (Exact)

PIN: 071922-000