

TM 9-4940-578-13&P

TECHNICAL MANUAL

OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR

ARMAMENT REPAIR SHOP SET (ARSS) NSN 4940-01-619-0916



DISTRIBUTION STATEMENT A – Approved for public release; distribution is unlimited.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
15 JUNE 2014**

WARNING SUMMARY

INTRODUCTION

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous materials icons used within the technical manual.

FIRST AID

For first aid, refer to FM 4-25.11, First Aid. For hazardous materials, refer to the label or Material Safety Data Sheet (MSDS).

EXPLANATION OF SAFETY WARNING ICONS



ELECTRICAL- electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



HEAVY OBJECT - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



HEAVY PARTS - foot with heavy object on top shows that heavy parts can crush and harm.



HEAVY PARTS - hand with heavy object on top shows that heavy parts can crush and harm.



HEAVY PARTS - heavy object on human figure shows that heavy parts present a danger to life or limb.



FALLING PARTS - Arrow bouncing off human shoulder and head shows that falling parts present a danger to life or limb.

WARNING SUMMARY - CONTINUED

EXPLANATION OF SAFETY WARNING ICONS - Continued



HEAVY PARTS - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.



FLYING PARTICLES - arrows bouncing off face show that particles flying through the air will harm face.



HOT AREA - hand over object radiating heat shows that part is hot and can burn.



CRYOGENIC - Hand in block of ice shows that material is extremely cold and can injure human skin or tissue.



EYE PROTECTION - person with goggles shows that the material will injure the eyes.



MOVING PARTS - hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.



SLICK FLOOR - Wavy line on floor with legs prone shows that slick floor presents a danger for falling.



HELMET PROTECTION - Arrow bouncing off head with helmet shows that falling parts present danger.



HEARING PROTECTION - Headphones over ears shows that noise level will harm ears.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS

WARNING



- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

WARNING



To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

WARNING

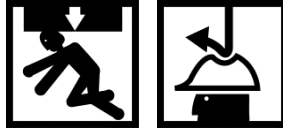


To avoid personal injury, lifting and extending/retracting ramp requires four personnel to perform. Always lift with knees and be careful of pinching extremities. Ramp could fall and crush personnel. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this warning may cause injury or death.

WARNING



Ensure inner tubes of support struts are supported when disengaging from stowage brackets. Wear head protection at all times to prevent head injury. Inner tubes could extend out unexpectedly and injure personnel. Failure to follow this warning may cause injury.

WARNING



Each workbench weighs 275 lb (125 kg). Use two or more personnel when moving workbenches. Workbenches can shift or come loose during movement and strike personnel. Always ensure workbenches are locked in place with floor lock when not moving. Failure to follow this warning may cause injury or death.

WARNING

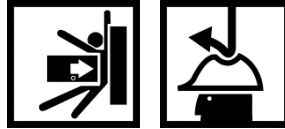


The drill press weighs 160 lb (73 kg). Do not attempt to lift drill press without the aid of another person or suitable lifting device. All personnel must stand clear during lifting operation. The drill press could swing or shift during removal. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



Ensure proper care is taken when lowering shelter ceiling/roof. Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Wear head protection at all times to prevent head injury. Personnel may get caught between shelter ceiling/roof. Failure to follow this warning may cause injury or death.

WARNING



Steer clear of sides of hinged floor during sidewall placement. Dirt and debris could become airborne and cause injury to personnel. Keep all hands and fingers off hinge floor when dropping sidewall. Sidewall could come down and pinch hands and fingers. Failure to follow this warning may cause injury.

WARNING

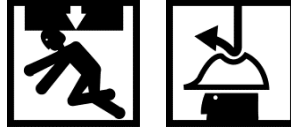


Allow generator to cool before operating or performing maintenance on exhaust pipe. Hot components may burn personnel. Failure to follow this warning may cause injury.

WARNING



In extreme cold, wear protective cold weather clothing to prevent cold stress injury. Ensure necessary provisions are taken for keeping hands warm for fine work. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED**GENERAL SAFETY WARNING DESCRIPTIONS - Continued****WARNING**

To avoid injury when expanding or closing hinged sidewall in high winds, use six personnel. Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Wear head protection at all times to prevent head injury. Personnel may get caught between shelter ceiling/roof. Failure to follow this warning may cause injury or death.

WARNING

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

WARNING

Ensure shore power cable (EXT power) is disconnected prior to beginning work. Failure to take this precautionary step could result in accidental electrocution. Failure to follow this warning may result in injury or death.

WARNING

The ECU weighs 560 lb (205 kg). Use three personnel when moving ECU. All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Do not allow the ECU to tilt on lifting device. ECU may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



The generator weighs 1,550 lb (703 kg). All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Wear head protection at all times to prevent head injury. Do not allow the generator to swing while hanging by lifting device. Generator may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

WARNING



The storage rack weighs approximately 200 lb (90.7 kg). All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Do not allow the storage rack to swing while hanging by lifting device. Wear head protection at all times to prevent head injury. Storage rack may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

WARNING



Ensure fingers are clear of ECU opening in wall during installation. ECU slides into wall opening and could pinch fingers. Failure to follow this warning may cause injury.

WARNING



DO NOT touch heat-shrinkable tubing for at least 30 seconds after heating. Heat-shrinkable tubing is hot and may cause burns. Failure to follow this warning may result in injury.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



The workbench weighs 275 lb (125 kg) and can tip when not supported on all four casters. Ensure workbench is supported on side where caster is being replaced. Workbench could tip and crush or pinch personnel. Failure to follow this warning may result in injury or death.

WARNING



Ensure power is off to equipment before performing maintenance. Equipment could activate if still turned on and injure personnel. Failure to follow this warning may result in injury or death.

WARNING



Tool cabinets A, B, and C weigh 180 lb (81 kg). Do not attempt to lift tool cabinets without the aid of two other people or suitable lifting device. Use additional personnel if needed. All personnel must stand clear during lifting operation. Tool cabinets could swing or shift during removal. Failure to follow this warning may cause injury or death.

WARNING

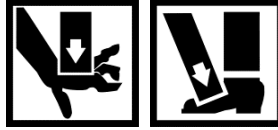


The ammo cabinet weighs 505 lb (229 kg) and can tip when not supported on all four casters. Ensure ammo cabinet is supported on side where caster is being replaced. Ammo cabinet could tip and crush or pinch personnel. Failure to follow this warning may result in injury or death.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



Compressed gas cylinder weighs 115 lb (52 kg). Do not attempt to lift compressed gas cylinder without aid of another person. Compressed gas cylinder can crush or pinch extremities. Failure to follow this warning may result in injury or death.

WARNING



When performing lubrication, remove any excess lubricant to prevent personnel from slipping or falling while stepping on or off the equipment. Failure to follow this warning may cause injury.

WARNING

When using a ladder, always climb using a three-point grip; either two hands and one foot or one hand and two feet should be on the ladder at all times. Have a person on the ground spotting you and holding the ladder firmly in place. Failure to follow this warning may cause injury.

WARNING

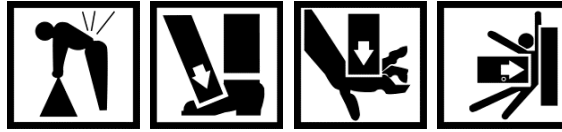


The generator slide weighs 120 lb (54 kg). Do not attempt to lift generator without the aid of two other people or suitable lifting device. All personnel must stand clear during lifting operation. The generator slide could swing or shift during removal. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED

GENERAL SAFETY WARNING DESCRIPTIONS - Continued

WARNING



Tool cabinet D weighs 249 lb (113 kg). Do not attempt to lift tool cabinet D without the aid of two other people or suitable lifting device. Use additional personnel if needed. All personnel must stand clear during lifting operation. Tool cabinet D could swing or shift during removal. Failure to follow this warning may cause injury or death.

WARNING



Ensure proper safety measures are taken during extremely hot and humid weather. Seek medical attention immediately if any of the following occur: weakness, dizziness, trouble breathing, painful muscle cramps, rapid pulse, pale skin, or weak pulse. Reference FM 4-25.12 for proper work, rest, and water consumption cycle during extreme heat. Failure to follow this warning may cause injury or death.

WARNING



Ensure all personnel inside ARSS wear hearing protection when machinery is being operated to prevent against potential noise hazards. Failure to follow this warning may cause injury.

WARNING SUMMARY - CONTINUED

EXPLANATION OF HAZARDOUS MATERIAL ICONS



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition or high pressure.



FIRE - flame shows that a material may ignite and cause burns.

HAZARDOUS MATERIALS WARNING DESCRIPTIONS

WARNING



- Cleaning solvent is TOXIC and flammable. Wear protective goggles and gloves and use only in well-ventilated area. Avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I cleaning solvent is 100°F (38°C) and for Type II it is 138°F (59°C).
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get immediate medical attention.

Failure to follow these warnings may cause injury or death.

WARNING SUMMARY - CONTINUED

HAZARDOUS MATERIALS WARNING DESCRIPTIONS - Continued

WARNING



Sealing compound causes immediate bonding on contact with eyes, skin, or clothing and also gives off harmful vapors. Wear protective goggles and gloves and use in well-ventilated area. If sealant gets in eyes, try to keep eyes open. Flush eyes with water for 15 minutes and get immediate medical attention. Failure to follow this warning may cause injury or death.

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Original 15 JUNE 2014

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HEADQUARTERS, DEPARTMENT OF THE ARMY
Washington, D.C., 15 JUNE 2014

TECHNICAL MANUAL

**OPERATOR AND FIELD MAINTENANCE MANUAL
INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
ARMAMENT REPAIR SHOP SET (ARSS)
NSN 4940-01-619-0916**

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HOW TO USE THIS MANUAL

GENERAL

This manual has been prepared and illustrated to provide maintenance information required to support the Armament Repair Shop Set (ARSS). Tasks are noted at the beginning of each authorized Work Package (WP). To locate a work package in the manual quickly, check the table of contents in the front of the manual. The following is a guide to using this manual for its intended purpose.

ILLUSTRATIONS

Illustrations are used throughout this manual. Text is keyed to the illustrations by use of numbered callouts. When an item is called out in a work package, a number in parentheses in the text corresponds with a number on the illustration. In addition, exploded views and cut-away diagrams make the information in the manual easier to understand and follow.

USING THIS MANUAL

When using this manual, read and understand the entire maintenance action before performing the task. Also, read and understand all warnings, cautions, and notes as well as general safety precautions that apply to the task to be performed. The warning summary will inform personnel of hazards associated with the equipment to be worked on. However, the summary is not all-inclusive and personnel should be aware at all times of hazardous conditions that may arise.

ACCESSING INFORMATION

This manual is organized to help you quickly find the information you need.

Table of Contents. The table of contents lists, in the order of presentation, all chapters, work packages, alphabetical index, and gives the work package sequence numbers.

LISTS

Metric/US Standard Measurement Chart. Measurements in this manual are given in both metric and U.S. standard units. The table inside the back cover compares metric measurements to their equivalent U.S. standard units. Also provided are conversion factors to convert metric units to U.S. standard units.

List of Abbreviations. An alphabetical list of abbreviations used in the manual is located in (WP 0001).

HOW TO USE THIS MANUAL - Continued

WORK PACKAGES

This TM has been organized using a concept called Work Packages (WPs). Each chapter contains a series of WPs rather than sections and paragraphs. Ideally, each WP is designed to stand alone as a complete module of information; however sometimes a WP will reference out to another WP in order to avoid copying the same information many times in the TM.

- Each WP is numbered sequentially throughout the TM using a four-digit number. Go to the Table of Contents and you will see that the very first WP is numbered "0001". The second WP is numbered "0002".
- A decimal point system is used whenever it might be necessary to add a new WP in between already prepared WPs. For example if a new WP needed to be inserted between WP 0014 and WP 0015, the new WP would be numbered "0014.1".
- The WP number is located at the top of each WP page (similar to the paragraph numbers you have seen in other TMs). It is also located at the bottom of each WP page as part of the WP page number. For example, the page number for the first page of the second WP of this TM is 0002-1.
- If you look at a few WPs you will notice that each WP starts with the number 1 as shown above. Each WP starts on a right hand page. This was done so you can remove a single WP from your paper TM if needed for a particular task.
- While using the TM, one WP may refer you to another WP (e.g. WP 0008 refers to "Extend Generator (WP 0010)"). Turn to the referenced WP, complete the requested task (you may need to flip through the WP to find the task), then return to the original WP and continue with the task.

WARNINGS, CAUTIONS, AND NOTES

Warnings are provided where injury may occur to personnel on or near the system. A warning is used to alert the user to hazardous operating and maintenance procedures, practices, conditions, statements, etc., that may result in injury to or death of personnel if not strictly observed. Warnings are preceded by the word WARNING and icons.

A Caution is used to alert the user to hazardous operating or maintenance procedures, practices, conditions, statements, etc., that may result in damage to or destruction of equipment or to mission effectiveness if not strictly observed. Cautions are provided where equipment may be damaged but no personnel injury should result. Cautions are preceded by the word CAUTION.

Notes provide helpful information to operate or maintain the equipment, but there is no danger of equipment damage or personnel injury. Notes are preceded by the word NOTE.

LOCATING MAJOR COMPONENTS

Refer to the Table of Contents located in the front of this manual. Find Chapter 1, General Information, Equipment Description, and Theory of Operation. Under the chapter title you will find the work package titled Equipment Description and Data. Turn to the work package indicated. This work package will give a brief description of the major components, and show an illustration of what the component looks like and its location.

HOW TO USE THIS MANUAL - Continued

INITIAL SETUP

Each task begins with an initial setup. It tells you what you need to do the task: tools, materials, parts, and other publications. It tells you what must be done to the equipment before you begin the task and provides general safety instructions. There are six basic headings listed under INITIAL SETUP:

Test Equipment. Lists all test equipment (standard or special) required to troubleshoot, test, and inspect the equipment covered in this manual. The test equipment is identified with an item number and work package number from the Maintenance Allocation Chart, located in Chapter 7, Supporting Information.

Tools and Special Tools. Lists all tools (standard or special) required to perform the task. Tools are identified with an item number and work package number from the Tool Identification List, located in Chapter 7, Supporting Information.

Materials/Parts. Lists all parts or materials necessary to perform the task. Expendable and durables are identified with an item number from the applicable work package located in Chapter 7, Supporting Information.

Personnel Required. Lists all personnel necessary to perform the task. There will be two Military Occupational Specialty (MOS) designations and non-specific personnel that will be used to complete tasks in this manual.

- Small Arms/Artillery Repairer – 91F
- Wheeled Vehicle Mechanic – 91B
- Non-Specific MOS

References. Includes any other publications, WPs, or information necessary to complete the task. When there are no references listed, all steps necessary to complete the task are contained within the task. A listing of reference materials is contained in the work package in Chapter 7, Supporting Information.

Equipment Condition. Notes the conditions that must exist before starting the task. The equipment condition will also include any prerequisite maintenance tasks to be performed with reference to the work package number or to the Technical Manual (TM) number.

TROUBLESHOOTING PROCEDURES

To locate a particular troubleshooting procedure, turn to the Table of Contents in the front of this manual. Locate Chapter 3, Troubleshooting Procedures. Under these sections, find a work package titled Troubleshooting Index. Turn to the work package indicated, which is the index for all malfunctions/symptoms and associated troubleshooting procedures. Look down the list until you find the appropriate malfunction/symptom for the problem you are trying to resolve. To the right of the malfunction/symptom will be a work package page number. Turn to the work package page number indicated and follow the steps to complete the troubleshooting procedure. The corrective action will indicate which maintenance procedure (work package) to reference for the repair of the malfunction/symptom. Follow the procedures indicated to complete the task. Identify the test equipment, tools, material/parts, equipment condition, and references required to perform the task listed at the top of the work package in the INITIAL SETUP.

HOW TO USE THIS MANUAL - Continued

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

The PMCS table can be described as periodic inspection and maintenance at scheduled intervals to ensure that the equipment and its components remain mission capable and in good operating condition. This chapter explains how to inspect important components and what makes the equipment or component ready and/or available for mission readiness.

MAINTENANCE PROCEDURES

To locate a maintenance procedure, open the manual to the Table of Contents located in the front of this manual. Locate the chapter, which pertains to your level of maintenance; Chapter 4 and 5 for Field Maintenance Instructions. Look down the list and find the maintenance procedure to be accomplished. On the right side of the maintenance procedure will be a work package number. Turn to the work package indicated. Before beginning the maintenance task, look through the procedure to familiarize yourself with the entire maintenance procedure. Identify the test equipment, tools, material/parts, personnel required, equipment condition, and references required to perform the task listed at the top of the work package in the INITIAL SETUP.

REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

Refer to Chapter 6, Repair Parts and Special Tools when requisitioning parts, special tools and equipment. Identify the mandatory repair parts required to perform the task listed at the top of the work package in the INITIAL SETUP. Using the work package and item numbers identified, you will be able to locate the SMR Code, NSN, CAGEC, the part number and quantity of items required for repair. Using the item number, locate the repair part within the associated figure.

MAINTENANCE ALLOCATION CHART (MAC)

Contains equipment group number, component or assembly name, maintenance function (service, repair, replacement, inspection, or tests), maintenance level, tools and equipment, and remarks (any helpful information to help you get the job done right).

REFERENCES

The References work package lists all forms, field manuals, technical manuals, and miscellaneous publications referenced in the manual and/or required for operation and maintenance of the equipment.

EXPENDABLE AND DURABLE ITEMS LIST

Contains a list of expendable/durable supplies and materials you will need to operate and maintain the ARSS.

TOOL IDENTIFICATION LIST

Lists all common tools and supplements and special tools/fixtures needed to maintain the ARSS.

CHAPTER 1

**GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND
THEORY OF OPERATION
FOR
ARMAMENT REPAIR SHOP SET
(ARSS)**

GENERAL INFORMATION

SCOPE

This technical manual includes operating and maintenance instructions for the Armament Repair Shop Set (ARSS).



Figure 1. Armament Repair Shop Set (ARSS).

Type of Manual:

Operator and Field Maintenance Manual Including Repair Parts and Special Tools List.

Equipment Name and Model Number:

Armament Repair Shop Set (ARSS), P/N 11A7000000, CAGEC 5B5M3, NSN 4940-01-619-0916.

Purpose of Equipment:

The Armament Repair Shop Set (ARSS) is a self-contained, tactical, one-sided expandable repair shop shelter, mounted on a 7-1/2 ton trailer that is transported by a 5-ton vehicle or larger. The shelter provides ample work space and armament tool set (SC4940-95-A70). The shelter also contains a Mobile Electric Power (MEP) generator for shop power, as well as an Environmental Control Unit (ECU) or Improved Environmental Control Unit (IECU), producing an environmentally controlled interior. It will provide operator and field level maintenance for armament weapon systems. The ARSS is designed to operate in a wide variety of climate conditions.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your ARSS needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance. All non-Aviation/Missile EIRs and PQDRs must be submitted through the Product Data Reporting and Evaluation Program (PDREP) Web site. The PDREP site is: <https://www.pdrep.csd.disa.mil/>. If you do not have Internet access, you may submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 using email, regular mail, or fax using the addresses/fax numbers specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel 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 SF 368, Product Quality Deficiency Report. Use of keywords such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem.

SF 368 should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE

Refer to TM 750-244-3 for procedures concerning destruction of the ARSS to prevent enemy use.

PREPARATION FOR SHIPPING OR STORAGE

Refer to WP 0007 and WP 0008 for further preparation for shipping or storage instructions.

NOMENCLATURE CROSS-REFERENCE LIST

| <u>Common Name</u> | <u>Official Nomenclature</u> |
|----------------------------|--------------------------------------|
| Environmental Control Unit | Air Conditioner, Horizontal, Compact |

LIST OF ABBREVIATIONS/ACRONYMS

| <u>Abbreviation/Acronym</u> | <u>Name</u> |
|-----------------------------|---------------------------------------|
| AMP | Amperage |
| ANSI | American National Standards Institute |
| AR | Army Regulation |
| ARSS | Armament Repair Shop Set |
| BII | Basic Issue Item |
| BOI | Basis of Issue |
| C | Celsius |
| CAC | Common Access Card |
| CAGEC | Commercial and Government Entity Code |
| CB | Circuit Breaker |
| cm | Centimeter |
| COEI | Component of End Item |
| CPC | Corrosion Prevention and Control |
| DA | Department of the Army |
| DOD | Department of Defense |
| DSN | Defense Switched Network |
| ECU | Environmental Control Unit |
| EDIL | Expendable and Durable Items List |
| EIC | End Item Code |
| EIR | Equipment Improvement Recommendation |
| EMT | Electrical Metallic Tubing |
| EXT | External |
| F | Fahrenheit |
| FGC | Functional Group Code |
| FIG | Figure |
| FM | Field Manual |

LIST OF ABBREVIATIONS/ACRONYMS - Continued

| <u>Abbreviation/Acronym</u> | <u>Name</u> |
|------------------------------------|--|
| Ft-lb | Foot-pound |
| GFI | Government Furnished Information |
| HCl | Hydrogen Chloride |
| Hz | Hertz |
| IAW | In Accordance With |
| IECU | Improved Environmental Control Unit |
| in. | Inch |
| INT | Internal |
| ISO | International Organization for Standardization |
| kg | Kilogram |
| kW | Kilowatt |
| LAN | Local Area Network |
| lb | Pound |
| LMI | Lead Material Integrator |
| M | Meter |
| MAC | Maintenance Allocation Chart |
| MEP | Mobile Electric Power |
| MIN | Minimum |
| mm | Millimeter |
| MOS | Military Occupational Specialty |
| MSDS | Material Safety Data Sheet |
| MTOE | Modified Table of Organization and Equipment |
| N·m | Newton metre |
| NHA | Next Higher Assembly |
| NIIN | National Item Identification Number |
| No. | Number |
| NSN | National Stock Number |
| PDB | Power Distribution Box |
| PDREP | Product Data Reporting and Evaluation Program |
| PMCS | Preventive Maintenance Checks and Services |
| PM | Product Manager |
| P/N | Part Number |
| PQDR | Product Quality Deficiency Report |
| QTY | Quantity |
| RH | Right Hand |
| ROD | Report of Discrepancy |
| RPSTL | Repair Parts and Special Tools List |
| SEP | Signal Entry Panel |
| SF | Standard Form |
| SKOT | Sets, Kits, Outfits & Tools |
| SMR | Source, Maintenance and Recoverability |
| SOP | Standard Operating Procedures |
| SRA | Specialized Repair Activity |
| TAMMS | The Army Maintenance Management System |
| TB | Technical Bulletin |
| TIL | Tool Identification List |
| TM | Technical Manual |
| TOE | Table of Organization and Equipment |
| TULSA | TACOM Unique Logistics Support Applications |
| U/I | Unit of Issue |
| UOC | Usable On Code |
| UUT | Unit Under Test |
| V | Variable |
| VAC | Voltage Alternating Current |
| WP | Work Package |

QUALITY OF MATERIAL

Material used for replacement, repair, or modification must meet the requirements of this technical manual. If qualities of material requirements are not stated in this technical manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

SAFETY, CARE, AND HANDLING

Safe and efficient armaments repair depend on the observance of well-established safety practices and a thorough knowledge of operating procedures. Observe all warnings, safety precautions, and safety regulations in this manual. Strict observance of established safety, care, and handling procedures will allow personnel to perform their duties in a safe and hazard-free environment.

Many cleaning and bonding agents are used in the repair procedures of the ARSS. Inhalation of the vapors can be toxic if inhaled in large amounts. Prolonged use of these materials without protection can cause skin irritation. Refer to FM 4-25.11 for first aid information.

1. **General Precautions.** The following are general safety precautions that need to be observed by all operators of the ARSS:
 - Always be mindful of others inside the shelter. Never allow horseplay or loud talking that would divert the attention of repairmen.
 - Whenever in doubt concerning any operation, consult supervisor for advice.
 - Be prepared for any emergencies that may arise, and be familiar with the proper action to take in event of emergencies.
 - When ending daily operations, make a thorough and orderly check of work room, equipment, and facilities to ensure that no hazards may develop during the time the work room is unattended.
2. **Extinguishing Fires.** The following safety precautions need to be observed by all personnel when attempting to extinguish fires with the ARSS:
 - Do not smoke in the ARSS.
 - Be familiar with procedures for fighting fires and with the fire extinguishing equipment.
 - Do not use water for extinguishing oil fires because it will spread the fire. Water and foam are conductors of electricity and should not be used on electrical fires.
3. **Controlling Fumes.** The following safety precautions are presented to aid operators of the ARSS in controlling toxic fumes:
 - Make sure ARSS is properly vented at all times.
 - Perform all preventive maintenance checks and service as stated in this TM prior to operating.
4. **Electrical Safety.** The following electrical safety precautions apply to all operator personnel for the ARSS:
 - Ensure ARSS is grounded before operation.
 - Do not operate near electrically charged areas.

SPECIAL INSTRUCTIONS FOR ADMINISTRATIVE STORAGE

Please contact PM-SKOT usarmy.detroit.peo-cs-css.mail.pm-skot@mail.mil or TACOM Packaging tacom-lcmc.ilsc_packaging@mail.mil for all ARSS shipping and storage and special packaging instructions.

END OF WORK PACKAGE

**FIELD MAINTENANCE
EQUIPMENT DESCRIPTION AND DATA**

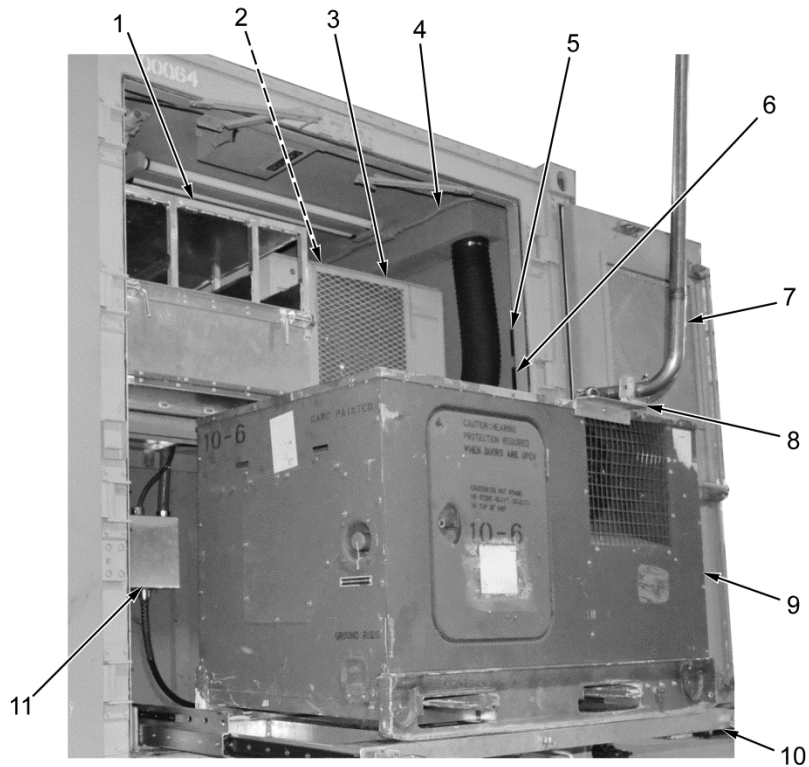
EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**EQUIPMENT DESCRIPTION**

The Armament Repair Shop Set (ARSS) is a tactical one-sided expandable shelter, mounted on a 7-1/2 ton trailer that contains a Mobile Electric Power (MEP) generator for shop power, an Armament Tools Set (SC4940-95-A70), and an Environmental Control Unit (ECU) or Improved Environmental Control Unit (IECU). The ARSS provides a field/sustainment level maintenance and repair support platform for armament weapon systems to support units across the full spectrum of military operations. The ARSS provides the capability to support maintenance operations as far forward as possible on the battlefield by providing on-system maintenance repairs to weapon systems and/or components, which allows major combat systems to return to the fight rapidly.

CAPABILITIES AND FEATURES:

- Provides the capability to support maintenance operations forward by providing on-system maintenance repairs to weapon systems and/or components.
- Trailer mounted for easy transportability.
- Simple and fast deployment.
- All weather operation.
- Environmentally controlled interior.
- Rigid wall construction.
- Contains a Mobile Electric Power (MEP) generator for shop power.
- Contains an Environmental Control Unit (ECU) or Improved Environmental Control Unit (IECU).

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS



ARSS0079

Figure 1. ARSS Exterior Components (Front).

Table 1. ARSS Exterior Components (Front).

| Item | Component | Description |
|------|--|--|
| 1 | Storage Rack | Provides storage for ladders required to setup shelter and threshold plate. |
| 2 | Mechanical Room Pull Box | A junction box mounted on the wall above the ECU/IECU. |
| 3 | Environment Control Unit (ECU) or Improved Environmental Control Unit (IECU) | Provides heating and cooling for the shelter. |
| 4 | ECU Air Duct (Mechanical Room) | The ECU Air Duct is designed to bring in fresh air from vent in modified closeout panel. |
| 5 | Mechanical Room Light Switch | Mounted on the right wall in the mechanical room. Switch mechanical room light fixture ON and OFF. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued

Table 1. ARSS Exterior Components (Front) - continued.

| | | |
|----|-----------------------------------|--|
| 6 | Mechanical Room Electrical Outlet | A wall socket power source mounted on the shelter wall in the mechanical room, used to power electrical equipment and components. |
| 7 | Generator Exhaust | Cam-and-Groove coupling exhaust pipe installed on the generator designed to carry carbon monoxide away and above the shelter, allowing minimal noise, smoke, and pollution transmitted to the environment. |
| 8 | Exhaust Clamp | T- Bolt exhaust clamp used to secure exhaust pipe onto generator. |
| 9 | Generator | Mounted at the double door side of the shelter. The generator supplies the shelter with 10 kW and 60 Hz power. |
| 10 | Generator Slide Assembly | The generator slide assembly provides sliding mechanism for servicing, maintaining, removal, and installation of the 10 kW generator. |
| 11 | Mechanical Room Electrical Box | A box mounted on the wall in the mechanical room with the wiring conduit for the generator and the ECU/IECU connected. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued



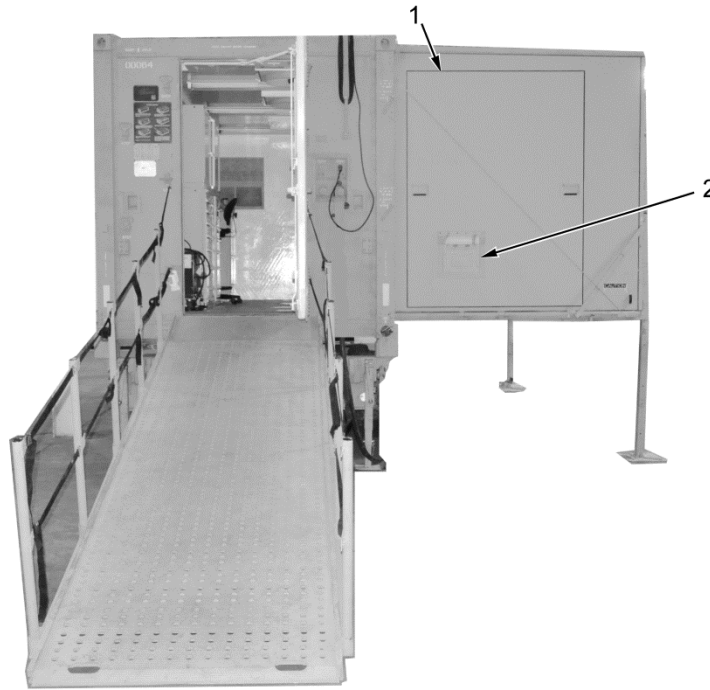
ARSS0080

Figure 2. ARSS Exterior Components (Driver Side).

Table 2. ARSS Exterior Components (Driver Side).

| Item | Component | Description |
|------|-------------------------|--|
| 1 | Modified Closeout Panel | Designed to vent in fresh air to the ECU/IECU through the ECU air duct. |
| 2 | Ramp | 4 foot x 14 foot ramp with removable guardrail posts, strapping, and threshold plate. Removable ramp is located in the rear of the shelter to provide access in and out of the shelter. Threshold plate is stored in storage rack when not in use. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued



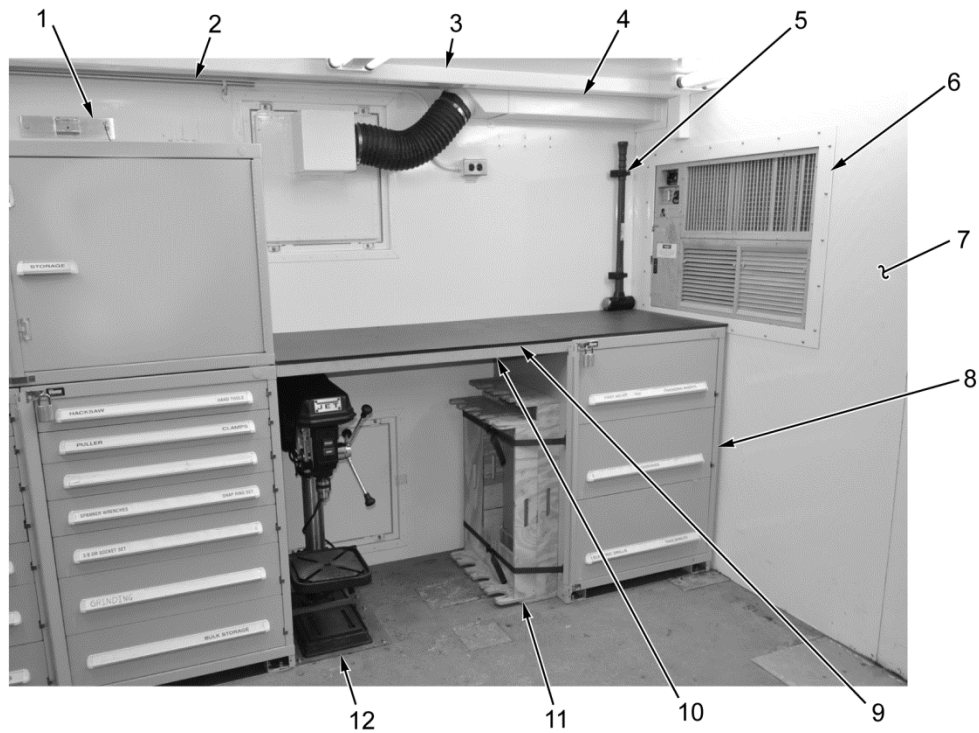
ARSS0081

Figure 3. ARSS Exterior Components (Rear).

Table 3. ARSS Exterior Components (Rear).

| Item | Component | Description |
|------|--|---|
| 1 | Closeout Panel Signal Entry Panel (SEP) Assembly | The signal entry panel allows data and voice connections for global combat support system and Army standard communications systems providing for voice and data information as well as interface to military/commercial satellite communication. These connections include RS 232 Male/Female small and large, RJ 11 (phone), RJ 45 (LAN) and Ethernet. |
| 2 | Signal Entry Panel (SEP) | |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued



ARSS0082

Figure 4. ARSS Interior Components (Passenger Side).

Table 4. ARSS Interior Components (Passenger Side).

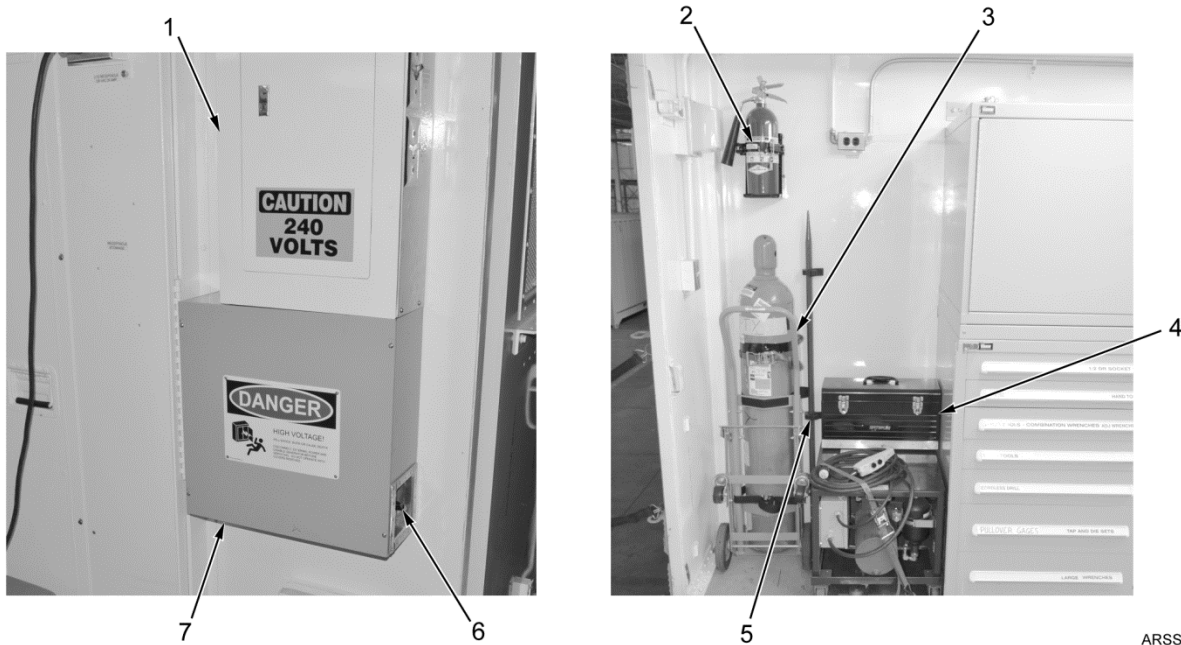
| Item | Component | Description |
|------|--|--|
| 1 | Ammo Cabinet Bracket | Mounted on shelter sidewall and when attached to the Ammo Cabinet inner/outer lateral bracket is used to assist in securing Ammo Cabinet during transportation mode. |
| 2 | Electrical Metallic Tubing (EMT) Conduit | A protective cover, tube or piping system used to protect and provide route of electrical wiring for the 110V outlet. |
| 3 | Raceway | An enclosed conduit mounted on the ceiling from the shelter end wall to the circuit breaker box that forms a physical pathway for electrical wiring. The raceway protects wires and cables from heat, humidity, corrosion, water intrusion and general physical threats. |
| 4 | ECU Air Duct (Work Room) | The ECU Air Duct is designed to bring in fresh air from vent in modified closeout panel. |
| 5 | Fist Clamp | Rubber mounting clamp used to secure the 10lb sledge hammer on the shelter wall. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued

Table 4. ARSS Interior Components (Passenger Side) - continued.

| | | |
|----|-------------------------|---|
| 6 | ECU Weldment | Cut out frame for housing the ECU/IECU located inside the shelter work area to create an air tight seal between the mechanical room and work room. |
| 7 | Middle Shelter Wall | Fabricated wall located inside shelter separating the mechanical room from shelter work area. |
| 8 | Tool Cabinet A | A three drawer cabinet storage for the ARSS Supply Catalog tools and ARSS Basic Issue Items (BI) (First Aid Kit and Safety Goggles) that are used to support either the armament maintenance operations or the ARSS operations. |
| 9 | Cabinet Workbench Top | Used as a working surface for armament repairs. |
| 10 | Cabinet Workbench Brace | Metal brace attached to cabinet A and B and used to mount the workbench top. |
| 11 | Universal Storage Trays | Wooden racks used to store multiple weapons systems (i.e. M16, M249) in slots. |
| 12 | Drill Press Bracket | Bracket used to mount the Drill Press to the floor during transportation and storage. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued



ARSS0083

Figure 5. ARSS Interior Components (Rear).

Table 5. ARSS Interior Components (Rear).

| Item | Component | Description |
|------|---|--|
| 1 | Circuit Breaker Panel | Controls power to shelter interior and provides overcurrent protection to circuits. |
| 2 | Fire Extinguisher and Fire Extinguisher Bracket | Fire Extinguisher 5 lb used to extinguish type A, B, and C fires. |
| 3 | Compressed Gas Cylinder and Mounting | Industrial compressed Nitrogen gas cylinder used in conjunction with the Nitrogen Intensifier. Stored on a mobile cart secured with mount on the shelter wall. |
| 4 | Tool Box and Tool Box Bracket | Tool box with BII tools required to install and remove storage brackets and closeout panels stored inside, tool box bracket mounted inside shelter on the left rear wall. Includes hearing protection. |
| 5 | Fist Clamp | Rubber mounting clamp used to secure the 60 inch (1.5 m) pinch bar on the shelter wall. |
| 6 | Selector Switch | A switch that controls the power to the shelter from either EXT (shore power), INT (generator power), or OFF (no power). |
| 7 | Work Room Pull Box | A junction box mounted below the circuit breaker panel that contains electrical wiring from power sources to the selector switch which then feeds power to the Main Circuit Breaker. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued



ARSS0084

Figure 6. ARSS Interior Components (Driver Side Cabinets).

Table 6. ARSS Interior Components (Driver Side Cabinets).

| Item | Component | Description |
|------|----------------|--|
| 1 | Tool Cabinet D | A two door cabinet storage for the ARSS Supply Catalog tools that are used to support armament maintenance operations. |
| 2 | Tool Cabinet B | A seven drawer cabinet storage for the ARSS Supply Catalog tools that are used to support armament maintenance operations. |
| 3 | Tool Cabinet C | A seven drawer cabinet storage for the ARSS Supply Catalog tools that are used to support armament maintenance operations. |

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued

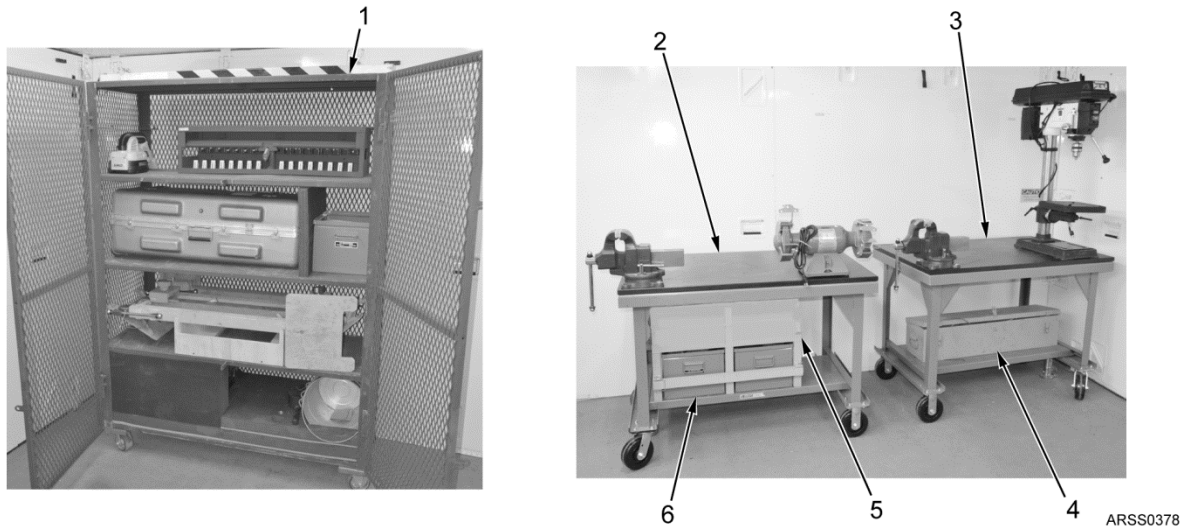


Figure 7. ARSS Ammo Cabinets and Workbenches.

Table 7. ARSS Ammo Cabinets and Workbenches.

| Item | Component | Description |
|------|-----------------|---|
| 1 | Ammo Cabinet | Modified weapons storage that contains small arms weapon rack, and bulk materials used to support Armament maintenance operations. |
| 2 | Workbench B | Workbench on casters that provides working surface for armament repairs. It contains one vise, grinder, and Stackbin Rack. |
| 3 | Workbench A | Workbench on casters that provides working surface for armament repairs. Provides pre-fabricated mounting location for drill press and contains Shelter BII Box and one vise. |
| 4 | Shelter BII Box | Tool box with BII tools required to setup and secure the one-sided expandable shelter. |
| 5 | Outrigger Pads | Seven outrigger pads used to stabilize the ARSS support legs on soft ground. |
| 6 | Stackbin Rack | Two drawers used to contain one each gun tube sling from the ARSS supply catalog. |

EQUIPMENT DATA**Table 8. Shelter with Trailer and ARSS Supply Catalog Tools.**

| ARSS | | |
|--|----------------------|---------------|
| | U.S. Standard | Metric |
| Tare Weight: | 11,300 lb | 5,125 kg |
| Gross Weight: | 20,030 lb | 9,085 kg |
| Lunette Weight: | 2,010 lb | 911 kg |
| ARSS Center of Gravity Locations Without Running Gear (Trailer) | | |
| X-Lateral (Calculated from centerline) | 0.67 inches | 1.7 cm |
| Y-Longitudinal (Measure from the rear face) | 112.31 inches | 285.2 cm |
| Z-Lateral (Measured from the shelter base) | 37.5 inches | 95.25 cm |

For One-Sided Expandable Shelter (100 AMP) Equipment Data refer to TM 10-5411-201-14

For Trailer (7 1/2-Ton) Equipment Data refer to TM 9-2320-328-14&P

For Mobile Electric Power (MEP) Generator Equipment Data refer to TM 9-6115-750-10

For Environmental Control Unit (ECU) Equipment Data refer to TM 9-4120-425-14&P

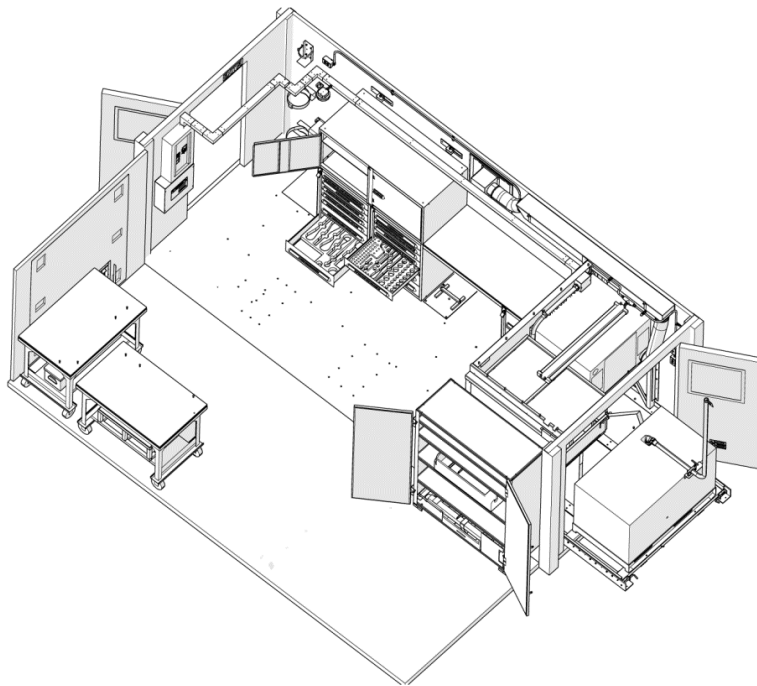
For Improved Environmental Control Unit (IECU) Equipment Data refer to TM 9-4120-434-13&P

END OF WORK PACKAGE

THEORY OF OPERATION

THEORY OF OPERATION

The Armament Repair Shop Set (ARSS) is a self-contained, tactical, one-sided expandable repair shop shelter, mounted on a 7-1/2 ton trailer that's transported by a 5-ton vehicle or larger. The shelter provides ample work space and armament tool set (SC4940-95-A70). The shelter contains a Mobile Electric Power (MEP) generator for shop power, as well as an Environmental Control Unit (ECU), or Improved Environmental Control Unit (IECU), producing an environmentally controlled interior. It will provide field/sustainment level maintenance and repair support for armament weapon systems support to units across the full spectrum of military operations. The ARSS is designed to operate in a wide variety of climate conditions.



ARSS0385

Figure 1. Armament Repair Shop Set (ARSS).

After the shelter has been erected, the operator personnel will unbolt selected items of equipment (WP 0006). These items will be relocated within any position on the expanded side of the shelter (WP 0006). The selected items, when moved, will not be secured (bolted) in place. This allows the shop personnel certain flexibility in the event long or bulky materiel must be repaired within the shelter.

Detailed instructions for unbolting equipment and the recommended sequence for relocating equipment are contained in *Expand ARSS Shelter* (WP 0005) and *Setup ARSS for Operation* (WP 0006). The procedures for securing the equipment are *Secure ARSS Shelter* (WP 0007) and *Secure ARSS Shelter for Transport* (WP 0008).

If hardware is damaged and it is necessary to remove, reinstall, or replace fixed equipment or shop components within shelter, care must be taken to remove all bolts, nuts, and other fasteners. All cabinets and racks are bolted to floor and unless isolated, are normally bolted to adjacent cabinets and/or to wall and ceiling.

ENVIRONMENTAL CONTROL UNIT (ECU) or IMPROVED ENVIRONMENTAL CONTROL UNIT (IECU)

The ECU/IECU is mounted in the mechanical room located in the front section of the shelter. The ECU/IECU can be easily removed for service or repair. Procedures for removing and installing the ECU/IECU are in WP 0026. Power is provided by a 208V, 3-phase cable wired inside the mechanical room electrical box.

ARSS POWER SUPPLY

Electrical power to operate the Armament Repair Shop Set (ARSS) is provided by a 10kW AMMPS generator or a shore power source. A Power Distribution Box (PDB) is used between the power source and the power entry panel of the shelter. The generator, PDB, and the shore power cable used to connect the PDB to the generator are wired to the electrical panel. Overload protection is provided by circuit breakers. The circuit breaker panel is located inside the shelter next to the personnel entrance door. Procedures for connecting electrical power to the shop are in WP 0009. Procedures for disconnecting electrical power from the shop are in WP 0009.

END OF WORK PACKAGE

CHAPTER 2

OPERATOR INSTRUCTIONS

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

OPERATOR INSTRUCTIONS

DESCRIPTION AND USE OF CONTROLS AND INDICATORS

INTRODUCTION

Following tables and illustrations provide the operator information required to locate, identify, and use the controls and indicators on the ARSS. The components and controls identified in this section are applicable to the entire system. Many of the controls are used repeatedly throughout the system.

OPERATOR CONTROLS AND INDICATORS



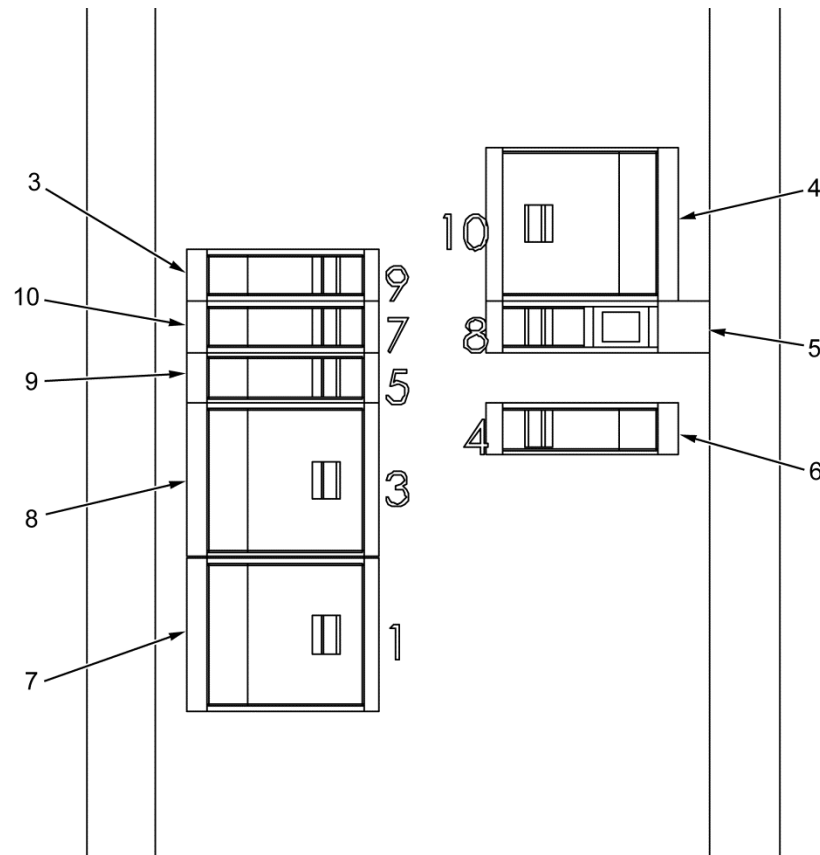
ARSS0379

Figure 1. Selector Switch and Smoke Alarm.

Table 1. Selector Switch and Smoke Alarm.

| Key | Control/Indicator | Function |
|-----|-------------------|--|
| 1. | Selector Switch | Switch controls power to electrical panel depending on source. Power comes in from generator (INT) to feed electrical panel or from shore power (EXT). |
| 2. | Smoke Alarm | An alarm that detects fires, smoke, and harmful levels of carbon monoxide. Will indicate if low battery life by "chirping" every 30 seconds. |

OPERATOR CONTROLS AND INDICATORS - Continued



ARSS0406

Figure 2. Circuit Breaker Panel.

Table 2. Circuit Breaker Panel.

| Key | Control/Indicator | Function |
|-----|-------------------|--|
| 3. | CB9 | Work room light fixtures and blackout light circuit breaker. |
| 4. | CB10 | Environmental Control Unit (ECU) circuit breaker. |
| 5. | CB8 | Extra circuit breaker. |
| 6. | CB4 | Work room 120V outlets circuit breaker. |
| 7. | CB1 | Main circuit breaker. |
| 8. | CB3 | Heater/AC power supply circuit breaker. |
| 9. | CB5 | Smoke alarm circuit breaker. |
| 10. | CB7 | Mechanical room light, light switch, and outlet circuit breaker. |

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - EXPAND ARSS SHELTER

INITIAL SETUP:**Tools and Special Tools**

Wrench, Adjustable, 8" (WP 0124, Item 15)

References

WP 0010

Personnel Required

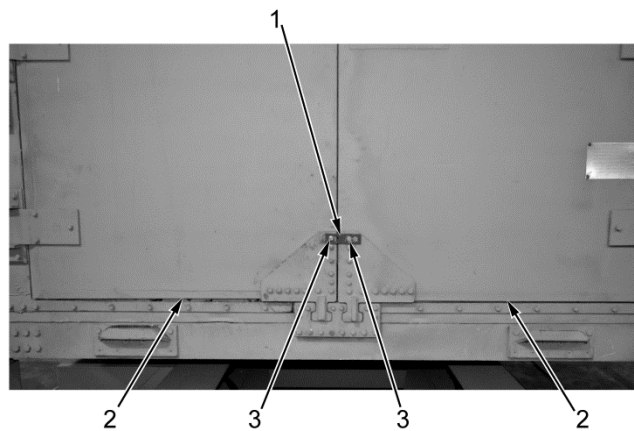
Small Arms/Artillery Repairer - 91F
Non-Specific MOS (3)

Equipment Condition

Trailer leveled (TM 9-2330-328-14&P)

EXPAND ARSS SHELTER

1. Loosen two bolts (Figure 1, Item 3) and remove red metal tab (Figure 1, Item 1) from mechanical room doors (Figure 1, Item 2) and store in trailer BII box.

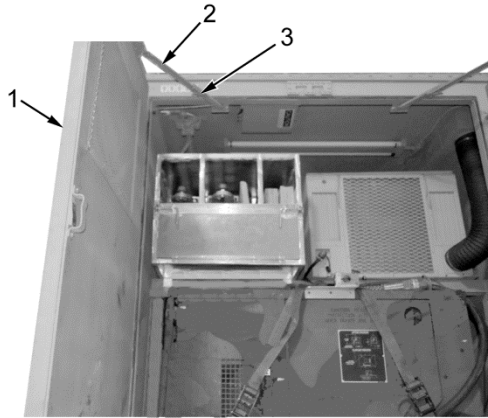


ARSS0321

Figure 1. Mechanical Room Access.

EXPAND ARSS SHELTER - Continued

2. Open two mechanical room doors (Figure 2, Item 1) until two door braces (Figure 2, Item 2) and tabs (Figure 2, Item 3) lock in open position.



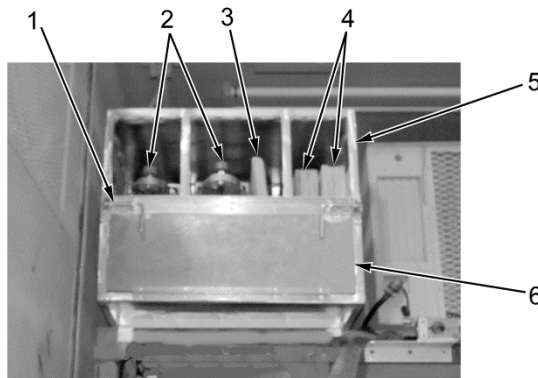
ARSS0323

Figure 2. Mechanical Room Doors.

WARNING

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

3. Release two spring latches (Figure 3, Item 1), open panel (Figure 3, Item 6) and remove two ladders (Figure 3, Item 2), cribbing (Figure 3, Item 4), and threshold plate (Figure 3, Item 3) from storage rack (Figure 3, Item 5).
4. Close panel (Figure 3, Item 6) and secure two spring latches (Figure 3, Item 1).

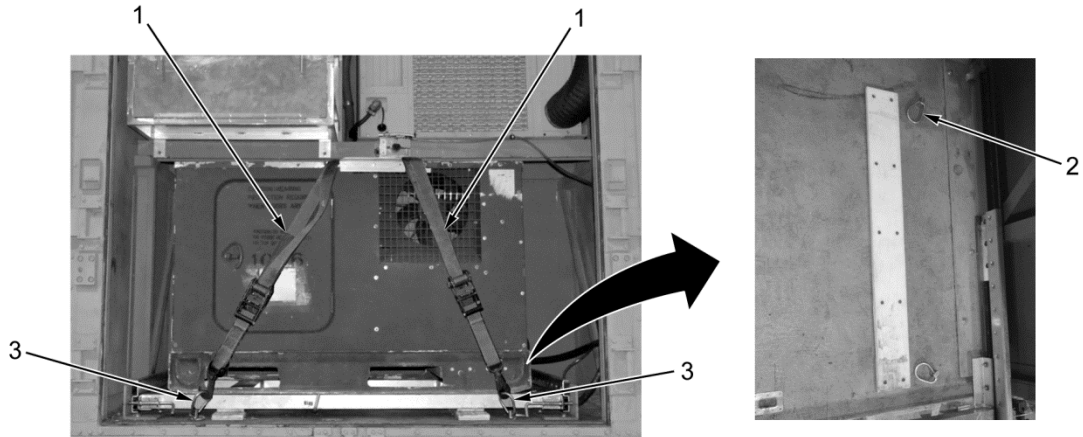


ARSS0390

Figure 3. Storage Rack Contents.

EXPAND ARSS SHELTER - Continued

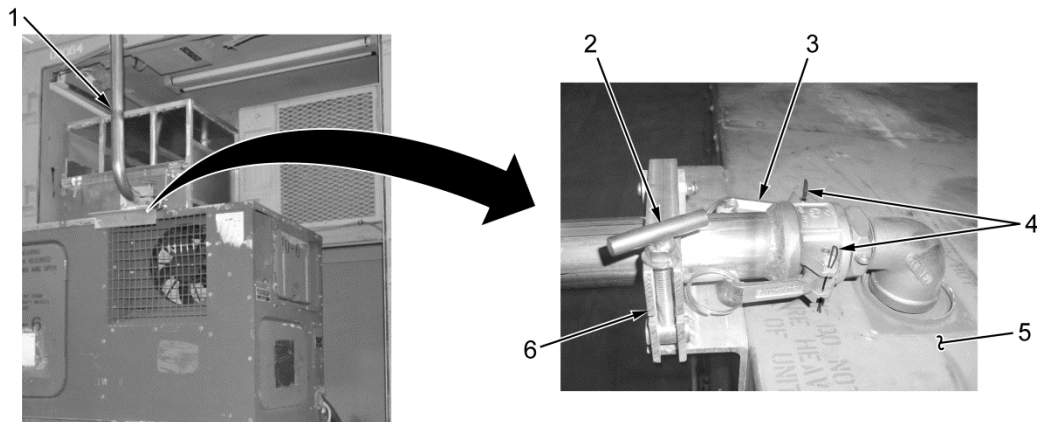
5. Remove two ratchet straps (Figure 4, Item 1) from front two d-rings (Figure 4, Item 3).
6. Extend generator (WP 0010) and remove ratchet straps (Figure 4, Item 1) from rear d-rings (Figure 4, Item 2).
7. Remove d-rings (Figure 4, Items 2 and 3) from shelter floor if necessary.



ARSS0396

Figure 4. Generator Ratchet Strap Removal.

8. Loosen t-bolt (Figure 5, Item 2) and open exhaust clamp (Figure 5, Item 6) on generator (Figure 5, Item 5).
9. Install exhaust assembly (Figure 5, Item 1) and two cotter pins (Figure 5, Item 4) on generator (Figure 5, Item 5) and latch coupling (Figure 5, Item 3).
10. Close exhaust clamp (Figure 5, Item 6) and tighten t-bolt (Figure 5, Item 2).



ARSS0329

Figure 5. Exhaust Installation.

EXPAND ARSS SHELTER - Continued

11. Unlatch two retaining j-bolts (Figure 6, Item 2) and open ramp storage cover (Figure 6, Item 1).

WARNING

To avoid personal injury, lifting and extending/retracting ramp requires four personnel to perform. Always lift with knees and be careful of pinching extremities. Ramp could fall and crush personnel. Failure to follow this warning may cause injury or death.

12. Partially extend ramp (Figure 6, Item 4) to third post hole out of ramp storage (Figure 6, Item 3).

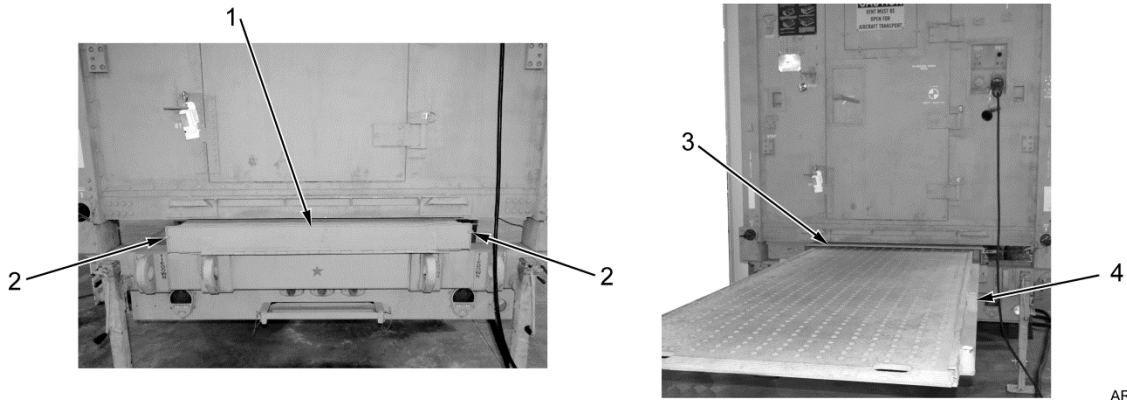
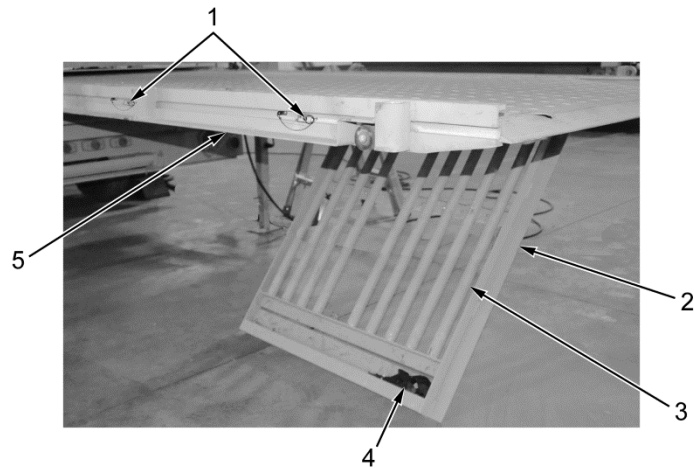


Figure 6. Ramp Extend.

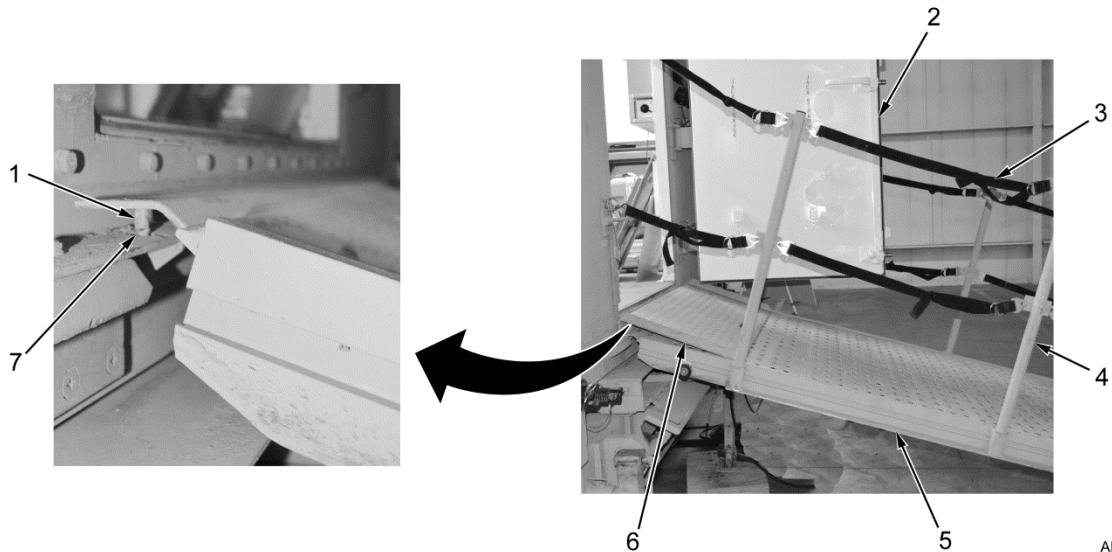
13. Remove two storage pins (Figure 7, Item 1) from ramp (Figure 7, Item 5) and lower storage rack (Figure 7, Item 2).
14. Remove nine posts (Figure 7, Item 3) and 18 straps (Figure 7, Item 4) from storage rack (Figure 7, Item 2).
15. Raise storage rack (Figure 7, Item 2) back into position on ramp (Figure 7, Item 5) and secure with two storage pins (Figure 7, Item 1).

EXPAND ARSS SHELTER - Continued

ARSS0333

Figure 7. Ramp Storage Rack.

16. Fully extend ramp (Figure 8, Item 5) and place two pegs (Figure 8, Item 1) on end closest to shelter in holes (Figure 8, Item 7) at bottom of personnel door (Figure 8, Item 2).
17. Install threshold plate (Figure 8, Item 6) between bottom of personnel door (Figure 8, Item 2) and end of ramp (Figure 8, Item 5).
18. Install nine posts (Figure 8, Item 4) and 18 straps (Figure 8, Item 3) on ramp (Figure 8, Item 5).
19. Open personnel door (Figure 8, Item 2) until door brace locks into place.



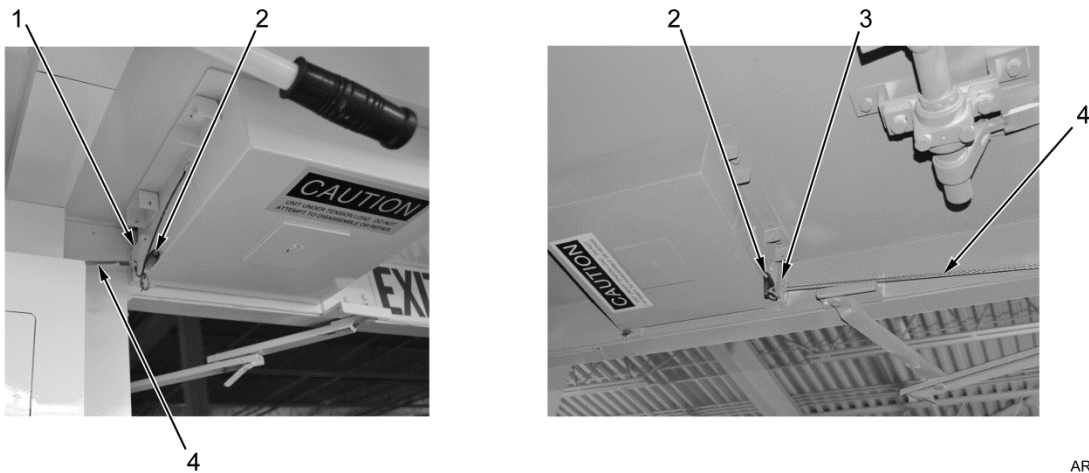
ARSS0335

Figure 8. Ramp Extend and Strap and Post Installation.

EXPAND ARSS SHELTER - Continued**NOTE**

There are a total of two stop-plates in the ARSS. One is located in the mechanical room above the generator and the other is located inside the work room above the personnel door.

20. Remove two quick release pins (Figure 9, Item 2) and un-hasp two stop-plates (Figure 9, Items 1 and 3) to the up position to release support cable (Figure 9, Item 4).
21. Re-install two quick release pins (Figure 9, Item 2).



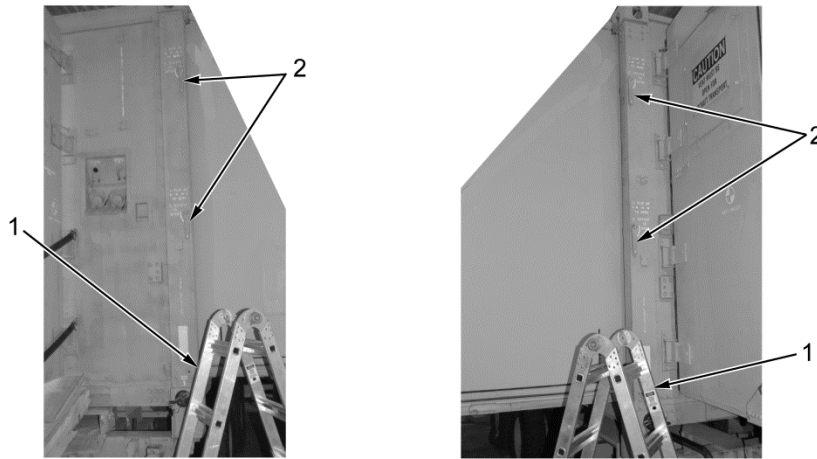
ARSS0337

Figure 9. Shelter Wall and Cable Release.

EXPAND ARSS SHELTER - Continued**WARNING**

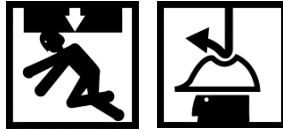
When using a ladder, always climb using a three-point grip; either two hands and one foot or one hand and two feet should be on the ladder at all times. Have a person on the ground spotting you and holding the ladder firmly in place. Failure to follow this warning may cause injury.

22. Place two ladders (Figure 10, Item 1) on each side of shelter next to cam lock handles (Figure 10, Item 2).



ARSS0340

Figure 10. Ladder Placement.

EXPAND ARSS SHELTER - Continued**WARNING**

Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this warning may cause injury or death.

NOTE

Four personnel are required to perform Steps 23 thru 28.

23. While two personnel brace hinged floor, flip up four cam lock handles (Figure 11, Item 1) on both sides of shelter and rotate at orientation shown to open four floor locks (Figure 11, Item 2).

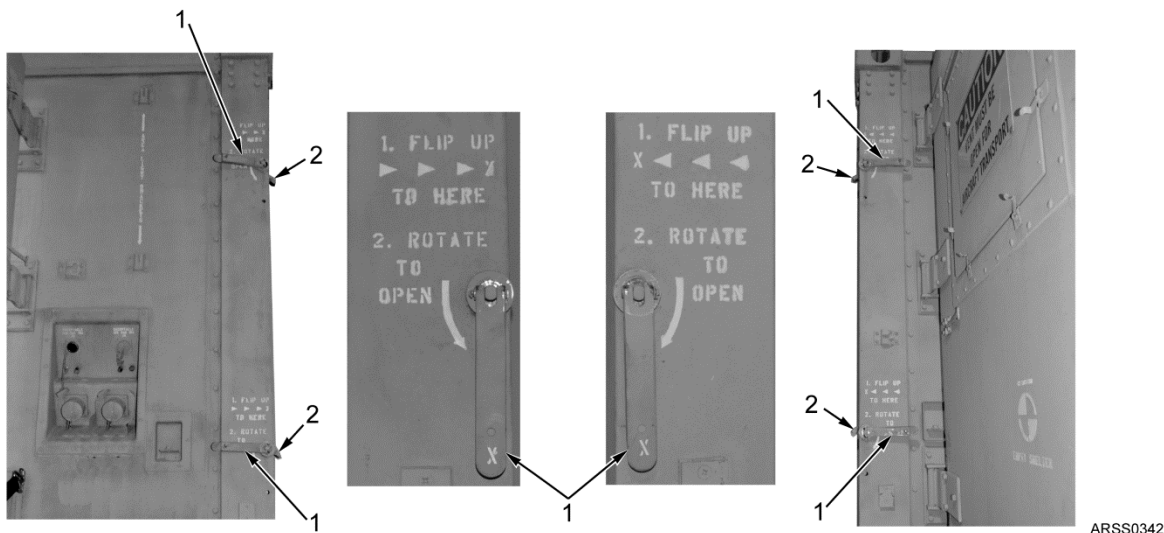


Figure 11. Cam Lock Handle Release.

EXPAND ARSS SHELTER - Continued

24. With two personnel on each side, lower hinged floor (Figure 12, Item 2) to extent of support cable (Figure 12, Item 1) travel (1 1/2 in (3.8 cm) below level).



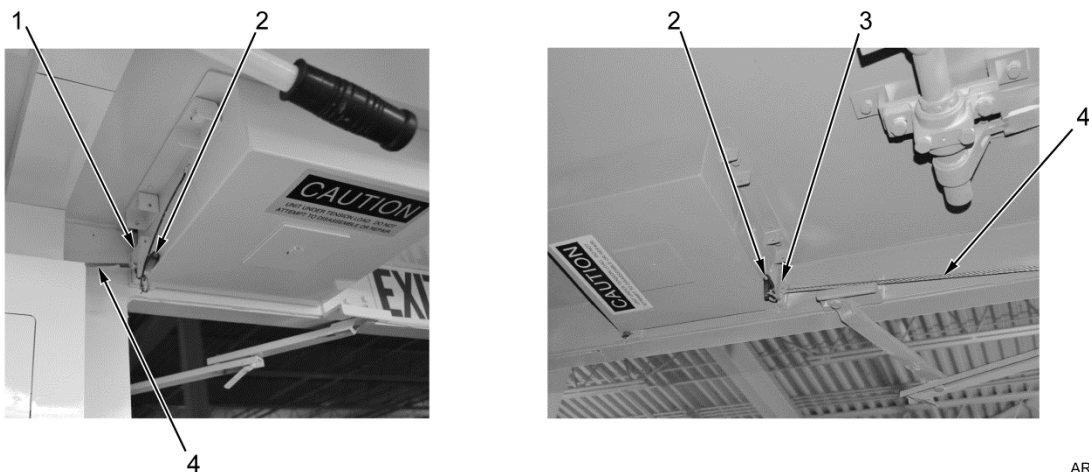
ARSS0344

Figure 12. Shelter Extension Hinged Floor.

NOTE

There are a total of two stop-plates in the ARSS. One is located in the mechanical room above the generator and the other is located inside the work room above the personnel door.

25. Remove two quick release pins (Figure 13, Item 2) and hasp two stop-plates (Figure 13, Items 1 and 3) to the down position to clasp support cable (Figure 13, Item 4) and lock shelter walls.
26. Re-install two quick release pins (Figure 13, Item 2).

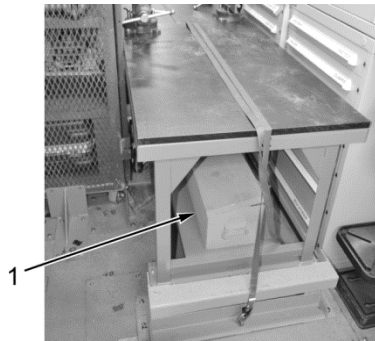


ARSS0346

Figure 13. Stop-Plate and Support Cable Release.

EXPAND ARSS SHELTER - Continued

27. Remove two sidewall support braces from Shelter BII box (Figure 14, Item 1).



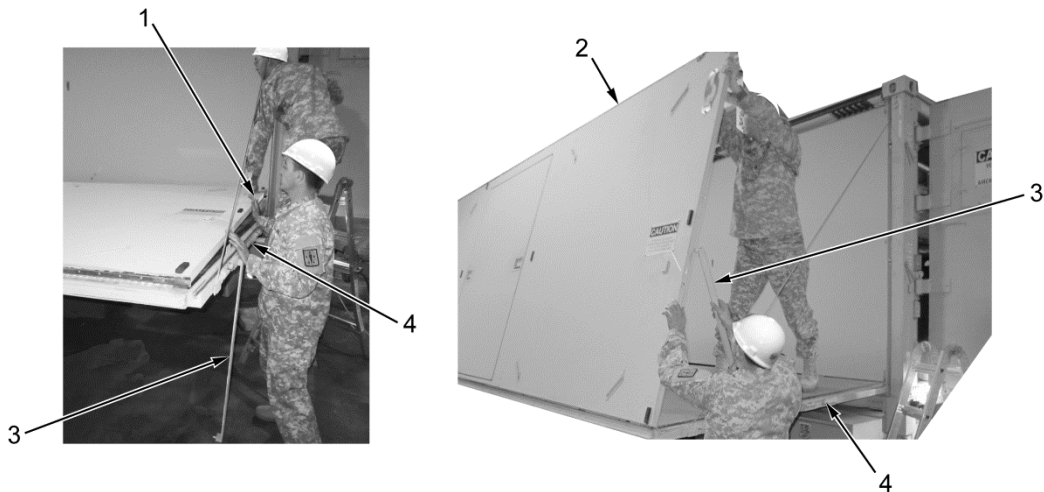
ARSS0397

Figure 14. Sidewall Support Braces.

NOTE

Ensure sidewall support braces are installed inside support cables between cable and hinged floor on both sides of sidewall.

28. With two personnel on hinged sidewall handles (Figure 15, Item 1) and two personnel on both sides of hinged sidewall (Figure 15, Item 2) next to sidewall support braces (Figure 15, Item 3), raise hinged sidewall (Figure 15, Item 1) upright from hinged floor (Figure 15, Item 4) and secure in position with two sidewall support braces (Figure 15, Item 2).

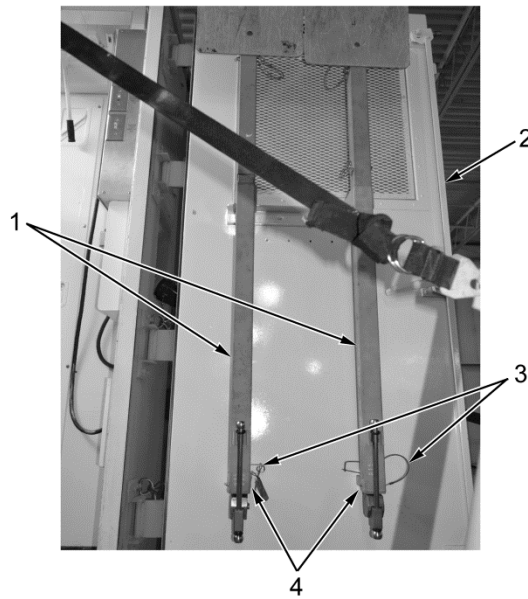


ARSS0398

Figure 15. Shelter Sidewall Extension.

EXPAND ARSS SHELTER - Continued

29. Remove two safety pins (Figure 16, Item 3) and leveling jacks (Figure 16, Item 1) from jack mounts (Figure 16, Item 4) inside of personnel door (Figure 16, Item 2).



ARSS0350

Figure 16. Leveling Jacks.

EXPAND ARSS SHELTER - Continued**CAUTION**

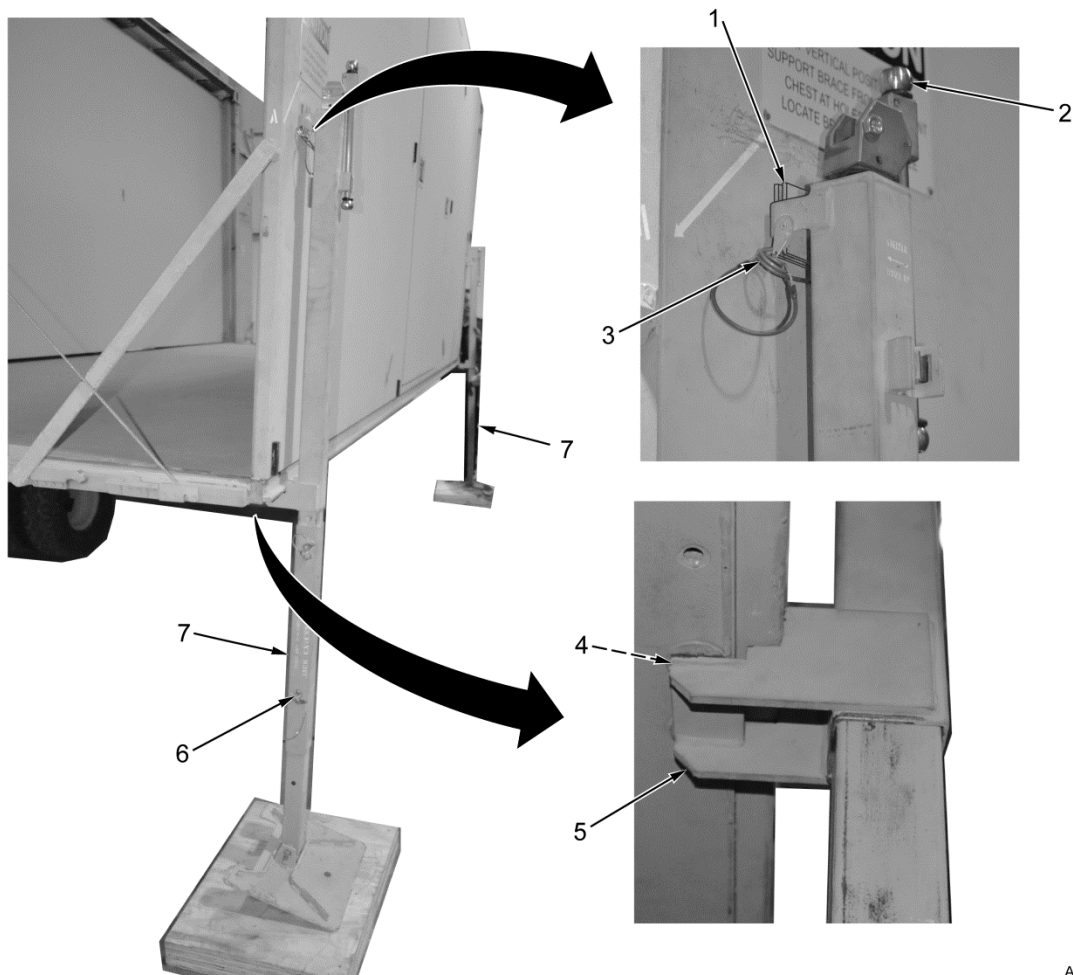
If ground is soft, place cribbing underneath jack stands on each corner of shelter.
Failure to follow this caution may cause damage to equipment.

30. Install two leveling jacks (Figure 17, Item 7) up into jack support brackets (Figure 17, Item 1) and insert jack hooks (Figure 17, Item 5) into hinged floor socket (Figure 17, Item 4) in floor and secure with two safety pins (Figure 17, Item 3).

NOTE

Adjust leveling jacks to closest pin hole available without making contact to ground.

31. Remove two pins (Figure 17, Item 6) and adjust two leveling jacks (Figure 17, Item 7) down enough to where leveling jacks come close to meeting ground.
32. Install pins (Figure 17, Item 6) back in leveling jacks (Figure 17, Item 2).
33. Rotate handle (Figure 17, Item 4) on leveling jacks (Figure 17, Item 2) until firm on the ground.



ARSS0352

Figure 17. Leveling Jacks Installation.

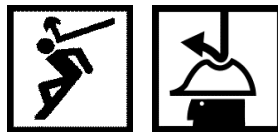
EXPAND ARSS SHELTER - Continued

34. Push solar bar handle (Figure 18, Item 1) counterclockwise to release tension on shelter ceiling/roof.



ARSS0354

Figure 18. Solar Bar Handle.

WARNING

Ensure inner tubes of support struts are supported when disengaging from stowage brackets. Wear head protection at all times to prevent head injury. Inner tubes could extend out unexpectedly and injure personnel. Failure to follow this warning may cause injury.

NOTE

Support struts are located on inside of shelter ceiling/roof. Personnel must go in between shelter ceiling/roof and end walls to locate support struts.

35. Pull lock pin (Figure 19, Item 1) to free support strut (Figure 19, Item 2) from stowage bracket (Figure 19, Item 3).



ARSS0412

Figure 19. Support Strut Removal.

EXPAND ARSS SHELTER - Continued

36. With two personnel inside shelter and two outside, lift shelter ceiling/roof (Figure 20, Item 2) and stand shelter ceiling/roof up on first support strut (Figure 20, Item 5).

CAUTION

Do not extend shelter ceiling/roof to full height when using support struts. Extending shelter ceiling/roof beyond top of sidewall may damage sidewall seal. Failure to follow this caution may cause damage to equipment.

NOTE

Support struts may need to be adjusted up or down to accommodate correct support of shelter ceiling/roof.

37. Pull one lock pin (Figure 20, Item 4) to free other support strut (Figure 20, Item 5) from stowage bracket (Figure 20, Item 3) and fully extend support strut and reinsert lock pin.
38. Lift shelter ceiling/roof (Figure 20, Item 2) up again and support with fully extended support strut (Figure 20, Item 5).
39. Pull lock pin (Figure 20, Item 4) and fully extend second support strut (Figure 20, Item 5) and reinsert lock pin.

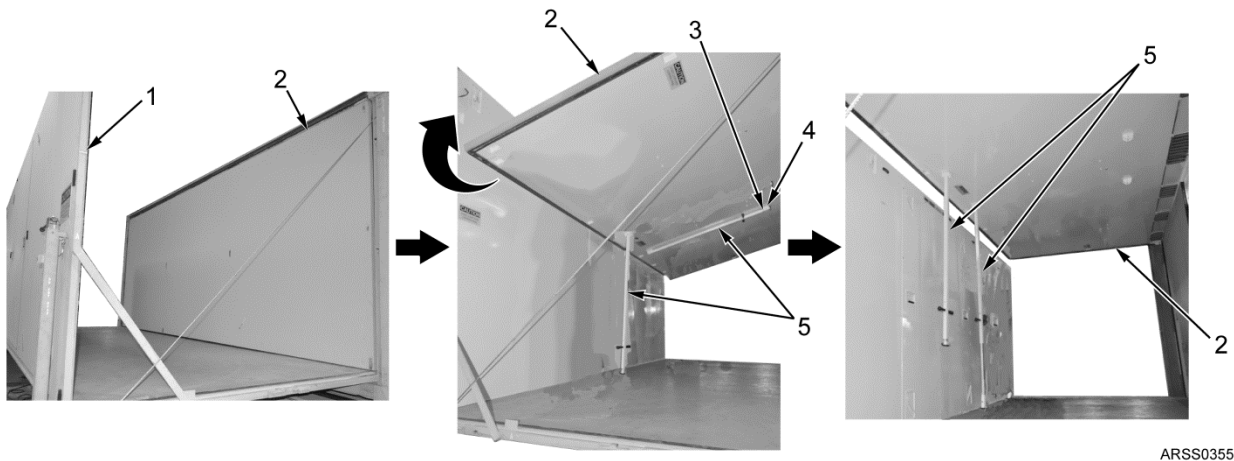


Figure 20. Raising Shelter Ceiling/Roof.

EXPAND ARSS SHELTER - Continued

40. Swing two end walls (Figure 21, Item 1) out to open position.



ARSS0358

Figure 21. Extending End Walls.

NOTE

Ensure two end walls are held flush with ends of sidewall when performing Step 41.

41. Raise or lower two leveling jacks (Figure 22, Item 3) on both sides of shelter by turning handle (Figure 22, Item 2) until alignment marks (Figure 22, Item 1) meet.

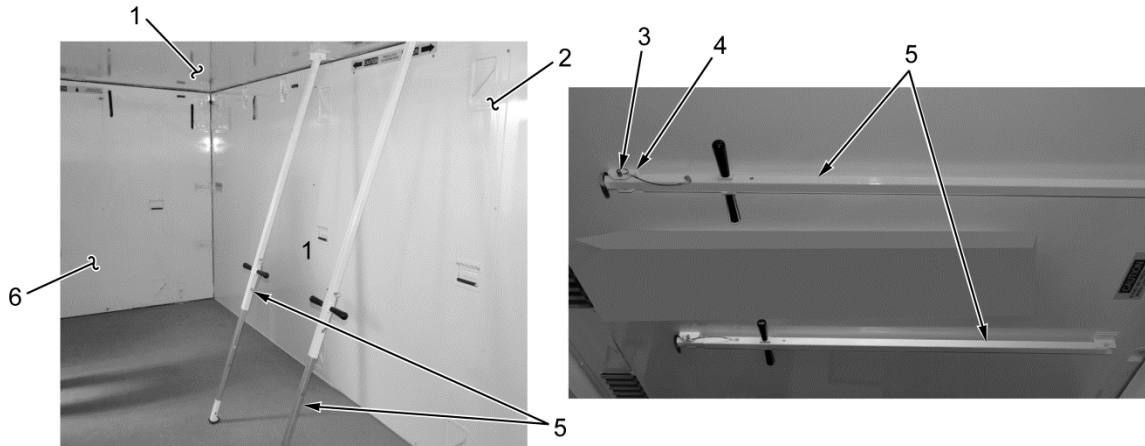


ARSS0359

Figure 22. Aligning Sidewall and End Walls.

EXPAND ARSS SHELTER - Continued

42. Using four personnel, lift up two support struts (Figure 23, Item 5) and allow shelter ceiling/roof (Figure 23, Item 1) to rest on sidewall (Figure 23, Item 2) and two end walls (Figure 23, Item 6).
43. Collapse two support struts (Figure 23, Item 5) and attach to shelter ceiling/roof (Figure 23, Item 1) in stowage brackets (Figure 23, Item 4) with two lock pins (Figure 23, Item 3).



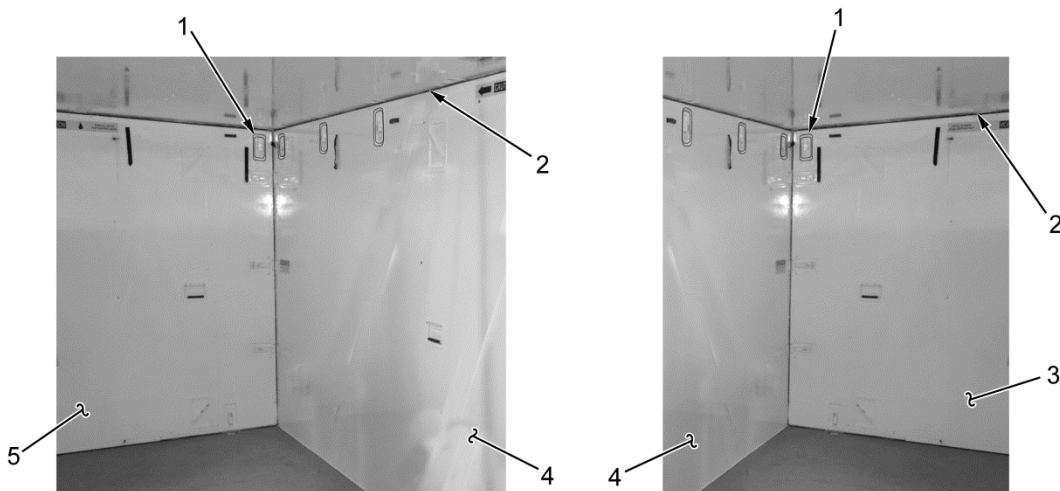
ARSS0361

Figure 23. Shelter Ceiling/Roof Install.

NOTE

Ensure all 16 latches align with end walls, shelter ceiling/roof, and sidewall. If some latches will not secure, adjust leveling jacks to align latches.

44. Secure 16 latches (Figure 24, Item 1) securing two end walls (Figure 24, Items 3 and 5), shelter ceiling/roof (Figure 24, Item 2), and sidewall (Figure 24, Item 4).



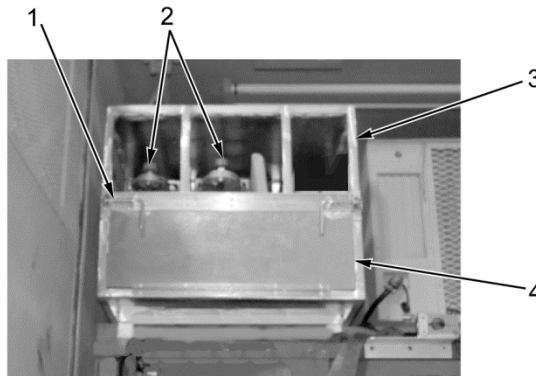
ARSS0364

Figure 24. Shelter Ceiling/Roof, End Walls, and Sidewall Installation.

EXPAND ARSS SHELTER - Continued**WARNING**

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

45. Release two spring latches (Figure 25, Item 1), open panel (Figure 25, Item 4) and re-install two ladders (Figure 25, Item 2) in storage rack (Figure 25, Item 3).
46. Close panel (Figure 25, Item 4) and secure two spring latches (Figure 25, Item 1).



ARSS0391

Figure 25. Storage Rack.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - SETUP ARSS FOR OPERATION

INITIAL SETUP:**Tools and Special Tools**

Extension, Socket, Wrench 3/8" Drive, 6"
(WP 0124, Item 6)
Handle, Socket Wrench 3/8" Drive (WP
0124, Item 7)
Screwdriver, Flat Tip (WP 0124, Item 12)
Socket, Socket, Wrench 3/8" Drive, 9/16"
(WP 0124, Item 13)
Wrench, Adjustable, 8" (WP 0124, Item 15)

Personnel Required

Small Arms/Artillery Repairer - 91F
Non-Specific MOS

References

TM 10-5411-201-14

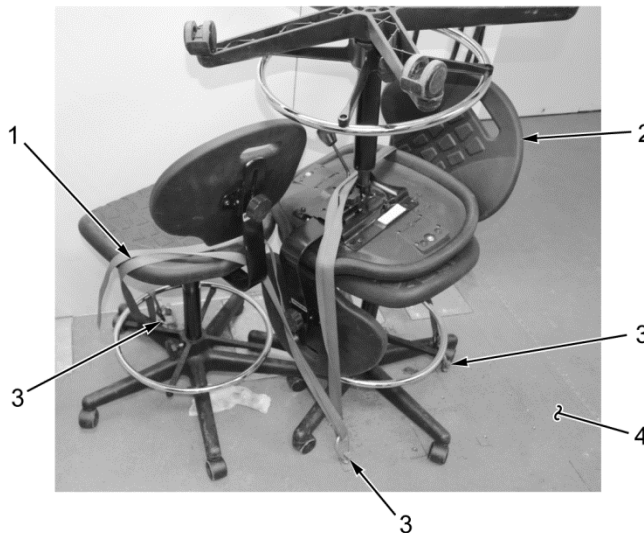
Equipment Condition

ARSS shelter expanded (WP 0005)

SETUP**NOTE**

All ratchet straps, d-rings, and bracket hardware should be stored in tool box above Nitrogen Intensifier inside the ARSS.

1. Remove ratchet strap (Figure 1, Item 1) and three d-rings (Figure 1, Item 3) from floor (Figure 1, Item 4).
2. Move three chairs (Figure 1, Item 2) to expanded side of shelter.



ARSS0413

Figure 1. Chair Removal.

SETUP - Continued

3. Remove ratchet strap (Figure 2, Item 1) from d-ring (Figure 2, Item 2) on bracket B9 (Figure 2, Item 3).

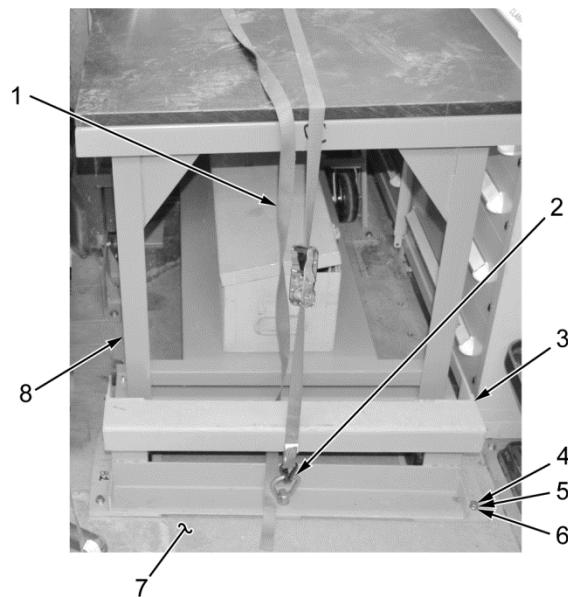
WARNING

Each workbench weighs 275 lb (125 kg). Use two or more personnel when moving workbenches. Workbenches can shift or come loose during movement and strike personnel. Always ensure workbenches are locked in place with floor lock when not moving. Failure to follow this warning may cause injury or death.

NOTE

Store all floor brackets underneath shelter extension.

4. Remove four bolts (Figure 2, Item 4), lockwashers (Figure 2, Item 5), flat washers (Figure 2, Item 6), d-ring (Figure 2, Item 2), and bracket B9 (Figure 2, Item 3) from floor (Figure 2, Item 7). Discard lockwashers.
5. Roll workbench A (Figure 2, Item 8) to expanded side of shelter.



ARSS0414

Figure 2. Workbench A and Bracket B9 Removal.

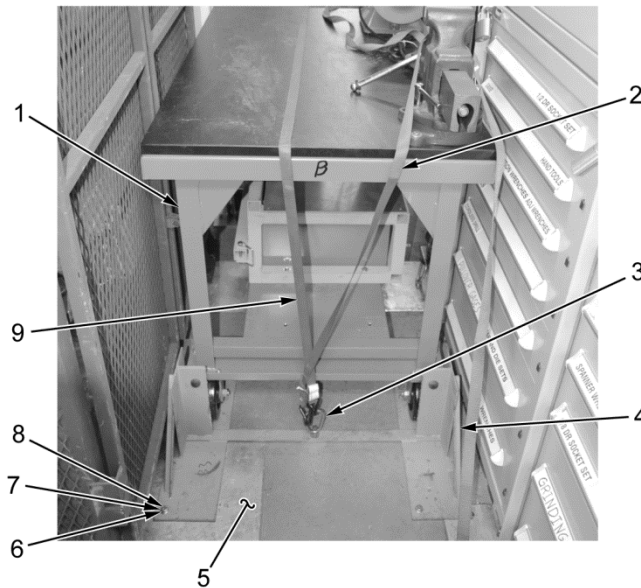
SETUP - Continued

6. Remove ratchet strap (Figure 3, Item 2) from d-ring (Figure 3, Item 3) on bracket B8 (Figure 3, Item 4).

WARNING

Each workbench weighs 275 lb (125 kg). Use two or more personnel when moving workbenches. Workbenches can shift or come loose during movement and strike personnel. Always ensure workbenches are locked in place with floor lock when not moving. Failure to follow this warning may cause injury or death.

7. Remove four bolts (Figure 3, Item 8), lockwashers (Figure 3, Item 7), flat washers (Figure 3, Item 6), d-ring (Figure 3, Item 3), and bracket B8 (Figure 3, Item 4) from floor (Figure 3, Item 5). Discard lockwashers.
8. Roll workbench B (Figure 3, Item 1) to expanded side of shelter.

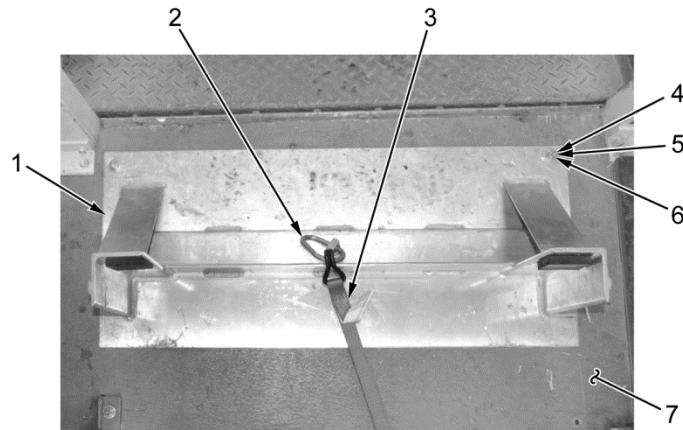


ARSS0415

Figure 3. Workbench B and Bracket B8 Removal.

SETUP - Continued

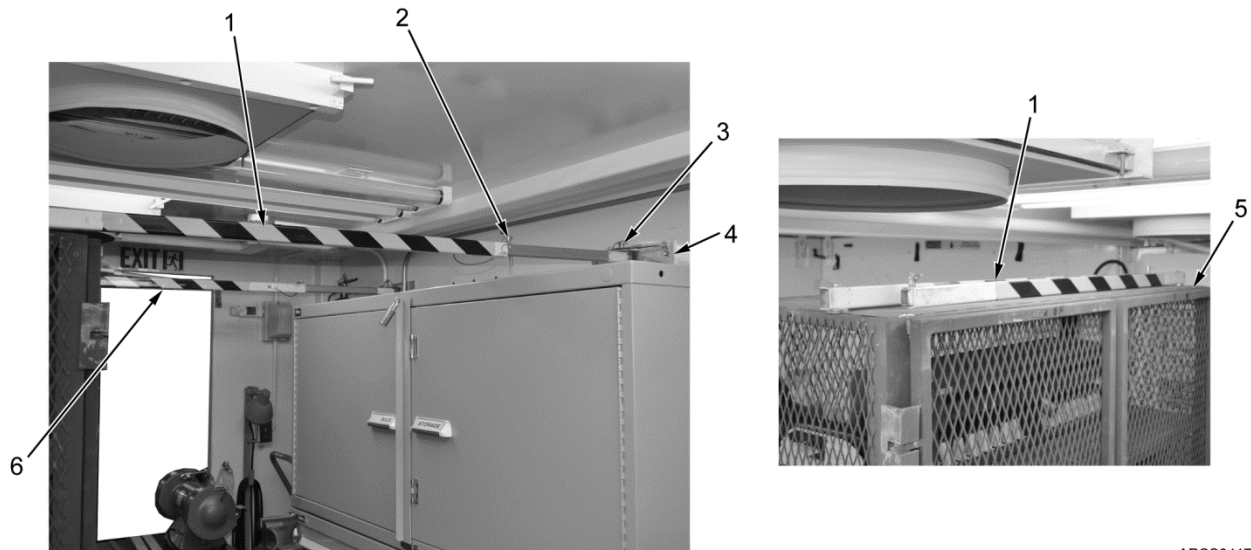
9. Remove ratchet strap (Figure 4, Item 3) from d-ring (Figure 4, Item 2).
10. Remove four bolts (Figure 3, Item 4), lockwashers (Figure 3, Item 5), flat washers (Figure 3, Item 6), d-ring (Figure 3, Item 2), and bracket B7 (Figure 3, Item 1) from floor (Figure 3, Item 7). Discard lockwashers.



ARSS0416

Figure 4. Bracket B7 Removal.

11. Remove retaining pin (Figure 5, Item 3) and inner/outer rod lateral bracket (Figure 5, Item 1) from ammo cabinet bracket (Figure 5, Item 4).
12. Remove retaining pin (Figure 5, Item 2) and retract inner/outer rod lateral bracket (Figure 5, Item 1).
13. Install retaining pin (figure 5, Item 2) to secure inner/outer rod lateral bracket (Figure 5, Item 1) to ammo cabinet (Figure 5, Item 5).
14. Repeat Steps 11 thru 13 for left inner/outer rod lateral bracket (Figure 5, Item 6).

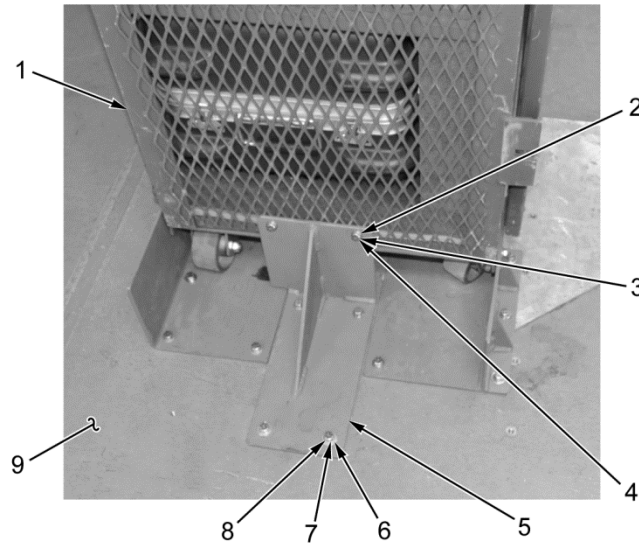


ARSS0417

Figure 5. Ammo Cabinet Inner/Outer Rod Lateral Bracket Removal.

SETUP - Continued

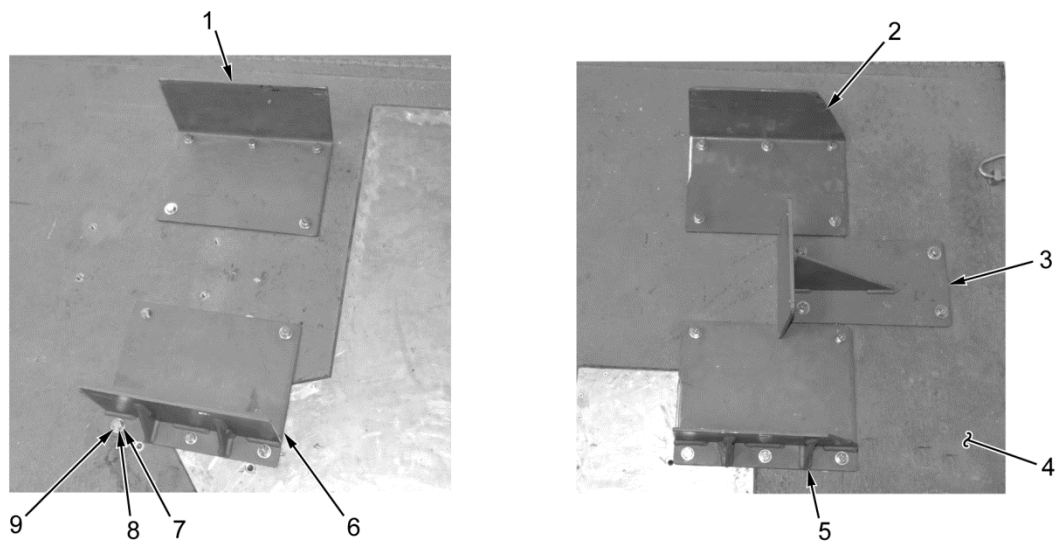
15. Remove eight bolts (Figure 6, Item 2), lockwashers (Figure 6, Item 3), flat washers (Figure 6, Item 4) from sides of ammo cabinet (Figure 6, Item 1). Discard lockwashers.
16. Remove four bolts (Figure 6, Item 8), lockwashers (Figure 6, Item 7), flat washers (Figure 6, Item 6), and bracket B6 (Figure 6, Item 5) from floor (Figure 6, Item 9). Discard lockwashers.
17. Slide ammo cabinet (Figure 6, Item 1) out and to expanded side of shelter.



ARSS0418

Figure 6. Bracket B6 and Ammo Cabinet Removal.

18. Remove 24 bolts (Figure 7, Item 9), lockwashers (Figure 7, Item 8), and flat washers (Figure 7, Item 7) from bracket B5 (Figure 7, Item 1), bracket B4 (Figure 7, Item 6), bracket B3 (Figure 7, Item 2), bracket B2 (Figure 7, Item 3), and bracket B1 (Figure 7, Item 5). Discard lockwashers.

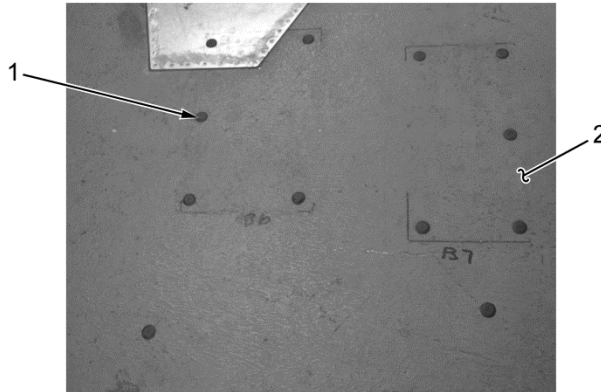


ARSS0419

Figure 7. Bracket B5, B4, B3, B2, and B1 Removal.

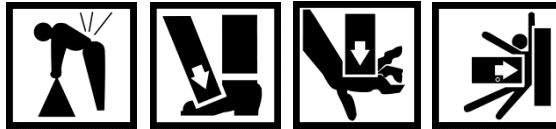
SETUP - Continued

19. Install 46 insert plugs (Figure 8, Item 1) in floor (Figure 8, Item 2) in bracket B1 through B9 and d-ring mounting holes.



ARSS0371

Figure 8. Insert Plug Installation.

WARNING

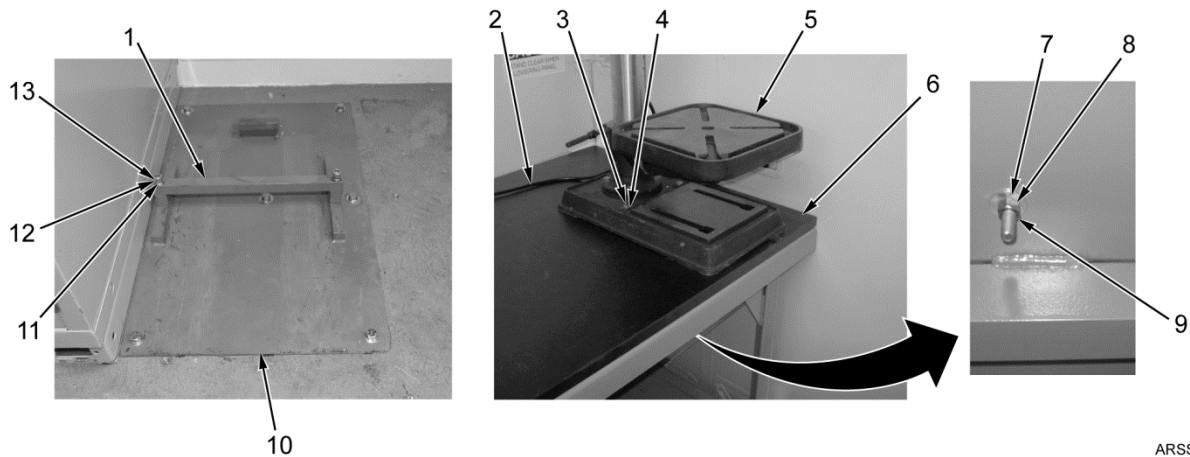
The drill press weighs 160 lb (73 kg). Do not attempt to lift drill press without the aid of another person or suitable lifting device. All personnel must stand clear during lifting operation. The drill press could swing or shift during removal. Failure to follow this warning may cause injury or death.

20. Remove two bolts (Figure 9, Item 13), lockwashers (Figure 9, Item 12), flat washers (Figure 9, Item 11), retaining bracket (Figure 9, Item 1) and drill press (Figure 9, Item 5) from drill press bracket (Figure 9, Item 10).

NOTE

Mounting hardware for drill press can be found in the Shelter BII Toolbox.

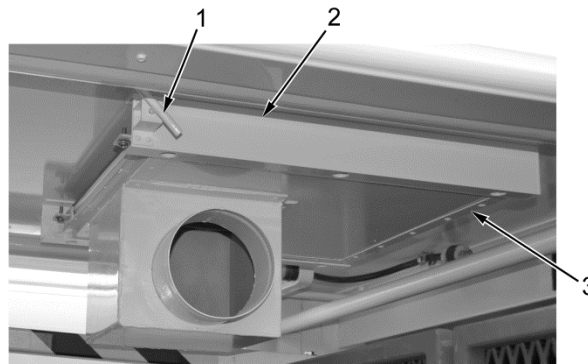
21. Place drill press (Figure 9, Item 5) on workbench A (Figure 9, Item 6) and secure with two flat washers (Figure 9, Item 4), bolts (Figure 9, Item 3), flat washers (Figure 9, Item 7), lockwashers (Figure 9, Item 8), and nuts (Figure 9, Item 9).
22. Install retaining bracket (Figure 9, Item 1), two flat washers (Figure 9, Item 11), lockwashers (Figure 9, Item 12), and bolts (Figure 9, Item 13) back on drill press bracket (Figure 9, Item 10).

SETUP - Continued

ARSS0402

Figure 9. Drill Press Removal/Installation.

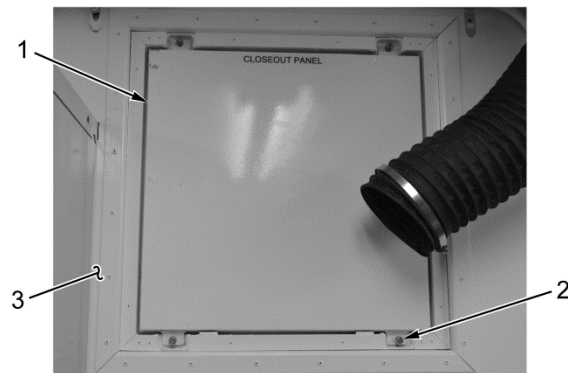
23. Pull retaining pin (Figure 10, Item 1) and remove modified closeout panel (Figure 10, Item 3) from panel mount (Figure 10, Item 2).



ARSS0370

Figure 10. Modified Closeout Panel Removal.

24. Loosen four screws (Figure 11, Item 2) and remove closeout panel (Figure 11, Item 1) from shelter wall (Figure 11, Item 3).

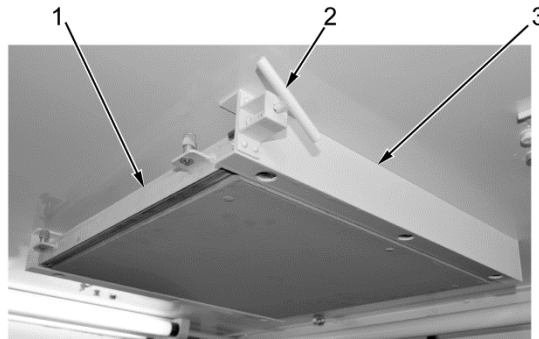


ARSS0284

Figure 11. Closeout Panel Removal.

SETUP - Continued

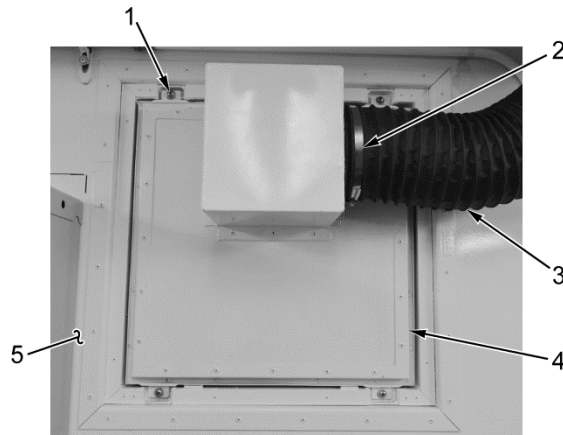
25. Pull retaining pin (Figure 12, Item 2) and secure closeout panel (Figure 12, Item 1) in panel mount (Figure 12, Item 3).



ARSS0285

Figure 12. Closeout Panel.

26. Install modified closeout panel (Figure 13, Item 4) on shelter wall (Figure 13, Item 5) and secure with four screws (Figure 13, Item 1).
27. Install flexible duct (Figure 13, Item 3) and clamp (Figure 13, Item 2) on modified closeout panel (Figure 13, Item 4).



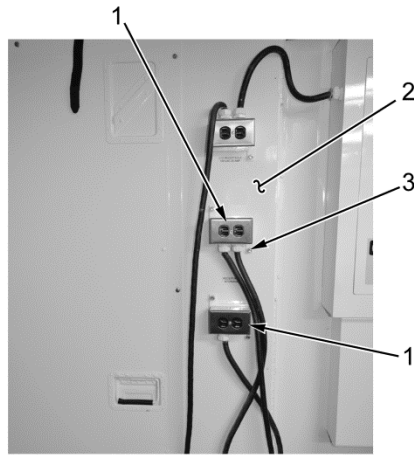
ARSS0287

Figure 13. Modified Closeout Panel Installation.

SETUP - Continued**NOTE**

Repeat Steps 28 thru 30 for other optional 120V receptacle on opposite side of shelter.

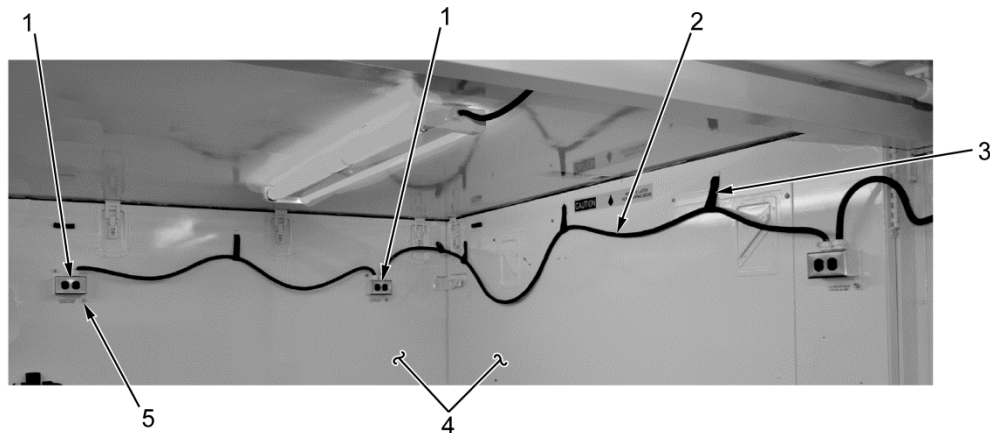
28. Loosen four thumbscrews (Figure 14, Item 3) and remove two 120V receptacles (Figure 14, Item 1) from shelter wall (Figure 14, Item 2).



ARSS0289

Figure 14. 120V Receptacle Removal.

29. Install two 120V receptacles (Figure 15, Item 1) to shelter walls (Figure 15, Item 4) and secure with four thumbscrews (Figure 15, Item 5).
30. Secure cable (Figure 15, Item 2) on shelter walls (Figure 15, Item 4) with five hook and loop (Figure 15, Item 3).



ARSS0291

Figure 15. 120V Receptacle Installation.

SETUP - Continued

31. Remove three cables (Figure 16, Item 7) from clips (Figure 16, Item 8).
32. Press three thumbscrews (Figure 16, Item 1) and remove three light assemblies (Figure 16, Item 2) from ceiling (Figure 16, Item 4).
33. Press three thumbscrews (Figure 16, Item 5) and install three light assemblies (Figure 16, Item 3) on ceiling (Figure 16, Item 4) of shelter extension and plug cable (Figure 16, Item 6) into outlet.

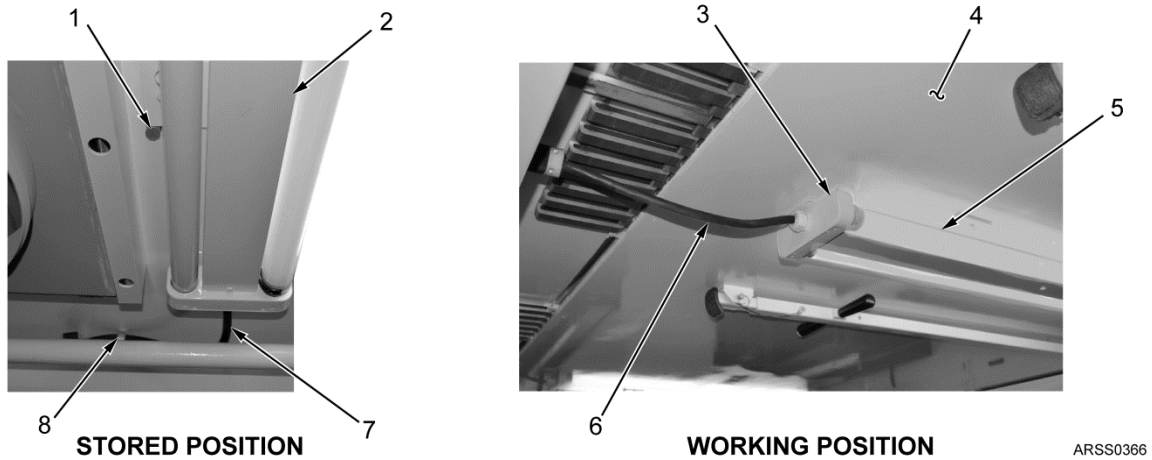


Figure 16. Light Assembly Installation.

34. Loosen two wing nuts (Figure 17, Item 2) and remove exterior door lamp (Figure 17, Item 1) from interior mount (Figure 17, Item 5).
35. Install exterior door lamp (Figure 17, Item 1) on exterior mount (Figure 17, Item 3) and secure by tightening two wing nuts (Figure 17, Item 4).

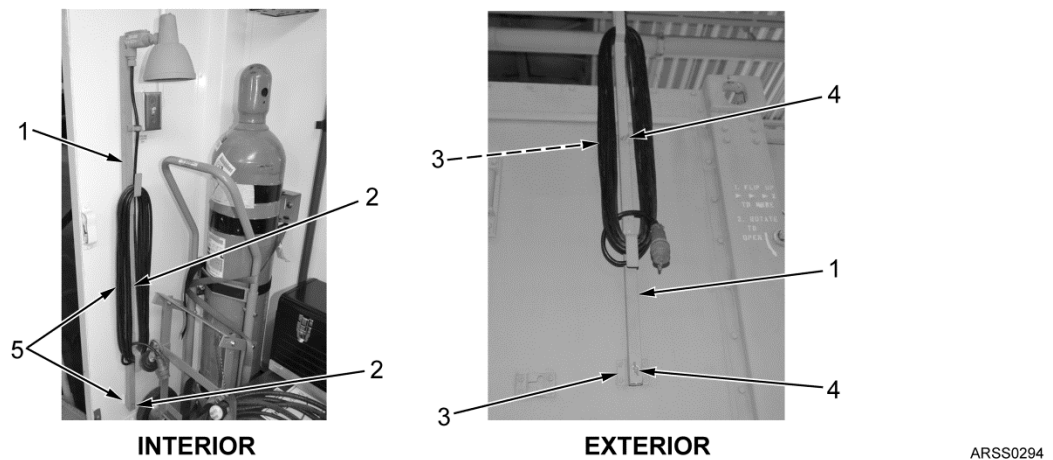
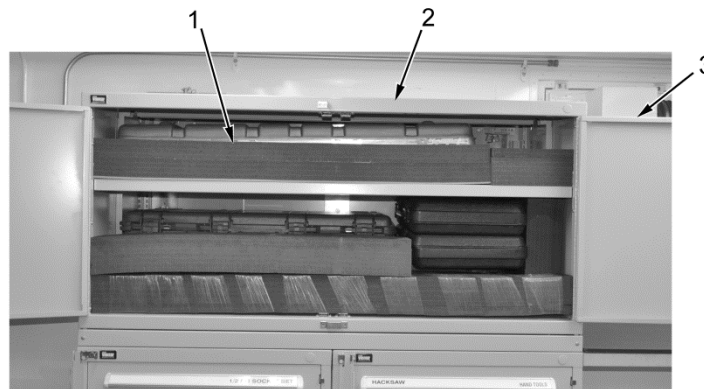


Figure 17. Exterior Door Lamp Installation.

SETUP - Continued**NOTE**

Set packing foam aside for future use.

36. Open two tool cabinet doors (Figure 18, Item 3) and remove five pieces of packing foam (Figure 18, Item 1) from tool cabinet D (Figure 18, Item 2).



ARSS0299

Figure 18. Packing Foam.

37. Remove slide hammer (Figure 19, Item 2) and three grounding rods (Figure 19, Item 1) from ammo cabinet bottom rack (Figure 19, Item 3).



ARSS0297

Figure 19. Grounding Rod.

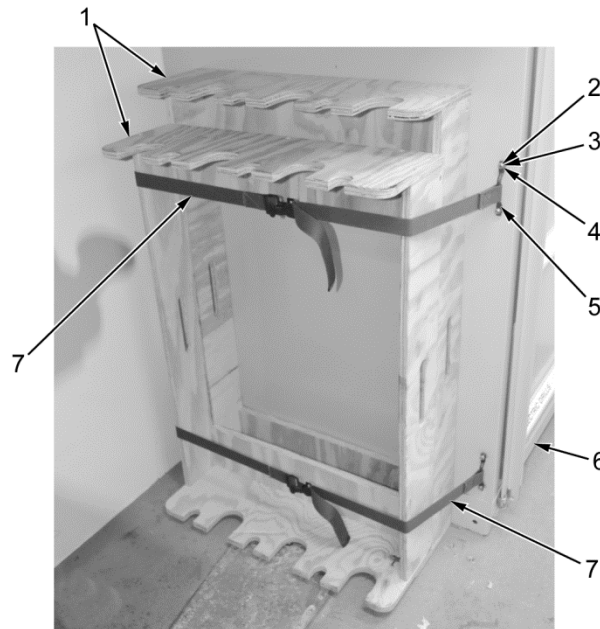
SETUP - Continued

38. Remove two straps (Figure 20, Item 6) from universal storage trays (Figure 20, Item 1).
39. Remove universal storage trays (Figure 20, Item 1) from tool cabinet A (Figure 20, Item 6).
40. Replace straps (Figure 20, Item 7) if damaged or worn.

NOTE

Inspect footman loops for damage or missing hardware. If damaged, perform Step 41.

41. Remove two screws (Figure 20, Item 2), lockwashers (Figure 20, Item 3), flat washers (Figure 20, Item 4) and footman loop (Figure 20, Item 5) from tool cabinet A (Figure 20, Item 6).



ARSS0420

Figure 20. Universal Storage Tray.

42. Perform Shelter Grounding Procedures (TM 10-5411-201-14).

END OF TASK**FOLLOW-ON MAINTENANCE**

Power ARSS ON (WP 0009).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - SECURE ARSS SHELTER

INITIAL SETUP:**Tools and Special Tools**

Extension, Socket, Wrench 3/8" Drive, 6"
(WP 0124, Item 6)
Handle, Socket Wrench 3/8" Drive (WP
0124, Item 7)
Ladder (WP 0124, Item 9)
Screwdriver, Flat Tip (WP 0124, Item 12)
Socket, Socket, Wrench 3/8" Drive, 9/16"
(WP 0124, Item 13)
Wrench, Adjustable, 8" (WP 0124, Item 15)

Personnel Required

Small Arms/Artillery Repairer - 91F
Non-Specific MOS (2)

References

WP 0009
SC 4940-95-A70
TM 10-5411-201-14

Equipment Condition

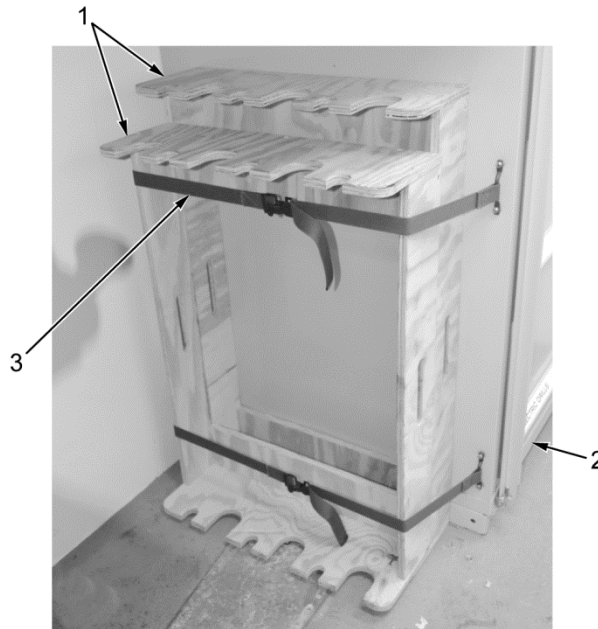
ARSS setup for operation (WP 0006)

Materials/Parts

Washer, Lock Qty: 49 (WP 0122, Table 1,
Item 4)

SECURE

1. Turn ARSS Power OFF (WP 0009).
2. Perform Shelter Un-Grounding Procedures (TM 10-5411-201-14).
3. Install universal storage trays (Figure 1, Item 1) in position against tool cabinet A (Figure 1, Item 2) and secure with two ratchet straps (Figure 1, Item 3).



ARSS0421

Figure 1. Universal Storage Trays.

SECURE - Continued**NOTE**

Use ARSS tool supply catalog to aid in tool location.

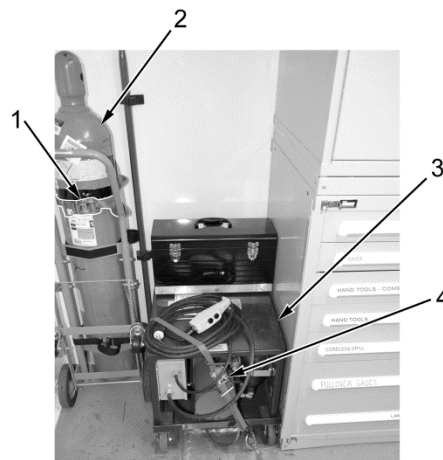
4. Return all tools and equipment to their proper locations in tool cabinets (Figure 2, Item 2) and drawers (Figure 2, Item 4).
5. Brace tool cases in tool cabinet D (Figure 2, Item 2) with five pieces of packing foam (Figure 2, Item 1).
6. Close two tool cabinet doors (Figure 2, Item 3) on tool cabinet (Figure 2, Item 2).



ARSS0320

Figure 2. Tool Cabinet and Drawers.

7. Secure nitrogen intensifier (Figure 3, Item 3) with ratchet strap (Figure 3, Item 4).
8. Secure compressed gas cylinder (Figure 3, Item 2) with ratchet strap (Figure 3, Item 1).

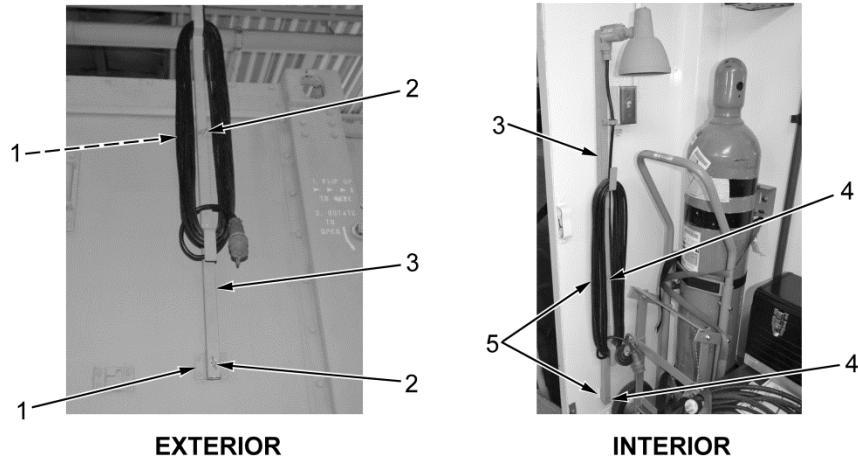


ARSS0296

Figure 3. Nitrogen Intensifier and Compressed Gas Cylinder.

SECURE - Continued

9. Loosen two wing nuts (Figure 4, Item 2) and remove exterior door lamp (Figure 4, Item 3) from exterior mount (Figure 4, Item 1).
10. Install exterior door lamp (Figure 4, Item 3) on interior mount (Figure 4, Item 5) and tighten two wing nuts (Figure 4, Item 4).



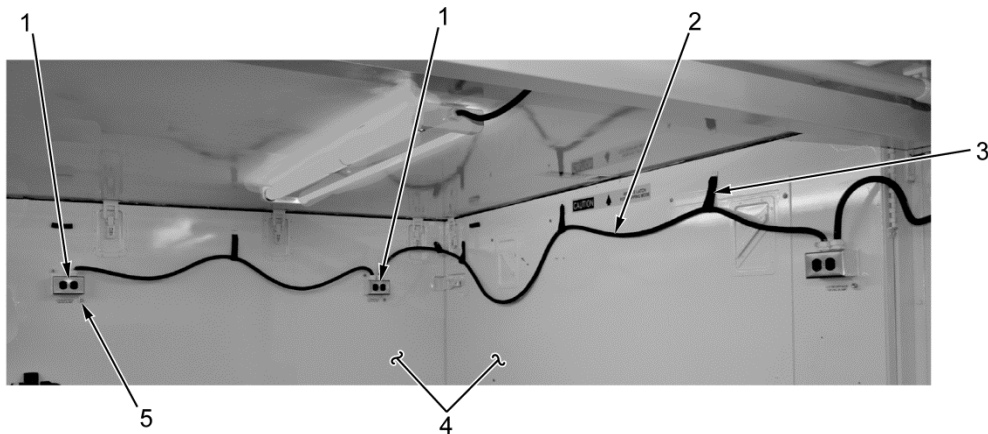
ARSS0401

Figure 4. Exterior and Interior Door Lamp Mount.

NOTE

Repeat Steps 11 thru 13 for other optional 120V receptacle on opposite side of shelter.

11. Remove five hook and loop (Figure 5, Item 3) on shelter walls (Figure 5, Item 4) securing cable (Figure 5, Item 2).
12. Loosen four thumbscrews (Figure 5, Item 5) and remove two 120V receptacles (Figure 5, Item 1) from shelter walls (Figure 5, Item 4).

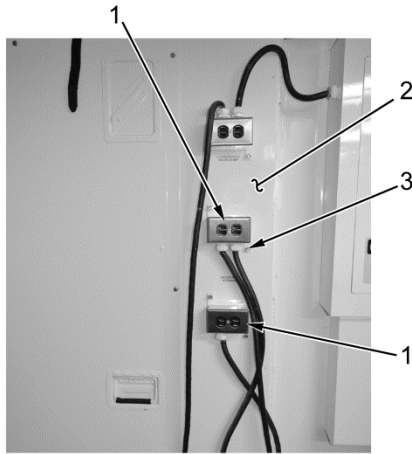


ARSS0292

Figure 5. 120V Receptacle Removal.

SECURE - Continued

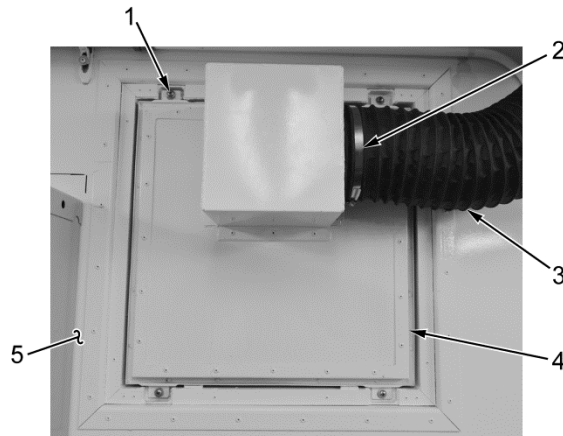
13. Install two 120V receptacles (Figure 6, Item 1) on shelter wall (Figure 6, Item 2) and tighten four thumbscrews (Figure 6, Item 3).



ARSS0290

Figure 6. 120V Receptacle Installation.

14. Loosen clamp (Figure 7, Item 2) and remove flexible duct (Figure 7, Item 3) from modified closeout panel (Figure 7, Item 4).
15. Loosen four screws (Figure 7, Item 1) and remove modified closeout panel (Figure 7, Item 4) from shelter wall (Figure 7, Item 5) and set aside.

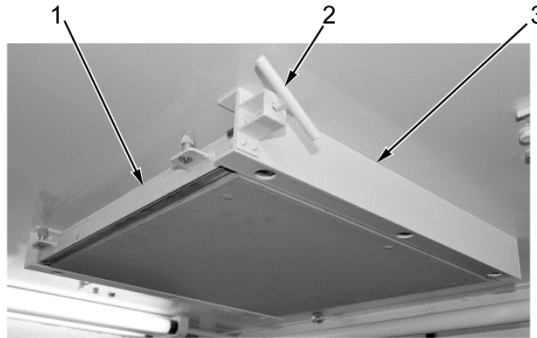


ARSS0288

Figure 7. Modified Closeout Panel Removal.

SECURE - Continued

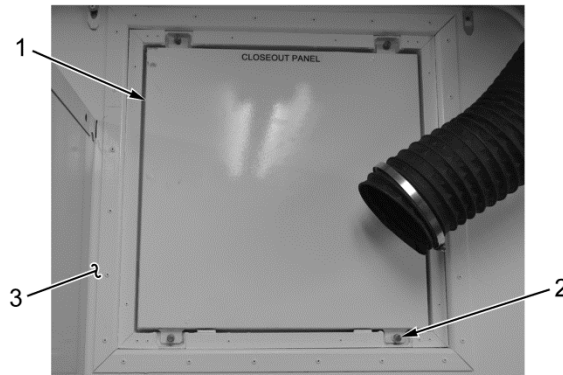
16. Pull retaining pin (Figure 8, Item 2) and remove closeout panel (Figure 8, Item 1) from panel mount (Figure 8, Item 3).



ARSS0286

Figure 8. Closeout Panel.

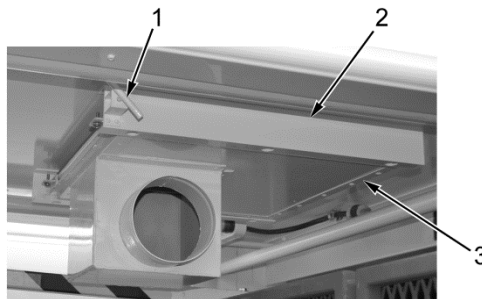
17. Install closeout panel (Figure 9, Item 1) in shelter wall (Figure 9, Item 3) and tighten four screws (Figure 9, Item 2).



ARSS0283

Figure 9. Closeout Panel Removal.

18. Pull retaining pin (Figure 10, Item 1) and secure modified closeout panel (Figure 10, Item 3) in panel mount (Figure 10, Item 2).

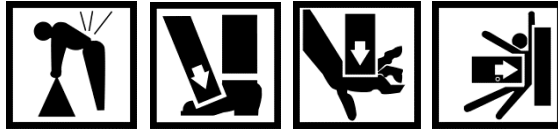


ARSS0367

Figure 10. Modified Closeout Panel Installation.

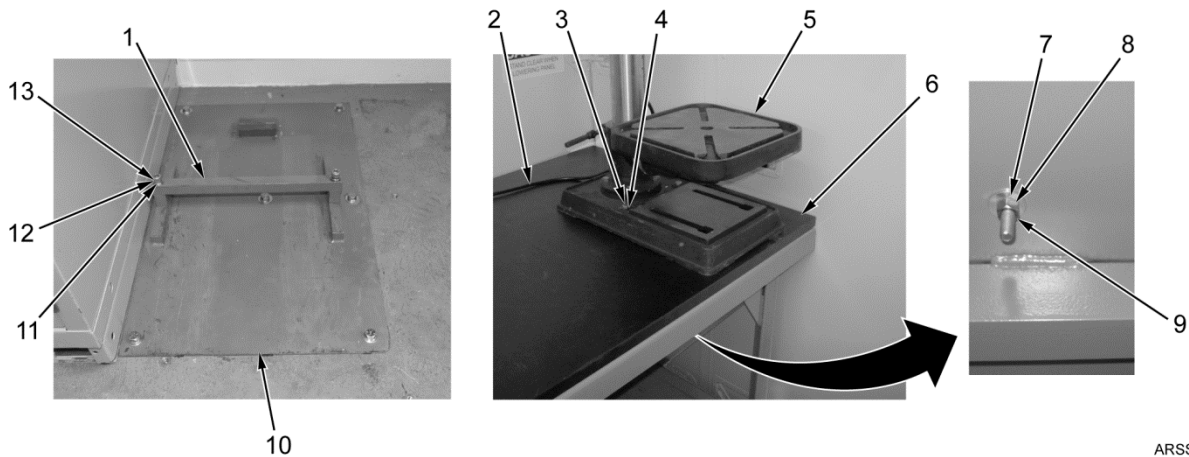
SECURE - Continued

WARNING



The drill press weighs 160 lb (73 kg). Do not attempt to lift drill press without the aid of another person or suitable lifting device. All personnel must stand clear during lifting operation. The drill press could swing or shift during removal. Failure to follow this warning may cause injury or death.

19. Remove two bolts (Figure 11, Item 13), lockwashers (Figure 11, Item 12), flat washers (Figure 11, Item 11) and retaining bracket (Figure 11, Item 1) from drill press bracket (Figure 11, Item 10) under workbench.
20. Remove drill press power cord (Figure 11, Item 2) from receptacle.
21. Remove two bolts (Figure 11, Item 3), flat washers (Figure 11, Item 4), nuts (Figure 11, Item 9), lockwashers (Figure 11, Item 8), flat washers (Figure 11, Item 7), and drill press (Figure 11, Item 5) from workbench A (Figure 11, Item 6).
22. Install drill press (Figure 11, Item 5), retaining bracket (Figure 11, Item 1), two flat washers (Figure 11, Item 11), new lockwashers (Figure 11, Item 12) and bolts (Figure 11, Item 13) on drill press bracket (Figure 11, Item 10).

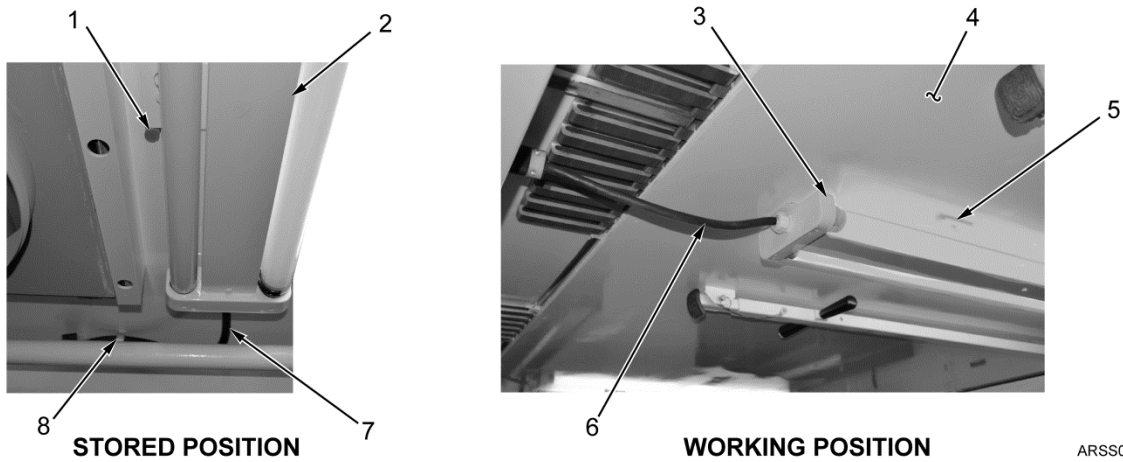


ARSS0402

Figure 11. Drill Press Removal/Installation.

SECURE - Continued

23. Unplug three cables (Figure 12, Item 6) on light assemblies (Figure 12, Item 3).
24. Press three thumbscrews (Figure 12, Item 5) and remove three light assemblies (Figure 12, Item 3) from ceiling (Figure 12, Item 4).
25. Press three thumbscrews (Figure 12, Item 1) and install three light assemblies (Figure 12, Item 2) in stowage position on ceiling (Figure 12, Item 4) of shelter and store cable (Figure 12, Item 7) in clip (Figure 12, Item 8).



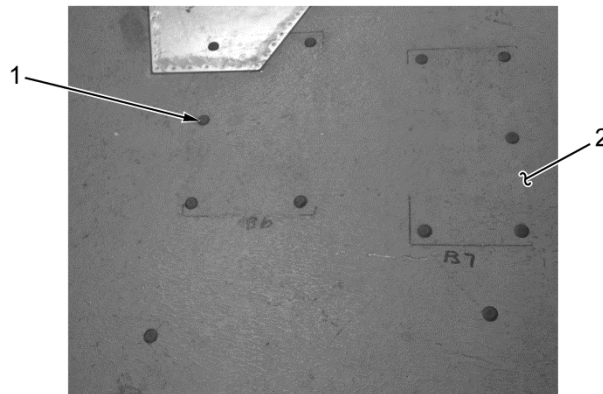
ARSS0365

Figure 12. Light Assembly Installation.

NOTE

Store plugs in ARSS BII Box.

26. Remove 46 insert plugs (Figure 13, Item 1) from floor (Figure 13, Item 2).

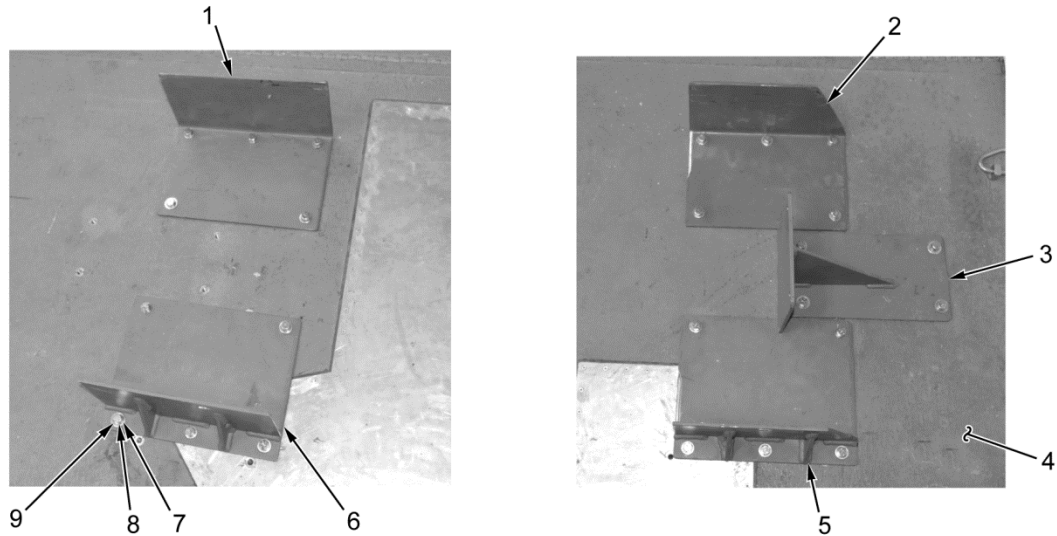


ARSS0392

Figure 13. Insert Plug Removal.

SECURE - Continued

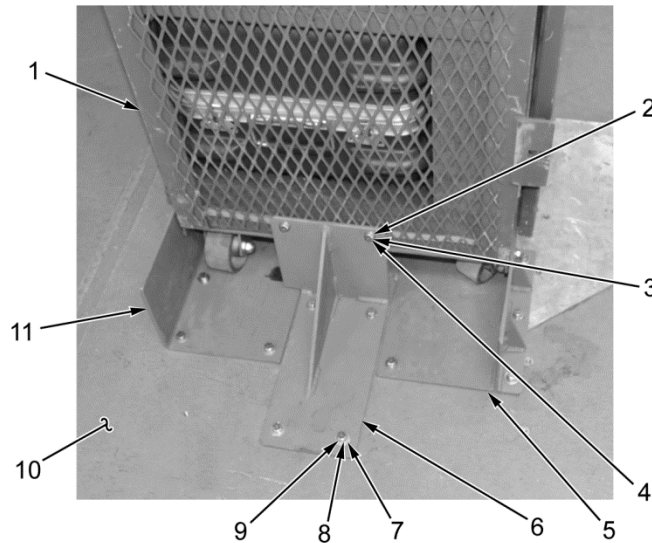
27. Install bracket B1 (Figure 14, Item 5), bracket B2 (Figure 14, Item 3), bracket B3 (Figure 14, Item 2), bracket B4 (Figure 14, Item 6), bracket B5 (Figure 14, Item 1), 24 flat washers (Figure 14, Item 7), new lockwashers (Figure 14, Item 8), and bolts (Figure 14, Item 9) on floor (Figure 14, Item 4).



ARSS0419

Figure 14. Bracket B1 thru B5 Installation.

28. Slide ammo cabinet (Figure 15, Item 1) through bracket B4 (Figure 15, Item 5) and bracket B5 (Figure 15, Item 11).
29. Install bracket B6 (Figure 15, Item 6), four flat washers (Figure 15, Item 7), new lockwashers (Figure 15, Item 8), and bolts (Figure 15, Item 9) on floor (Figure 15, Item 10).
30. Install eight flat washers (Figure 15, Item 4), new lockwashers (Figure 15, Item 3), and bolts (Figure 15, Item 2) in sides of ammo cabinet (Figure 15, Item 1).



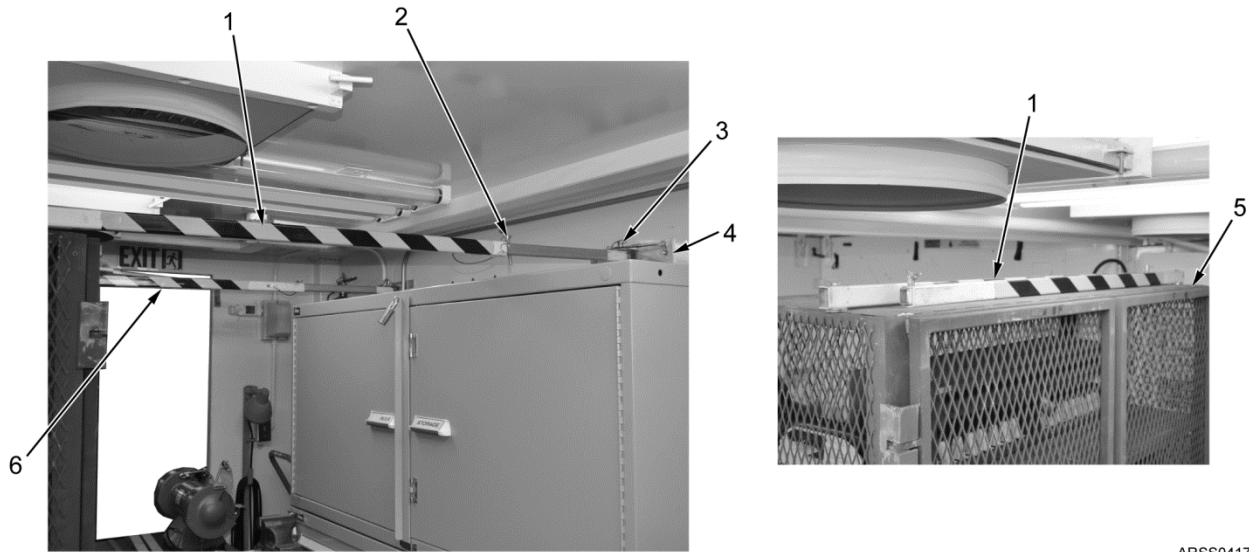
ARSS0422

Figure 15. Ammo Cabinet and Bracket B6 Installation.

SECURE - Continued**NOTE**

Left inner/outer rod lateral bracket must be performed first. Repeat Steps 31 thru 33 for right inner/outer rod lateral bracket.

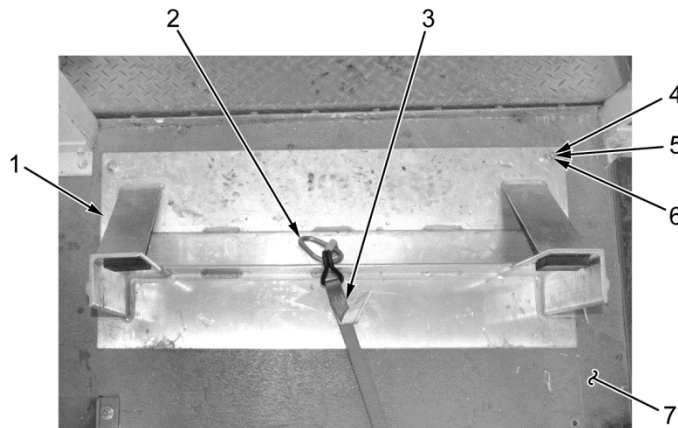
31. Remove retaining pin (Figure 16, Item 2) securing inner/outer rod lateral bracket (Figure 16, Item 1) to ammo cabinet (Figure 16, Item 5) and rotate out to wall.
32. Extend inner/outer rod lateral bracket (Figure 16, Item 1) and install retaining pin (Figure 16, Item 2).
33. Install inner/outer rod lateral bracket (Figure 16, Item 1) in ammo cabinet bracket (Figure 16, Item 4) and install retaining pin (Figure 16, Item 3).



ARSS0417

Figure 16. Ammo Cabinet Inner/Outer Rod Lateral Bracket Installation.

34. Install bracket B7 (Figure 17, Item 1), d-ring (Figure 17, Item 2), four flat washers (Figure 17, Item 6), new lockwashers (Figure 17, Item 5), and bolts (Figure 17, Item 4) on floor (Figure 17, Item 7).
35. Install one end of ratchet strap (Figure 17, Item 3) on d-ring (Figure 17, Item 2).



ARSS0416

Figure 17. Bracket B7 Installation.

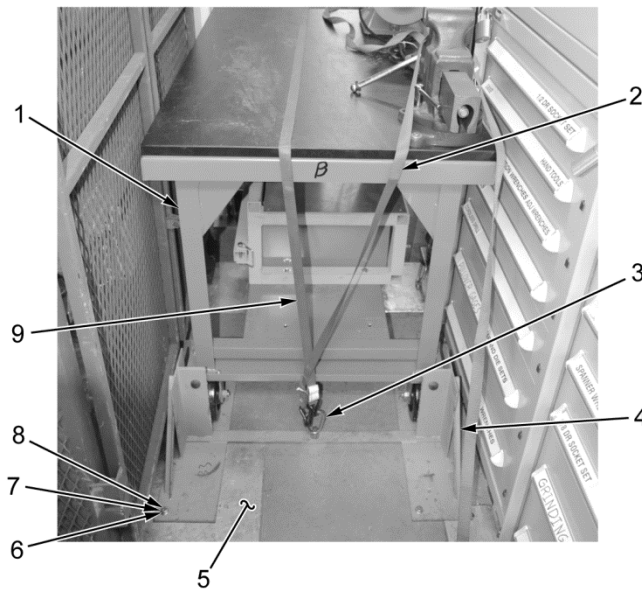
SECURE - Continued**WARNING**

Each workbench weighs 275 lb (125 kg). Use two or more personnel when moving workbenches. Workbenches can shift or come loose during movement and strike personnel. Always ensure workbenches are locked in place with floor lock when not moving. Failure to follow this warning may cause injury or death.

NOTE

Ensure ratchet strap goes over and above workbench when moving into place.

36. Release floor lock if locked and roll workbench B (Figure 18, Item 1) in place.
37. Tilt workbench B (Figure 18, Item 1) and install bracket B8 (Figure 14, Item 6), four flat washers (Figure 18, Item 6), new lockwashers (Figure 18, Item 7), bolts (Figure 18, Item 8), and d-ring (Figure 18, Item 3) on floor (Figure 18, Item 5).
38. Install ratchet strap (Figure 18, Item 9) over workbench B (Figure 18, Item 1) and on d-ring (Figure 18, Item 3).
39. Install another ratchet strap (Figure 18, Item 2) on d-ring (Figure 18, Item 3).



ARSS0415

Figure 18. Workbench B and Bracket B8 Installation.

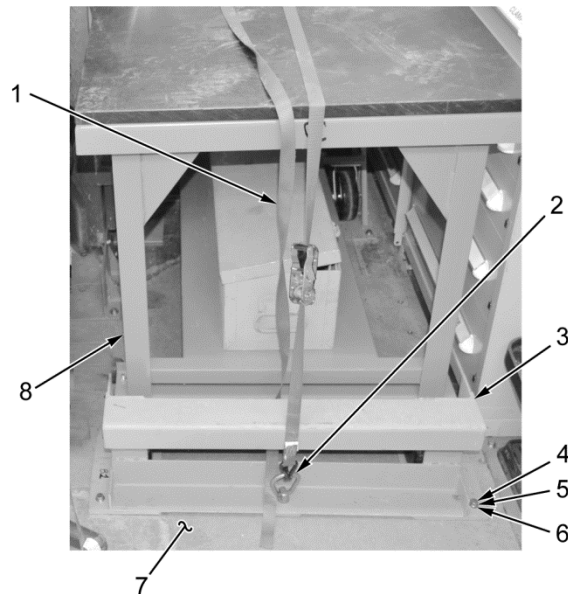
SECURE - Continued**WARNING**

Each workbench weighs 275 lb (125 kg). Use two or more personnel when moving workbenches. Workbenches can shift or come loose during movement and strike personnel. Always ensure workbenches are locked in place with floor lock when not moving. Failure to follow this warning may cause injury or death.

NOTE

Ensure ratchet strap goes over and above workbench when moving into place.

40. Release floor lock if locked and roll workbench A (Figure 19, Item 8) in place.
41. Tilt workbench A (Figure 19, Item 8) and install bracket B9 (Figure 14, Item 3), four flat washers (Figure 19, Item 6), new lockwashers (Figure 19, Item 5), bolts (Figure 19, Item 4), and d-ring (Figure 19, Item 2) on floor (Figure 19, Item 7).
42. Install ratchet strap (Figure 19, Item 1) over workbench A (Figure 19, Item 8) and on d-ring (Figure 19, Item 2).

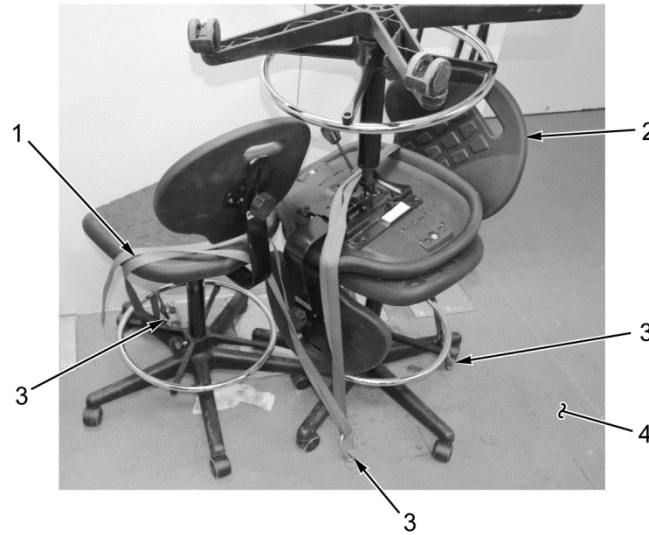


ARSS0414

Figure 19. Workbench A and Bracket B9 Installation.

SECURE - Continued

43. Install three d-rings (Figure 20, Item 3) on floor (Figure 20, Item 4).
44. Secure chairs (Figure 20, Item 2) in position shown with ratchet strap (Figure 20, Item 1) on three d-rings (Figure 20, Item 3)



ARSS0413

Figure 20. Chair Installation.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - SECURE ARSS SHELTER FOR TRANSPORT

INITIAL SETUP:**Tools and Special Tools**

Wrench, Adjustable, 8" (WP 0124, Item 15)

References

WP 0010

Personnel Required

Small Arms/Artillery Repairer - 91F
Non-Specific MOS (3)

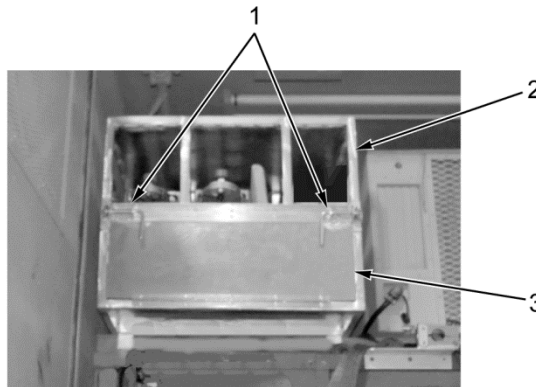
Equipment Condition

ARSS shelter secure (WP 0007)

SECURE ARSS SHELTER**WARNING**

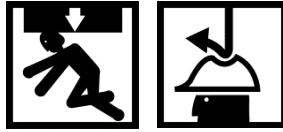
To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

1. Release two spring latches (Figure 1, Item 1), open panel (Figure 1, Item 3) and empty contents from storage rack (Figure 1, Item 2).
2. Close panel (Figure 1, Item 3) and secure two spring latches (Figure 1, Item 1).



ARSS0326

Figure 1. Storage Rack Contents.

SECURE ARSS SHELTER - Continued**WARNING**

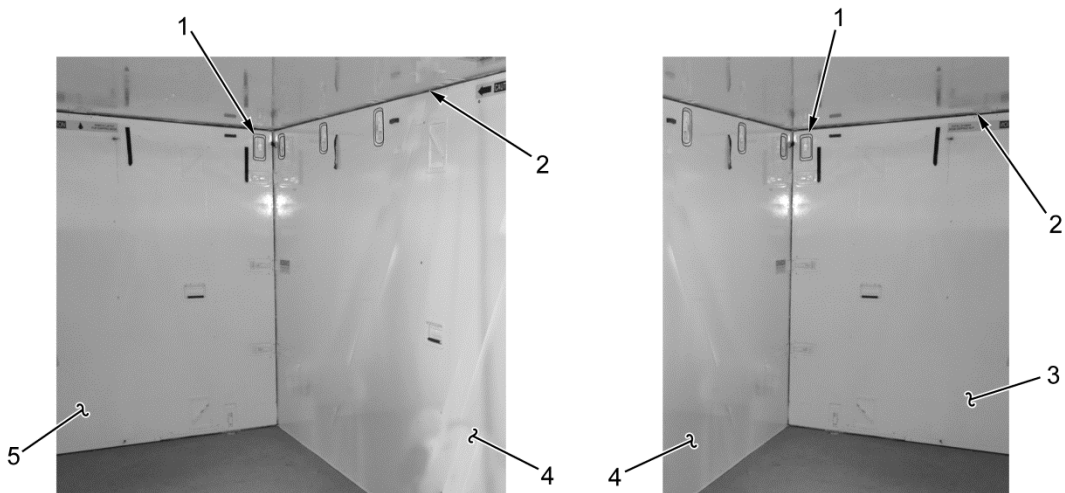
Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this warning may cause injury or death.

CAUTION

Ensure all 16 latches are loosened and collapsed into sidewall and end walls. Latches that are not fully collapsed could catch and cause damage. Failure to follow this caution may cause damage to equipment.

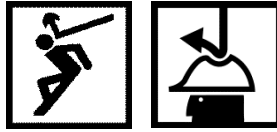
NOTE

- Ensure hinged floor is clear of items, dirt, and debris.
 - Ensure floor hinges are clear of dirt and sand.
 - Ensure shelter ceiling/roof is clear of any debris, snow, or ice.
3. Unlatch 16 latches (Figure 2, Item 1) on sidewall (Figure 2, Item 4) and two end walls (Figure 2, Items 3 and 5) from shelter ceiling/roof (Figure 2, Item 2).
 4. Collapse 16 latches (Figure 2, Item 1) in sidewall (Figure 2, Item 4) and two end walls (Figure 2, Items 3 and 5).



ARSS0363

Figure 2. Latch Removal.

SECURE ARSS SHELTER - Continued**WARNING**

Ensure inner tubes of support struts are supported when disengaging from stowage brackets. Wear head protection at all times to prevent head injury. Inner tubes could extend out unexpectedly and injure personnel. Failure to follow this warning may cause injury.

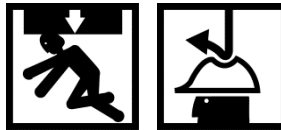
CAUTION

Do not extend shelter ceiling/roof to full height when using support struts. Extending shelter ceiling/roof beyond top of sidewall may damage sidewall seal. Failure to follow this caution may cause damage to equipment.

NOTE

Support struts will need to be adjusted up to accommodate correct support of shelter ceiling/roof.

5. Pull two lock pins (Figure 3, Item 1) to free support struts (Figure 3, Item 3) from stowage brackets (Figure 3, Item 2), extend support struts, and secure with lock pins.

WARNING

Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this warning may cause injury or death.

6. With two personnel on two support struts (Figure 3, Item 3), and two assisting at shelter ceiling/roof (Figure 3, Item 4), lift shelter ceiling/roof (Figure 3, Item 4) away from sidewall (Figure 3, Item 5) and brace with support struts.

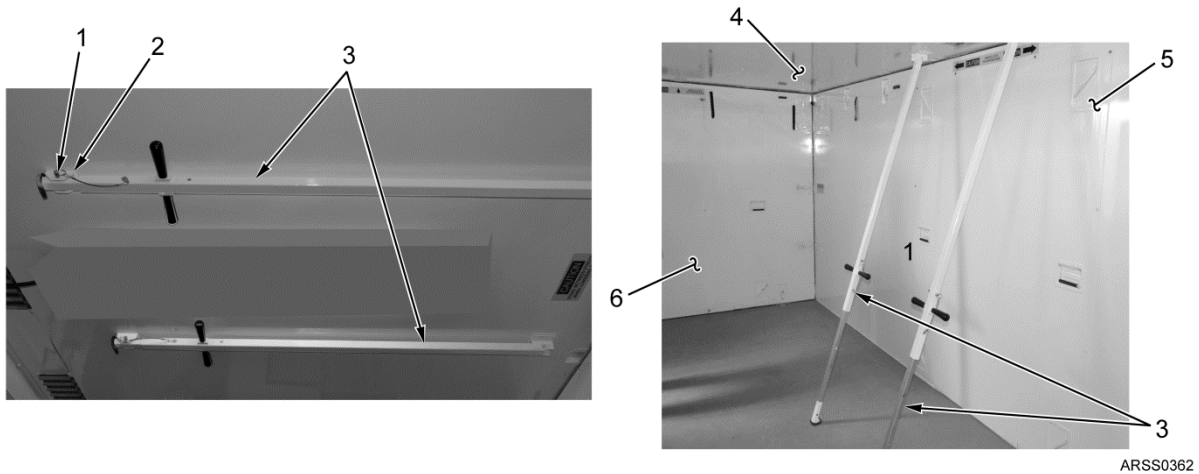
SECURE ARSS SHELTER - Continued

Figure 3. Shelter Ceiling/Roof Removal.

NOTE

Lower hinged floor enough so end walls in Step 10 can swing inward and that shelter ceiling/roof in Step 11 can swing downward (approximately 2 in. (5 cm)).

7. Lower two leveling jacks (Figure 4, Item 3) by turning handle (Figure 4, Item 2) clockwise to lower hinged floor (Figure 4, Item 4).
8. Flatten SEP panel (Figure 4, Item 1) in the stow position.



ARSS0399

Figure 4. Lower Hinged Floor.

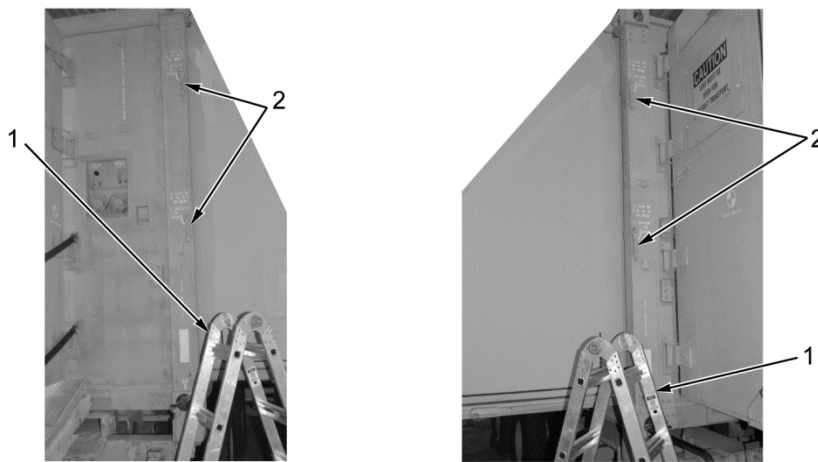
SECURE ARSS SHELTER - Continued**WARNING**

When using a ladder, always climb using a three-point grip; either two hands and one foot or one hand and two feet should be on the ladder at all times. Have a person on the ground spotting you and holding the ladder firmly in place. Failure to follow this warning may cause injury.

NOTE

Ensure cam handles are in the open position.

9. Place two ladders (Figure 5, Item 1) on each side of shelter next to cam lock handles (Figure 5, Item 2).



ARSS0339

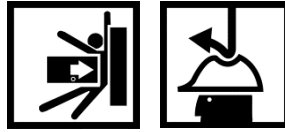
Figure 5. Ladder Placement.

10. Swing two end walls (Figure 6, Item 1) inward.



ARSS0357

Figure 6. Securing End Wall.

SECURE ARSS SHELTER - Continued**WARNING**

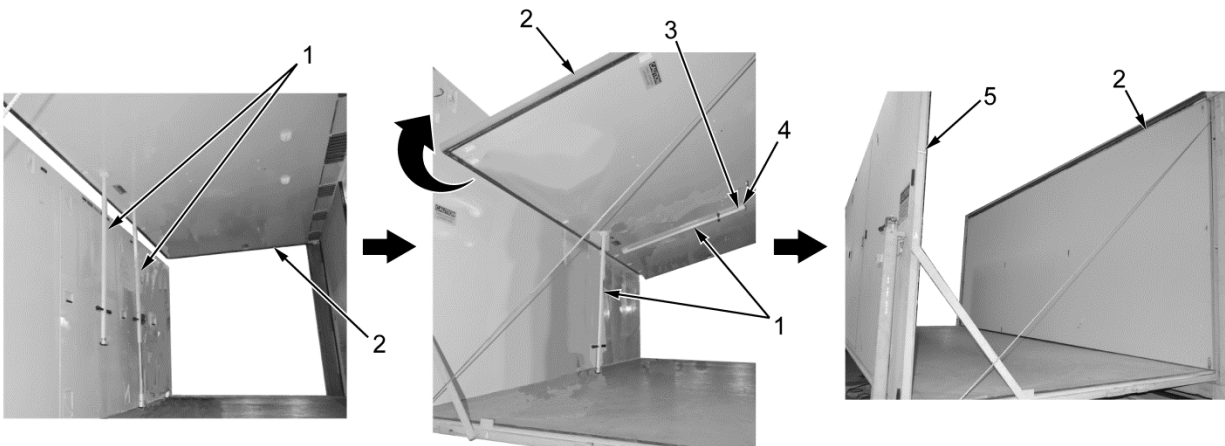
Ensure proper care is taken when lowering shelter ceiling/roof. Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Wear head protection at all times to prevent head injury. Personnel may get caught between shelter ceiling/roof. Failure to follow this warning may cause injury or death.

11. With two personnel on two support struts (Figure 7, Item 1), and two assisting at shelter ceiling/roof (Figure 7, Item 2), lift shelter ceiling/roof away from sidewall (Figure 7, Item 5) and leave standing on short support strut.
12. Stow long support strut (Figure 7, Item 1) in position on stowage bracket (Figure 7, Item 3) and secure with lock pin (Figure 7, Item 4).

NOTE

Two personnel will assist lifting the shelter ceiling/roof and exit through the ends of the shelter, two other personnel will lifting from the inside of the shelter ceiling/roof and exit through the opening inside the shelter.

13. Lift shelter ceiling/roof (Figure 7, Item 2) again and slowly lower shelter ceiling/roof (Figure 7, Item 2) against shelter.
14. Collapse shelter ceiling/roof (Figure 7, Item 2) completely against shelter.
15. Stow short support strut (Figure 7, Item 1) in position on stowage bracket (Figure 7, Item 3) and secure with lock pin (Figure 7, Item 4).



ARSS0400

Figure 7. Securing Shelter Ceiling/Roof.

SECURE ARSS SHELTER - Continued

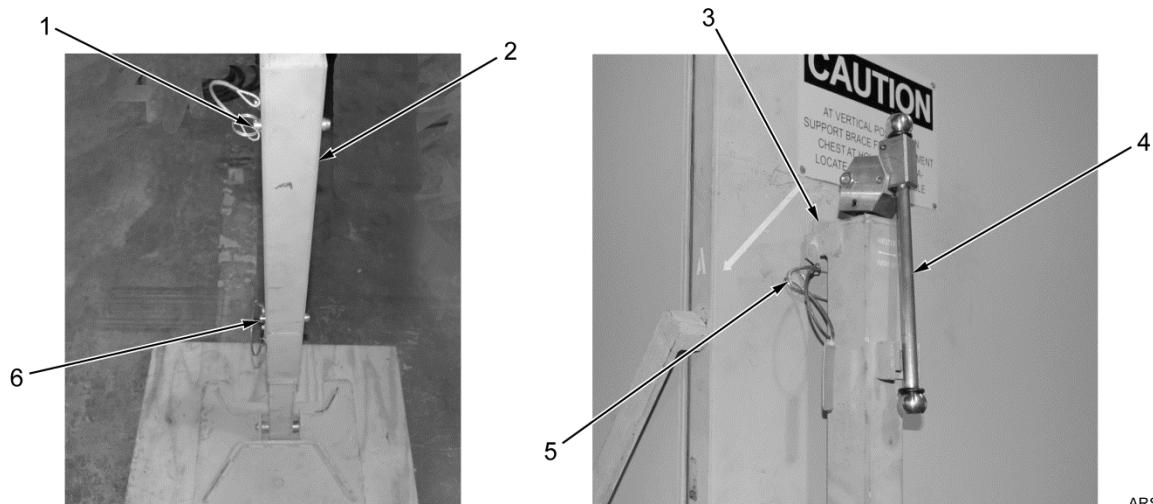
16. Pull solar bar handle (Figure 8, Item 1) clockwise to engage tension on shelter ceiling/roof.



ARSS0353

Figure 8. Solar Bar Handle.

17. Rotate two handles (Figure 9, Item 4) on leveling jacks (Figure 9, Item 2) to retract.
18. Remove two safety pins (Figure 9, Item 5) and leveling jacks (Figure 9, Item 2) from leveling jack mounts (Figure 9, Item 3) on both ends of shelter.
19. Remove two pins (Figure 9, Items 1 and 6) on two leveling jacks (Figure 9, Item 2) and retract completely.
20. Install pins (Figure 9, Items 1 and 6) back in leveling jacks (Figure 9, Item 2) and lock handle (Figure 9, Item 4).



ARSS0351

Figure 9. Removing Leveling Jacks.

SECURE ARSS SHELTER - Continued

21. Install two level jacks (Figure 10, Item 1) on two jack mounts (Figure 10, Item 4) inside of personnel door (Figure 10, Item 2) and secure with two safety pins (Figure 10, Item 3).

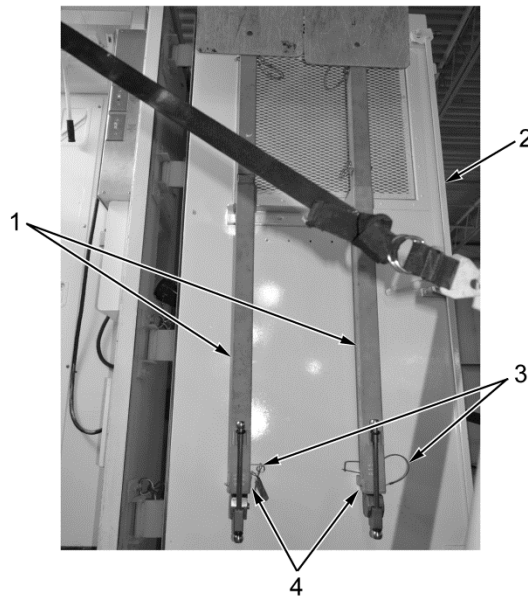
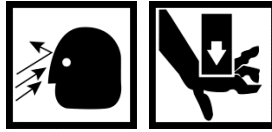


Figure 10. Securing Leveling Jacks

ARSS0349

SECURE ARSS SHELTER - Continued**WARNING**

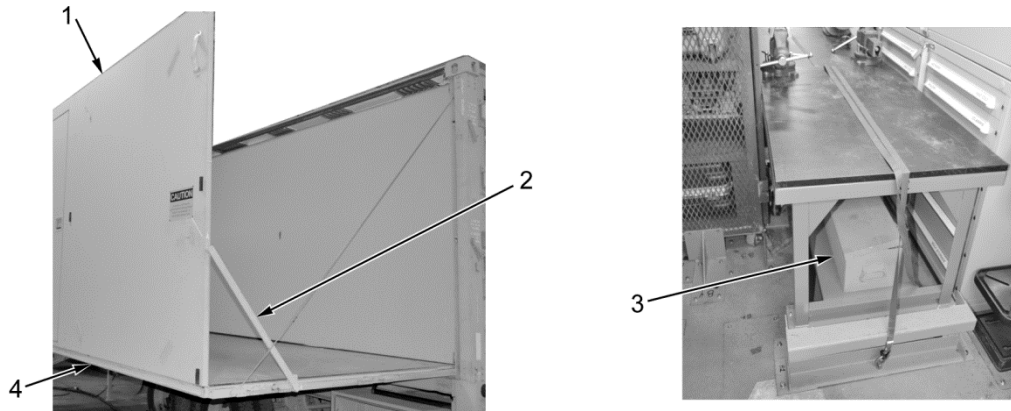
Steer clear of sides of hinged floor during sidewall placement. Dirt and debris could become airborne and cause injury to personnel. Keep all hands and fingers off hinge floor when dropping sidewall. Sidewall could come down and pinch hands and fingers. Failure to follow this warning may cause injury.

22. With two personnel support sidewall (Figure 11, Item 1) from falling backwards, remove two sidewall support braces (Figure 11, Item 2) from sidewall (Figure 11, Item 1) and hinged floor (Figure 11, Item 4) and store in ARSS BII box (Figure 11, Item 3).

NOTE

Allow sidewall to free fall down onto hinged floor.

23. Fold down sidewall (Figure 11, Item 1) on hinged floor (Figure 11, Item 4).



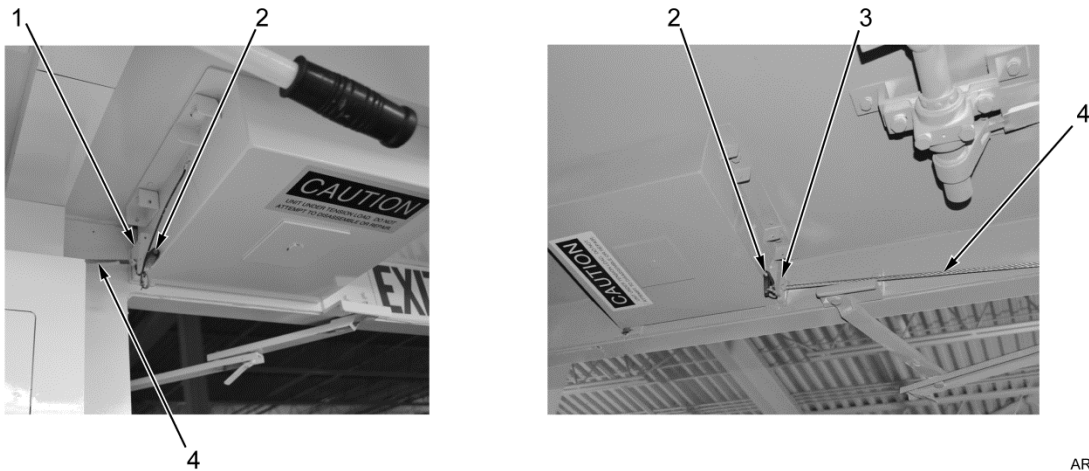
ARSS0347

Figure 11. Folding Down Sidewall.

NOTE

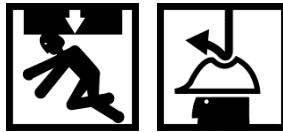
There are a total of two stop-plates in the ARSS. One is located in the mechanical room above the generator and the other is located inside the work room above the personnel door.

24. Remove two quick release pins (Figure 12, Item 2) and un-hasps two stop-plates (Figure 12, Items 1 and 3) to the up position to release support cable (Figure 12, Item 4).
25. Re-install two quick release pins (Figure 12, Item 2).

SECURE ARSS SHELTER - Continued

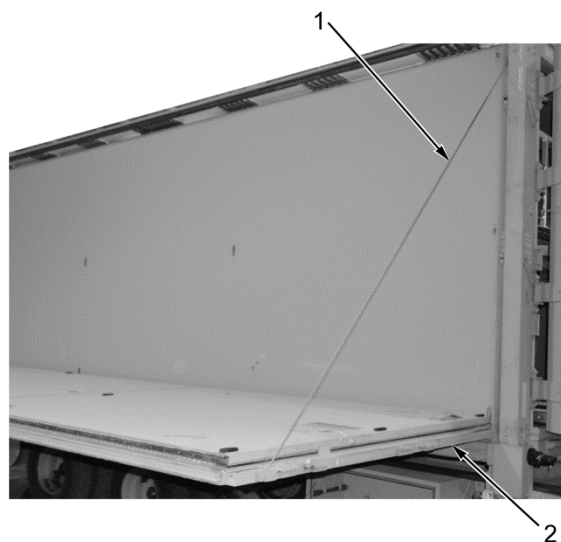
ARSS0345

Figure 12. Releasing Support Cable.

WARNING

Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this warning may cause injury or death.

26. Using four personnel raise hinged floor (Figure 13, Item 2) up against shelter along support cable (Figure 13, Item 1) and hold in place.



ARSS0343

Figure 13. Hinged Floor.

SECURE ARSS SHELTER - Continued

27. Rotate four cam lock handles (Figure 14, Item 1) at orientation shown to close four locks (Figure 14, Item 2).

NOTE

Ensure pins on cam lock handles insert in holes on corners of shelter once locked in place.

28. Flip down four cam lock handles (Figure 14, Item 1) on both sides of shelter.

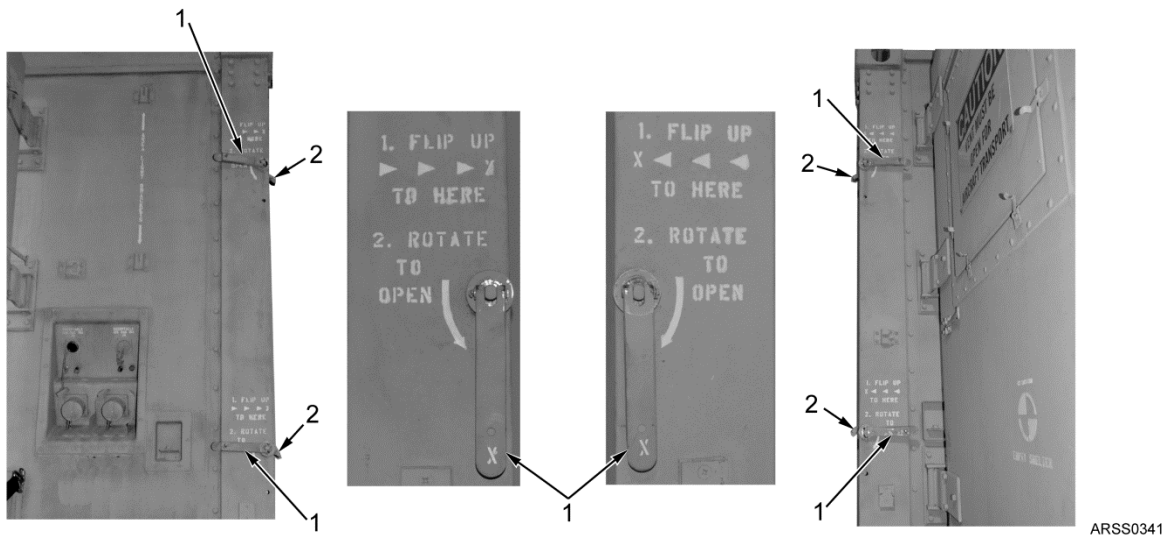
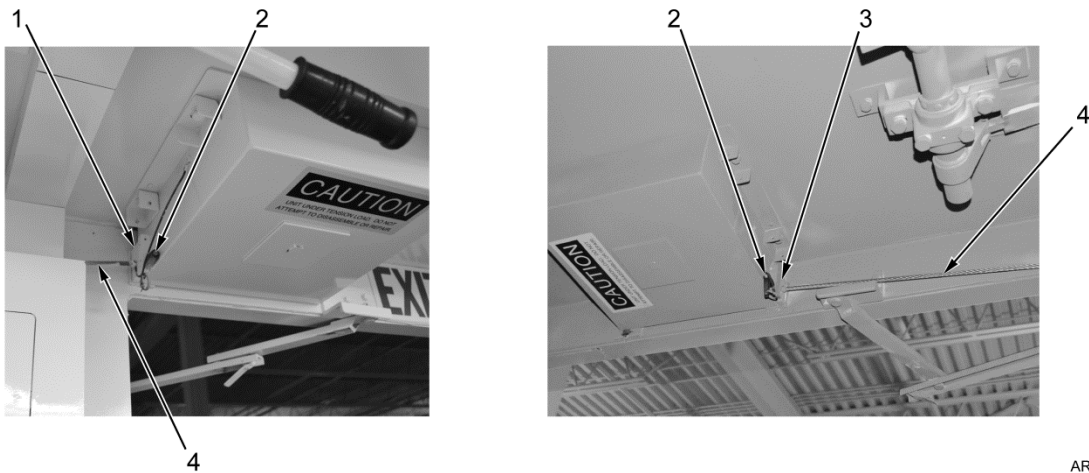


Figure 14. Securing Hinged Floor.

SECURE ARSS SHELTER - Continued**NOTE**

There are a total of two stop-plates in the ARSS. One is located in the mechanical room above the generator and the other is located inside the work room above the personnel door.

29. Remove two quick release pins (Figure 15, Item 2) and hasp two stop-plates (Figure 15, Items 1 and 3) to the down position to clasp support cable (Figure 15, Item 4) and lock shelter walls.
30. Re-install two quick release pins (Figure 15, Item 2).



ARSS0338

Figure 15. Shelter Wall and Cable Release.

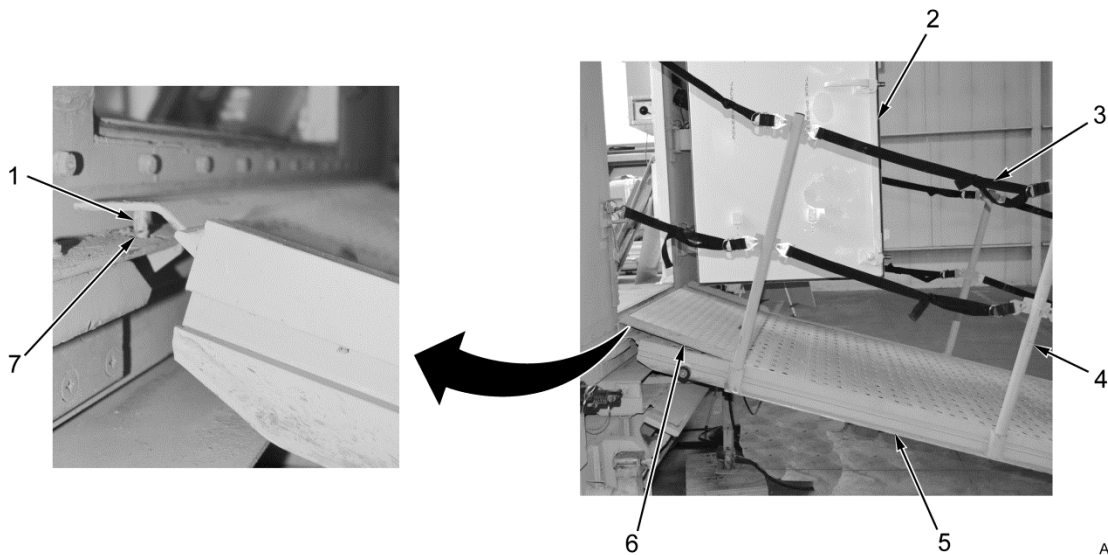
SECURE ARSS SHELTER - Continued

31. Depress door brace and close personnel door (Figure 16, Item 2).
32. Remove threshold plate (Figure 16, Item 6) from ramp (Figure 16, Item 5). Set threshold plate aside.
33. Remove 18 straps (Figure 16, Item 3) and nine posts (Figure 16, Item 4) from ramp (Figure 16, Item 5).

WARNING

To avoid personal injury, lifting and extending/retracting ramp requires four personnel to perform. Always lift with knees and be careful of pinching extremities. Ramp could fall and crush personnel. Failure to follow this warning may cause injury or death.

34. Lift ramp (Figure 16, Item 5) and two pegs (Figure 16, Item 1) off of end closest to shelter from two holes (Figure 16, Item 7) at bottom of personnel door (Figure 16, Item 2), pull ramp out, then partially push ramp into ramp storage.

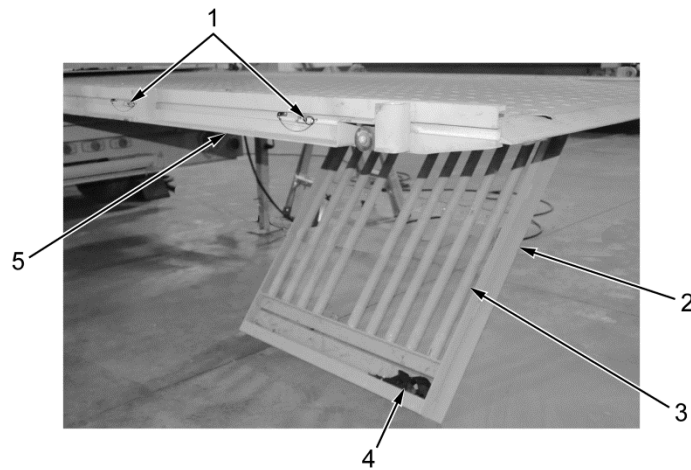


ARSS0336

Figure 16. Ramp Strap and Post Removal.

SECURE ARSS SHELTER - Continued

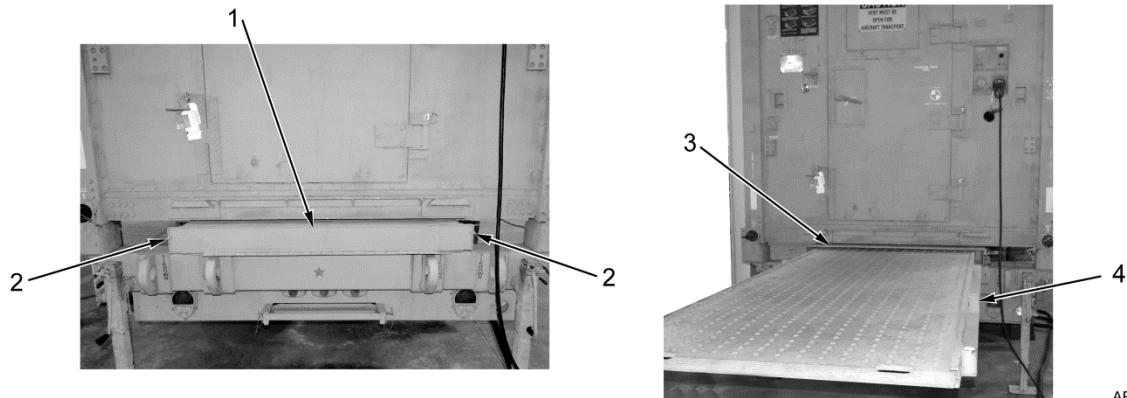
35. Remove two storage pins (Figure 17, Item 1) from ramp (Figure 17, Item 5) and lower storage rack (Figure 17, Item 2).
36. Install nine posts (Figure 17, Item 3) and 18 straps (Figure 17, Item 4) in storage rack (Figure 17, Item 2).
37. Raise storage rack (Figure 17, Item 2) back into position on ramp (Figure 17, Item 5) and secure with two storage pins (Figure 17, Item 1).



ARSS0334

Figure 17. Ramp Storage Rack.

38. Lift and push ramp (Figure 18, Item 4) in ramp storage (Figure 18, Item 3).
39. Close ramp storage cover (Figure 18, Item 1) and latch two retaining j-bolts (Figure 18, Item 2).



ARSS0332

Figure 18. Installing Ramp.

SECURE ARSS SHELTER - Continued**WARNING**

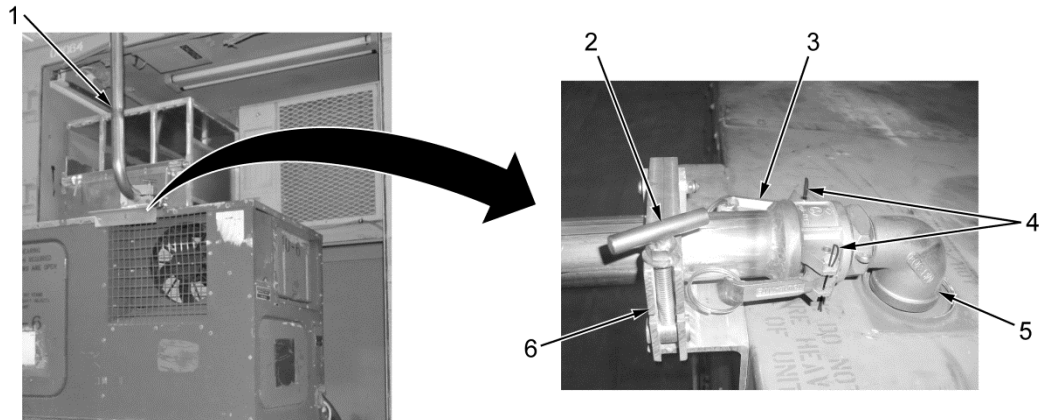
Allow generator to cool before operating or performing maintenance on exhaust pipe.
Hot components may burn personnel. Failure to follow this warning may cause injury.

40. Extend Generator (WP 0010).
41. Remove two cotter pins (Figure 19, Item 4) from exhaust assembly (Figure 19, Item 1) on generator (Figure 19, Item 5).

NOTE

Store exhaust assembly above generator after removal.

42. Loosen t-bolt (Figure 19, Item 2), open clamp (Figure 19, Item 6), unlatch coupling (Figure 19, Item 3), and remove exhaust assembly (Figure 19, Item 1) from generator (Figure 19, Item 5).
43. Install two cotter pins (Figure 19, Item 4) back in exhaust assembly (Figure 19, Item 1).
44. Close exhaust clamp (Figure 19, Item 6) and tighten t-bolt (Figure 19, Item 2).



ARSS0330

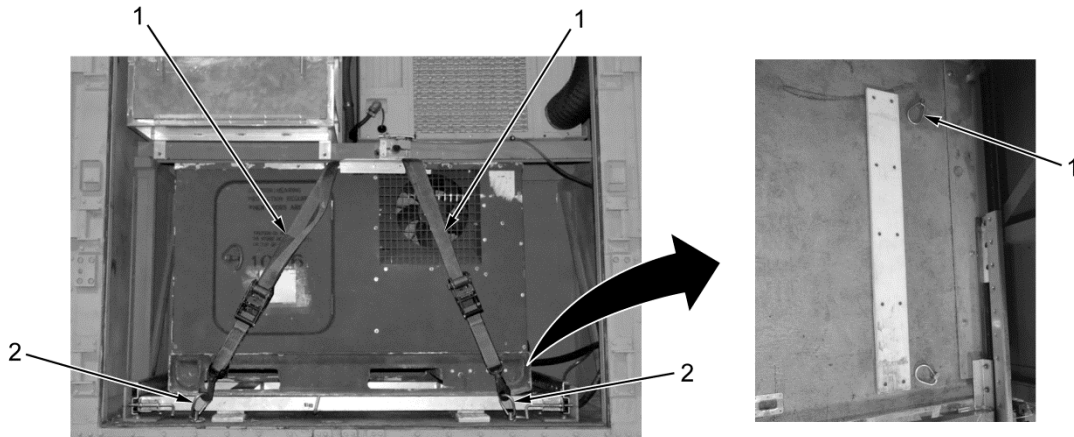
Figure 19. Exhaust Assembly Removal.

45. Install d-rings (Figure 20, Item 2) if removed during setup.
46. Install two ratchet straps (Figure 20, Item 1) on two d-rings (Figure 20, Item 2) behind generator.

NOTE

Ensure ratchet straps come over top of generator in crisscross pattern once retracted.

47. Retract Generator (WP 0010).
48. Install two ratchet straps (Figure 20, Item 1) on front two d-rings (Figure 20, Item 2).

SECURE ARSS SHELTER - Continued

ARSS0396

Figure 20. Generator Ratchet Strap Installation.

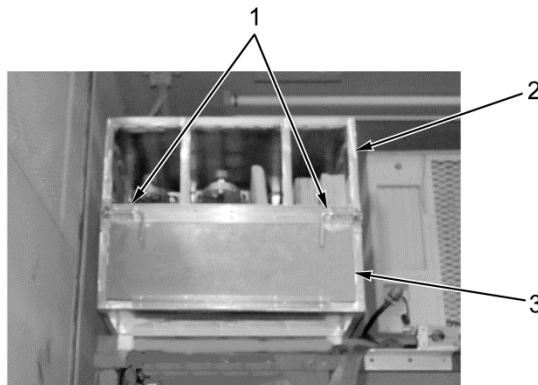
WARNING

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

NOTE

Contents of storage consist of two ladders, threshold plate, and cribbing.

49. Release two spring latches (Figure 21, Item 1), open panel (Figure 21, Item 3) and re-fill contents in storage rack (Figure 21, Item 2).
50. Close panel (Figure 21, Item 3) and secure two spring latches (Figure 21, Item 1).

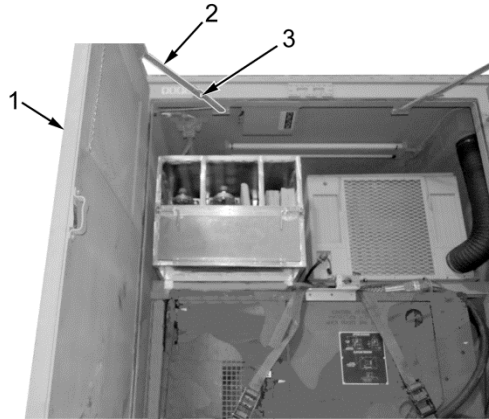


ARSS0326

Figure 21. Re-fill Storage Rack Contents.

SECURE ARSS SHELTER - Continued

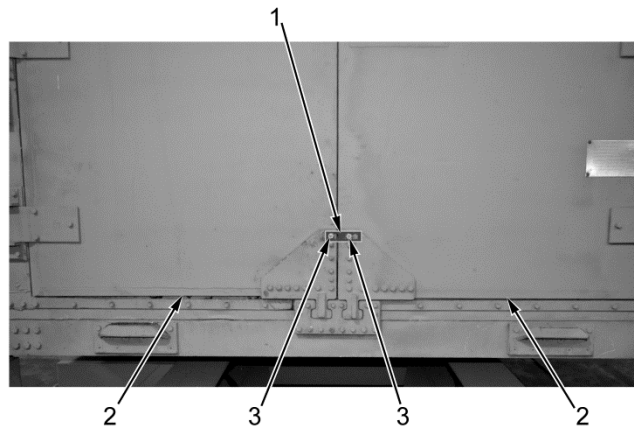
51. Depress two tabs (Figure 22, Item 3) on two door braces (Figure 22, Item 2) and close two mechanical room doors (Figure 22, Item 1).



ARSS0324

Figure 22. Mechanical Room Doors.

52. Install red metal tab (Figure 23, Item 1) on mechanical room doors (Figure 23, Item 2) with two bolts (Figure 23, Item 3).



ARSS0322

Figure 23. Secure Mechanical Room Doors.

END OF TASK**FOLLOW-ON MAINTENANCE**

Prepare trailer after use (TM 9-2330-328-14&P).

END OF TASK**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - ARSS POWER**

INITIAL SETUP:**Materials/Parts**

Protector, Hearing (WP 0122, Item 28)

References (cont.)

TM 9-6115-750-10

Personnel Required

Small Arms/Artillery Repairer - 91F

Equipment Condition

ARSS setup for operation (WP 0006)

References

WP 0011

ARSS POWER ON**WARNING**

Ensure all personnel inside ARSS wear hearing protection when machinery is being operated to prevent against potential noise hazards. Failure to follow this warning may cause injury.

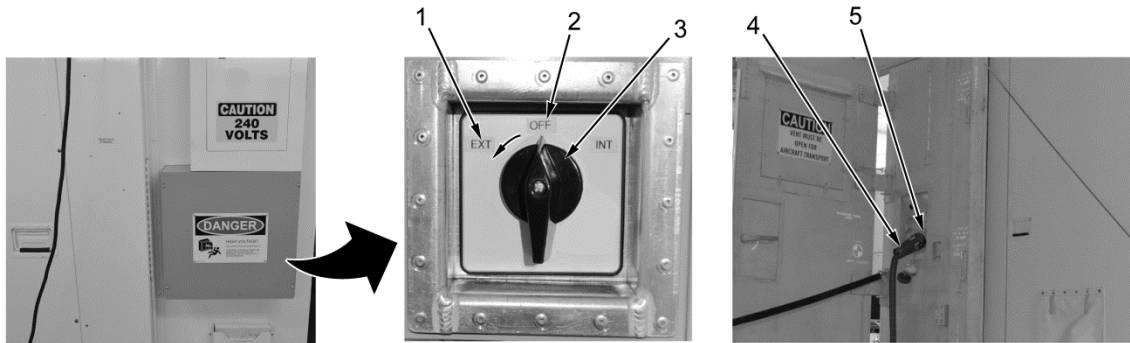
ARSS POWER ON - Continued

1. Verify connectivity of ARSS power cables.

NOTE

- If using shore power (EXT) perform Steps 2 thru 4.
- If using generator power (INT) perform Steps 5 thru 8.

2. Ensure selector switch (Figure 1, Item 3) is in the OFF position (Figure 1, Item 2).
3. Plug shore power cable (Figure 1, Item 4) in J1 connector (Figure 1, Item 5).
4. Turn selector switch (Figure 1, Item 3) to EXT position (Figure 1, Item 1).



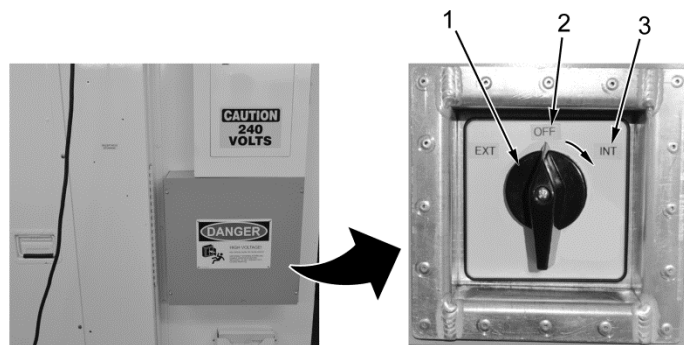
ARSS0373

Figure 1. EXT Power.

NOTE

120 Voltage Alternating Current (VAC) shore power and 240 VAC shore power can be used on the J1 connector. Using 120 VAC will only power the work room overhead lights and electrical receptacles.

5. Ensure selector switch (Figure 2, Item 1) is in the OFF position (Figure 2, Item 2).
6. Open mechanical room doors (WP 0011).
7. Turn generator ON (TM 9-6115-750-10).
8. Turn selector switch (Figure 2, Item 1) to INT position (Figure 2, Item 3).



ARSS0374

Figure 2. INT Power.

ARSS POWER ON - Continued

9. Turn all circuit breakers to the ON position.



ARSS0386

Figure 3. Circuit Breakers.

END OF TASK**ARSS POWER OFF**

1. Turn all circuit breakers to the OFF position.



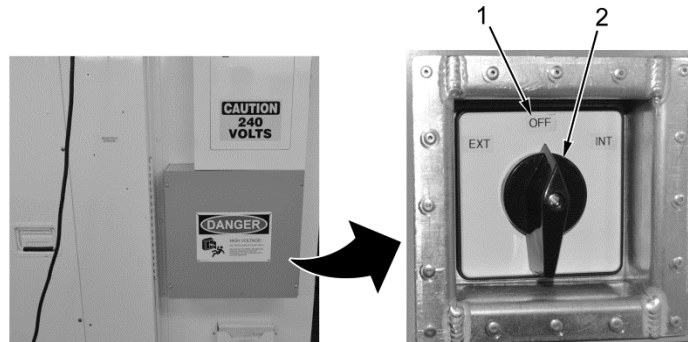
ARSS0387

Figure 4. Circuit Breakers.

ARSS POWER OFF - Continued**NOTE**

- If using generator power (INT) perform Steps 2 and 3.
- If using shore power (EXT) perform Steps 4 and 5.

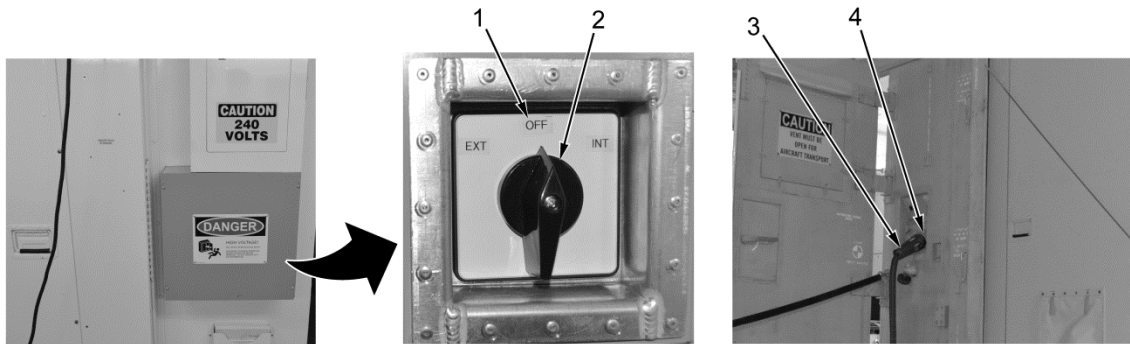
2. Turn selector switch (Figure 5, Item 2) to OFF position (Figure 5, Item 1).
3. Turn generator OFF (TM 9-6115-750-10).



ARSS0376

Figure 5. INT Power.

4. Unplug shore power cable (Figure 6, Item 3) from J1 connector (Figure 6, Item 4).
5. Turn selector switch (Figure 6, Item 2) to OFF position (Figure 6, Item 1).



ARSS0375

Figure 6. EXT Power.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS - GENERATOR EXTEND/RETRACT

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

Equipment Conditions

Mechanical room doors opened (WP 0011)

EXTEND

1. Release two generator slide latches (Figure 1, Item 2) from generator slide assembly (Figure 1, Item 3) and extend generator (Figure 1, Item 1).
2. Once generator (Figure 1, Item 1) is fully extended, pull generator slide locking bar (Figure 1, Item 4) from storage clip (Figure 1, Item 5) and turn counterclockwise until generator and generator slide assembly (Figure 1, Item 3) locks in place.

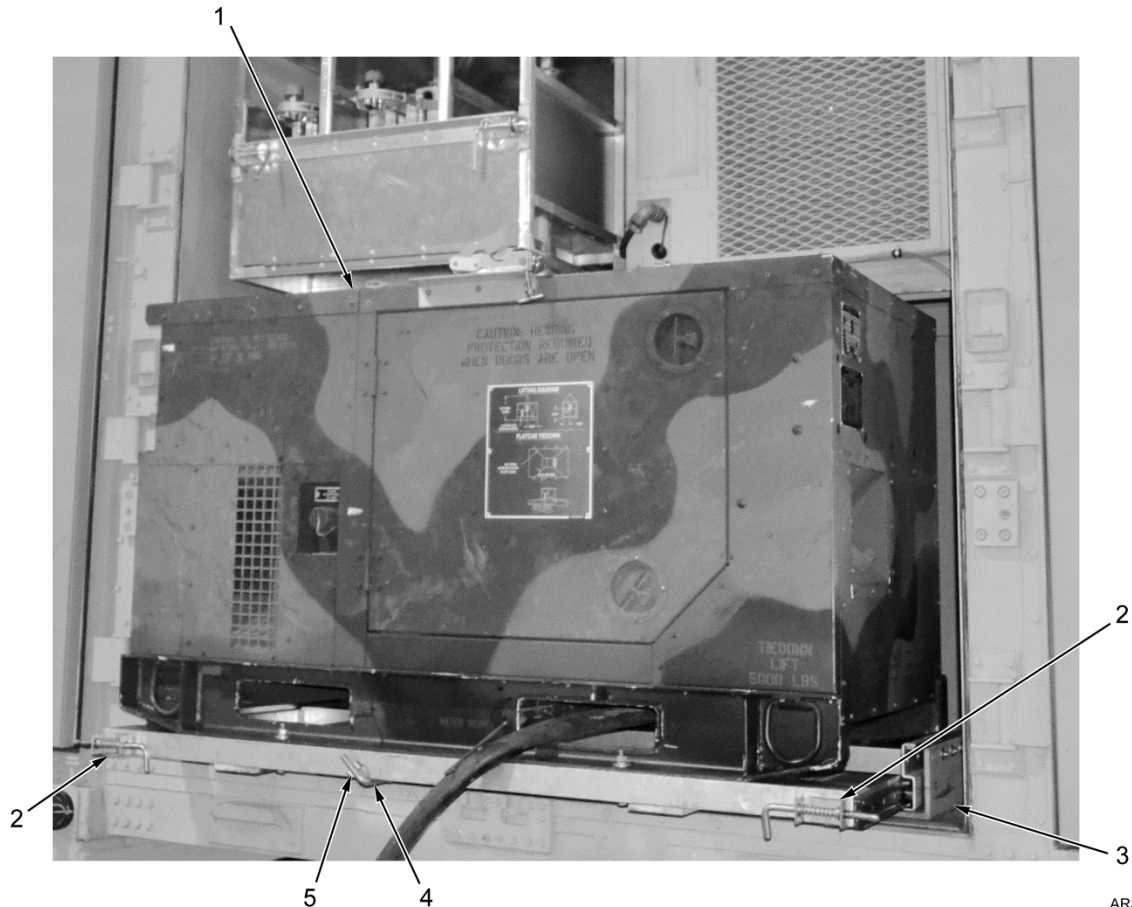


Figure 1. Generator Extend.

END OF TASK

RETRACT

1. Turn generator slide locking bar (Figure 2, Item 4) clockwise to unlock generator (Figure 2, Item 1) and generator slide assembly (Figure 2, Item 3) and place generator slide locking bar in storage clip (Figure 2, Item 5).
2. Retract generator (Figure 2, Item 1) and secure with two generator slide latches (Figure 2, Item 2) in generator slide assembly (Figure 2, Item 3).

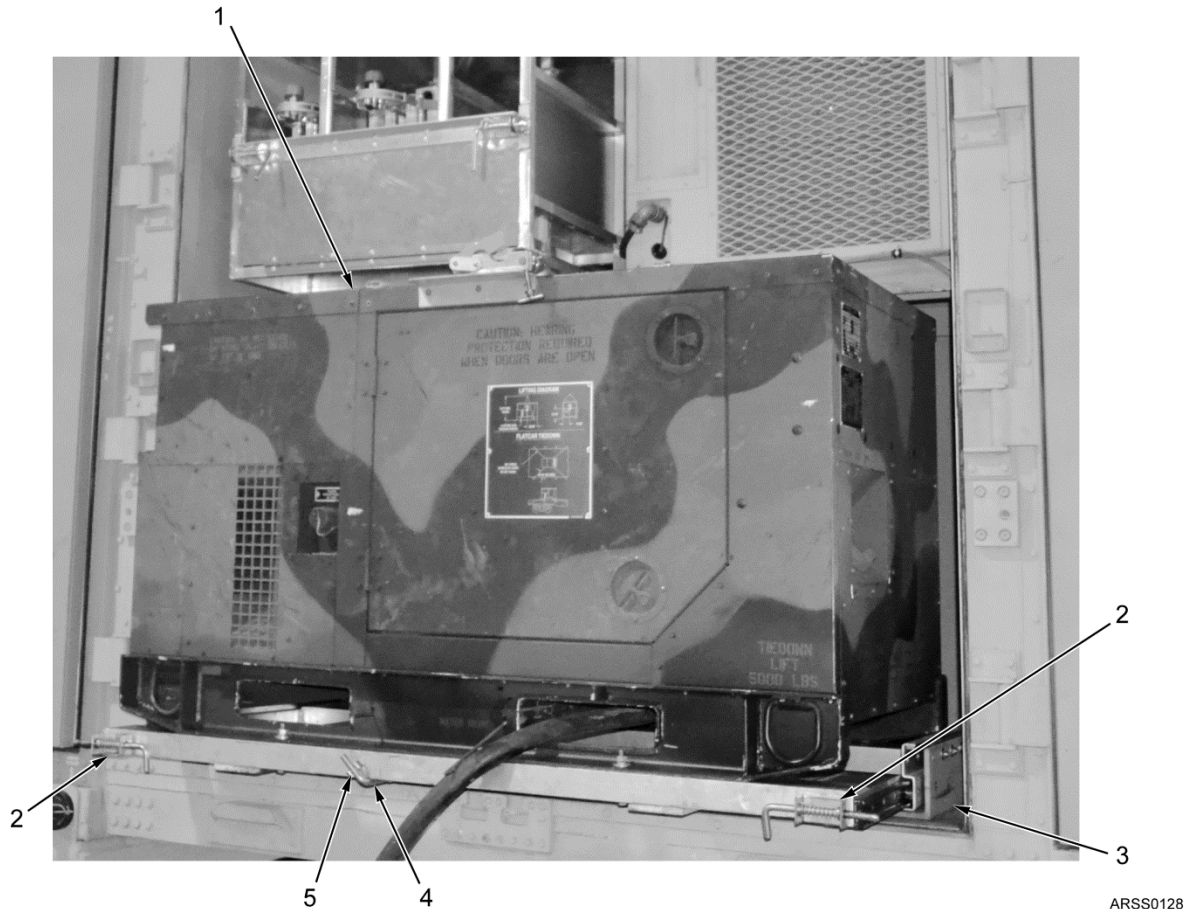


Figure 2. Generator Retract.

END OF TASK**FOLLOW-ON MAINTENANCE**

Close mechanical room doors (WP 0011).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
OPERATION UNDER USUAL CONDITIONS – MECHANICAL ROOM DOORS OPEN/SECURE

INITIAL SETUP:**Tools and Special Tools**

Ladder (WP 0124, Item 9)

Personnel Required

Small Arms/Artillery Repairer - 91F

OPEN MECHANICAL ROOM DOORS**WARNING**

When using a ladder, always climb using a three-point grip; either two hands and one foot or one hand and two feet should be on the ladder at all times. Have a person on the ground spotting you and holding the ladder firmly in place. Failure to follow this warning may cause injury.

1. Remove two retaining pins (Figure 1, Item 4) from brackets (Figure 1, Item 2) on mechanical room doors (Figure 1, Item 5).
2. Remove two door braces (Figure 1, Item 3) from mechanical room doors (Figure 1, Item 5) and reinstall two retaining pins (Figure 1, Item 4) in brackets (Figure 1, Item 2).
3. Open two mechanical room doors (Figure 1, Item 5) to full and open position.
4. Remove door holder hooks (Figure 1, Item 6) from two mechanical room doors (Figure 1, Item 5) and secure in door holder bracket (Figure 1, Item 1) to lock mechanical room doors in place.
5. Swing two mechanical room doors (Figure 1, Item 5) open to engage door holder hooks (Figure 1, Item 6) in door holder brackets (Figure 1, Item 1).

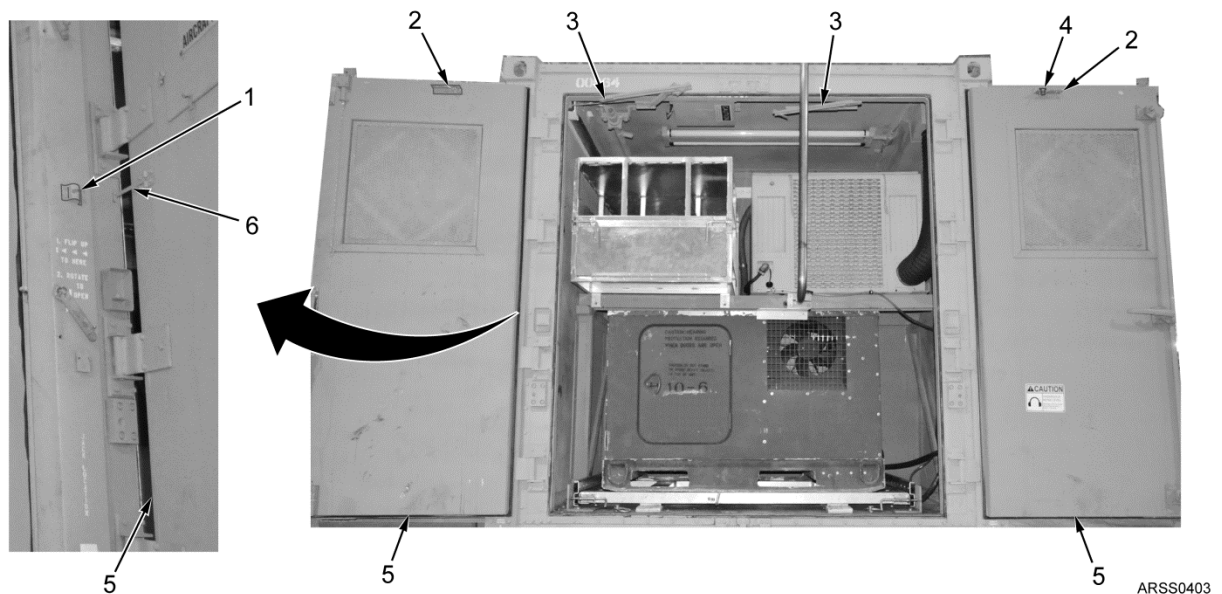


Figure 1. Open Mechanical Room Doors.

END OF TASK

SECURE MECHANICAL ROOM DOORS

1. Remove two door holder hooks (Figure 2, Item 6) from door holder bracket (Figure 2, Item 1) to release two mechanical room doors (Figure 2, Item 5).
2. Close two mechanical room doors (Figure 2, Item 5) until at 90 degree angle with shelter.
3. Remove two retaining pins (Figure 2, Item 4) from brackets (Figure 2, Item 2).
4. Secure two door braces (Figure 2, Item 3) on mechanical room doors (Figure 2, Item 5) with two retaining pins (Figure 2, Item 4).

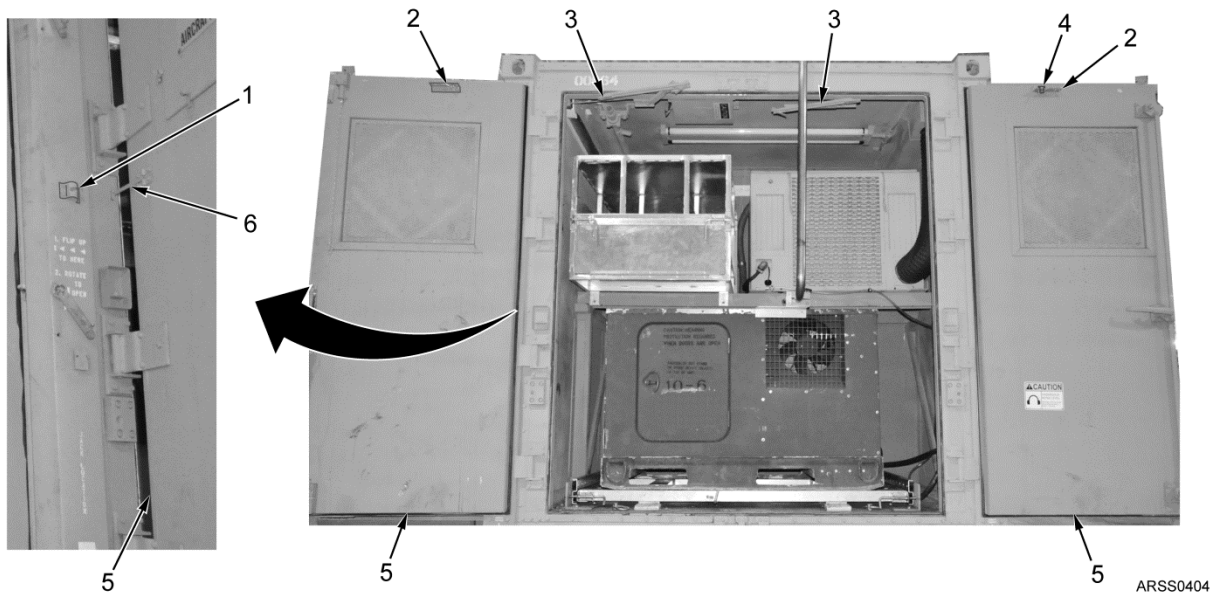


Figure 2. Secure Mechanical Room Doors.

END OF TASK

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
OPERATION UNDER UNUSUAL CONDITIONS**

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

References

FM 4-25.12

UNUSUAL ENVIRONMENT/WEATHER**NOTE**

If equipment fails to operate, refer to Troubleshooting Procedures Chapter 3.

This section provides instructions for operation of the shelter in unusual weather conditions. Operation during blackout conditions is also provided.

Operation In Rain and/or Mud

1. When setting up shelter, place wood planks or boards under each jack pad to increase bearing area.
2. Provide adequate drainage ditch to prevent standing water around shelter area.
3. Check leveling jacks frequently for sinking; level shelter as required by adjusting lift jacks.
4. Close and secure all doors in shelter.
5. Check seals for proper placement and compression.

End of Task**Operation in Snow, Ice, or Extreme Cold****WARNING**

In extreme cold, wear protective cold weather clothing to prevent cold stress injury. Ensure necessary provisions are taken for keeping hands warm for fine work. Failure to follow this warning may cause injury or death.

NOTE

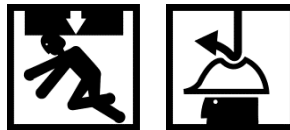
Fluorescent lights have a delay time in coming on at temperatures of 0°F and below.

1. Remove snow routinely and prior to cleaning roof with a soft bristle brush, broom, or equivalent.
2. Remove ice from shelter before lowering hinged panels.
3. Keep all doors and vents closed.

End of Task

UNUSUAL ENVIRONMENT/WEATHER - Continued**Operation in Extreme Heat****WARNING**

Ensure proper safety measures are taken during extremely hot and humid weather. Seek medical attention immediately if any of the following occur: weakness, dizziness, trouble breathing, painful muscle cramps, rapid pulse, pale skin, or weak pulse. Reference FM 4-25.12 for proper work, rest, and water consumption cycle during extreme heat. Failure to follow this warning may cause injury or death.

End of Task**Operation in High Winds****WARNING**

To avoid injury when expanding or closing hinged sidewall in high winds, use six personnel. Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Wear head protection and all times to prevent head injury. Personnel may get caught between shelter ceiling/roof. Failure to follow this warning may cause injury or death.

End of Task**Operation During Blackout Conditions****NOTE**

- During blackout condition, enter and leave shelter through personnel door only. Do not operator exterior area light.
- Blackout override switch must remain in OFF position for duration.

1. Activate all interior lights and check from 25 ft (7.6 m) away to ensure no light is visible.
2. Place blackout override switch to OFF position.

END OF TASK**END OF WORK PACKAGE**

CHAPTER 3

TROUBLESHOOTING PROCEDURES

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

OPERATOR MAINTENANCE TROUBLESHOOTING INDEX

INTRODUCTION

Troubleshooting procedures are not limited to those listed in the troubleshooting symptom/malfunction index. The table lists the common symptoms and their associated malfunctions which you may find during the operation or maintenance of the Armament Repair Shop Set (ARSS) or its components. Tests/Inspections and corrective actions should be performed in the order listed.

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

NOTE

This malfunction/symptom index can only be used as a general reference to troubleshooting. Troubleshoot your ARSS in the order listed. Always do the functional test first in order to verify the symptom. After repair, repeat the test to verify proper function.

TROUBLESHOOTING SYMPTOM INDEX

Malfunction/Symptom

Troubleshooting Procedure

TROUBLESHOOTING PROCEDURES

- | | |
|--|---------|
| 1. ECU/IECU will not start..... | WP 0014 |
| 2. Nonfunctioning smoke alarm..... | WP 0015 |
| 3. No power at mechanical room outlet or light switch..... | WP 0016 |
| 4. Nonfunctioning work room light fixtures or outlets..... | WP 0017 |

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
ECU/IECU WILL NOT START**

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

Equipment Condition

ARSS power ON (WP 0009)

ReferencesWP 0024

GENERAL

This work package contains operator maintenance information to troubleshoot that the ECU/IECU will not start. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

Always inspect wiring harness connectors and harness for damage.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

ECU/IECU WILL NOT START

MALFUNCTION

ECU/IECU NONFUNCTIONAL

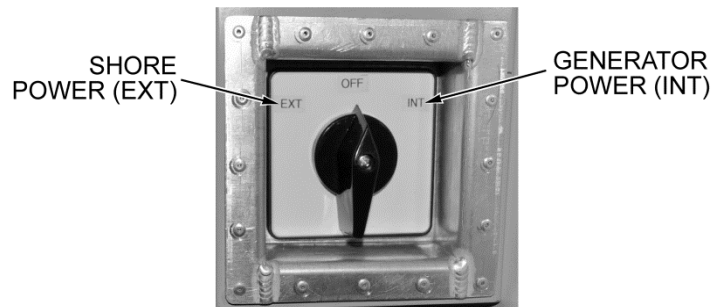
CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Check to ensure ECU cable connections are secure.

STEP 2. Ensure selector switch is set to correct position based on power source (Figure 1).



ARSS0393

Figure 1. Selector Switch.

STEP 3. Check and ensure Main Circuit Breaker (CB1) and Circuit Breaker 10 (CB10) are in the ON position.

STEP 4. If problem persists, notify Field Level Maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
NONFUNCTIONING SMOKE ALARM**

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

References (cont.)

WP 0024

References

TM 10-5411-201-14

Equipment ConditionARSS power ON (WP 0009)

GENERAL

This work package contains operator maintenance information to troubleshoot a nonfunctioning smoke alarm. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

Always inspect wiring harness connectors and harness for damage.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

SMOKE ALARM NOT WORKING

MALFUNCTION

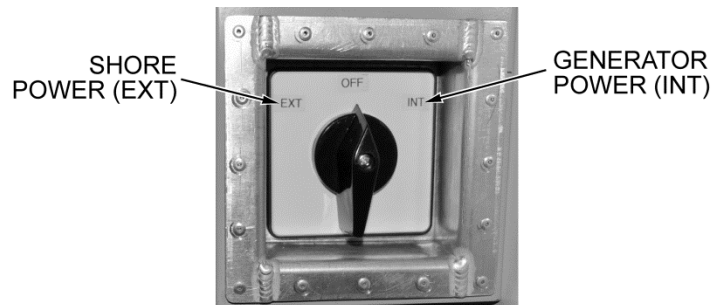
SMOKE ALARM NONFUNCTIONAL

CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Ensure selector switch is set to correct position based on power source (Figure 1).



ARSS0394

Figure 1. Selector Switch.

- STEP 2. Check and ensure Main Circuit Breaker (CB1) and Circuit Breaker 5 (CB5) are in the ON position.
- STEP 3. Ensure electrical connection on back of smoke alarm is secure.
- STEP 4. If problem persists, notify Field Level Maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
NO POWER AT MECHANICAL ROOM OUTLET OR LIGHT SWITCH

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

Equipment Condition

ARSS power ON (WP 0009)

References

WP 0024

GENERAL

This work package contains operator maintenance information to troubleshoot no power to mechanical room outlet or light switch. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

Always inspect wiring harness connectors and harness for damage.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

MECHANICAL ROOM OUTLET OR LIGHT SWITCH NONFUNCTIONAL

MALFUNCTION

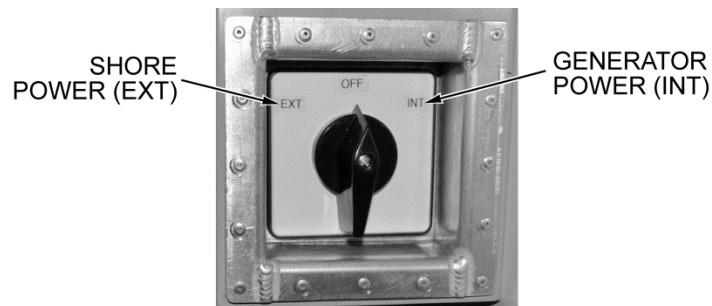
NO POWER TO MECHANICAL ROOM OUTLET OR LIGHT SWITCH

CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Ensure selector switch is set to correct position based on power source (Figure 1).



ARSS0394

Figure 1. Selector Switch.

STEP 2. Check and ensure Main Circuit Breaker (CB1) and Circuit Breaker (CB7) are in the ON position.

STEP 3. If problem persists, notify Field Level Maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
NONFUNCTIONING WORK ROOM LIGHT FIXTURES OR OUTLETS**

INITIAL SETUP:**Personnel Required**

Small Arms/Artillery Repairer - 91F

References (cont.)

TM 10-5411-201-14

References

WP 0024

Equipment Condition

ARSS power ON (WP 0009)

GENERAL

This work package contains operator maintenance information to troubleshoot nonfunctioning work room light fixtures or outlets. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

Always inspect wiring harness connectors and harness for damage.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

WORK ROOM OUTLETS OR LIGHT FIXTURES NONFUNCTIONAL

MALFUNCTION

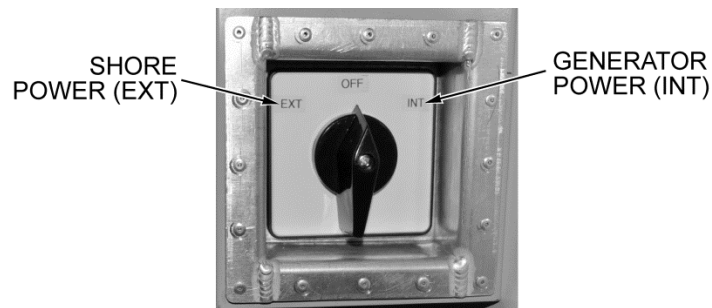
NO POWER TO WORK ROOM OUTLETS OR LIGHT FIXTURES

CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Ensure selector switch is set to correct position based on power source (Figure 1).



ARSS0394

Figure 1. Selector Switch.

STEP 2. Check and ensure Main Circuit Breaker (CB1), Circuit Breaker 9 (CB9) for light fixtures, and Circuit Breaker 4 (CB4) for outlets are in the ON position.

STEP 3. If problem persists, refer to Shelter Technical Manual for operator troubleshooting (TM 10-5411-201-14).

END OF WORK PACKAGE

**FIELD MAINTENANCE
TROUBLESHOOTING INDEX**

INTRODUCTION

Troubleshooting procedures are not limited to those listed in the troubleshooting symptom/malfunction index. The table lists the common symptoms and their associated malfunctions which you may find during the operation or maintenance of the Armament Repair Shop Set (ARSS) or its components. Tests/Inspections and corrective actions should be performed in the order listed.

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

NOTE

This malfunction/symptom index can only be used as a general reference to troubleshooting. Troubleshoot your ARSS in the order listed. Always do the functional test first in order to verify the symptom. After repair, repeat the test to verify proper function.

TROUBLESHOOTING SYMPTOM INDEX**Malfunction/Symptom****Troubleshooting Procedure****TROUBLESHOOTING PROCEDURES**

- | | |
|--|---------|
| 1. No VAC to mechanical room outlet (generator power)..... | WP 0019 |
| 2. No VAC to mechanical room outlet (shore power)..... | WP 0019 |
| 3. No VAC to mechanical room light switch (generator power)..... | WP 0020 |
| 4. No VAC to mechanical room light switch (shore power)..... | WP 0020 |
| 5. Smoke alarm not functioning..... | WP 0021 |
| 6. No VAC to ECU/IECU..... | WP 0022 |

END OF WORK PACKAGE

FIELD MAINTENANCE
NO VAC TO MECHANICAL ROOM OUTLET

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References (cont.)

FO-2
FO-3
WP 0009
WP 0024
WP 0042
WP 0045
WP 0048
WP 0052

References

FO-1

Equipment Condition

ARSS power ON (WP 0009)

GENERAL

This work package contains field maintenance information to troubleshoot no VAC to mechanical room outlet. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

- Always inspect wiring harness connectors and harness for damage.
- Perform open or short-circuit test at each wiring harness connection to identify the correct wiring harness to replace.
- Tag or mark all wires prior to removal to aid in installation.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

NO VAC TO MECHANICAL ROOM OUTLET

MALFUNCTION

MECHANICAL ROOM OUTLET IS NONFUNCTIONAL USING ARSS POWER

CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Ensure selector switch is set to correct position based on power source.

STEP 2. Measure VAC to Main Circuit Breaker.

- a. If measured voltage is 120 VAC, proceed to Step 3.
- b. If measure voltage was not 120 VAC, replace selector switch (WP 0052). Proceed to Step 7.

STEP 3. Perform a voltage test for CB7.

- a. If no VAC was recorded, replace CB7 (WP 0048). Proceed to Step 7.
- b. If VAC was recorded, proceed to Step 4.

STEP 4. Turn ARSS power OFF (WP 0009).

STEP 5. Disconnect wires from CB7 and mechanical room outlet.

STEP 6. Measure continuity of wires connecting CB7 to mechanical room outlet.

- a. If wire(s) fail continuity check, replace necessary wire(s) (WP 0042). Proceed to Step 7.
- b. If wire(s) pass continuity check, replace mechanical room outlet (WP 0045). Proceed to Step 7.

STEP 7. Verify repairs have resolved the malfunction.

END OF WORK PACKAGE

FIELD MAINTENANCE
NO VAC TO MECHANICAL ROOM LIGHT SWITCH

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References (cont.)

FO-2
FO-3
WP 0009
WP 0024
WP 0042
WP 0044
WP 0048
WP 0052

References

FO-1

Equipment Condition

ARSS power ON (WP 0009)

GENERAL

This work package contains field maintenance information to troubleshoot no VAC to mechanical room light switch. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

- Always inspect wiring harness connectors and harness for damage.
- Perform open or short-circuit test at each wiring harness connection to identify the correct wiring harness to replace.
- Tag or mark all wires prior to removal to aid in installation.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

NO VAC TO MECHANICAL ROOM LIGHT SWITCH

MALFUNCTION

MECHANICAL ROOM LIGHT SWITCH IS NONFUNCTIONAL USING ARSS POWER

CORRECTIVE ACTION**WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Ensure selector switch is set to correct position based on power source.

STEP 2. Measure VAC to Main Circuit Breaker.

- a. If measured voltage is 120 VAC, proceed to Step 3.
- b. If measure voltage was not 120 VAC, replace selector switch (WP 0052). Proceed to Step 7.

STEP 3. Perform a voltage test for CB7.

- a. If no VAC was recorded, replace CB7 (WP 0048). Proceed to Step 7.
- b. If VAC was recorded, proceed to Step 4.

STEP 4. Turn ARSS power OFF (WP 0009).

STEP 5. Disconnect wires from CB7 and mechanical room light switch.

STEP 6. Measure continuity of wires connecting CB7 to mechanical room light switch.

- a. If wire(s) fail continuity check, replace necessary wire(s) (WP 0042). Proceed to Step 7.
- b. If wire(s) pass continuity check, replace mechanical room light switch (WP 0044). Proceed to Step 7.

STEP 7. Verify repairs have resolved the malfunction.

END OF WORK PACKAGE

**FIELD MAINTENANCE
NONFUNCTIONING SMOKE ALARM**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

References (cont.)

WP 0009
WP 0042
WP 0049
WP 0051

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

Equipment Condition

ARSS power ON (WP 0009)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

FO-1

GENERAL

This work package contains field maintenance information to troubleshoot nonfunctioning smoke alarm. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

- Always inspect wiring harness connectors and harness for damage.
- Perform open or short-circuit test at each wiring harness connection to identify the correct wiring harness to replace.
- Tag or mark all wires prior to removal to aid in installation.

TROUBLESHOOTING PROCEDURE**SYMPTOM****SMOKE ALARM TROUBLESHOOTING****MALFUNCTION****NONFUNCTIONING SMOKE ALARM****CORRECTIVE ACTION****WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Is smoke alarm chirping every 30 seconds?

- a. If yes, replace smoke alarm (WP 0049). Proceed to Step 9.
- b. If no, proceed to Step 2.

STEP 2. Remove smoke alarm battery (WP 0051).

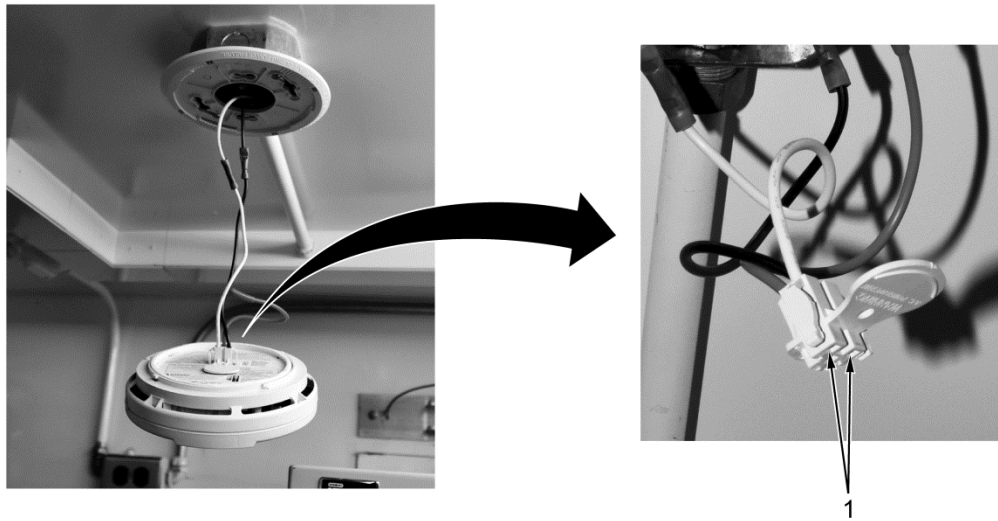
STEP 3. Measure and record smoke alarm battery voltage.

- a. If voltage is 8.0 volts +/- 1 volt, proceed to Step 4.
- b. If voltage is outside range, replace smoke alarm battery (WP 0051). Proceed to Step 9.

STEP 4. Disconnect wires from smoke alarm.

STEP 5. Measure VAC to smoke alarm in terminal points (Figure 1, Item 1).

- a. If 120 VAC was not measured, proceed to Step 6.
- b. If 120 VAC was measure, replace smoke alarm (WP 0049). Proceed to Step 9.

TROUBLESHOOTING PROCEDURE - Continued

ARSS0309

Figure 1. Smoke Alarm.

STEP 6. Turn ARSS power OFF (WP 0009).

STEP 7. Disconnect wires from CB5.

STEP 8. Measure continuity of wires connecting CB5 to smoke alarm.

a. If wire(s) fail continuity check, replace necessary wire(s) (WP 0042). Proceed to Step 9.

b. If wire(s) pass continuity check, replace smoke alarm (WP 0049). Proceed to Step 9.

STEP 9. Press test button and verify repairs have resolved the malfunction.

END OF WORK PACKAGE

**FIELD MAINTENANCE
NO VAC TO ECU/IECU**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

FO-1
FO-2

References (cont.)

FO-3
WP 0009
WP 0027
WP 0031
WP 0042
WP 0048
WP 0052
TM 9-4120-425-14&P
TM 9-4120-434-13&P
TM 10-5411-201-14

Equipment Condition

ARSS power ON (WP 0009)

GENERAL

This work package contains field maintenance information to troubleshoot no VAC to ECU/IECU. Use this work package to help isolate and correct system problems. Perform all PMCS (WP 0024) first.

NOTE

- Always inspect wiring harness connectors and harness for damage.
- Perform open or short-circuit test at each wiring harness connection to identify the correct wiring harness to replace.
- Tag or mark all wires prior to removal to aid in installation.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

NO VAC TO ECU/IECU

MALFUNCTION

ECU/IECU IS NONFUNCTIONING

TROUBLESHOOTING PROCEDURE - Continued**CORRECTIVE ACTION****WARNING**

- HIGH VOLTAGE is used in the operation of this equipment. DEATH ON CONTACT may result if personnel fail to observe safety precautions.
- Shelter contains voltages that are dangerous if contacted. Take appropriate precautions when troubleshooting. Before performing voltage checks or replacing electrical components, use extreme caution. Keep one hand away from equipment to reduce hazard of current flowing through life sustaining organs of the body.
- Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid.

Failure to follow these warnings may cause injury or death.

STEP 1. Measure VAC to selector switch.

- a. If measure voltage is 240 VAC, proceed to Step 2.
- b. If measure voltage is not 240 VAC, proceed to Step 6.

STEP 2. Measure VAC coming out of selector switch.

- a. If measure voltage is 240 VAC, proceed to Step 3.
- b. If measure voltage is not 240 VAC, replace selector switch (WP 0052). Proceed to Step 9.

STEP 3. Measure VAC at CB10.

- a. If measured voltage is 240 VAC, proceed to Step 4.
- b. If measured voltage is not 240 VAC, replace CB10 (WP 0048). Proceed to Step 9.

STEP 4. Turn ARSS power OFF (WP 0009).

STEP 5. Check wires for continuity from mechanical room electrical box to CB10.

- a. If continuity was measured, proceed to Step 6.
- b. If no continuity was measured, repair wires (WP 0042). Proceed to Step 9.

STEP 6. If using generator power, check generator power for continuity from mechanical room electrical box to generator.

- a. If continuity was measured, proceed to Step 7.
- b. If no continuity was measured, replace generator power cable (WP 0031). Proceed to Step 9.

STEP 7. If using shore power, troubleshoot shore power to CB for shelter (TM 10-5411-201-14).

STEP 8. Check ECU power cable for continuity from mechanical room electrical box to ECU.

- a. If continuity was measured, continue to troubleshoot ECU (TM 9-4120-425-14&P) or IECU (TM 9-4120-434-13&P).
- b. If no continuity was measured, replace ECU power cable (WP 0027). Proceed to Step 9.

STEP 9. Verify malfunction has been corrected.

END OF WORK PACKAGE

CHAPTER 4

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

OPERATOR INSTRUCTIONS PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION

GENERAL

Preventive Maintenance Checks and Services (PMCS) is the systematic caring, inspecting, and servicing of equipment to keep it in good condition and to prevent breakdowns. As the Armament Repair Shop Set (ARSS) operator, your mission is to:

Always do your PMCS in the same order, so it becomes a habit. Once you've had some practice, you'll quickly spot anything wrong. Perform the PMCS as follows:

1. BEFORE - Once before operation.
2. DURING - Once during operation.
3. AFTER - Once after operation.
4. DAILY - Once every day.
5. WEEKLY - Once every week.
6. MONTHLY - Once every month.
7. SEMIANNUAL - Once every 6 months.
8. ANNUAL - Once every 12 months.
9. BIENNIAL - Once every 24 months.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion prevention and control of Army materiel 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. The term "corrosion" means the deterioration of a material or its properties due to a reaction of that material with its chemical environment. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking. Plastics, composites, and rubbers can also degrade (also considered to be corrosion based on the above definition of corrosion). Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically ultraviolet) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking. The US Army has defined the following nine (9) forms of corrosion used to evaluate the deterioration of metals. These shall be used when evaluating and documenting corrosion.

UNIFORM (or general attack): Affects a large area of exposed metal surface, like rust on steel or tarnish on silver. It gradually reduces the thickness of the metal until it fails.

CREVICE: Occurs in crevices created by rubber seals, gaskets, bolt heads, lap joints, dirt or other surface deposits. It will develop anywhere moisture or other corrosive agents are trapped and unable to drain or evaporate.

SELECTIVE LEACHING: One element, usually the anodic element of an alloy, corrodes away, leaving the cathodic element. This can create holes in metal.

INTERGRANULAR: Metal deterioration caused by corrosion on the bonds between or across the grain boundaries of the metal. The metal will appear to be peeling off in sheets, flaking, or being pushed apart by layers. A particular type of intergranular corrosion is exfoliation.

CORROSION PREVENTION AND CONTROL (CPC) - Continued

PITTING: This can result from conditions similar to those for crevice corrosion. Pits can develop on various materials due to their composition. Rifle boxes are big victims of pitting.

EROSION: Results when a moving fluid (liquid or gas) flows across a metal surface, particularly when solid particles are present in the fluid. Corrosion actually occurs on the surface of the metal, but the moving fluid washes away the corrosion and exposes a new metal surface, which also corrodes.

FRETTING: Occurs as a result of small, repetitive movements (e.g., vibration) between two surfaces in contact with each other. It's usually identified by a black powder corrosion product or pits on the surface.

GALVANIC: Occurs when two different types of metal come in contact with each other, like steel bolts on aluminum, for example. This is a common problem on aircraft because of their mix of metals.

STRESS: Term used to describe corrosion cracking and corrosion fatigue. Where an item is not ready/available due to one of these forms of corrosion, it shall be recorded as a corrosion failure in the inspection record and the appropriate code (170) for corrosion shall be used when requesting/performing maintenance.

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

FLUID LEAKAGE

It is necessary for you to know how fluid leakage affects the status of the ARSS. Following are types/classes of leakage you need to know to be able to determine the status of the ARSS. Learn these leakage definitions. Equipment operation is allowed with minor leakage (Class I or II). Consideration must be given to fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or II leaks, continue to check fluid levels as required in the PMCS. Class III leaks should be reported immediately to your Supervisor.

1. Class I
 - a. Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
2. Class II
 - a. Leakage of fluid great enough to form drops, but not enough to cause drops to drip from item being checked/inspected.
3. Class III
 - a. Leakage of fluid great enough to form drops that fall from item being checked/inspected.

EXPLANATION OF TABLE COLUMNS

Item No. (Column 1). Numbers in this column are for reference. Item numbers appear in the order in which checks and services must be performed for the intervals listed. When completing DA Form 5988-E/2404, Equipment Inspection and Maintenance Worksheet, include the item number for the check/service indicating a fault.

Interval (Column 2). This column tells you when you must do the procedure in the Procedure column. If you see rust on the item, PMCS must be done immediately. Performing PMCS at the appropriate intervals will reduce operational problems and minimize the number of repairs and replacements.

Item to Be Checked or Serviced (Column 3). This column lists the item to be checked or serviced.

Procedure (Column 4). This column gives the procedure you must do to check or service the item listed in the Item to Be Checked or Serviced column to know if the equipment is ready or available for its intended mission or for operation. You must do the procedure at the time stated in the interval column. Carefully follow these instructions.

NOTE

Terms "ready/available" and "mission capable" refer to the same status: Equipment is on- hand and ready to perform its combat missions. (See DA PAM 750-8, The Army Maintenance Management System (TAMMS) User's Manual.)

Equipment Not Ready/Available If: (Column 5). Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If check and service procedures show faults listed in this column, do not operate the equipment. Follow standard operating procedures for maintaining the equipment or reporting equipment failure.

COMMON PMCS PRACTICES**WARNING**

- Cleaning solvent is TOXIC and flammable. Wear protective goggles and gloves and use only in well-ventilated area. Avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I cleaning solvent is 100°F (38°C) and for Type II it is 138°F (59°C).
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get immediate medical attention.

Failure to follow these warnings may cause injury or death.

NOTE

Keep all of these general checks in mind every time you do your PMCS. This will help you spot trouble before it starts. In time, spotting possible trouble will become automatic.

1. Keep it clean: Dirt, grease, oil, and debris only get in the way and may cover up a serious problem. While doing your PMCS, clean as you work and as you go. Use cleaning solvent and wiping rags on all metal surfaces. Use soap and water when you clean rubber and plastic material.
2. Bolts, nuts, and screws: Check them for obvious looseness and missing, bent, defective, or broken condition.
3. Welds: Look for loose or chipped paint, rust, or gaps where parts are welded together.
4. Electrical wiring and connections: Look for cracked or broken insulation, bare wires, and loose or broken connections. Tighten loose connectors and ensure the wires are in good shape.
5. Hoses and fluid lines: While doing your PMCS, look and listen for wear, damage, and leaks in all hoses and fluid lines. Ensure clamps and fittings are tight. Wet spots mean leaks. A stain around a fitting or connector can mean a leak. Look for these signs. If a leak comes from a loose fitting or connector that can be easily fixed, tighten it using the two wrench method.
6. Mounted accessories: Check that mounted accessories are secure and in place before you begin to operate your ARSS.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

INITIAL SETUP:**Tools and Special Tools**

Screwdriver, Cross Tip (WP 0124, Item 11)

Materials/Parts

Glove, Patient Examining (WP 0123, Item 2)

Goggles, Safety (WP 0122, Item 27)

Grease, Automotive and Artillery (WP 0123,
Item 3)

Rag, Wiping (WP 0123, Item 4)

Personnel Required

Small Arms/Artillery Repairer - 91F

Non-Specific MOS

References

WP 0009

TM 9-2330-328-14&P

TM 9-4120-425-14&P

TM 9-4120-434-13&P

TM 9-6115-750-10

TM 10-5411-201-14

Equipment Condition

Generator extended (WP 0010)

Mechanical room doors opened (WP 0011)

Table 1. Operator Preventive Maintenance Checks and Services.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|--|----------|--------------------------------|---|------------------------------------|
| <p style="text-align: center;">NOTE</p> <p>The following are items to be checked prior to the ARSS PMCS and are pertinent to maintain the system. Perform the follow Preventive Maintenance Checks and Services (PMCS) in accordance with specified Technical Manuals (TMs) below:</p> <p style="margin-left: 40px;">TM 9-2330-328-14&P Trailer: 7 1/2-Ton, 4-Wheel</p> <p style="margin-left: 40px;">TM 10-5411-201-14 Shelter, Tactical, Expandable, One-Sided</p> <p style="margin-left: 40px;">TM 9-6115-750-10 Generator Set, Skid Mounted, 10 kW</p> <p style="margin-left: 40px;">TM 9-4120-425-14&P Environmental Control Unit (ECU), Air Conditioner, Horizontal, Compact</p> <p style="margin-left: 40px;">TM 9-4120-434-13&P Improved Environmental Control Unit (IECU), Air Conditioner, Horizontal, Compact</p> | | | | |
| 1 | Before | ECU Power Cable | <p style="text-align: center;">WARNING</p> <div style="text-align: center;">  </div> <p>Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check ECU power cable for damage and loose connections.</p> | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|---|--|--|
| 2 | Before | ECU Drain Components | 1. Inspect hose for wear, damage, leaks and proper mounting. 2. Ensure that clamps and fittings are tight. | |
| 3 | Before | ECU Air Duct and Flexible Duct | Check clamps for loose connections or missing hardware. | |
| 4 | Before | Generator Power Cable | <p>WARNING</p>  <p>Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check Generator power cable for damage and loose connections.</p> | Wiring damaged. |
| 5 | Before | ECU Cutout Frame and Weldment | Inspect ECU cutout frame and weldment for damage or missing hardware. | ECU cutout frame or weldment damaged or missing hardware. |
| 6 | Before | Generator Slide Assembly and Spring Latches | Check for smooth operation. | Generator does not extend or retract. Spring latches do not engage or are missing. |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|---|---|---|
| 7 | Before | Generator Locking Rod | Check locking rod and hardware for proper operation, bends, and damage or cracks. Straighten if locking rod is bent. | Missing hardware or damaged locking rod. |
| 8 | Before | Generator Floor and Slide Assembly Pads | Check for cracks, excessive wear, or damage to pads. | Floor and slide pads cracked or severely damaged. |
| 9 | Before | Exhaust and Rain Cap | <p>WARNING</p>  <p>Allow generator to cool before operating or performing maintenance on exhaust pipe. Hot components may burn personnel. Failure to follow this warning may cause injury.</p> <ol style="list-style-type: none"> 1. Inspect exhaust for damage or corrosion. 2. Inspect rain cap for proper operation and damage. Adjust rain cap for proper operation. | <p>Exhaust damaged or leaking.</p> <p>Rain cap damaged.</p> |
| 10 | Before | Exhaust Clamp | Inspect exhaust clamp for damage, missing components, and proper operation. | |
| 11 | Before | Storage Rack | Inspect storage rack for damage or missing components. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|--|---|---|
| 12 | Before | Storage Rack Spring Latches | Inspect spring latches for proper operation and damage. | |
| 13 | Before | Storage Rack Door and Hinge | Inspect storage rack door and hinge for missing or damaged components. | |
| 14 | Before | Mechanical Room Electrical Box Electrical Conduit | Inspect electrical conduit and components for damage, corrosion, or cracks. | |
| 15 | Before | Mechanical Room Light Switch | Check light switch for damage. | |
| 16 | Before | Mechanical Room Outlet | Check outlet for damage. | |
| 17 | Before | Mechanical Room Electrical Box | Inspect mechanical room electrical box for damaged or missing components. | Mechanical room electrical box damaged or missing components. |
| 18 | Before | Mechanical Room Pull Box | Inspect pull box for damaged or missing components. | |
| 19 | Before | Ramp Components | Check if ramp components are missing or damaged. | Ramp components missing or damaged. |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|--|---|--|
| 20 | Before | Interior Electrical Panel Wiring / Electrical Components | <p>WARNING</p>  <p>Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check all wiring for damage and loose connections.</p> | Wiring damaged. |
| 21 | Before | Circuit Breakers | Check circuit breakers for proper operation and damage. | Circuit breakers damaged or not operating correctly. |
| 22 | Before | Selector Switch | Check if selector switch is missing or damaged. | Selector switch missing or damaged. |
| 23 | Before | Smoke Alarm | Clean smoke alarm free of dust. | |
| 24 | Before | Work Room Pull Box | Inspect pull box for damage or missing components. | |
| 25 | Before | Raceway | Inspect raceway for damage, union to ceiling, or missing components. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|--|---|---|
| 26 | Before | Modified Closeout Panel | Check modified closeout panel for damage or missing components. | |
| 27 | Before | Middle and Right Shelter Walls | Inspect for missing components, damages or cracks. | Shelter walls have damage. |
| 28 | Before | Signal Entry Panel (SEP) Wall Assembly | Inspect SEP wall for damage or cracks. | |
| 29 | Before | Signal Entry Panel (SEP) | Inspect SEP for damaged or missing components. | |
| 30 | Before | SEP Receptacles | Check SEP receptacles for corrosion, burns, or damage. | |
| 31 | Before | Work Station Brace and Counter Top | Inspect work station brace and counter top for damage, loose hardware, or cracks. Tighten hardware. | |
| 32 | Before | Workbench Top | Inspect workbench top for damage and for loose hardware. Tighten hardware, | |
| 33 | Before | Workbench Casters | Inspect workbench casters for binding and smooth operation, damage, or missing components. | |
| 34 | Before | Workbench Foot Lock | Inspect workbench foot lock for proper operation, damage, or missing components. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|--|---|---|
| 35 | Before | Shelter BII Box and Stackbin Rack | Inspect Shelter BII box and stackbin rack for damage or missing components. | |
| 36 | Before | Vises, Grinder, and Drill Press | Check vises, grinder, and drill press for secure mounting or missing hardware. Tighten mounting hardware. | |
| 37 | Before | Tool Cabinets A, B, C, and D | Inspect tool cabinets A, B, C, and D for damage or missing components. | |
| 38 | Before | Tool Cabinet D Doors | Inspect tool cabinet D doors for damage and smooth operation. | |
| 39 | Before | Tool Cabinet Drawers | Inspect cabinet drawers for damage, missing components, and proper operation. | |
| 40 | Before | Ammo Cabinet Casters | Inspect ammo cabinet casters for binding and smooth operation, damage, or missing components. | |
| 41 | Before | Small Arms Rack | Inspect small arms rack for damage. | |
| 42 | Before | Ammo Cabinet Brackets | Inspect ammo cabinet brackets for damage or missing components. | |
| 43 | Before | Ammo Cabinet Inner / Outer Rod Lateral Bracket | Inspect ammo cabinet inner / outer rod lateral bracket for damage or missing components. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|---|---|--|
| 44 | Before | ARSS BII Tool Box and Bracket | Inspect ARSS BII tool box and bracket for damage or missing components | |
| 45 | Before | Fist Clamp Mounting | Inspect fist clamp mounting for damage or loose hardware. Tighten hardware. | |
| 46 | Before | Drill Press Bracket | Inspect drill press bracket for damage, cracks, or missing components. | |
| 47 | Before | Compressed Gas Cylinder Mounting | Inspect compressed gas cylinder mounting for damage and straps for tears. | |
| 48 | Before | Fire Extinguisher and Mounting Bracket | Inspect fire extinguisher and mounting bracket for damage, cracks, or missing components. | Fire extinguisher discharged, damaged, or missing. |
| 49 | During | Mechanical room electrical outlet and light switch. | Check mechanical room outlet and light switch for proper operation. | |
| 50 | During | ECU Drain Components | Check for leaks around ECU drain tube. | |
| 51 | During | ECU Air Duct and Flexible Duct | Inspect for air leaks and clogged duct system. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.



| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|--------------------------------|---|------------------------------------|
| 52 | During | Exhaust | <p>WARNING</p>  <p>Allow generator to cool before operating or performing maintenance on exhaust pipe. Hot components may burn personnel. Failure to follow this warning may cause injury.</p> <p>Inspect exhaust for cracks and leaks.</p> | Exhaust cracked or leaking. |
| 53 | During | Modified Closeout Panel | Check modified closeout panel for air leaks. | |
| 54 | After | ECU Power Cable | <p>WARNING</p>  <p>Ensure power supply to equipment is off and grounded After beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check ECU power cable for damage and loose connections.</p> | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|--------------------------------|---|---|
| 55 | After | Generator Power Cable | <p>WARNING</p>  <p>Ensure power supply to equipment is off and grounded After beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check generator power cable for damage and loose connections.</p> | |
| 56 | After | ECU Cutout Frame and Weldment | Inspect ECU cutout frame and weldment for damage or missing hardware. | ECU cutout frame or weldment damaged or missing hardware. |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|---|--|---|
| 57 | After | Exhaust and Rain Cap | <p>WARNING</p>  <p>Allow generator to cool after operating or performing maintenance on exhaust pipe. Hot components may burn personnel. Failure to follow this warning may cause injury.</p> <ol style="list-style-type: none"> 1. Inspect exhaust for damage or corrosion. 2. Inspect rain cap for proper operation and damage. Adjust rain cap for proper operation. | <p>Exhaust damaged or leaking.</p> <p>Rain cap damaged.</p> |
| 58 | After | Exhaust Clamp | Inspect exhaust clamp for damage, missing components, and proper operation. | Exhaust clamp damaged or missing components. |
| 59 | After | Storage Rack | Inspect storage rack for damage or missing components. | |
| 60 | After | Storage Rack Spring Latches | Inspect spring latches for proper operation and damage. | |
| 61 | After | Storage Rack Door and Hinge | Inspect storage rack door and hinge for missing or damaged components. | |
| 62 | After | Mechanical Room Electrical Box Electrical Conduit | Inspect electrical conduit and components for damage, corrosion, or cracks. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.


| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|----------|--|---|---|
| 63 | After | Mechanical Room Light Switch | Check light switch for damage. | |
| 64 | After | Mechanical Room Outlet | Check outlet for damage. | |
| 65 | After | Mechanical Room Electrical Box | Inspect mechanical room electrical box for damaged or missing components. | Mechanical room electrical box damaged or missing components. |
| 66 | After | Mechanical Room Pull Box | Inspect pull box for damaged or missing components. | |
| 67 | After | Ramp Components | Check if ramp components are missing or damaged. | Ramp components missing or damaged. |
| 68 | After | Interior Electrical Panel Wiring / Electrical Components | <p>WARNING</p>  <p>Ensure power supply to equipment is off and grounded After beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.</p> <p>Check all wiring for damage, loose connections, and evidence of overheating. Tighten connections.</p> | Wiring damaged. |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|--|---|--|
| 69 | After | Circuit Breakers | Check circuit breakers for proper operation and damage. | Circuit breakers damaged or not operating correctly. |
| 70 | After | Selector Switch | Check if selector switch is missing or damaged. | Selector switch missing or damaged. |
| 71 | After | Work Room Pull Box | Inspect pull box for damaged or missing components. | |
| 72 | After | Raceway | Inspect raceway for damage, union to ceiling, or missing components. | |
| 73 | After | Modified Closeout Panel | Check modified closeout panel for damaged or missing components. | |
| 74 | After | Signal Entry Panel (SEP) Wall Assembly | Inspect SEP wall for damage or cracks. | |
| 75 | After | Signal Entry Panel (SEP) | Inspect SEP for damaged or missing components. | |
| 76 | After | SEP Receptacles | Check SEP receptacles for corrosion, burns, or damage. | |
| 77 | After | Work Station Brace and Counter Top | Inspect work station brace and counter top for damage, loose hardware, or cracks. Tighten hardware. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|---------------------------------------|---|---|
| 78 | After | Workbench Top | Inspect workbench top for damage and for loose hardware. Tighten hardware, | |
| 79 | After | Workbench Casters | Inspect workbench casters for binding and smooth operation, damage, or missing components. | |
| 80 | After | Workbench Foot Lock | Inspect workbench foot lock for proper operation, damage, or missing components. | |
| 81 | After | Shelter BII Box and Stackbin Rack | Inspect Shelter BII box and stackbin rack for damage or missing components. | |
| 82 | After | Vises, Grinder, and Drill Press | Check vises, grinder, and drill press for secure mounting or missing hardware. Tighten mounting hardware. | |
| 83 | After | Tool Cabinets A, B, C, and D | Inspect tool cabinets A, B, C, and D for damage or missing components. | |
| 84 | After | Tool Cabinet D Doors | Inspect tool cabinet D doors for damage and smooth operation. | |
| 85 | After | Tool Cabinet Drawers | Inspect cabinet drawers for damage, missing components, and proper operation. | |
| 86 | After | Ammo Cabinet Casters | Inspect ammo cabinet casters for binding and smooth operation, damage, or missing components. | |
| 87 | After | Small Arms Rack | Inspect small arms rack for damage. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-----------------|-----------------|--|---|--|
| 88 | After | Ammo Cabinet Brackets | Inspect ammo cabinet bracket for damage or missing components. | |
| 89 | After | Ammo Cabinet Inner / Outer Rod Lateral Bracket | Inspect ammo cabinet inner / outer rod lateral bracket for damage or missing components. | |
| 90 | After | ARSS BII Tool Box and Bracket | Inspect ARSS BII tool box and bracket for damage or missing components | |
| 91 | After | Fist Clamp Mounting | Inspect fist clamp mounting for damage or loose hardware. Tighten hardware. | |
| 92 | After | Drill Press Bracket | Inspect drill press bracket for damage, cracks, or missing components. | |
| 93 | After | Compressed Gas Cylinder Mounting | Inspect compressed gas cylinder mounting for damage and straps for tears. | |
| 94 | After | Fire Extinguisher and Mounting Bracket | Inspect fire extinguisher and mounting bracket for damage, cracks, or missing components. | Fire extinguisher discharged, damaged, or missing. |
| 95 | Monthly | Generator Slide | Clean and lubricate generator slide, refer to Lubrications Instructions at the end of this work package. | |
| 96 | Monthly | Ammo Cabinet and Workbench Casters | Clean and lubricate ammo cabinet and workbench casters, refer to Lubrications Instructions at the end of this work package. | |
| 97 | Monthly | Cabinet Drawer Slides | Clean and lubricate cabinet drawer slides, refer to Lubrications Instructions at the end of this work package. | |

Table 1. Operator Preventive Maintenance Checks and Services – Continued.

| ITEM NO. | INTERVAL | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|----------|---------------|--------------------------------|--|--|
| 98 | Semi-Annually | Smoke Alarm | 1. Check smoke alarm for proper operation by pressing test button. 2. Check smoke alarm if missing or damaged | Smoke alarm fails test. Smoke alarm missing or damaged. |

END OF TASK**LUBRICATION INSTRUCTIONS****CAUTION**

Do not use alternate types/grades of lubricant. Failure to follow this caution may result in damage to equipment.

1. Table 1 identifies the lubrication points for the Armament Repair Shop Set (ARSS). All lubrication points require the same lubricant at the same interval.
2. Clean part with wiping rags prior to lubricating.
3. Lubricate part with grease, being careful not to over lubricate.

WARNING

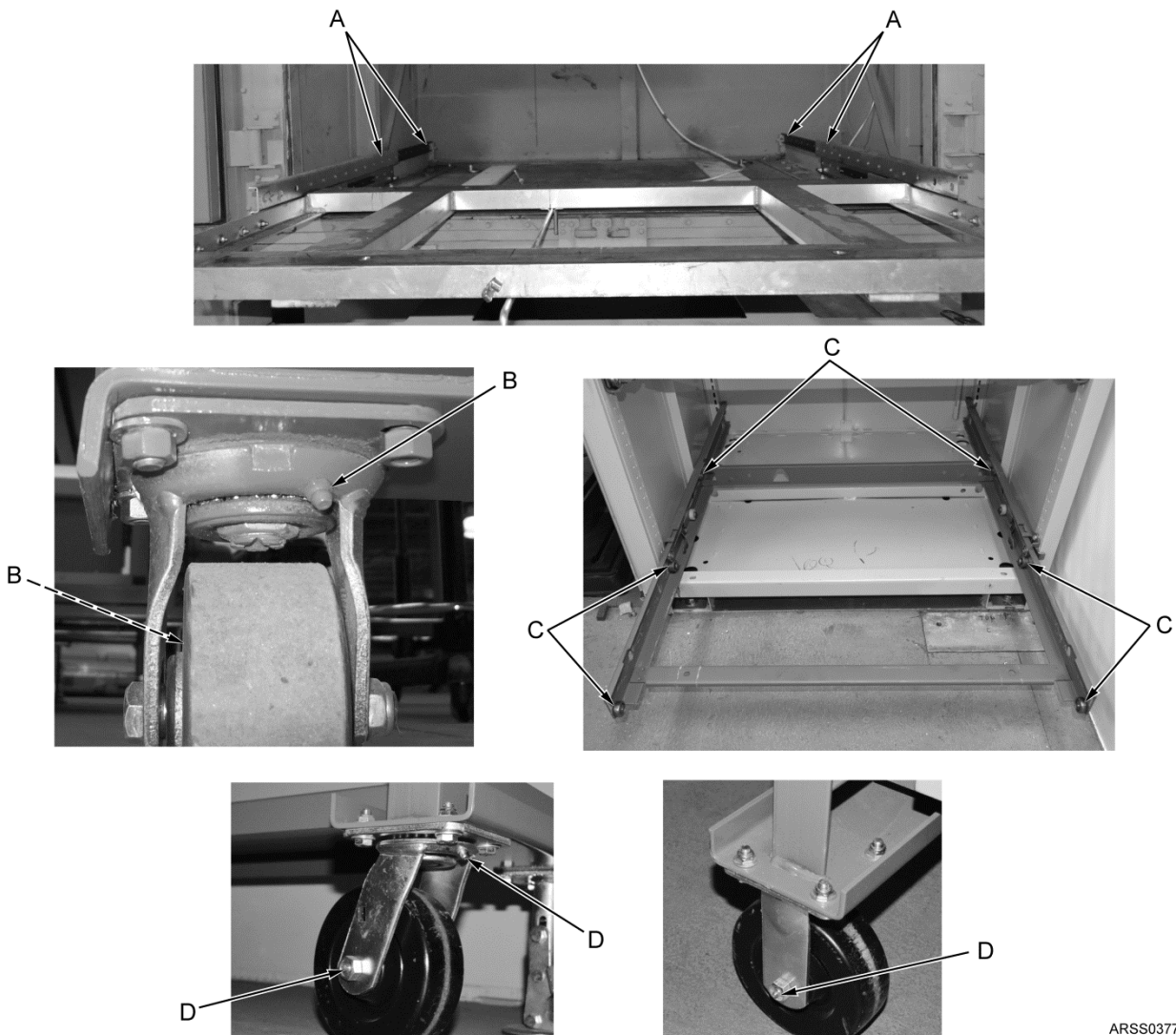
When performing lubrication, remove any excess lubricant to prevent personnel from slipping or falling while stepping on or off the equipment. Failure to follow this warning may cause injury.

4. Wipe any excess lubricant from part.

LUBRICATION INSTRUCTIONS - Continued

Table 1. Lubrication Points for ARSS.

| LUBRICATION POINT | DESCRIPTION |
|-------------------|---|
| A | Generator Slide (4 points) (Figure 1) |
| B | Ammo Cabinet (6 points) (Figure 1) |
| C | Cabinet Drawer Slides (6 points) (Figure 1) |
| D | Workbenches (6 points) (Figure 1) |



ARSS0377

Figure 1. Lubrication Points.

END OF TASK

END OF WORK PACKAGE

CHAPTER 5

MAINTENANCE INSTRUCTIONS

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

**FIELD MAINTENANCE
SERVICE UPON RECEIPT**

INITIAL SETUP:**References**

AR 735-11-2
DA PAM 750-8
TM 9-6115-750-10
TM 9-4120-425-14&P
TM 9-4120-434-13&P

References (cont.)

SF 361
SF 364
WP 0005
WP 0006

UNPACKING

When a new or reconditioned component of the Armament Repair Shop Set (ARSS) is received, be aware of any shipping damage to packaging material. Report any damage on SF 364, Report of Discrepancy (ROD), as prescribed in AR 735-11-2. Retain packaging material for future use.

END OF TASK**CHECKING UNPACKED EQUIPMENT**

1. Inspect shelter exterior for damage incurred during shipment.
2. Check generator in accordance with (TM 9-6115-750-10).
3. Check ECU in accordance with (TM 9-4120-425-14&P) or IECU (TM 9-4120-434-13&P).
4. Inspect shelter interior for damage.
5. Check interior instrument and equipment connections. Tighten or secure if loose.
6. Inventory all tools and equipment including Basic Issue Items (BII), test equipment, and expendable items.
7. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 361, Transportation Discrepancy Report.
8. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with applicable service instructions (e.g., for Army instructions, see DA PAM 750-8).
9. Check to see if equipment has been modified.

END OF TASK**INSTALLATION INSTRUCTIONS**

Set up Armament Repair Shop Set (ARSS) components and operate all subsystems to ensure proper operation (WP 0005 and WP 0006).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
ENVIRONMENTAL CONTROL UNIT (ECU) REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Forklift (2-Ton capacity)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS (2)

Materials/Parts

Thread Tape (WP 0123, Item 9)
Tie, Cable (WP 0123, Item 10)
Washer, Lock Qty: 2 (TM 9-4210-425-14&P)
Washer, Lock Qty: 6 (WP 0093, Item 11)

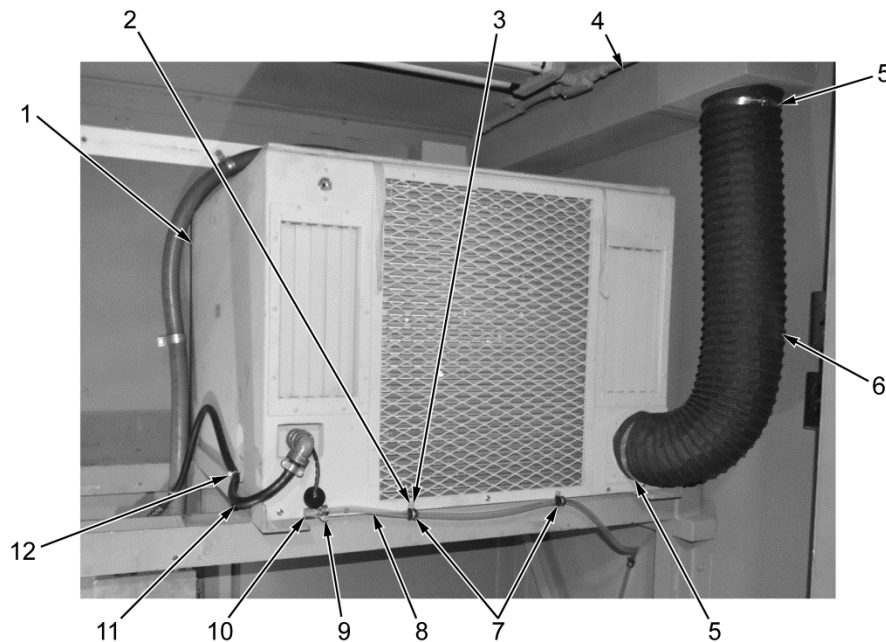
Equipment Condition

ECU power OFF (TM 9-4120-425-14&P) or
IECU power OFF (TM 9-4120-434-13&P)
Generator removed (WP 0030)
Storage rack removed (WP 0039)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove electrical cable (Figure 1, Item 11) and cable tie (Figure 1, Item 12) from ECU (Figure 1, Item 1). Discard cable tie.
2. Loosen two clamps (Figure 1, Item 5) and remove flexible duct (Figure 1, Item 6) from ECU (Figure 1, Item 1) and air duct (Figure 1, Item 4).
3. Loosen clamp (Figure 1, Item 9) and remove drain tube (Figure 1, Item 8) and elbow (Figure 1, Item 10) from ECU (Figure 1, Item 1).
4. Remove two screws (Figure 1, Item 2), lockwashers (Figure 1, Item 3), and clamps (Figure 1, Item 7) from ECU (Figure 1, Item 1). Discard lockwashers.



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Figure 1. ECU Hardware Removal.

REMOVAL - Continued

5. Install cap (Figure 2, Item 6) on ECU (Figure 2, Item 2).
6. Remove four screws (Figure 2, Item 5), vent fitting (Figure 2, Item 3), and filter (Figure 2, Item 4) from ECU (Figure 2, Item 2).
7. Remove six bolts (Figure 2, Item 7), lockwashers (Figure 2, Item 8), and flat washers (Figure 2, Item 1) from frame (Figure 2, Item 9) and ECU (Figure 2, Item 2). Discard lockwashers.

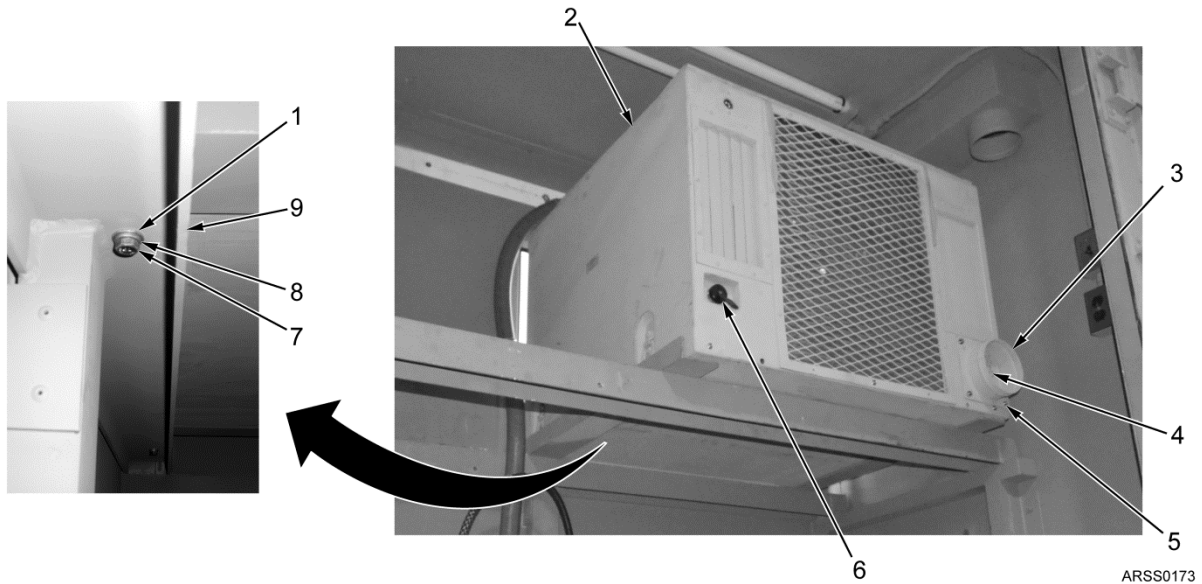
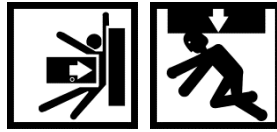


Figure 2. ECU Vent Fitting and Mounting Hardware Removal.

REMOVAL - Continued**WARNING**

The ECU weighs 560 lb (205 kg). Use three personnel when moving ECU. All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Do not allow the ECU to tilt on lifting device. ECU may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

CAUTION

Ensure care is taken when removing and installing ECU. ECU may damage surrounding equipment. Failure to follow this caution may cause damage to equipment.

8. Position forklift so forks are positioned in front and under ECU (Figure 3, Item 1).
9. From inside of work room, have two personnel push ECU (Figure 3, Item 1) outwards to clear ECU opening in wall.
10. Using forklift, insert forks under ECU (Figure 3, Item 1) and above frame (Figure 3, Item 3) and lift up to support weight.
11. With two personnel inside work room, push ECU (Figure 3, Item 1) farther onto to forks.
12. Continue to move forklift closer to shelter (Figure 3, Item 2) and push ECU (Figure 3, Item 1) farther onto forks until most of ECU is on forks.
13. Remove ECU (Figure 3, Item 1) from frame (Figure 3, Item 3).



ARSS0174

Figure 3. ECU Removal.

END OF TASK

INSTALLATION

1. Using forklift, install ECU (Figure 4, Item 1) in shelter (Figure 4, Item 2) on frame (Figure 4, Item 3).
2. Go forward with ECU (Figure 4, Item 1) on forklift as far as possible and have two personnel push ECU off of forks and onto frame (Figure 4, Item 3).

WARNING

Ensure fingers are clear of ECU opening in wall during installation. ECU slides into wall opening and could pinch fingers. Failure to follow this warning may cause injury.

NOTE

Ensure chain on front of ECU for damper is not pinched during installation. Doing so will prevent ECU from sliding all the way in.

3. With two personnel in mechanical room and one inside work room, slide ECU (Figure 4, Item 1) back on frame (Figure 4, Item 3) until mounting holes line up.



ARSS0175

Figure 4. ECU Installation.

INSTALLATION - Continued

4. Secure ECU (Figure 5, Item 2) on frame (Figure 5, Item 9) with six flat washers (Figure 5, Item 1), new lockwashers (Figure 5, Item 8), and bolts (Figure 5, Item 7).
5. Remove cap (Figure 5, Item 6) from ECU (Figure 5, Item 2).
6. Install filter (Figure 5, Item 4), vent fitting (Figure 5, Item 3), and four screws (Figure 5, Item 5) on ECU (Figure 5, Item 2).

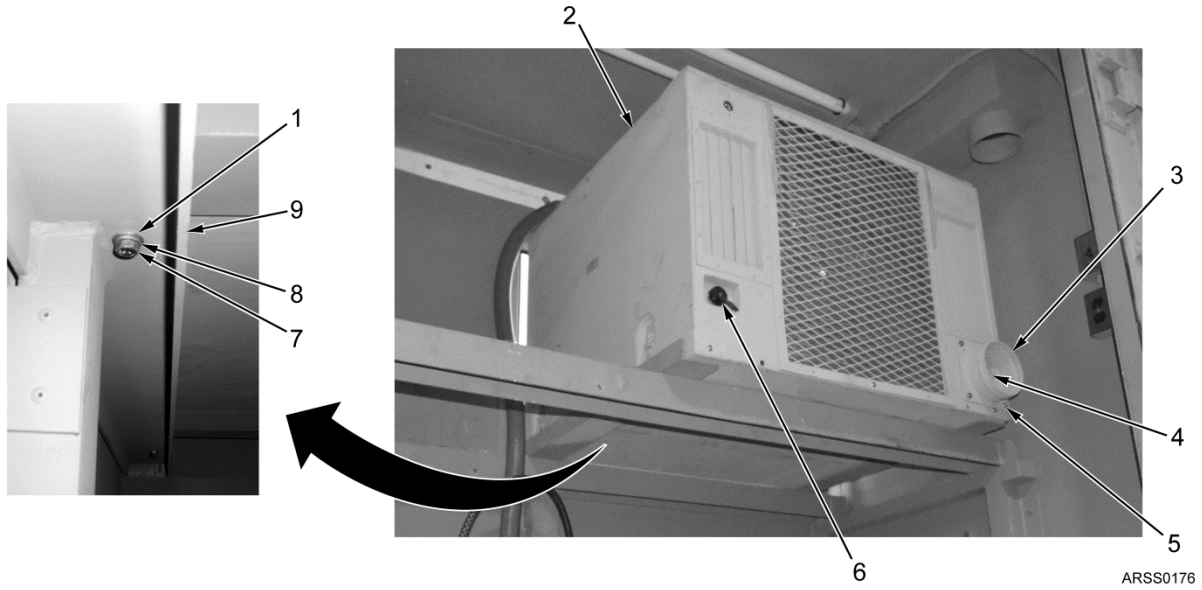


Figure 5. ECU Vent Fitting and Mounting Hardware Installation.

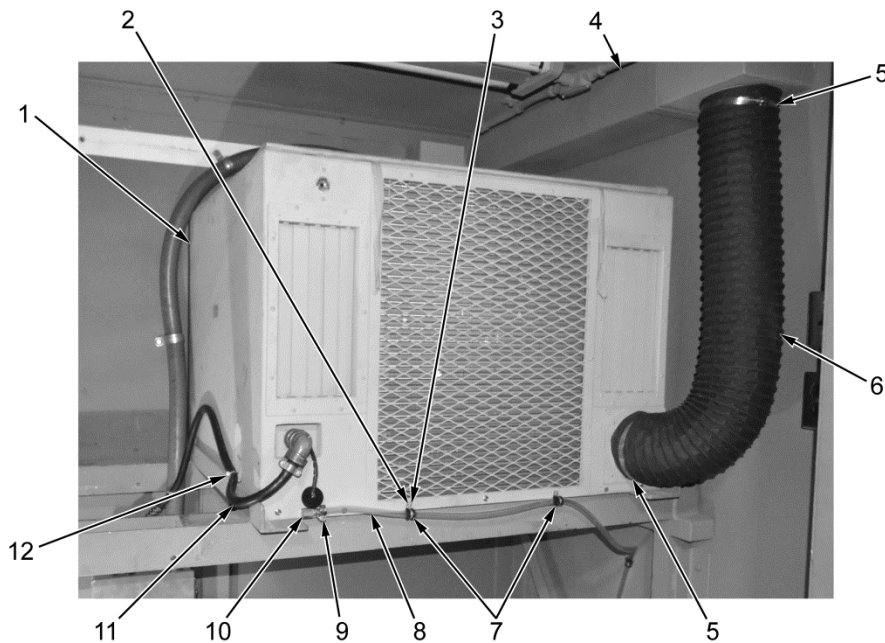
INSTALLATION - Continued

7. Apply thread tape to elbow (Figure 6, Item 10) and install on ECU (Figure 6, Item 1).
8. Install two clamps (Figure 6, Item 7), new lockwashers (Figure 6, Item 3), screws (Figure 6, Item 2) and drain tube (Figure 6, Item 8) on ECU (Figure 6, Item 1).
9. Install drain tube (Figure 6, Item 8) and clamp (Figure 6, Item 9) on elbow (Figure 6, Item 10).
10. Install flexible duct (Figure 6, Item 6) and two clamps (Figure 6, Item 5) on ECU (Figure 6, Item 1) and air duct (Figure 6, Item 4).

WARNING

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

11. Install electrical cable (Figure 6, Item 11) on ECU (Figure 6, Item 1) and secure with new cable tie (Figure 6, Item 12).



ARSS0177

Figure 6. ECU Hardware Installation.

END OF TASK

FOLLOW-ON MAINTENANCE

1. Install storage rack (WP 0039).
2. Install generator (WP 0030).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
ECU POWER CABLE REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)
Tie, Cable (WP 0123, Item 10)

References

FO-1
FO-2

Personnel Required

Wheeled Vehicle Mechanic - 91B

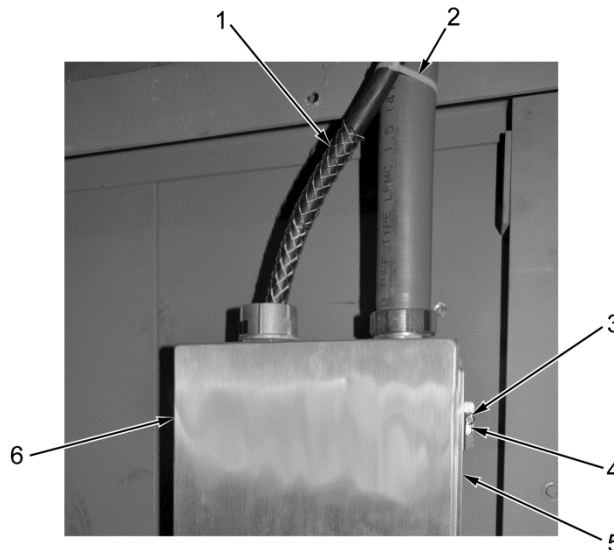
Equipment Condition

Generator extended (WP 0010)
ARSS power OFF (WP 0009)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove cable tie (Figure 1, Item 2) from ECU power cable (Figure 1, Item 1). Discard cable tie.
2. Loosen two screws (Figure 1, Item 3), rotate two tabs (Figure 1, Item 4) and open mechanical room electrical box cover (Figure 1, Item 6) on mechanical room electrical box (Figure 1, Item 5).

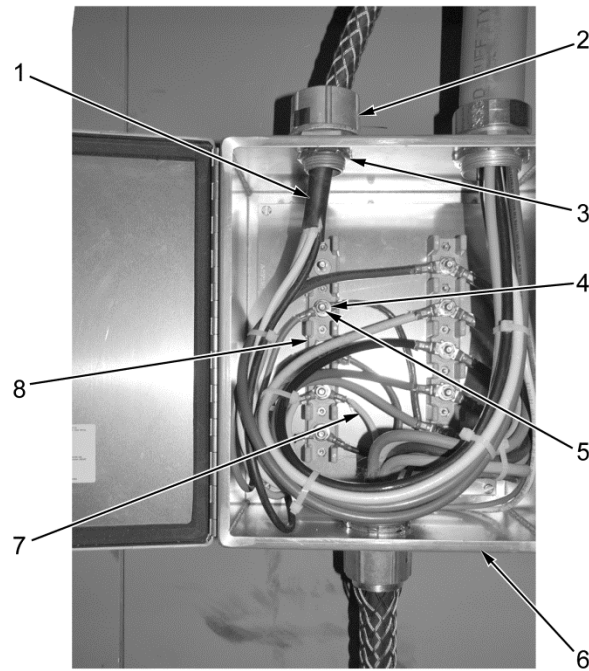


ARSS0219

Figure 1. Mechanical Room Electrical Box Cover Removal.

NOTE

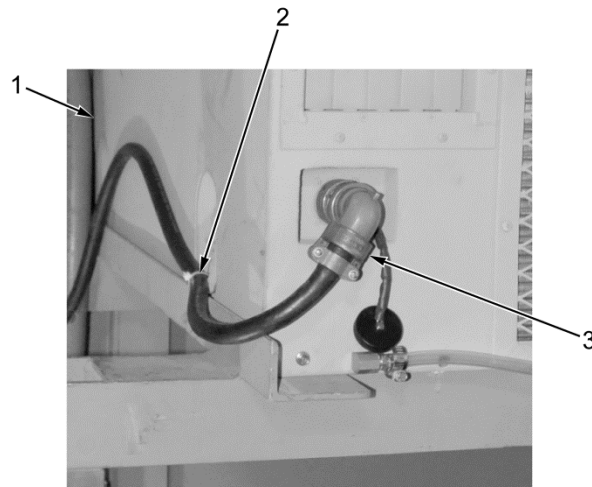
- Mark or tag all wires prior to removal to aid in installation.
 - Remove cable ties as required for removal of wires.
3. Remove four nuts (Figure 2, Item 5), flat washers (Figure 2, Item 4) and eight wires (Figure 2, Item 7) from terminal board (Figure 2, Item 8).
 4. Remove nut (Figure 2, Item 3), cord grip (Figure 2, Item 2) and ECU power cable (Figure 2, Item 1) from mechanical room electrical box (Figure 2, Item 6).

REMOVAL - Continued

ARSS0220

Figure 2. Electrical Box Wiring Removal.

5. Remove cable tie (figure 3, Item 2) and ECU power cable (Figure 3, Item 3) from ECU (Figure 3, Item 1). Discard cable tie.



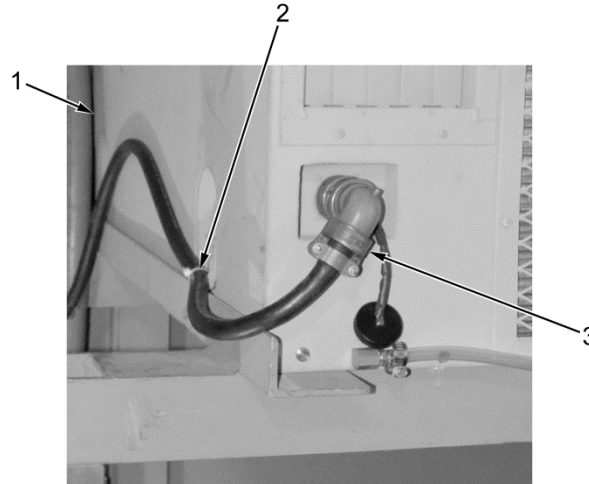
ARSS0221

Figure 3. ECU Power Cable Removal.

END OF TASK

INSTALLATION

1. Install ECU power cable (Figure 4, Item 3) and new cable tie (Figure 4, Item 2) on ECU (Figure 4, Item 1).



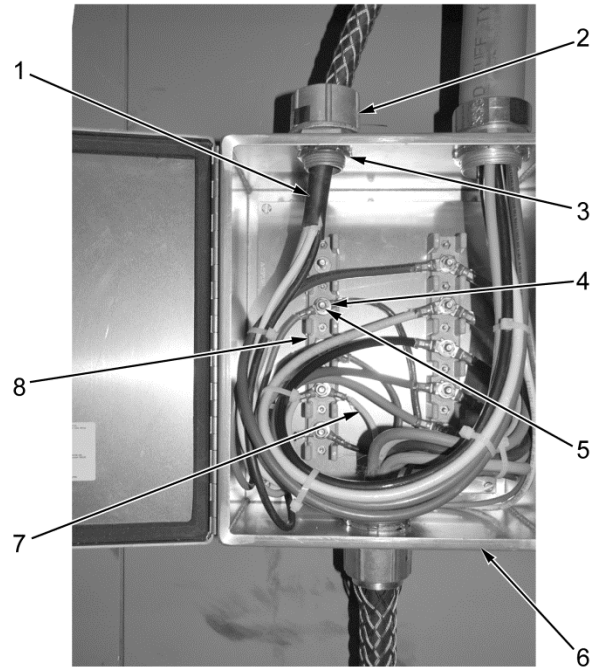
ARSS0222

Figure 4. ECU Power Cable Installation.

NOTE

Install new cable ties securing wires together.

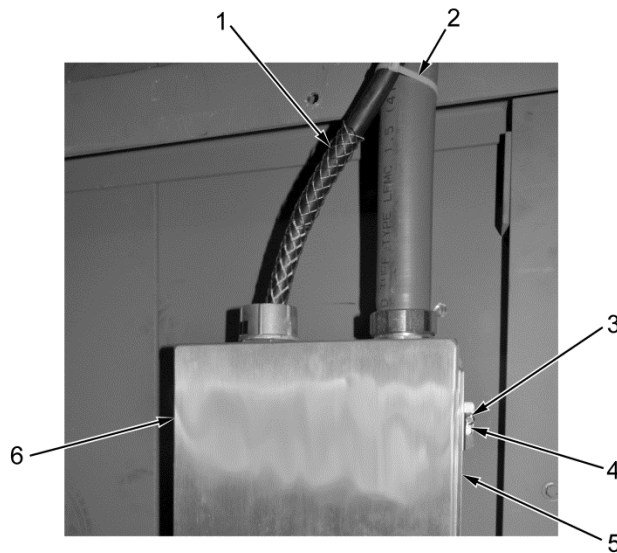
2. Install ECU power cable (Figure 5, Item 1), cord grip (Figure 5, Item 2), and nut (Figure 5, Item 3) in mechanical room electrical box (Figure 5, Item 6).
3. Install eight wires (Figure 5, Item 7), four flat washers (Figure 5, Item 4), and nuts (Figure 5, Item 5) on terminal board (Figure 5, Item 8).

INSTALLATION - Continued

ARSS0223

Figure 5. Electrical Box Wiring Installation.

4. Close mechanical room electrical box cover (Figure 6, Item 6) on mechanical room electrical box (Figure 6, Item 5) and secure by rotating two tabs (Figure 6, Item 4) and tightening screws (Figure 6, Item 3).
5. Install new cable tie (Figure 6, Item 2) on ECU power cable (Figure 6, Item 1).



ARSS0224

Figure 6. Mechanical Room Electrical Box Cover Installation.

END OF TASK

FOLLOW-ON MAINTENANCE

Retract generator (WP 0010).

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE

ECU DRAIN COMPONENTS REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Glove, Patient Examining (WP 0123, Item 2)
Goggles, Safety (WP 0122, Item 27)
Rivet, Blind Qty: 8 (WP 0093, Item 8)

Materials/Parts (cont.)

Sealing Compound (WP 0123, Item 5)
Thread Tape (WP 0123, Item 9)
Washer, Lock Qty: 4 (WP 0093, Item 5)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

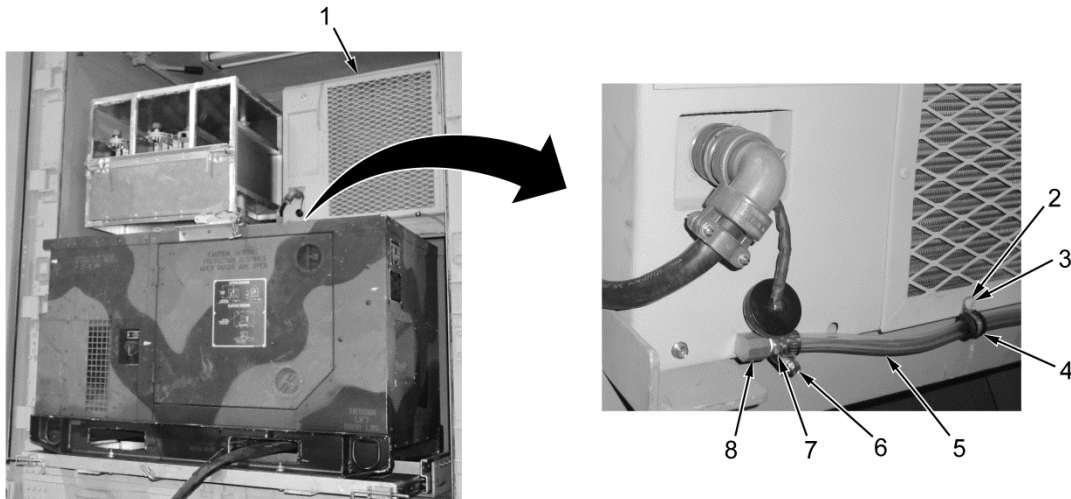
WP 0090

Equipment Condition

Generator extended (WP 0010)

REMOVAL

1. Loosen clamp (Figure 1, Item 6) and remove drain tube (Figure 1, Item 5) and fitting (Figure 1, Item 7) from elbow (Figure 2, Item 8).
2. Remove two screws (Figure 1, Item 2), lockwashers (Figure 1, Item 3), and clamps (Figure 1, Item 4) from ECU (Figure 1, Item 1). Discard lockwashers.
3. Remove elbow (Figure 1, Item 8) from ECU (Figure 1, Item 1).



ARSS0046

Figure 1. Air Duct Removal.

REMOVAL - Continued**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

4. Remove two screws (Figure 2, Item 2), lockwashers (Figure 2, Item 3), flat washers (Figure 2, Item 5), and clamps (Figure 2, Item 8) from shelter (Figure 2, Item 4). Discard lockwashers.
5. Remove drain tube (Figure 2, Item 1) from two drain fittings (Figure 2, Item 6) and shelter (Figure 2, Item 4).
6. Score edges of two drain fittings (Figure 2, Item 6) to remove sealing compound.
7. Remove eight rivets (Figure 2, Item 7) and two drain fittings (Figure 2, Item 6) from shelter (Figure 2, Item 4). Discard rivets.

END OF TASK**INSTALLATION****WARNING**

Sealing compound causes immediate bonding on contact with eyes, skin, or clothing and also gives off harmful vapors. Wear protective goggles and gloves and use in well-ventilated area. If sealant gets in eyes, try to keep eyes open. Flush eyes with water for 15 minutes and get immediate medical attention. Failure to follow this warning may cause injury or death.

NOTE

Allow 1 hour for sealing compound to dry.

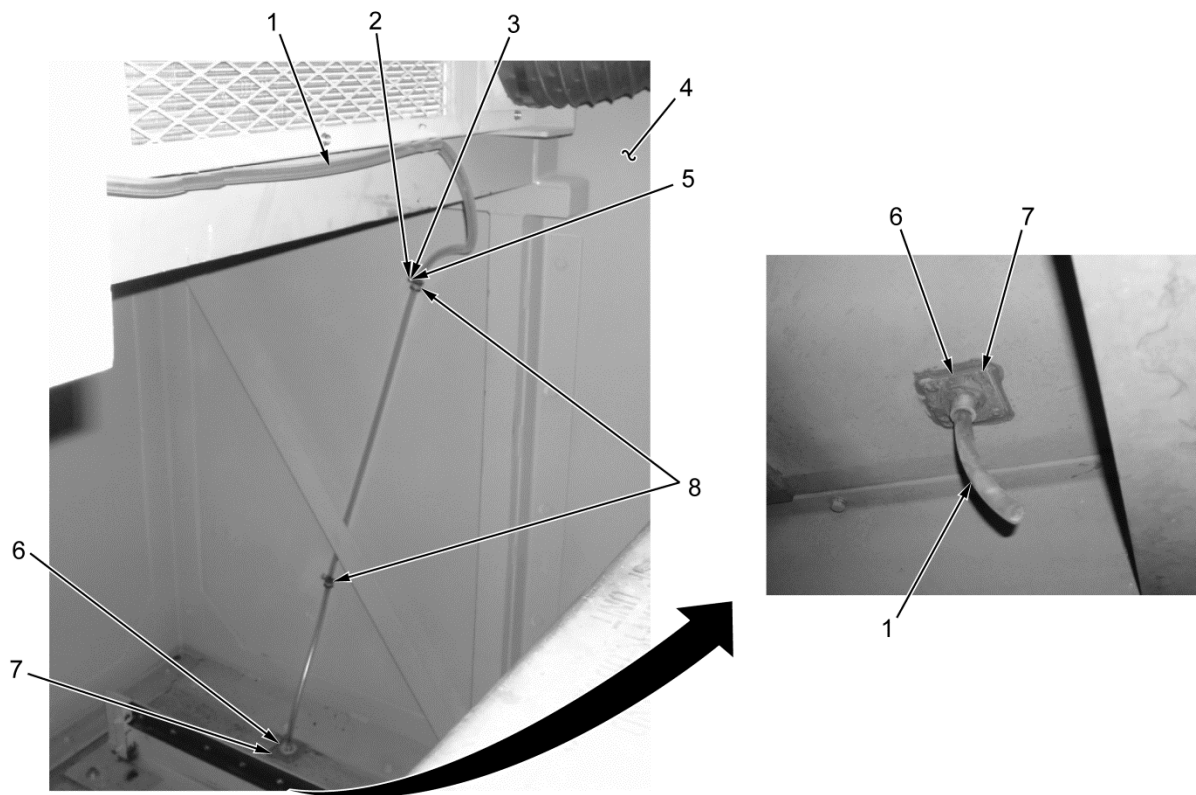
1. Apply sealing compound to two drain fitting (Figure 2, Item 4) mounting surfaces.

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

2. Install two drain fittings (Figure 2, Item 4) and eight new rivets (Figure 2, Item 7) on shelter (Figure 2, Item 2).
3. Install drain tube (Figure 2, Item 1) in shelter (Figure 2, Item 2) through two drain fittings (Figure 2, Item 4).
4. Install two clamps (Figure 2, Item 8), flat washers (Figure 2, Item 5), lockwashers (Figure 2, Item 3), and screws (Figure 2, Item 2) securing drain tube (Figure 2, Item 1) to shelter (Figure 2, Item 2).

INSTALLATION - Continued

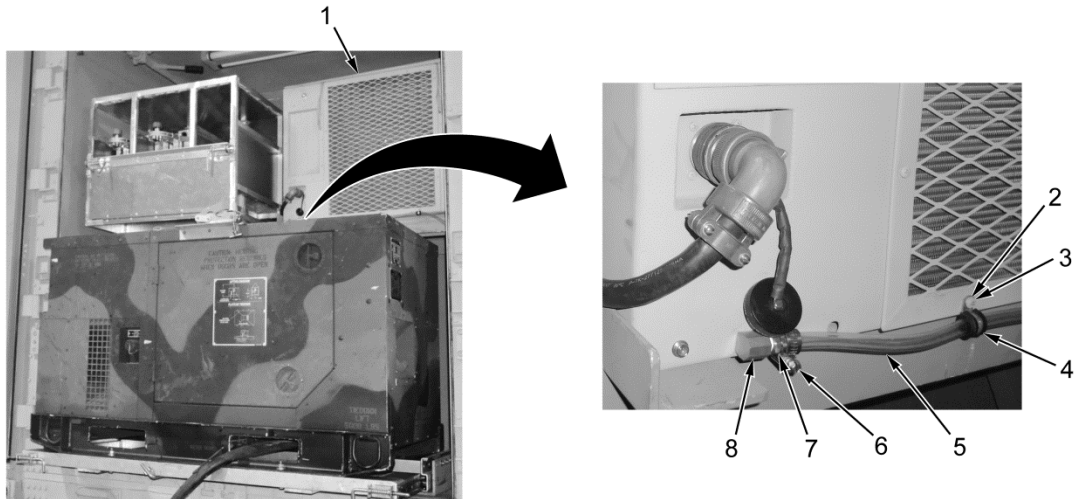


ARSS0048

Figure 2. Drain Tube and Drain Fittings Installation.

INSTALLATION - Continued

5. Apply thread tape to elbow (Figure 3, Item 8) and fitting (Figure 3, Item 7) and install on ECU (Figure 3, Item 1).
6. Install two clamps (Figure 3, Item 4), new lockwashers (Figure 3, Item 3), screws (Figure 3, Item 2) and drain tube (Figure 3, Item 5) on ECU (Figure 3, Item 1).
7. Install drain tube (Figure 3, Item 5) and clamp (Figure 3, Item 6) on fitting (Figure 3, Item 7).



ARSS0049

Figure 3. Air Duct Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
AIR DUCT REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Glove, Patient Examining (WP 0123, Item 2)
Goggles, Safety (WP 0122, Item 27)
Rivet, Blind Qty: 8 (WP 0094, Item 8)

Materials/Parts (cont.)

Sealing Compound (WP 0123, Item 5)
Washer, Lock Qty: 4 (WP 0094, Item 6)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

WP 0090

Equipment Condition

ARSS setup for operation (WP 0006)

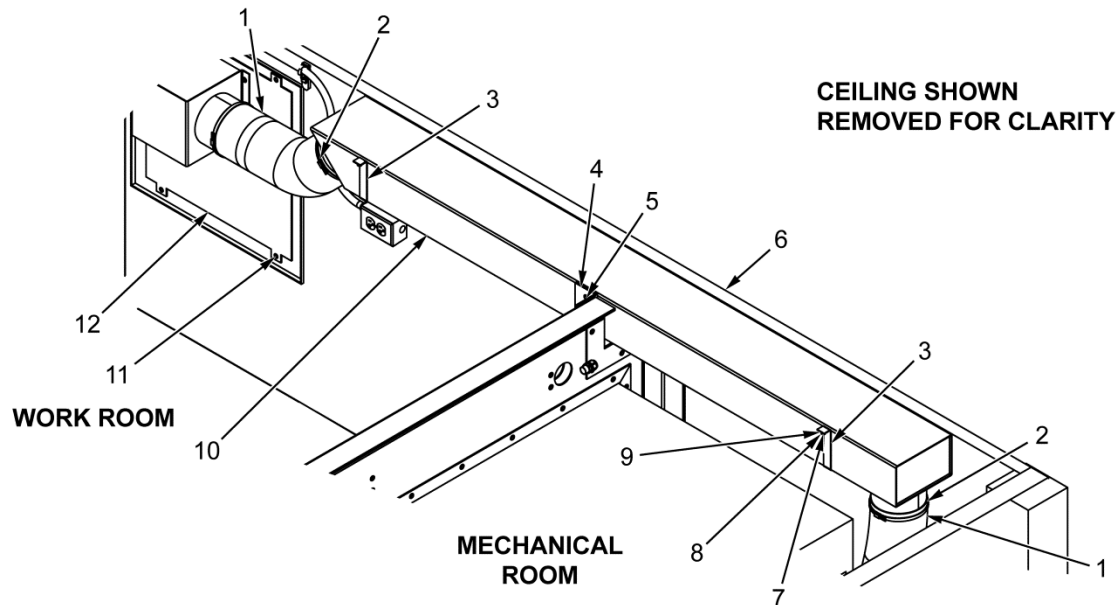
REMOVAL

1. Loosen two clamps (Figure 1, Item 2) and remove flexible ducts (Figure 1, Item 1) from air duct (Figure 1, Item 10).
2. Loosen four thumbscrews (Figure 1, Item 11) and remove modified closeout panel (Figure 1, Item 12) from shelter (Figure 1, Item 6).

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

3. Score edges around air duct (Figure 1, Item 10) and corner bracket (Figure 1, Item 4) to remove sealing compound.
4. Remove eight rivets (Figure 1, Item 5) and corner bracket (Figure 1, Item 4) from air duct (Figure 1, Item 10). Discard rivets.
5. Remove four bolts (Figure 1, Item 7), lockwashers (Figure 1, Item 8), flat washers (Figure 1, Item 9), and two ceiling brackets (Figure 1, Item 3) from air duct (Figure 1, Item 10). Discard lockwashers.
6. Remove air duct (Figure 1, Item 10) from shelter (Figure 1, Item 6).



ARSS0044

Figure 1. Air Duct Removal.

END OF TASK**INSTALLATION**

1. Install air duct (Figure 2, Item 10), two ceiling brackets (Figure 2, Item 3), four flat washers (Figure 2, Item 9), new lockwashers (Figure 2, Item 8), and bolts (Figure 2, Item 7) on shelter (Figure 2, Item 6).

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

INSTALLATION - Continued

2. Install corner bracket (Figure 2, Item 4) and eight new rivets (Figure 2, Item 5) on air duct (Figure 2, Item 10).
3. Install modified closeout panel (Figure 2, Item 12) in shelter (Figure 2, Item 6) and tighten four thumbscrews (Figure 2, Item 11).
4. Install two flexible ducts (Figure 2, Item 1) and clamps (Figure 2, Item 2) on air duct (Figure 2, Item 10)

WARNING

Sealing compound causes immediate bonding on contact with eyes, skin, or clothing and also gives off harmful vapors. Wear protective goggles and gloves and use in well-ventilated area. If sealant gets in eyes, try to keep eyes open. Flush eyes with water for 15 minutes and get immediate medical attention. Failure to follow this warning may cause injury or death.

NOTE

Allow 1 hour for sealing compound to dry.

5. Apply sealing compound around edges of air duct (Figure 2, Item 10) and corner bracket (Figure 2, Item 4).

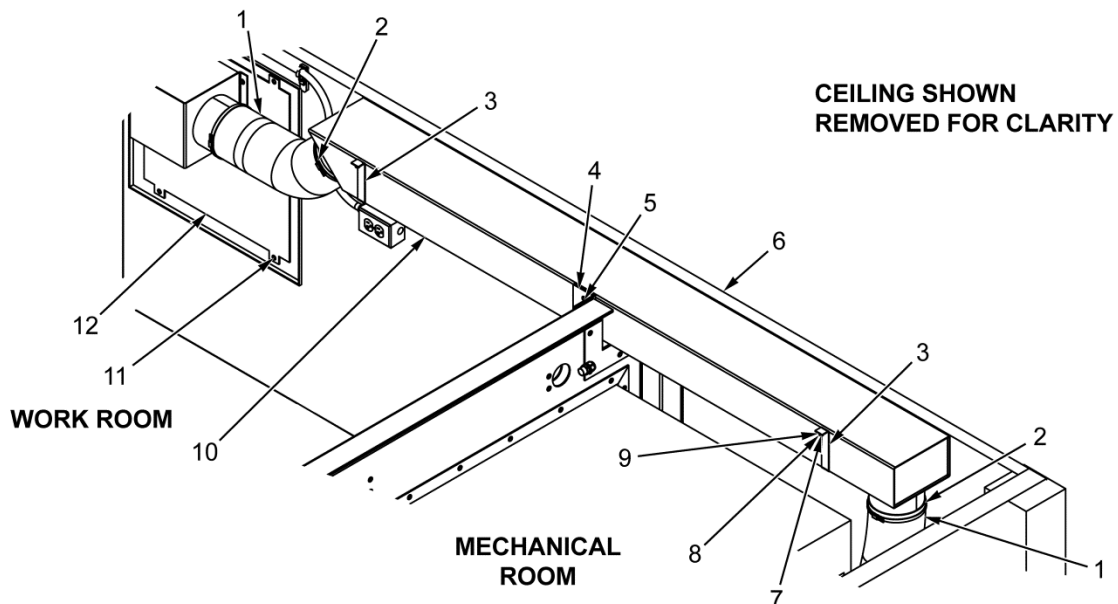


Figure 2. Air Duct Installation.

ARSS0045

END OF TASK

END OF WORK PACKAGE

**FIELD MAINTENANCE
GENERATOR REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP
0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124,
Item 5)
Lifting Device (2-Ton capacity)
Wrench, Torque 3/8" Drive 0-150 ft-lb (WP
0124, Item 17)

Materials/Parts

Goggles, Safety (WP 0122, Item 27)

Materials/Parts (cont.)

Washer, Lock Qty: 4 (WP 0095, Item 4)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

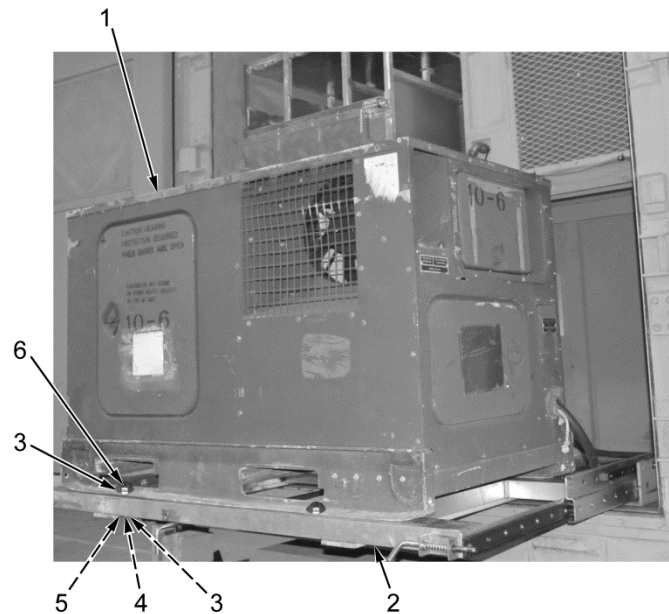
Equipment Condition

Exhaust clamp removed (WP 0038)
Generator extended (WP 0010)
Generator power cable removed (WP 0031)

REMOVAL**WARNING**

The generator weighs 1,550 lb (703 kg). All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Wear head protection at all times to prevent head injury. Do not allow the generator to swing while hanging by lifting device. Generator may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

1. Using lifting device, support weight of generator (Figure 1, Item 1).
2. Remove four nuts (Figure 1, Item 4), lockwashers (Figure 1, Item 5), bolts (Figure 1, Item 6), and eight flat washers (Figure 1, Item 3) from generator (Figure 1, Item 1). Discard lockwashers.
3. Using lifting device, remove generator (Figure 1, Item 1) from generator slide (Figure 1, Item 2) and place on ground.



ARSS0023

Figure 1. Generator Removal.

END OF TASK

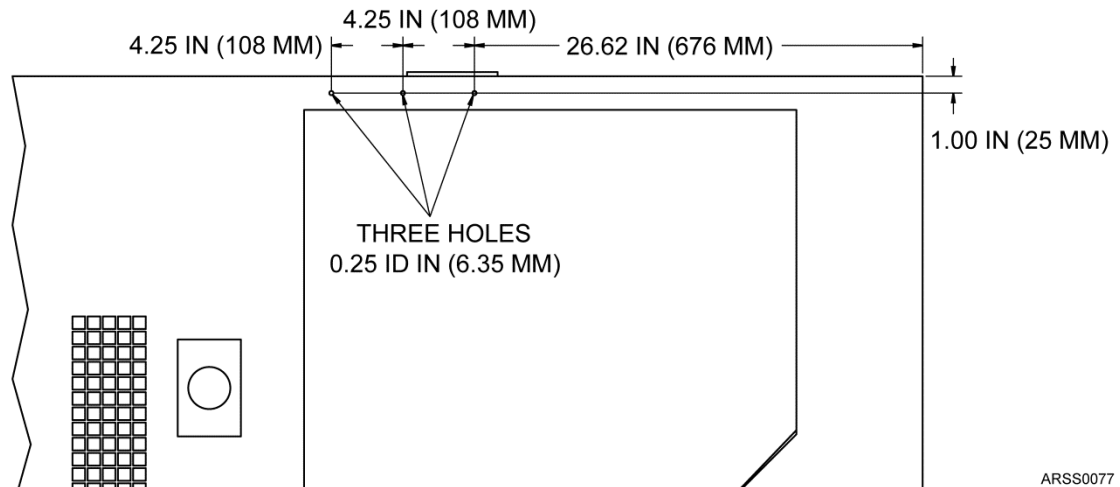
INSTALLATION**WARNING**

Wear safety goggles for eye protection from flying metal chips. Flying metal chips can act as projectiles when released and could cause severe eye injury. Failure to follow this warning may cause injury.

NOTE

If installing same generator, skip Step 1.

1. Drill three 1/4 in (6.35 mm) holes in new generator in illustrated locations.

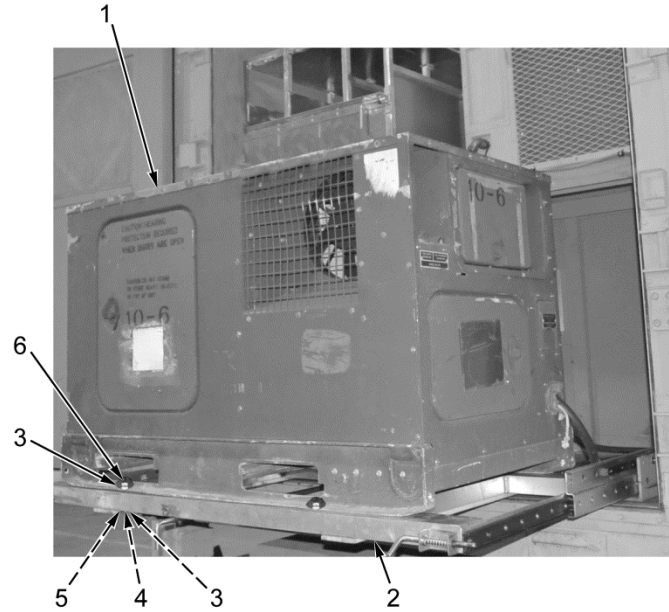


ARSS0077

Figure 2. New Generator Preparation.

INSTALLATION - Continued

2. Using lifting device, install generator (Figure 3, Item 1) on generator slide (Figure 3, Item 2).
3. Secure generator (Figure 3, Item 1) on generator slide (Figure 3, Item 2) with eight flat washers (Figure 3, Item 5), four bolts (Figure 3, Item 3), new lockwashers (Figure 3, Item 6), and nuts (Figure 3, Item 4).
4. Torque bolts (Figure 3, Item 3) to 32 ft-lb (40 N·m).



ARSS0024

Figure 3. Generator Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

1. Install power cable (WP 0031).
2. Retract generator (WP 0010).
3. Install exhaust clamp (WP 0038).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
GENERATOR POWER CABLE REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Wrench, Box (Terminal) (WP 0124, Item 16)

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)
Tie, Cable Qty: V (WP 0123, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Personnel Required (cont.)

Non-Specific MOS

References

FO-1
FO-2

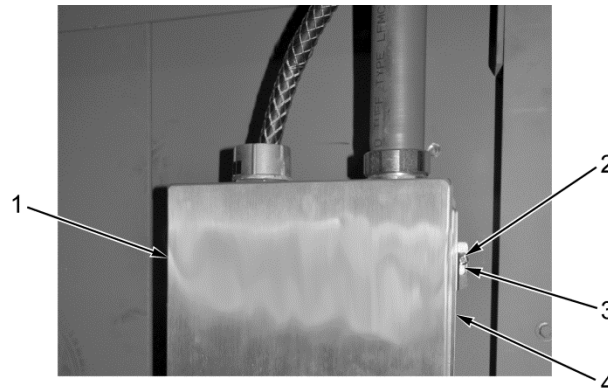
Equipment Condition

Generator extended (WP 0010)
ARSS power OFF (WP 0009)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Loosen two screws (Figure 1, Item 2), rotate two tabs (Figure 1, Item 3) and open mechanical room electrical box cover (Figure 1, Item 1) on mechanical room electrical box (Figure 1, Item 4).

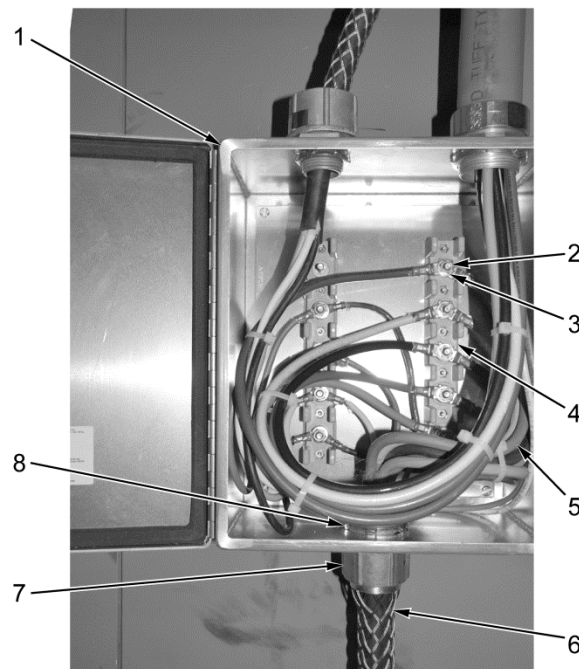


ARSS0225

Figure 1. Mechanical Room Electrical Box Cover Removal.

REMOVAL - Continued**NOTE**

- Mark or tag all wires prior to removal to aid in installation.
 - Remove cable ties as required for removal of wires.
2. Remove five nuts (Figure 2, Item 2), flat washers (Figure 2, Item 3) and 10 wires (Figure 2, Item 5) from terminal board (Figure 2, Item 4).
 3. Install five wires (Figure 2, Item 5), flat washers (Figure 2, Item 3), and nuts (Figure 2, Item 2) back on terminal board (Figure 2, Item 4).
 4. Remove nut (Figure 2, Item 8), cord grip (Figure 2, Item 7) and generator power cable (Figure 2, Item 6) from mechanical room electrical box (Figure 2, Item 1).



ARSS0226

Figure 2. Electrical Box Wiring Removal.

REMOVAL - Continued

5. Open output box door (Figure 3, Item 2) and lift protective cover (Figure 3, Item 3).

NOTE

Mark or tag all wires prior to removal to aid in installation.

6. Lift five hasps (Figure 3, Item 4), loosen terminal nuts (Figure 3, Item 6) and remove wires (Figure 3, Item 5) from terminals (Figure 3, Item 7).
7. Release string (Figure 3, Item 9) on cable input (Figure 3, Item 1) and remove generator power cable (Figure 3, Item 8) from generator (Figure 3, Item 10).

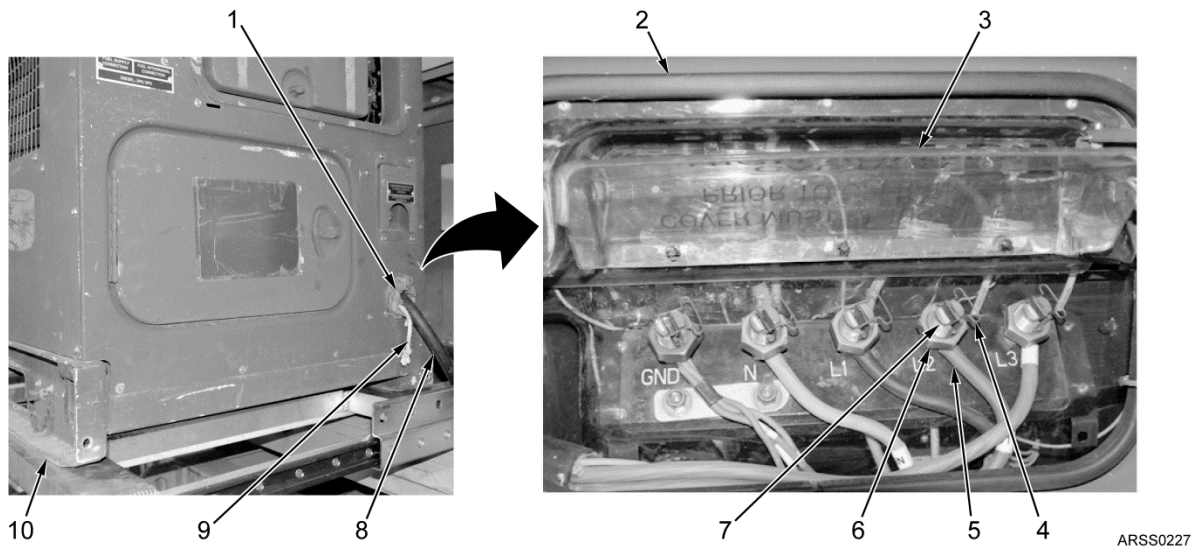


Figure 3. Generator Power Cable Removal.

END OF TASK

INSTALLATION

1. Install generator power cable (Figure 4, Item 8) in generator (Figure 4, Item 10) through cable input (Figure 4, Item 1) and tighten string (Figure 4, Item 9).

NOTE

Reference wiring schematic foldouts FO-1 and FO-2 for aid in installation of wires.

2. Install five wires (Figure 4, Item 5) and terminal nuts (Figure 4, Item 6) on terminals (Figure 4, Item 7) and latch five hasps (Figure 4, Item 4).
3. Close protective cover (Figure 4, Item 3) and output box door (Figure 4, Item 2).

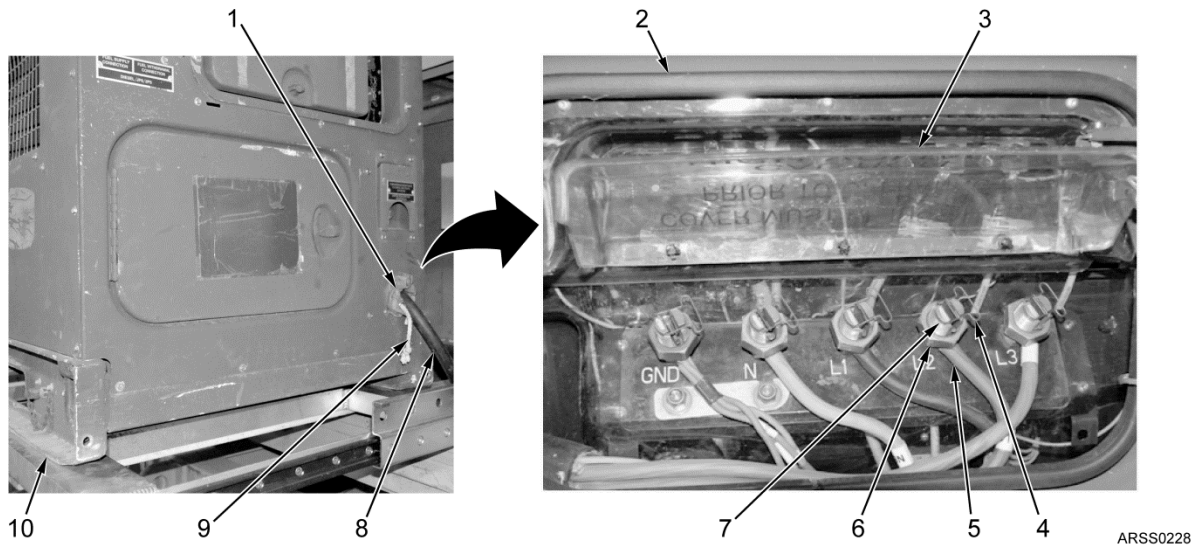
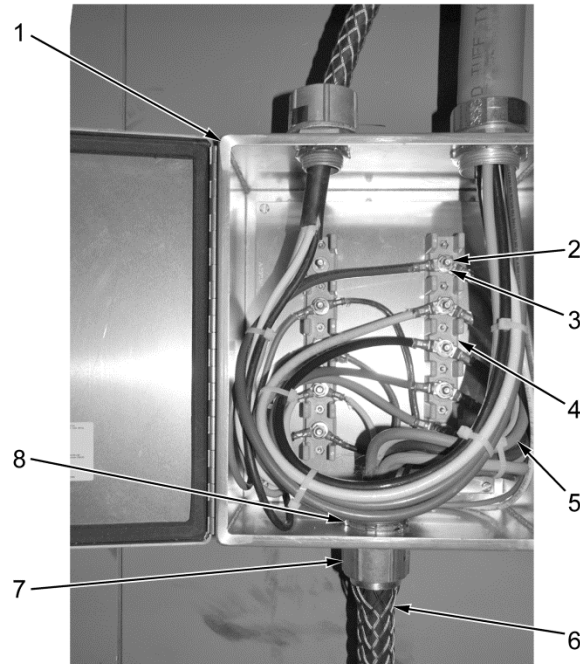


Figure 4. ECU Power Cable Installation.

NOTE

Install new cable ties securing wires together.

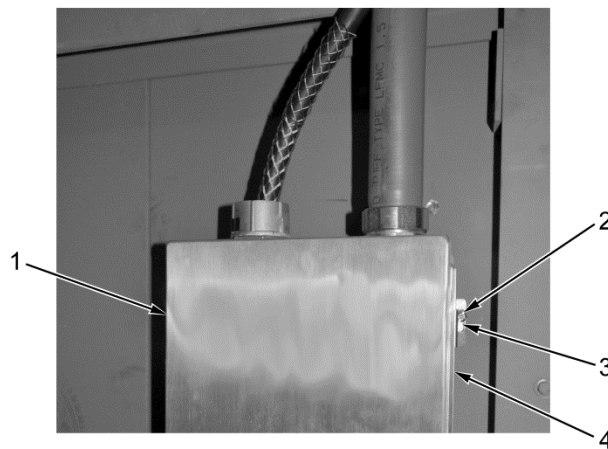
4. Install generator power cable (Figure 5, Item 6), cord grip (Figure 5, Item 7), and nut (Figure 5, Item 8) in mechanical room electrical box (Figure 5, Item 1).
5. Remove five nuts (Figure 5, Item 2) and flat washers (Figure 5, Item 3) from terminal board (Figure 5, Item 4).
6. Install 10 wires (Figure 5, Item 5), five flat washers (Figure 5, Item 3), and nuts (Figure 5, Item 2) on terminal board (Figure 5, Item 4).

INSTALLATION - Continued

ARSS0229

Figure 5. Electrical Box Wiring Installation.

7. Close mechanical room electrical box cover (Figure 6, Item 1) on mechanical room electrical box (Figure 6, Item 4) and secure by rotating two tabs (Figure 6, Item 3) and tightening screws (Figure 6, Item 2).



ARSS0230

Figure 6. Mechanical Room Electrical Box Cover Installation.

END OF TASK

FOLLOW-ON MAINTENANCE

Retract generator (WP 0010).

END OF TASK

END OF WORK PACKAGE

**FIELD MAINTENANCE
GENERATOR SLIDE REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS (2)

Materials/Parts

Washer, Lock Qty: 4 (WP 0096, Item 24)

Washer, Lock Qty: 8 (WP 0096, Item 8)

References

WP 0010

Equipment Condition

Generator removed (WP 0030)

Personnel Required

Wheeled Vehicle Mechanic - 91B

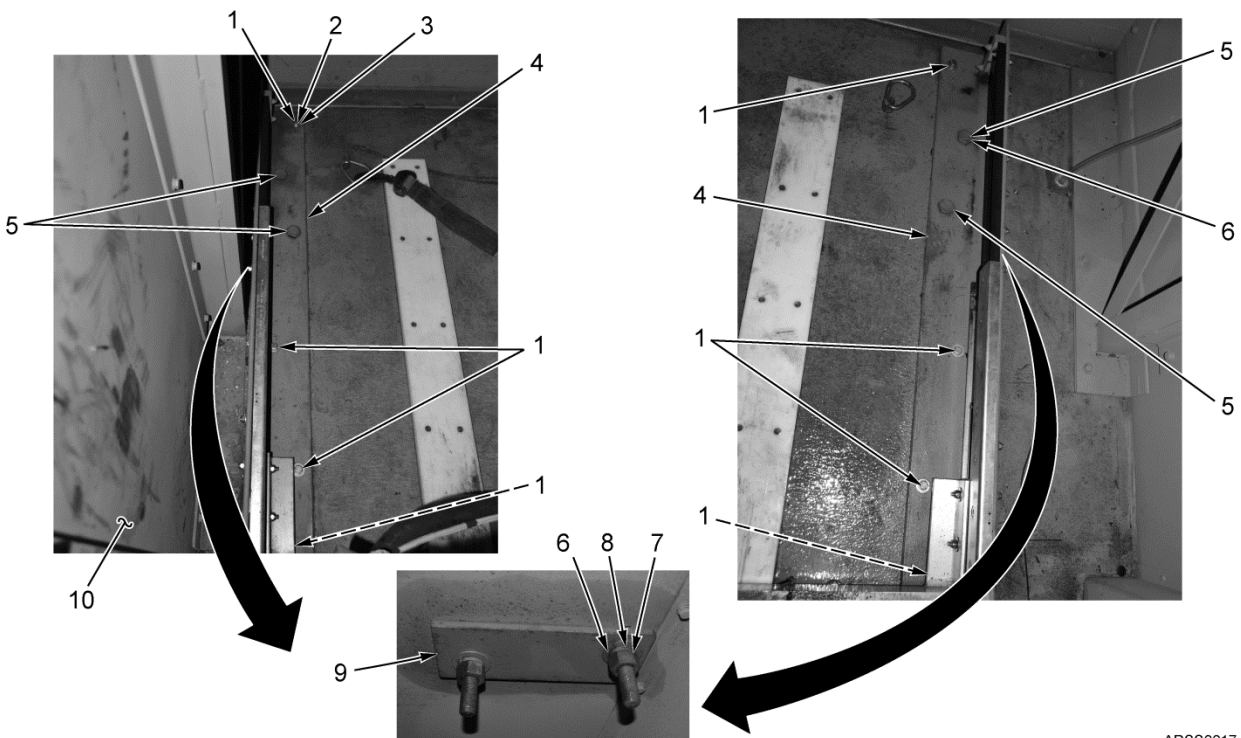
REMOVAL

1. Remove four nuts (Figure 1, Item 7), lockwashers (Figure 1, Item 8), eight flat washers (Figure 1, Item 6), two plates (Figure 1, Item 9), and four bolts (Figure 1, Item 5) from generator slide (Figure 1, Item 4). Discard lockwashers.

WARNING

The generator slide weighs 120 lb (54 kg). Do not attempt to lift generator without the aid of two other people or suitable lifting device. All personnel must stand clear during lifting operation. The generator slide could swing or shift during removal. Failure to follow this warning may cause injury or death.

2. Remove six bolts (Figure 1, Item 1), flat washers (Figure 1, Item 2), lockwashers (Figure 1, Item 3) from generator slide (Figure 1, Item 4) and shelter (Figure 1, Item 10). Discard lockwashers.
3. Retract generator slide assembly (WP 0010).
4. Remove front two bolts (Figure 1, Item 1), flat washers (Figure 1, Item 2), lockwashers (Figure 1, Item 3), and generator slide (Figure 1, Item 4) from shelter (Figure 1, Item 10). Discard lockwashers.



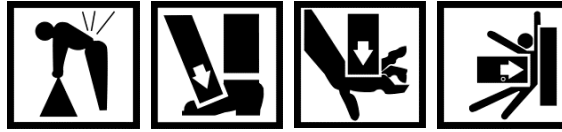
ARSS0017

Figure 1. Generator Slide Removal.

END OF TASK

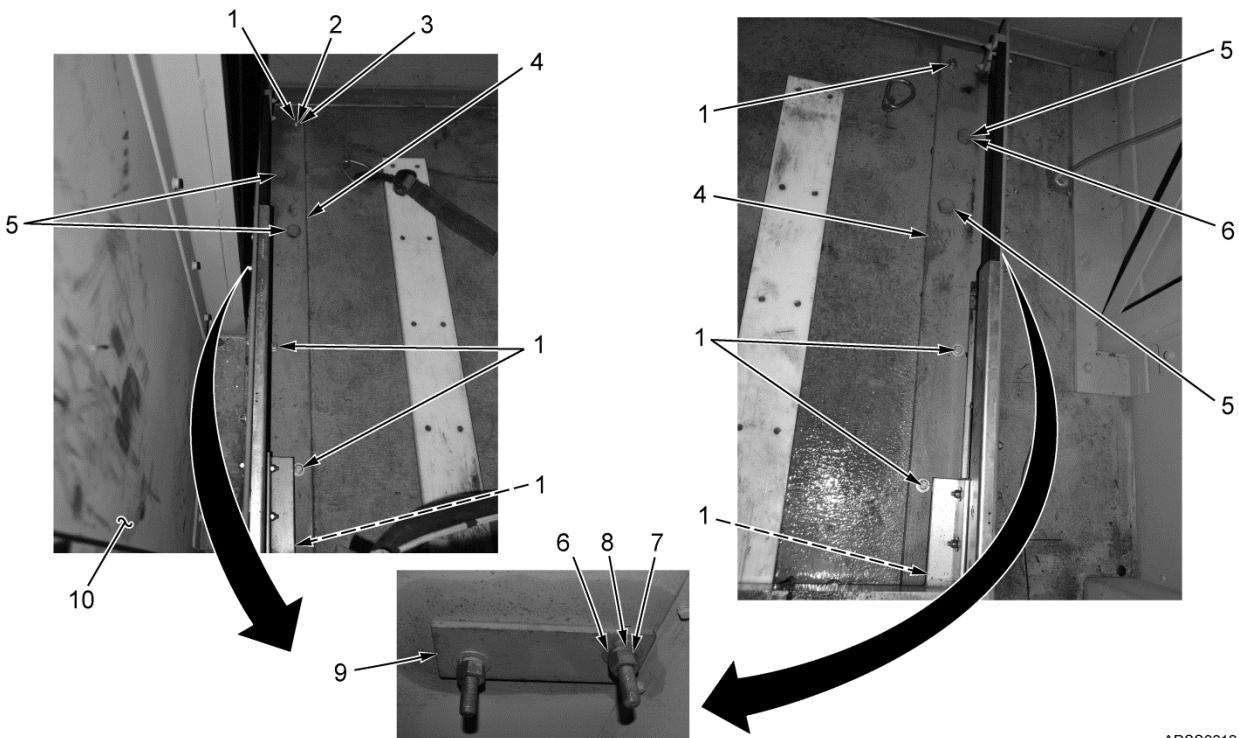
INSTALLATION

WARNING



The generator slide weighs 120 lb (54 kg). Do not attempt to lift generator without the aid of two other people or suitable lifting device. All personnel must stand clear during lifting operation. The generator slide could swing or shift during removal. Failure to follow this warning may cause injury or death.

1. Install generator slide (Figure 2, Item 4), front two new lockwashers (Figure 2, Item 3), flat washers (Figure 2, Item 2), bolts (Figure 2, Item 1) on shelter (Figure 2, Item 10).
2. Extend generator slide assembly (WP 0010).
3. Install six new lockwashers (Figure 2, Item 3), flat washers (Figure 2, Item 2), bolts (Figure 2, Item 1) on generator slide (Figure 2, Item 4).
4. Install plate (Figure 2, Item 9), eight flat washers (Figure 2, Item 6), four bolts (Figure 2, Item 5), new lockwashers (Figure 2, Item 8), and nuts (Figure 2, Item 7) on generator slide (Figure 2, Item 4).



ARSS0018

Figure 2. Generator Slide Installation.

END OF TASK

FOLLOW-ON MAINTENANCE

Install generator (WP 0030).

END OF TASK

END OF WORK PACKAGE

**FIELD MAINTENANCE
SLIDE LATCH REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

References

WP 0010

Materials/Parts

Nut, Self-locking Qty: 2 (WP 0096, Item 18)

Equipment Condition

Generator extended (WP 0010)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**NOTE**

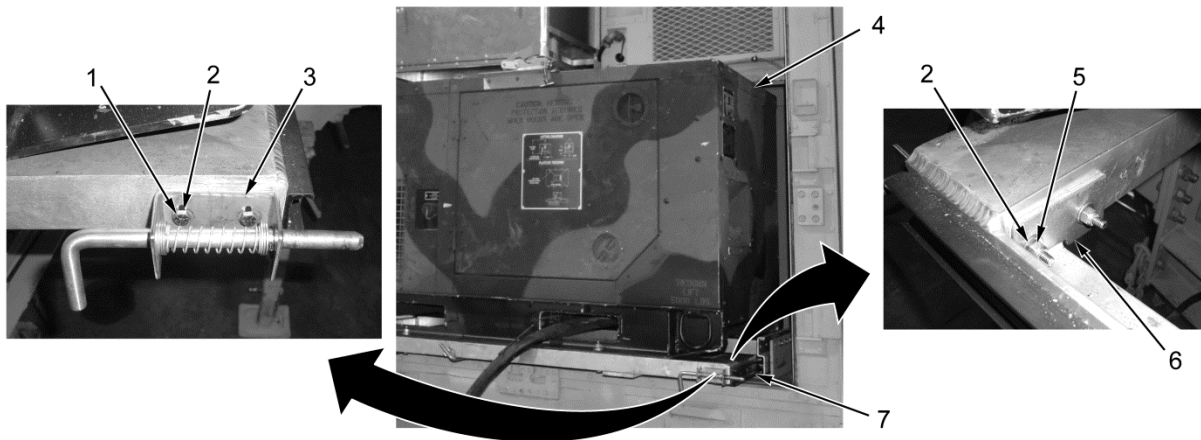
- There are two generator slide latches, one on each side of the generator slide. The following procedure covers the right side generator slide latch. The left side is replaced the same way.
- Mark location of generator slide latch to aid in installation

Remove two locknuts (Figure 1, Item 5), bolts (Figure 1, Item 1), four flat washers (Figure 1, Item 2), plate (Figure 1, Item 6), and slide latch (Figure 1, Item 3) from generator slide (Figure 1, Item 7). Discard locknuts.

END OF TASK**INSTALLATION****NOTE**

Install generator slide latches in marked positions during removal.

Install slide latch (Figure 1, Item 3), plate (Figure 1, Item 6), four flat washers (Figure 1, Item 2), two bolts (Figure 1, Item 1), and new locknuts (Figure 1, Item 5) on generator slide (Figure 1, Item 7).



ARSS0034

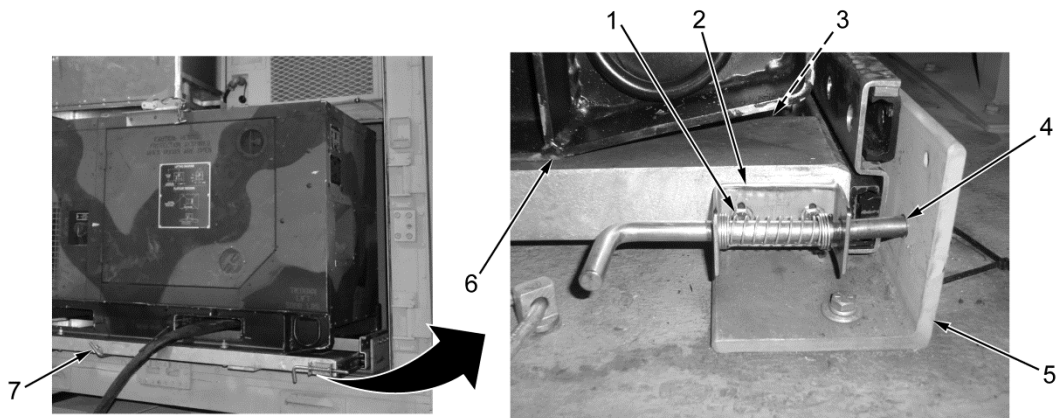
Figure 1. Generator Slide Latch Replacement.

END OF TASK

ADJUSTMENT**NOTE**

Repeat Steps 1 and 2 to adjust generator slide latches until generator can fully retract (WP 0010).

1. Unlock locking bar (Figure 2, Item 7) and push in generator slide assembly (Figure 2, Item 5) and ensure two generator slide latches (Figure 2, Item 2) align with generator slide latch holes (Figure 2, Item 4) on generator (Figure 2, Item 6).
2. Loosen two bolts (Figure 2, Item 1) and nuts (Figure 2, Item 3) and adjust generator slide latches (Figure 2, Item 2) up or down to align with generator slide latch holes (Figure 2, Item 4).
3. If necessary, repeat Steps 1 and 2 to adjust generator slide latches (Figure 2, Item 2) until generator can fully retract (WP 0010).



ARSS0395

Figure 2. Generator Slide Latch Adjustment.

FOLLOW-ON MAINTENANCE

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
GENERATOR SLIDE LOCKING ROD REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Bit, Drill 3/16" Part of Drill Set, Twist (WP 0124, Item 3)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts (cont.)

Rivet, Blind (WP 0096, Item 17)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

Generator extended (WP 0010)

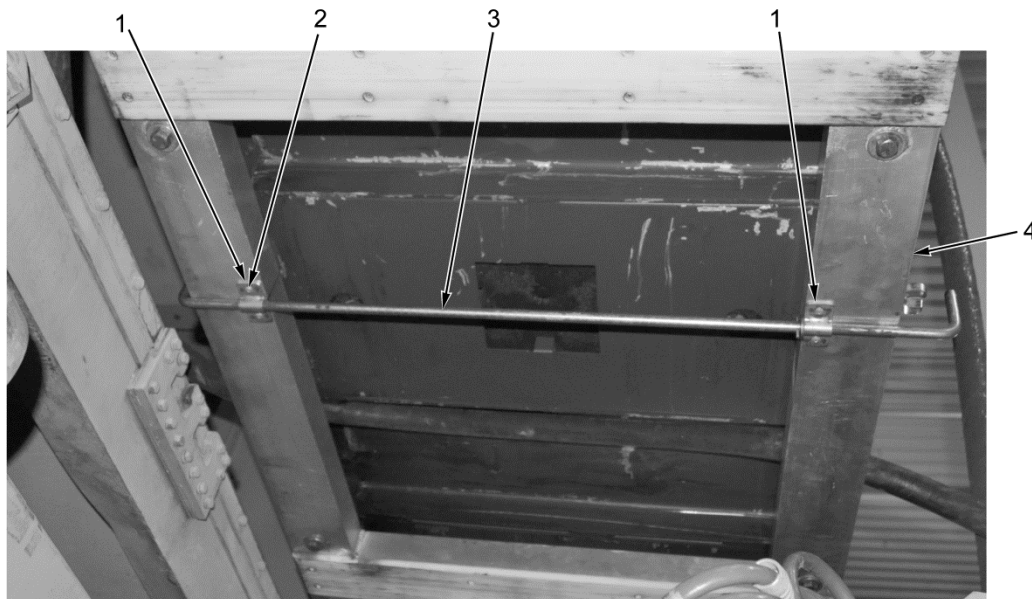
Materials/Parts

Rivet, Blind Qty: 4 (WP 0096, Item 14)

REMOVAL**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Remove four rivets (Figure 1, Item 2), two retainers (Figure 1, Item 1), and generator slide locking rod (Figure 1, Item 3) from generator slide assembly (Figure 1, Item 4). Discard rivets.



ARSS0124

Figure 1. Generator Slide Locking Rod Removal.

REMOVAL - Continued**NOTE**

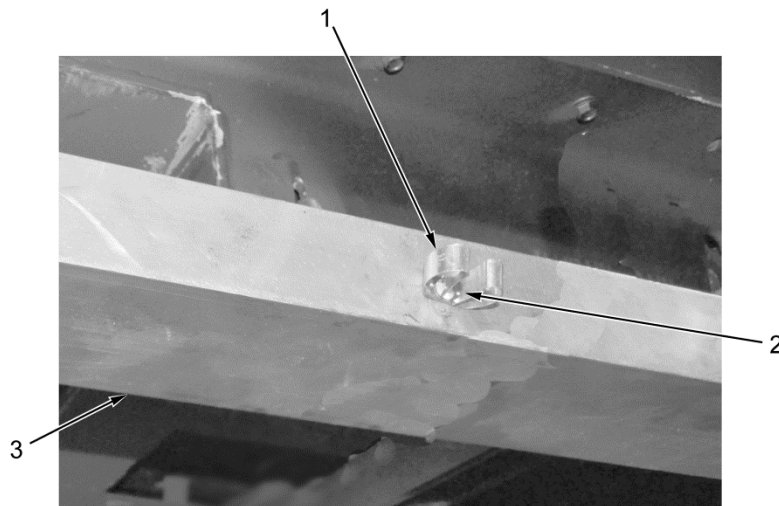
If storage clip is damaged, perform Step 2.

2. Remove rivet (Figure 2, Item 2) and storage clip (Figure 2, Item 1) from generator slide assembly (Figure 2, Item 3). Discard rivet.

END OF TASK**INSTALLATION****NOTE**

If storage clip removed, perform Step 1.

1. Install storage clip (Figure 2, Item 1) and new rivet (Figure 2, Item 1) on generator slide assembly (Figure 2, Item 3).

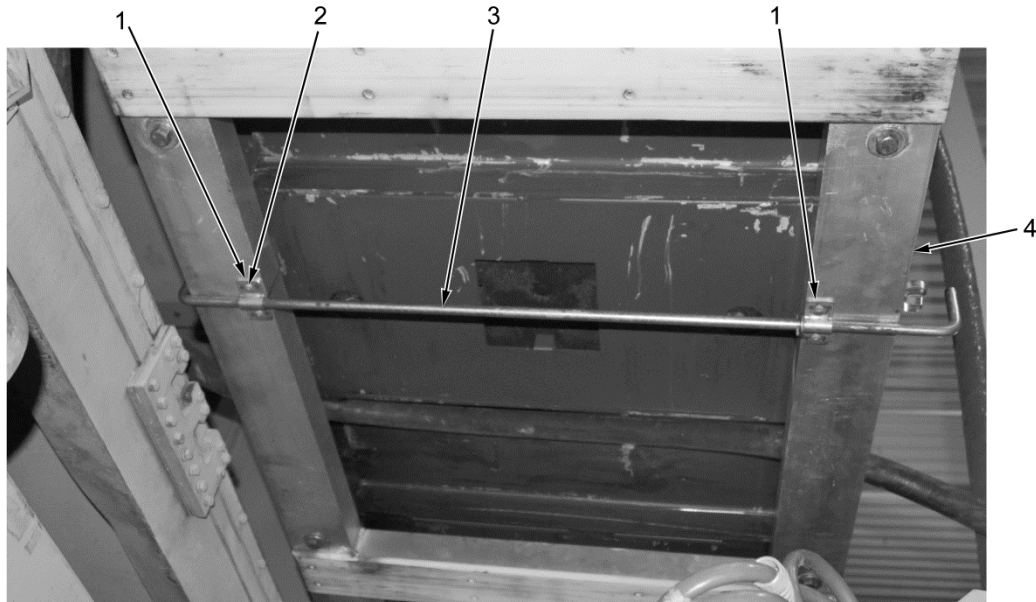


ARSS0125

Figure 2. Storage Clip Replacement.

INSTALLATION - Continued

2. Install generator slide locking rod (Figure 3, Item 3), two retainers (Figure 3, Item 1), and four new rivets (Figure 3, Item 2) on generator slide assembly (Figure 3, Item 4).



ARSS0126

Figure 3. Generator Slide Locking Rod Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
GENERATOR SLIDE PAD REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP
0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124,
Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

Generator extended (WP 0010)

Materials/Parts

Rivet, Blind Qty: 8 (WP 0096, Item 12)

REMOVAL**NOTE**

- There are two generator slide pads in the ARSS. The following procedure covers the replacement of one. The remaining one is replaced the same way.
- For detailed riveting instructions, refer to General Maintenance (WP 0090).

Remove eight rivets (Figure 1, Item 2) and generator slide pad (Figure 1, Item 1) from generator slide assembly (Figure 1, Item 3).

END OF TASK**INSTALLATION**

Install generator slide pad (Figure 1, Item 1) and eight new rivets (Figure 1, Item 2) on generator slide assembly (Figure 1, Item 3).



ARSS0123

Figure 1. Generator Slide Pad Replacement.

END OF TASK**FOLLOW-ON MAINTENANCE**

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
GENERATOR FLOOR PAD REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

Generator extended (WP 0010)

Materials/Parts

Rivet, Blind Qty: 10 (WP 0096, Item 5)

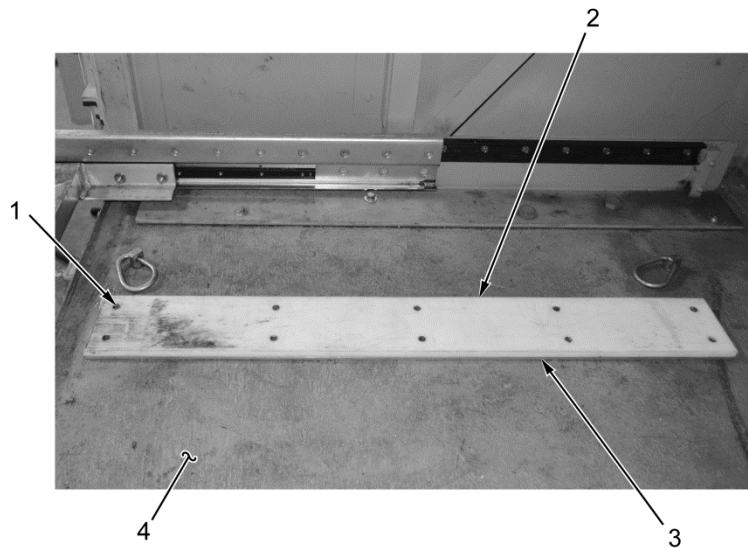
REMOVAL**NOTE**

- There are two generator floor pads in the ARSS. The following procedure covers the replacement of one. The remaining one is replaced the same way.
- For detailed riveting instructions, refer to General Maintenance (WP 0090).

Remove 10 rivets (Figure 1, Item 1), generator floor pad (Figure 1, Item 2), and shim (Figure 1, Item 3) from shelter floor (Figure 1, Item 4).

END OF TASK**INSTALLATION**

Install shim (Figure 1, Item 3), generator floor pad (Figure 1, Item 2), and 10 new rivets (Figure 1, Item 1) on shelter floor (Figure 1, Item 4).



ARSS0078

Figure 1. Generator Floor Pad Replacement.

END OF TASK**FOLLOW-ON MAINTENANCE**

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE

EXHAUST AND RAIN CAP REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Equipment Condition

Generator power OFF (TM 9-6115-750-10)
Mechanical room doors opened (WP 0011)

Personnel Required

Wheeled Vehicle Mechanic - 91B

EXHAUST REPLACEMENT

Removal

WARNING



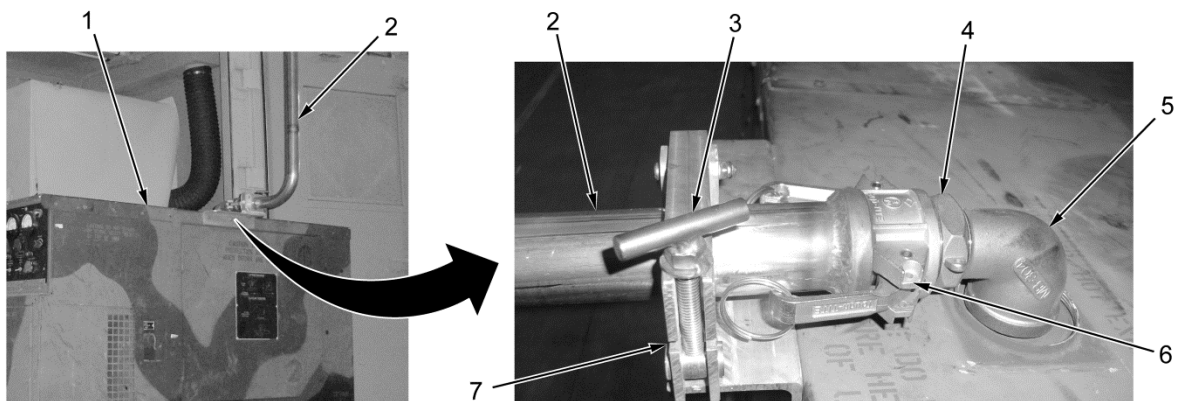
Allow generator to cool before operating or performing maintenance on exhaust pipe.
Hot components may burn personnel. Failure to follow this warning may cause injury.

1. Loosen t-bolt (Figure 1, Item 3) and lift exhaust clamp (Figure 1, Item 7) up.

CAUTION

Ensure exhaust pipe does not fall when cotter pins are removed and exhaust pipe is free. Failure to follow this caution may cause damage to equipment.

2. Remove two cotter pins (Figure 1, Item 6), exhaust pipe (Figure 1, Item 2), coupling (Figure 1, Item 4), and elbow (Figure 1, Item 5) from generator (Figure 1, Item 1).



ARSS0028

Figure 1. Exhaust Clamp Removal.

END OF TASK

EXHAUST REPLACEMENT - Continued**Installation**

1. Install elbow (Figure 2, Item 5), coupling (Figure 2, Item 4), exhaust pipe (Figure 2, Item 2), and two cotter pins (Figure 2, Item 6) on generator (Figure 2, Item 1).
2. Close exhaust clamp (Figure 2, Item 7) and tighten t-bolt (Figure 2, Item 3).

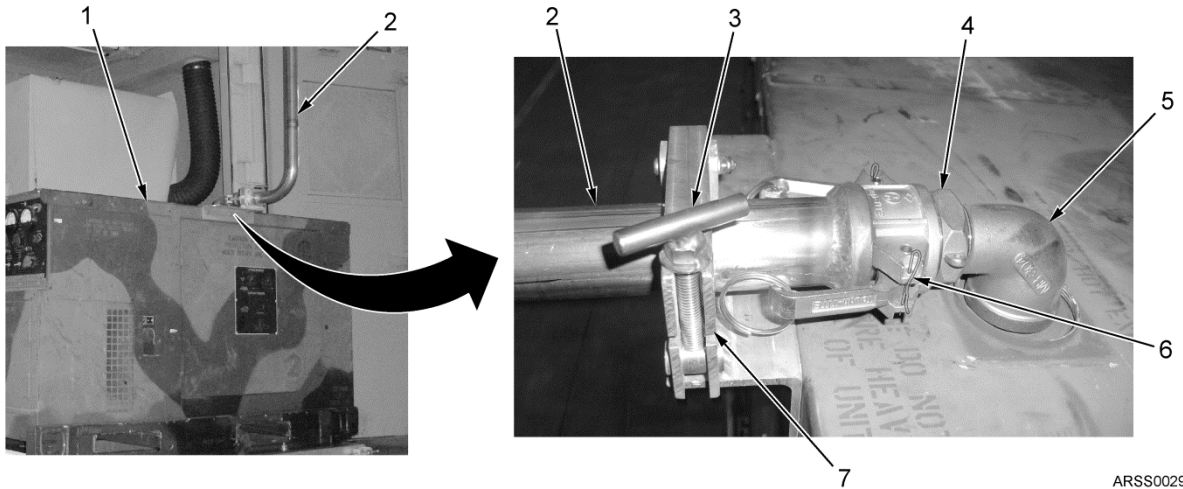


Figure 2. Exhaust Clamp Installation.

END OF TASK

RAIN CAP REPLACEMENT

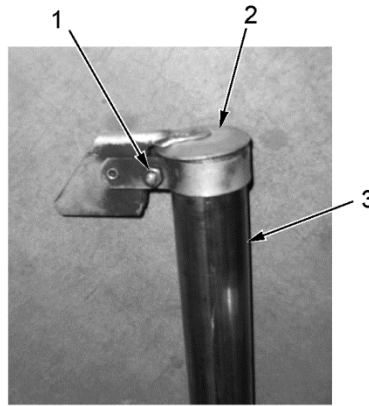
Removal

Loosen nut (Figure 3, Item 1) and remove rain cap (Figure 3, Item 2) from exhaust pipe (Figure 3, Item 3).

END OF TASK

Installation

Install rain cap (Figure 3, Item 2) on exhaust pipe (Figure 3, Item 3) and tighten nut (Figure 3, Item 1).



ARSS0030

Figure 3. Rain Cap Replacement.

END OF TASK

FOLLOW-ON MAINTENANCE

Secure mechanical room doors (WP 0011).

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
EXHAUST CLAMP REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Equipment Condition

Exhaust removed (WP 0037)

Personnel Required

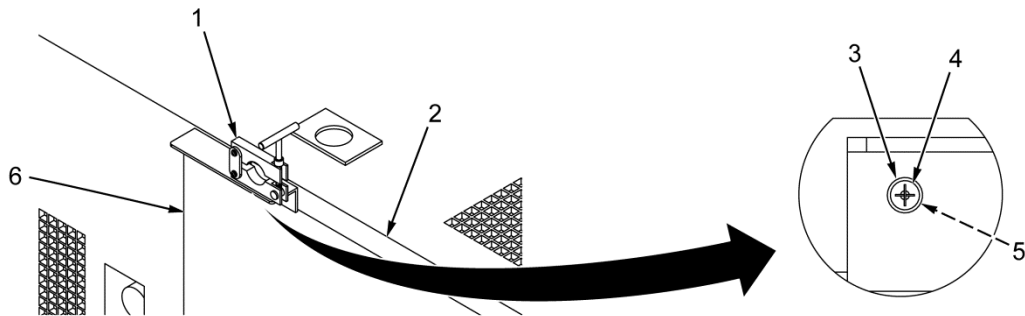
Wheeled Vehicle Mechanic - 91B

REMOVAL

1. Open generator access door (Figure 1, Item 6) on generator (Figure 1, Item 2).
2. Remove three screws (Figure 1, Item 4), flat washers (Figure 1, Item 3), nuts (Figure 1, Item 5), and exhaust clamp (Figure 1, Item 1) from generator (Figure 1, Item 2).

END OF TASK**INSTALLATION**

1. Install exhaust clamp (Figure 1, Item 1), three nuts (Figure 1, Item 5), flat washers (Figure 1, Item 3), and screws (Figure 1, Item 4) on generator (Figure 1, Item 2).
2. Close generator access door (Figure 1, Item 6) on generator (Figure 1, Item 2).



ARSS0027

Figure 1. Exhaust Clamp Replacement.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install exhaust (WP 0037).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
STORAGE RACK REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Lifting Device (400 lb capacity)

Personnel Required (cont.)

Non-Specific MOS

References

WP 0010

Materials/Parts

Washer, Lock Qty: 4 (WP 0098, Item 11)

Equipment Condition

Mechanical room doors opened (WP 0011)

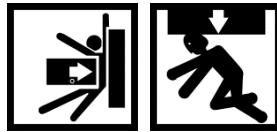
Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

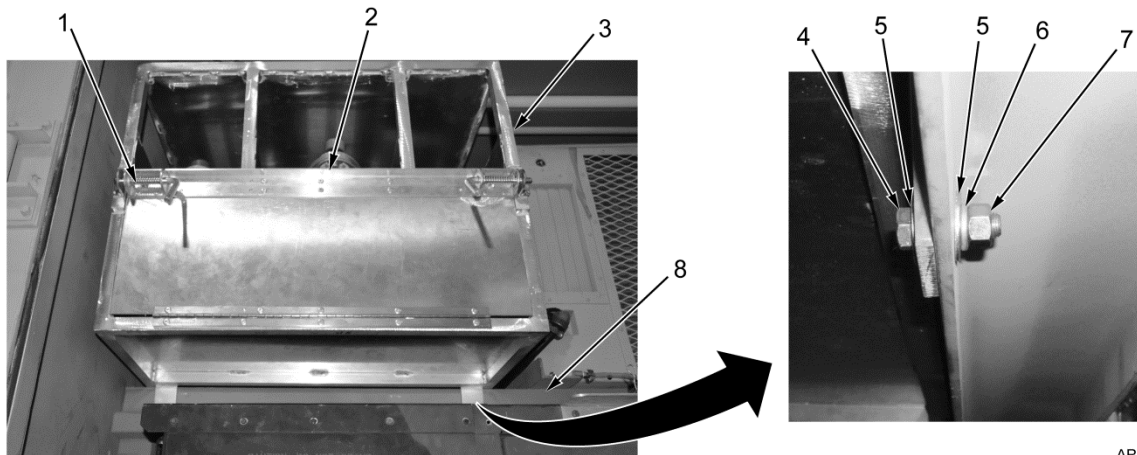
To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

1. Release two spring latches (Figure 1, Item 1), open panel (Figure 1, Item 2) and empty contents from storage rack (Figure 1, Item 3).
2. Close panel (Figure 1, Item 2) and secure two spring latches (Figure 1, Item 1).
3. Extend generator (WP 0010).

WARNING

The storage rack weighs approximately 200 lb (90.7 kg). All personnel must stand clear during lifting operations and wear head protection. A swinging or shifting load may cause injury or death to personnel. Do not allow the storage rack to swing while hanging by lifting device. Storage rack may strike personnel and cause injury. Failure to follow this warning may cause injury or death.

4. Using lifting device, support weight of storage rack (Figure 1, Item 3).
5. Remove four nuts (Figure 1, Item 7), lockwashers (Figure 1, Item 6), bolts (Figure 1, Item 4), and eight flat washers (Figure 1, Item 5) from storage rack (Figure 1, Item 3). Discard lockwashers.
6. Using lifting device, remove storage rack (Figure 1, Item 3) from shelter (Figure 1, Item 8).



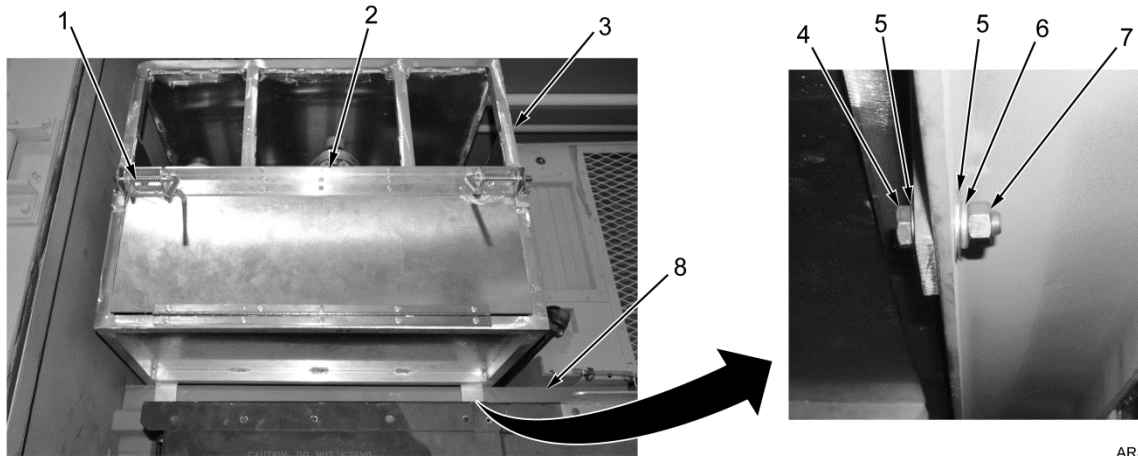
ARSS0057

Figure 1. Storage Rack Removal.

END OF TASK

INSTALLATION

1. Using lifting device, install storage rack (Figure 2, Item 3) on shelter (Figure 2, Item 8).
2. Install eight flat washers (Figure 2, Item 5), four bolts (Figure 2, Item 4), new lockwashers (Figure 2, Item 6), and nuts (Figure 2, Item 7) on storage rack (Figure 2, Item 3) and shelter (Figure 2, Item 8).
3. Retract generator (WP 0010).
4. Release two spring latches (Figure 2, Item 1), open panel (Figure 2, Item 2) and re-fill contents in storage rack (Figure 2, Item 3).
5. Close panel (Figure 2, Item 2), secure two spring latches (Figure 2, Item 1), and remove lifting device.



ARSS0058

Figure 2. Storage Rack Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
STORAGE RACK SPRING LATCH REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

ARSS shelter expanded (WP 0005)

Materials/Parts

Rivet, Blind Qty: 6 (WP 0098, Item 6)

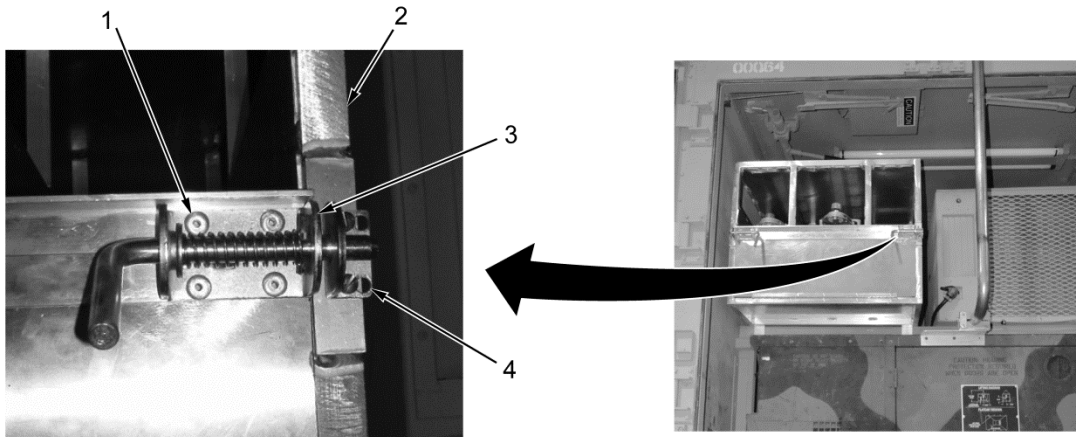
REMOVAL**NOTE**

- For detailed riveting instructions, refer to General Maintenance (WP 0090).
- There are two storage rack spring latches, one on each side of the storage rack. The following procedure covers the right side storage slide latch. The left side is replaced the same way.

Remove six rivets (Figure 1, Item 1) and spring latch (Figure 1, Item 3) and brace (Figure 1, Item 4) from storage rack (Figure 1, Item 2). Discard rivets.

END OF TASK**INSTALLATION**

Install brace (Figure 1, Item 4) and spring latch (Figure 1, Item 3) and six new rivets (Figure 1, Item 1) on storage rack (Figure 1, Item 2).



ARSS0054

Figure 1. Spring Latch Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE

STORAGE RACK DOOR AND HINGE REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

Storage rack spring latches removed (WP 0040)

Materials/Parts

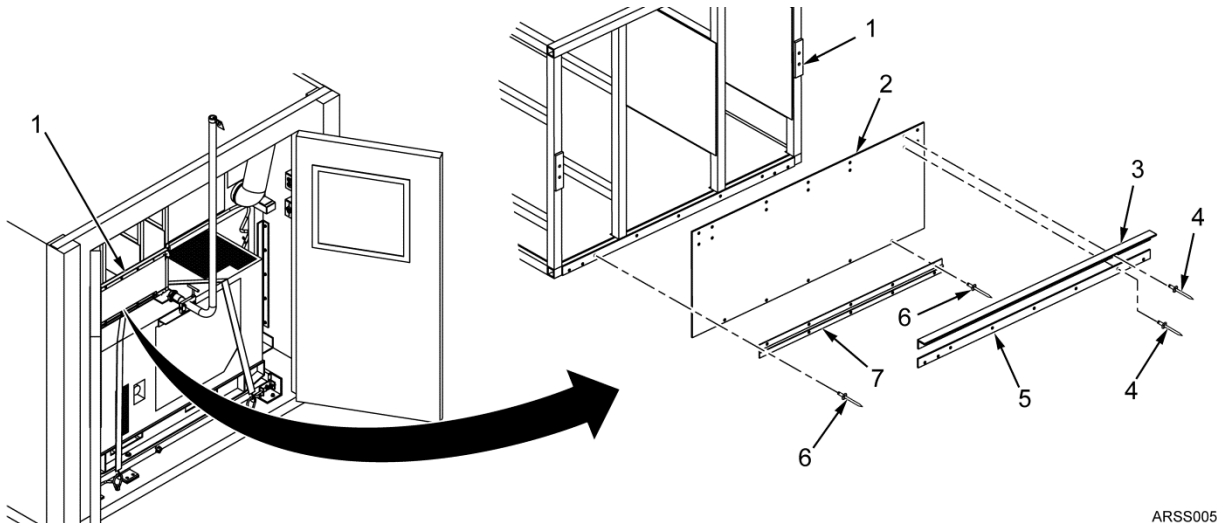
Rivet, Blind Qty: 20 (WP 0098, Item 6)

REMOVAL

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Remove 10 rivets (Figure 1, Item 6), hinge (Figure 1, Item 7), and door (Figure 1, Item 2) from storage rack (Figure 1, Item 1). Discard rivets.
2. Remove 10 rivets (Figure 1, Item 4), plate (Figure 1, Item 5) and reinforcement (Figure 1, Item 3) from door (Figure 1, Item 2). Discard rivets.



ARSS0052

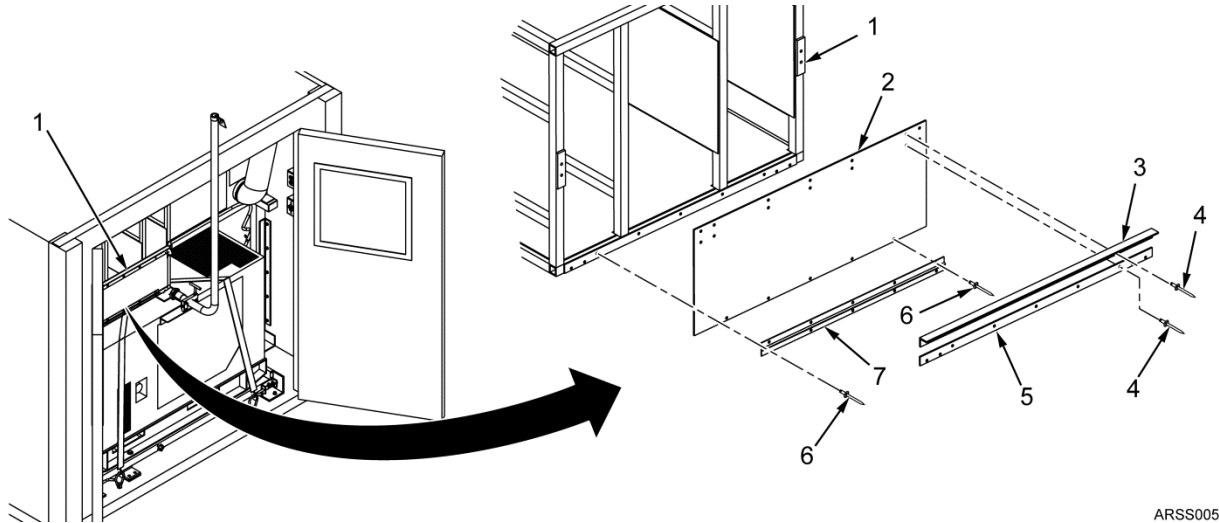
Figure 1. Storage Rack Door and Hinge Removal.

END OF TASK

INSTALLATION**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Install reinforcement (Figure 2, Item 3), plate (Figure 2, Item 5), and 10 new rivets (Figure 2, Item 4) on door (Figure 2, Item 2).
2. Install door (Figure 2, Item 2), hinge (Figure 2, Item 7), and 10 new rivets (Figure 2, Item 6) on storage rack (Figure 2, Item 1).



ARSS0053

Figure 2. Storage Rack Door and Hinge Installation

END OF TASK**FOLLOW-ON MAINTENANCE**

Install storage rack spring latches (WP 0040).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
WIRE REPAIR

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Heat Gun (WP 0124, Item 8)
Crimping Tool, Terminal, Hand (WP 0124,
Item 4)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0091

Materials/Parts

Terminal Kit, Electrical (WP 0123, Item 8)

Equipment Condition

ARSS setup for operation (WP 0006)
Shelter power OFF (WP 0009)

WARNING

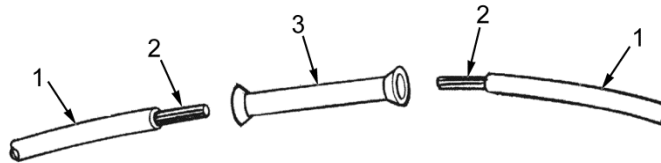
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

SPLICING WIRES

NOTE

The use of high-quality splice connectors is essential to ensure optimum electrical integrity. Use type and size connector best suited for application.

1. Using wire stripping tool, strip each end of wire (Figure 1, Item 1) to expose length of metal strands (Figure 1, Item 2) suitable for size of splice connector (Figure 1, Item 3).
2. Insert electrical insulating sleeve onto wire and out of the way. Refer to *Heat-Shrinkable Tubing (Electrical Insulating Sleeving)* in this work package.
3. Insert metal strands (Figure 1, Item 2) of each wire (Figure 1, Item 1) fully into splice connector (Figure 1, Item 3).
4. Securely crimp splice connector (Figure 1, Item 3) to metal strands (Figure 1, Item 2) and to insulation of wire (Figure 1, Item 1).
5. Secure electrical insulating sleeve onto wire. Refer to *Heat-Shrinkable Tubing (Electrical Insulating Sleeving)* in this work package.



ARSS0249

Figure 1. Splicing Wires.

END OF TASK

HEAT-SHRINKABLE TUBING (ELECTRICAL INSULATING SLEEVING)

NOTE

Use heat-shrinkable tubing to insulate soldered and crimped electrical connections.

1. Cut length of new tubing twice as long as connection to be covered.
2. Slide tubing onto wire and out of the way before making electrical connection
3. After making electrical connection, slide tubing into place over electrical connection.

HEAT-SHRINKABLE TUBING (ELECTRICAL INSULATING SLEEVING) - Continued**WARNING**

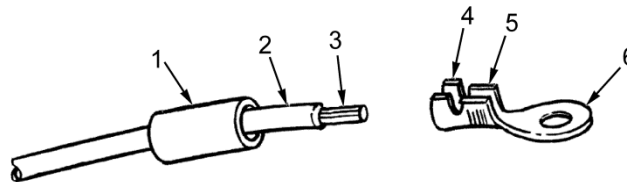
DO NOT touch heat-shrinkable tubing for at least 30 seconds after heating. Heat-shrinkable tubing is hot and may cause burns. Failure to follow this warning may result in injury.

4. Using heat source, apply heat to tubing for approximately 30 seconds, until tubing snugly conforms to shape of electrical connection.

END OF TASK**RING TERMINAL REPAIR****NOTE**

Use heat-shrinkable tubing when repairing terminals.

1. Remove ring terminal (Figure 2, Item 6) from wire (Figure 2, Item 2) by cutting through wire just behind tubing (Figure 2, Item 1). Discard ring terminal.
2. Cut tubing (Figure 2, Item 1) to length sufficient to cover tabs (Figure 2, Items 4 and 5) of ring terminal (Figure 2, Item 6) and 1/4 in. (6 mm) of wire (Figure 2, Item 2).
3. Slide tubing (Figure 2, Item 1) back on wire (Figure 2, Item 2).
4. Using wire stripping tool, strip insulation from wire (Figure 2, Item 2) to expose proper length of metal strands (Figure 2, Item 3).
5. Using crimping tool, securely crimp tabs (Figure 2, Item 5) of new ring terminal (Figure 2, Item 6) over metal strands (Figure 2, Item 3).
6. Using crimping tool, crimp tabs (Figure 2, Item 4) of ring terminal (Figure 2, Item 6) over insulation of wire (Figure 2, Item 2).
7. Slide tubing (Figure 2, Item 1) over tabs (Figure 2, Items 4 and 5) of ring terminal (Figure 2, Item 6).
8. Using a heat source, apply heat to tubing (Figure 2, Item 1) until tubing snugly conforms to ring terminal (Figure 2, Item 6) and insulation of wire (Figure 2, Item 2).



ARSS0250

Figure 2. Ring Terminal.

END OF TASK

WIRE REPLACEMENT

Removal

WARNING



Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

NOTE

- Individual wires are manufactured items cut to length. Refer to Illustrated List of Manufactured Items (WP 0091) for manufacturing instructions.
- Wires throughout the ARSS are installed in various ways and in various locations. Follow this procedure as basic direction for removing and installing all wiring.

1. Remove electrical wire from first location at connection or terminal.
2. Guide wire out of location, removing any components that are in the way.
3. Remove other end of electrical wire from connection or terminal

END OF TASK

Installation

1. Install electrical wire end at connection or terminal.
2. Guide electrical wire to first location and install at connection or terminal.
3. Install any components that were in the way during removal.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
MECHANICAL ROOM EMT CONDUIT REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)
Washer, Lock Qty: 3 (WP 0099, Item 8)

References

FO-1

Personnel Required

Wheeled Vehicle Mechanic - 91B

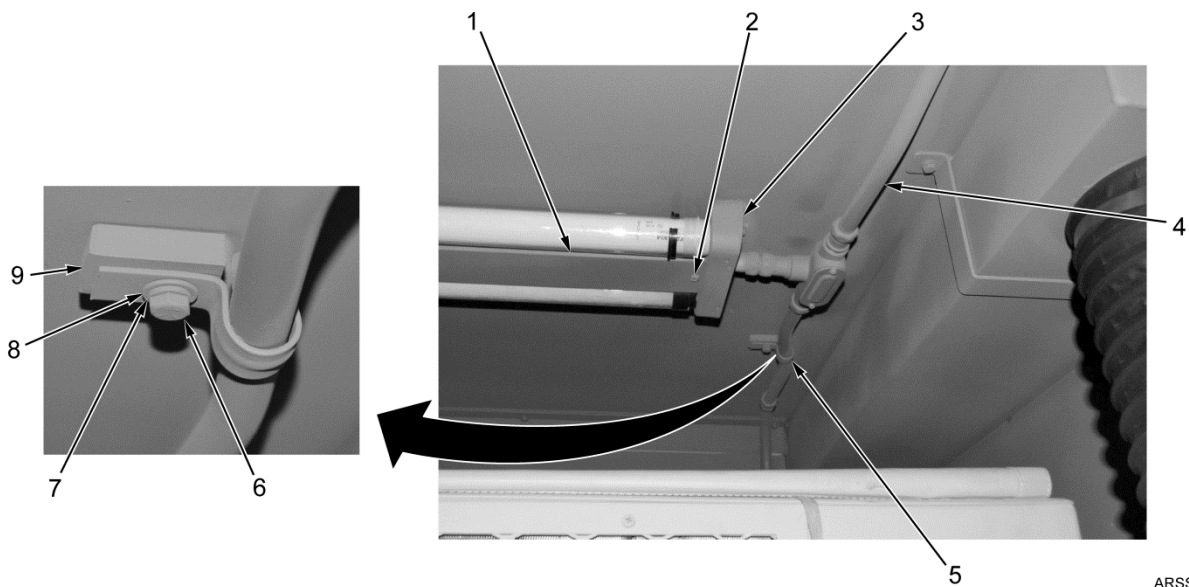
Equipment Condition

ARSS power OFF (WP 0009)
Extend generator (WP 0010)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove three screws (Figure 1, Item 2) and light cover (Figure 1, Item 1) from light assembly (Figure 1, Item 3).
2. Remove bolt (Figure 1, Item 6), lockwasher (Figure 1, Item 7), flat washer (Figure 1, Item 8), clamp (Figure 1, Item 5), and spacer (Figure 1, Item 9) from EMT conduit (Figure 1, Item 4). Discard lockwasher.

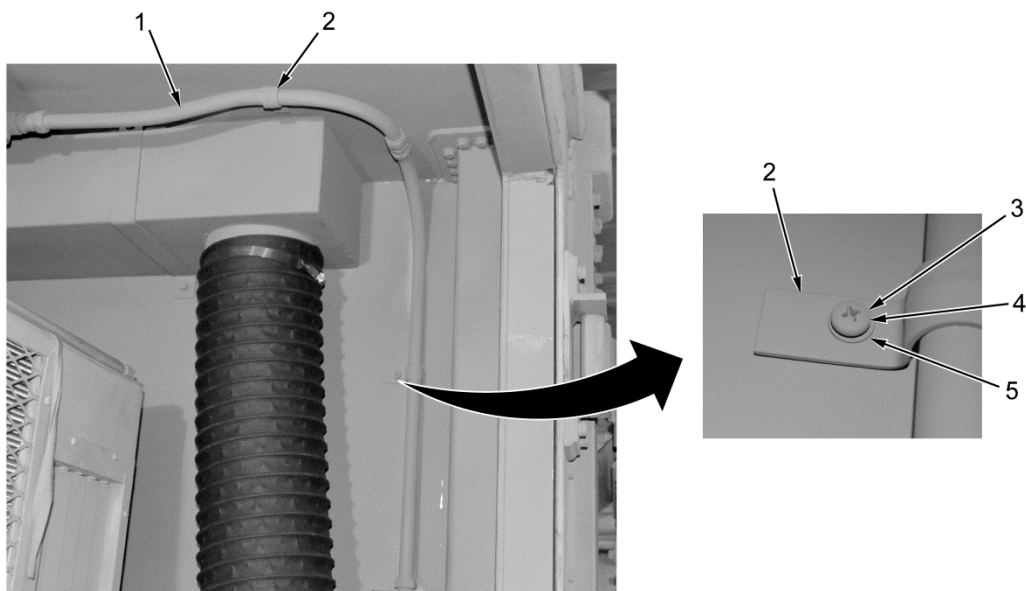


ARSS0178

Figure 1. Light Cover and Electrical Conduit Cover Removal.

REMOVAL - Continued

3. Remove two screws (Figure 2, Item 3), lockwashers (Figure 2, Item 4), flat washers (Figure 2, Item 5), and clamps (Figure 2, Item 2) from EMT conduit (Figure 2, Item 1). Discard lockwashers.



ARSS0179

Figure 2. EMT Conduit Clamps Removal.

REMOVAL - Continued

4. Remove three screws (Figure 3, Item 1), light switch cover (Figure 3, Item 2), and outlet cover (Figure 3, Item 11) from light switch receptacle (Figure 3, Item 4) and outlet receptacle (Figure 3, Item 9).
5. Remove two screws (Figure 3, Item 3) and light switch (Figure 3, Item 5) from light switch receptacle (Figure 3, Item 4).
6. Remove two screws (Figure 3, Item 10) and outlet (Figure 3, Item 8) from outlet receptacle (Figure 3, Item 9).

NOTE

Tag or mark all wires prior to removal to aid in installation.

7. Loosen screw (Figure 3, Item 7) and remove wire (Figure 3, Item 6) from outlet (Figure 3, Item 8).

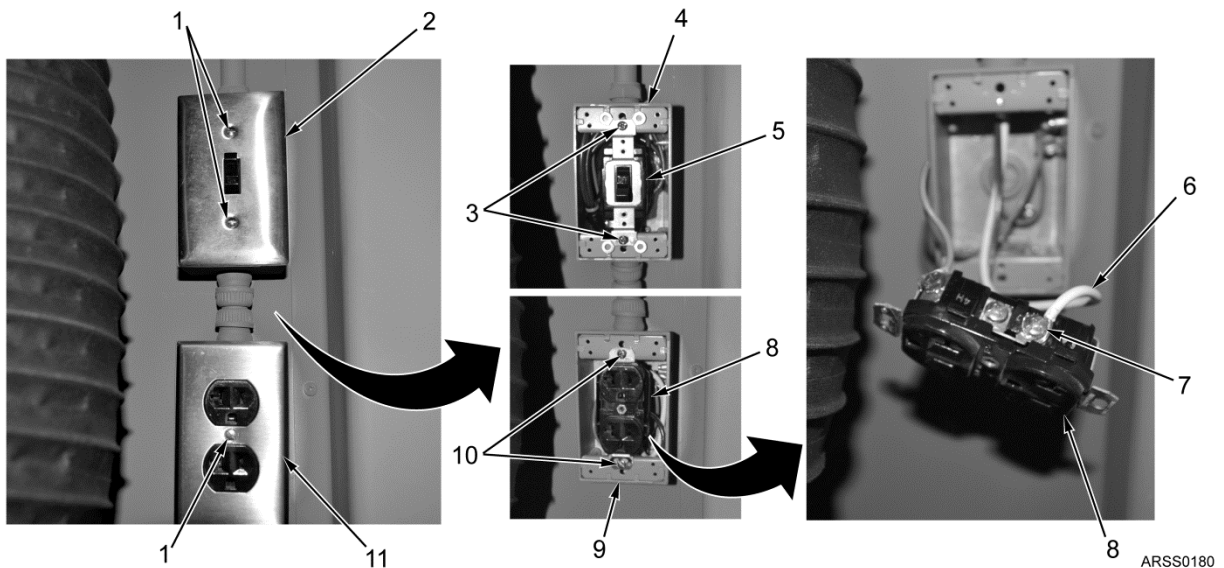
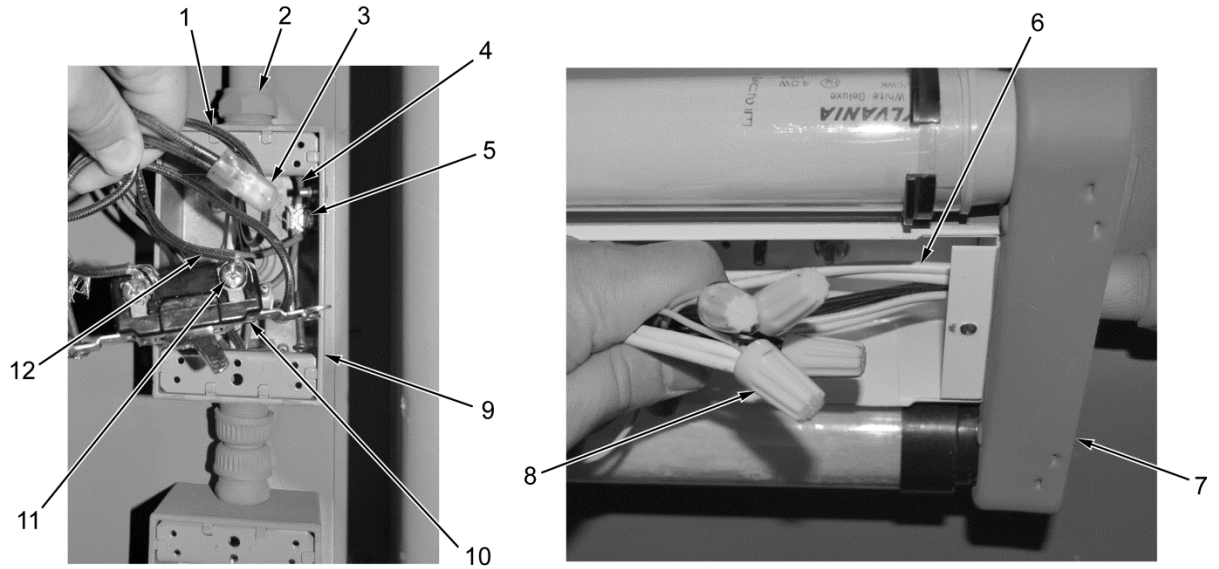


Figure 3. Light Switch and Outlet Cover Removal.

8. Loosen conduit fitting (Figure 4, Item 2) from light switch receptacle (Figure 4, Item 9).
9. Remove wire nut (Figure 4, Item 3) from wire (Figure 4, Item 1).
10. Loosen screw (Figure 4, Item 11) and remove wire (Figure 4, Item 12) from light switch (Figure 4, Item 10).
11. Loosen screw (Figure 4, Item 5) and remove ground wire (Figure 4, Item 4) from light switch receptacle (Figure 4, Item 9).
12. Remove four wire nuts (Figure 4, Item 8) from seven wires (Figure 4, Item 6) and light assembly (Figure 4, Item 7).

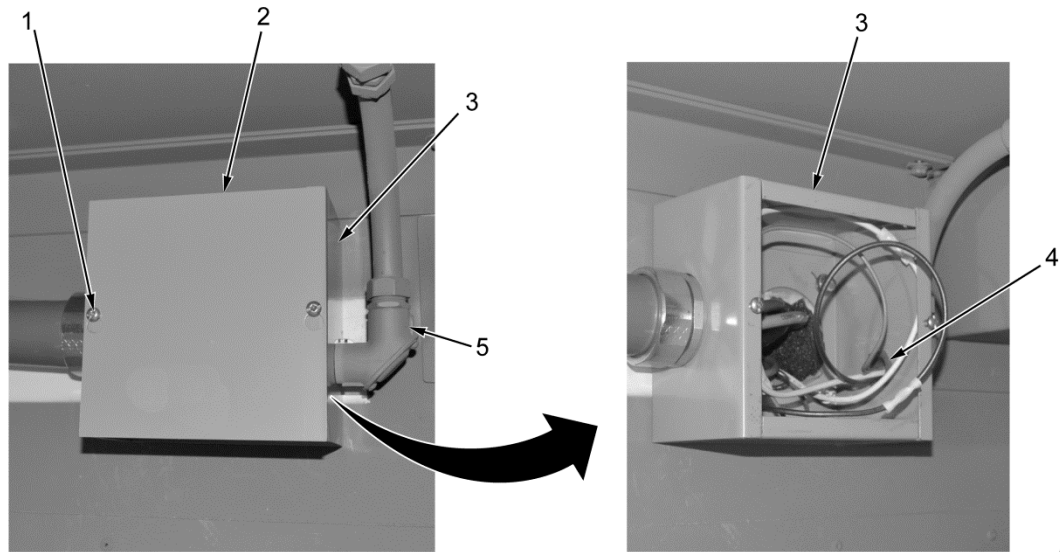
REMOVAL - Continued



ARSS0181

Figure 4. Electrical Wiring Removal.

13. Loosen two screws (Figure 5, Item 1) and remove cover (Figure 5, Item 2) from mechanical room pull box (Figure 5, Item 3).
14. Remove nut (Figure 5, Item 4) from conduit elbow (Figure 5, Item 5).



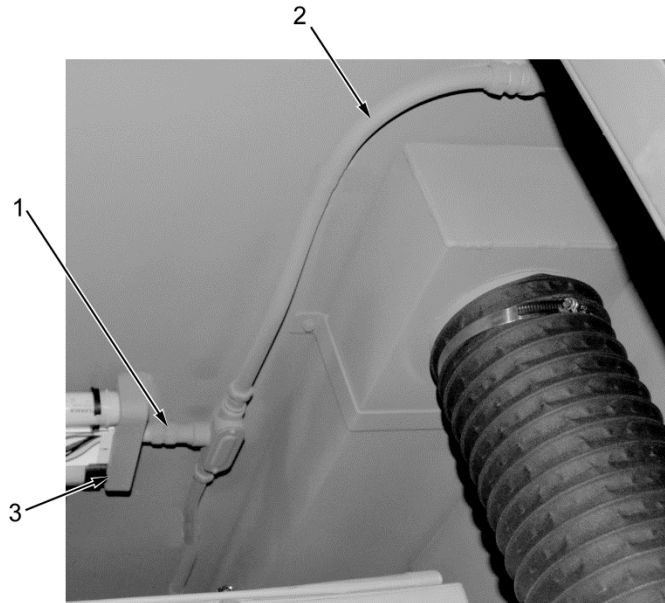
ARSS0182

Figure 5. Mechanical Room Pull Box Cover and Elbow Removal.

REMOVAL - Continued**NOTE**

- Remove all wires from EMT conduit when replacing EMT conduit.
- Note and tag all locations of wires through EMT conduit to aid in installation.

15. Loosen fitting (Figure 6, Item 1) and remove EMT conduit (Figure 6, Item 2) from light assembly (Figure 6, Item 3).



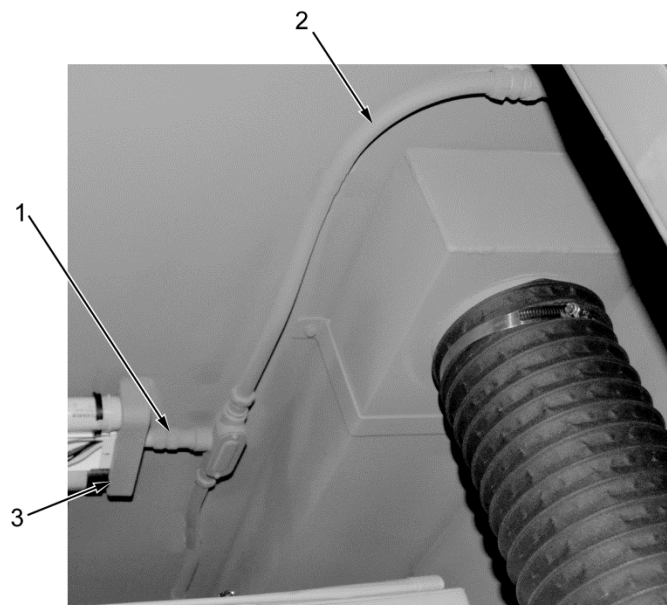
ARSS0183

Figure 6. EMT Conduit Removal.

END OF TASK**INSTALLATION****NOTE**

Route all wires through EMT conduit using noted location and tags made during removal.

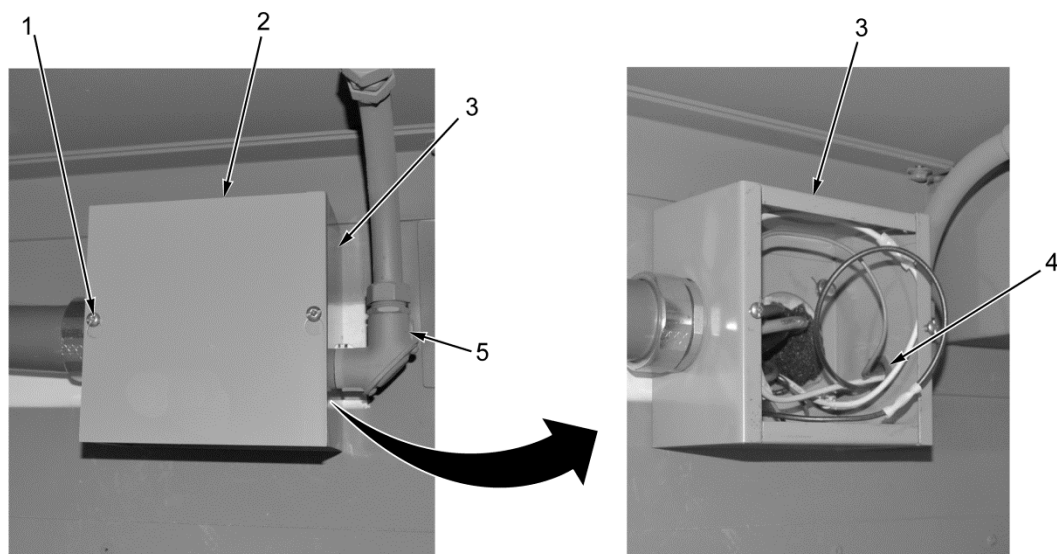
1. Install EMT conduit (Figure 7, Item 2) on light assembly (Figure 7, Item 3) and tighten fitting (Figure 7, Item 1).

INSTALLATION - Continued

ARSS0184

Figure 7. EMT Conduit Installation.

2. Install conduit elbow (Figure 8, Item 5) in mechanical room pull box (Figure 8, Item 3) and secure with nut (Figure 8, Item 4).
3. Install cover (Figure 8, Item 2) on mechanical room pull box (Figure 8, Item 3) and tighten two screws (Figure 8, Item 1).

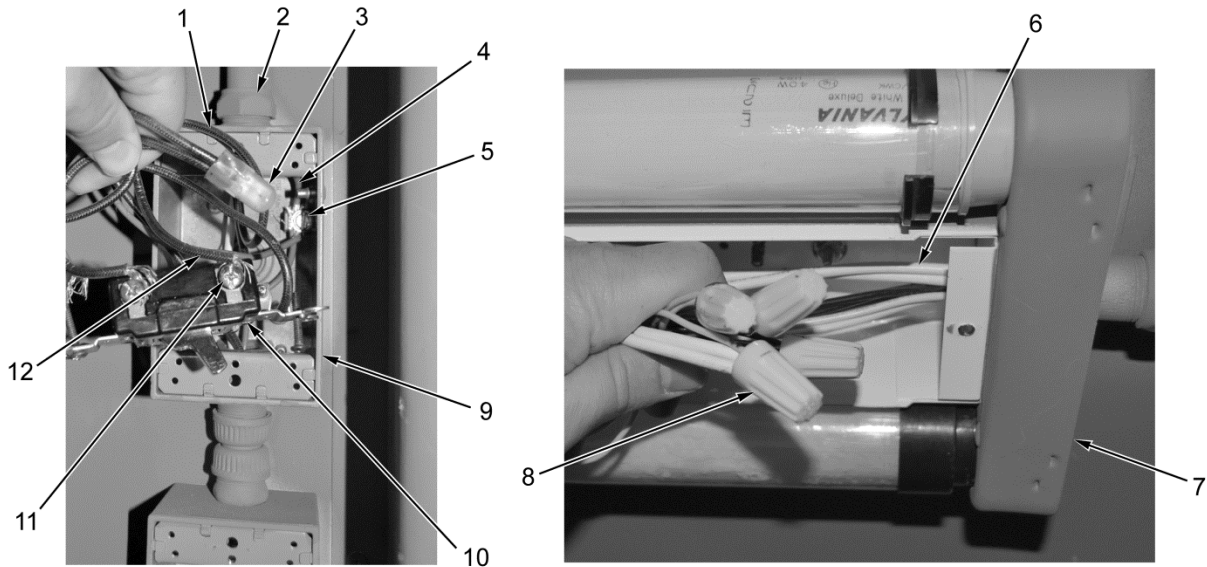


ARSS0185

Figure 8. Mechanical Room Pull Box Cover and Elbow Installation.

INSTALLATION - Continued

4. Install seven wires (Figure 9, Item 6) in light assembly (Figure 9, Item 7) and install four wire nuts (Figure 9, Item 8).
5. Install ground wire (Figure 9, Item 4) in light switch receptacle (Figure 9, Item 9) and tighten screw (Figure 9, Item 5).
6. Install wire (Figure 9, Item 12) in light switch receptacle (Figure 9, Item 9) light switch (Figure 9, Item 10) and tighten screw (Figure 9, Item 11).
7. Install wire nut (Figure 9, Item 3) on wire (Figure 9, Item 1).
8. Tighten conduit fitting (Figure 9, Item 2) on light switch receptacle (Figure 9, Item 9).



ARSS0186

Figure 9. Electrical Wiring Installation.

9. Install wire (Figure 10, Item 6) in outlet receptacle (Figure 10, Item 9) on outlet (Figure 10, Item 8) and tighten screw (Figure 10, Item 7).
10. Install outlet (Figure 10, Item 8) in outlet receptacle (Figure 10, Item 9) and secure with two screws (Figure 10, Item 10).
11. Install light switch (Figure 10, Item 5) in light switch receptacle (Figure 10, Item 4) and secure with two screws (Figure 10, Item 3).
12. Install light switch cover (Figure 10, Item 2), outlet cover (Figure 10, Item 11), and three screws (Figure 10, Item 1) on light switch receptacle (Figure 10, Item 4) and outlet receptacle (Figure 10, Item 9).

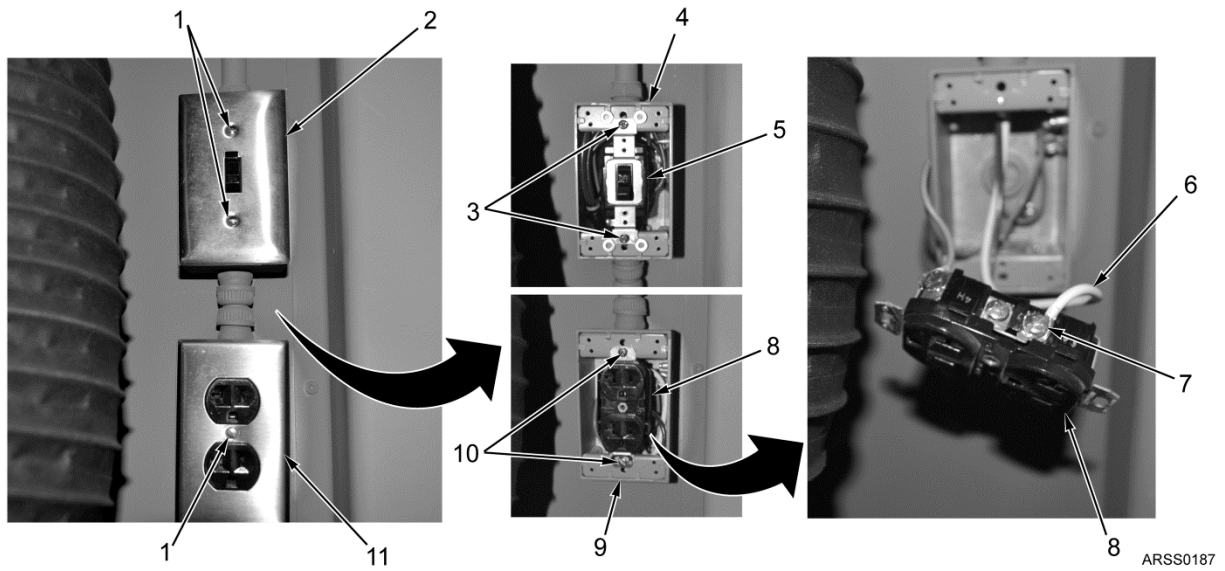
INSTALLATION - Continued

Figure 10. Light Switch and Outlet Cover Installation.

13. Install two clamps (Figure 11, Item 2), flat washers (Figure 11, Item 5), new lockwashers (Figure 11, Item 4), and screws (Figure 11, Item 3) on EMT conduit (Figure 11, Item 1).

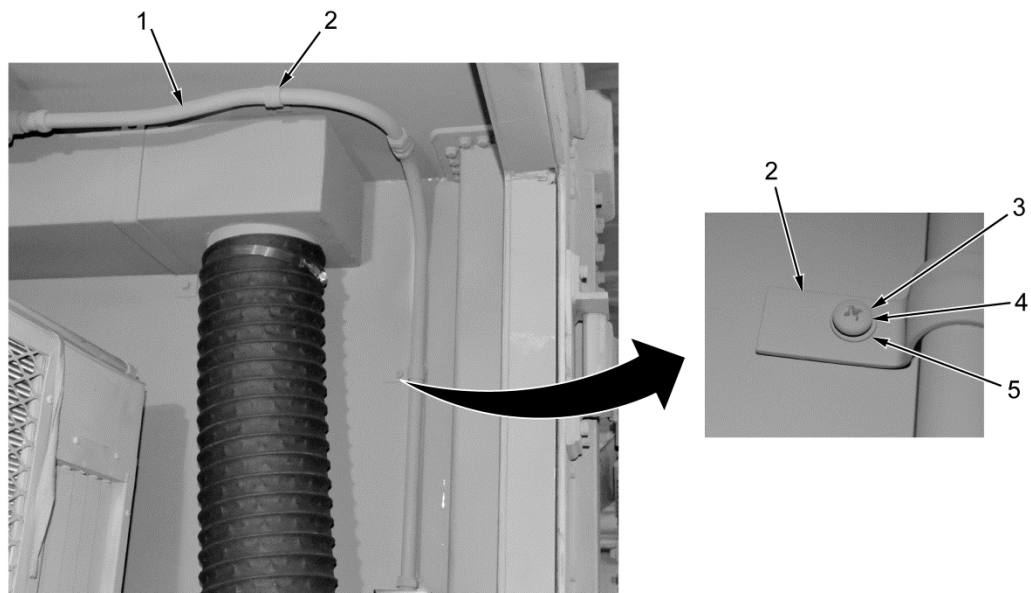


Figure 11. EMT Conduit Clamps Installation.

INSTALLATION - Continued

14. Install spacer (Figure 12, Item 9), clamp (Figure 12, Item 5), flat washer (Figure 12, Item 8), new lockwasher (Figure 12, Item 7), and bolt (Figure 12, Item 6) on EMT conduit (Figure 12, Item 4).
15. Install light cover (Figure 12, Item 1) and three screws (Figure 12, Item 2) on light assembly (Figure 12, Item 3).

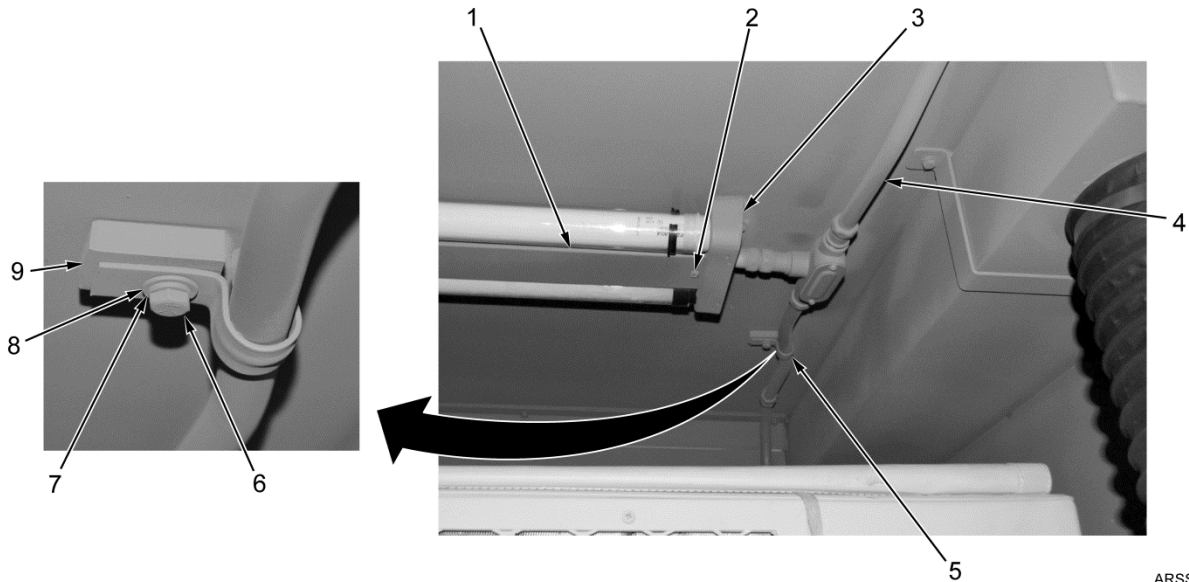


Figure 12. Light Cover and Electrical Conduit Cover Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Retract generator (WP 0010).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
MECHANICAL ROOM LIGHT SWITCH REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

References

FO-1

Personnel Required

Wheeled Vehicle Mechanic - 91B

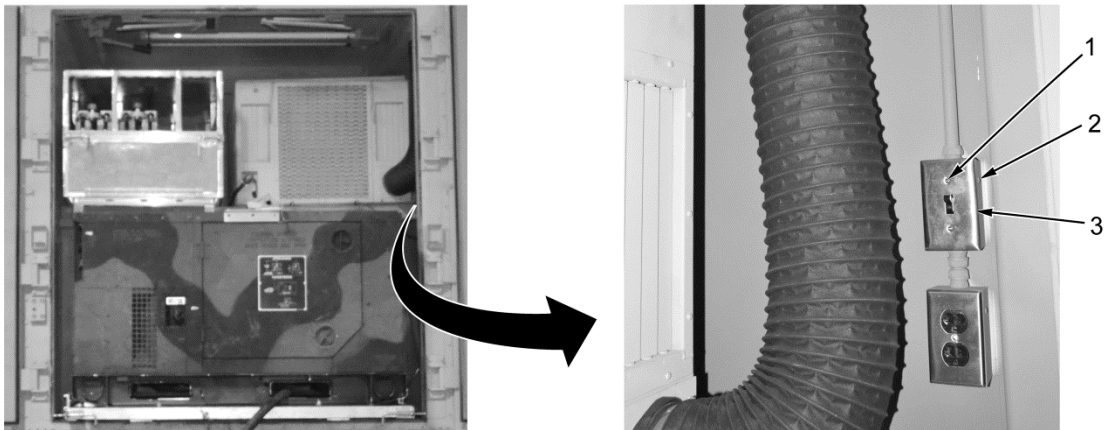
Equipment Condition

ARSS power OFF (WP 0009)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove two screws (Figure 1, Item 1) and switch cover (Figure 1, Item 3) from outlet box (Figure 1, Item 2).



ARSS0164

Figure 1. Switch Cover Removal.

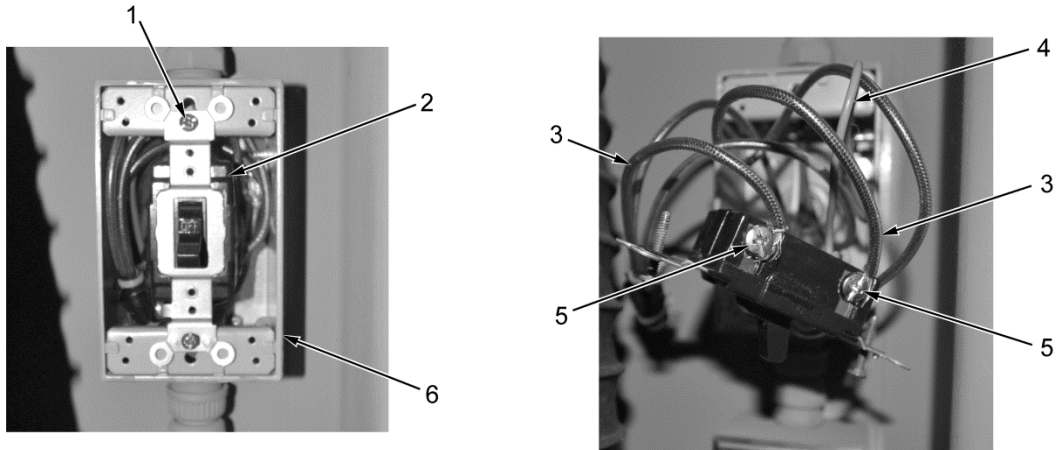
REMOVAL - Continued

2. Remove two screws (Figure 2, Item 1) and light switch (Figure 2, Item 2) from outlet box (Figure 2, Item 6).

NOTE

Tag or mark all wires prior to removal to aid in installation.

3. Loosen three screws (Figure 2, Item 5), remove two wires (Figure 2, Item 3), and ground wire (Figure 2, Item 4) from light switch (Figure 2, Item 2) and remove light switch from outlet box (Figure 2, Item 6).



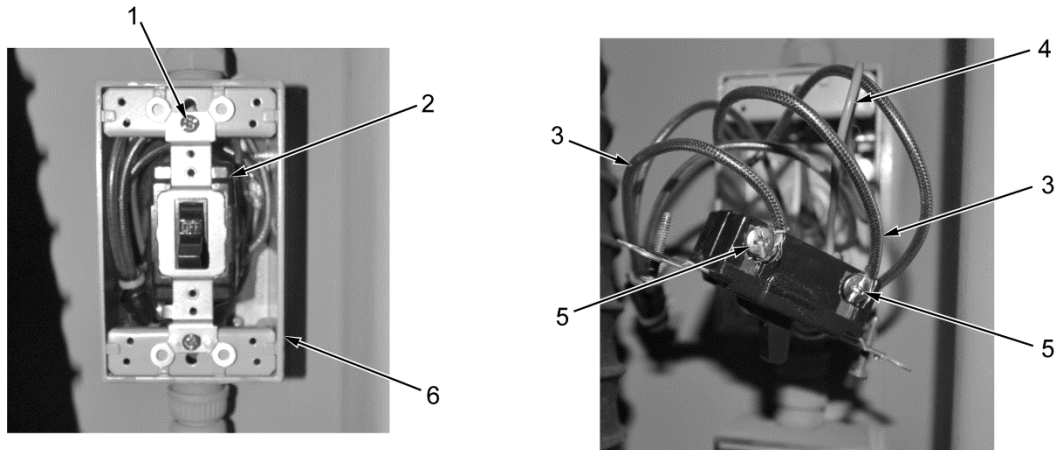
ARSS0165

Figure 2. Light Switch Removal.

END OF TASK

INSTALLATION

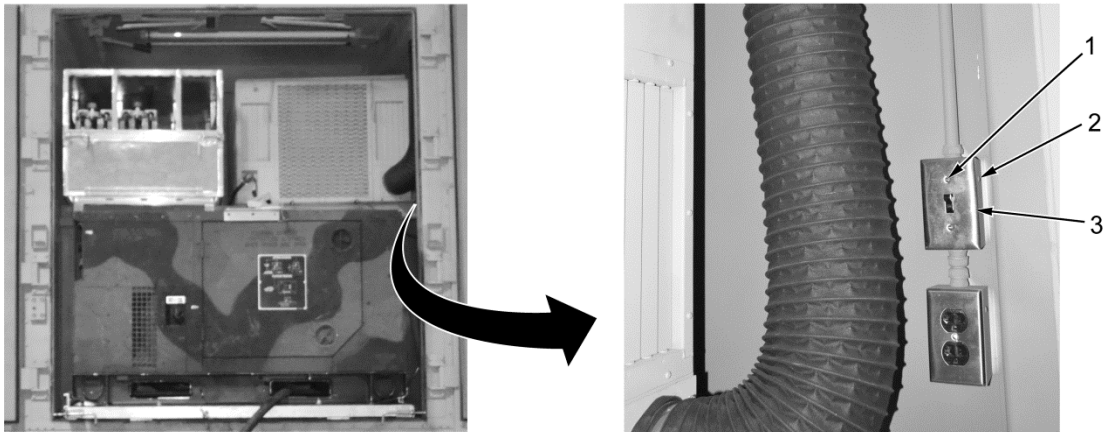
1. Install two wires (Figure 3, Item 3), ground wire (Figure 3, Item 4), and tighten three screws (Figure 3, Item 5) on light switch (Figure 3, Item 2).
2. Install light switch (Figure 3, Item 2) and two screws (Figure 3, Item 1) on outlet box (Figure 3, Item 6).



ARSS0167

Figure 3. Light Switch Installation.

3. Install switch cover (Figure 4, Item 3) and two screws (Figure 4, Item 1) on outlet box (Figure 4, Item 2).



ARSS0168

Figure 4. Light Switch Cover Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
MECHANICAL ROOM OUTLET REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

References

FO-1

Personnel Required

Wheeled Vehicle Mechanic - 91B

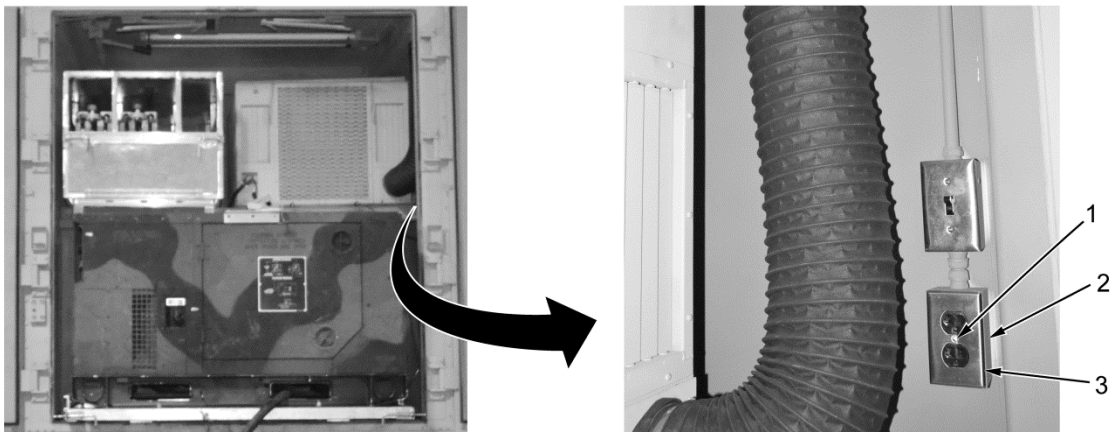
Equipment Condition

ARSS power OFF (WP 0009)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove screw (Figure 1, Item 1) and outlet cover (Figure 1, Item 3) from outlet box (Figure 1, Item 2).



ARSS0159

Figure 1. Outlet Cover Removal.

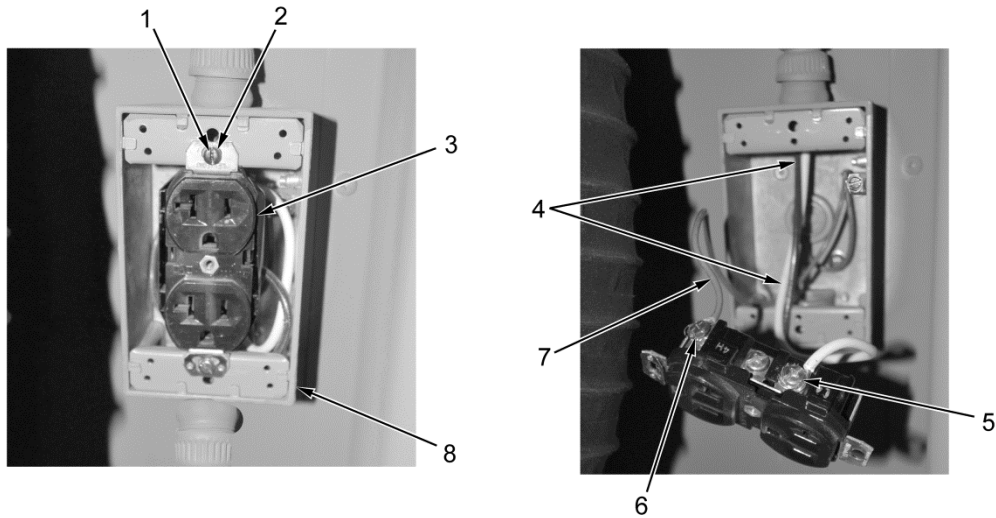
REMOVAL - Continued

2. Remove two screws (Figure 2, Item 1), flat washers (Figure 2, Item 2), and outlet (Figure 2, Item 3) from outlet box (Figure 2, Item 8).

NOTE

Tag or mark all wires prior to removal to aid in installation.

3. Loosen screw (Figure 2, Item 6) and remove ground wire (Figure 2, Item 7) from outlet (Figure 2, Item 3).
4. Loosen two screws (Figure 2, Item 5) and remove wires (Figure 2, Item 4) from outlet (Figure 2, Item 3) and remove outlet from outlet box (Figure 2, Item 8).



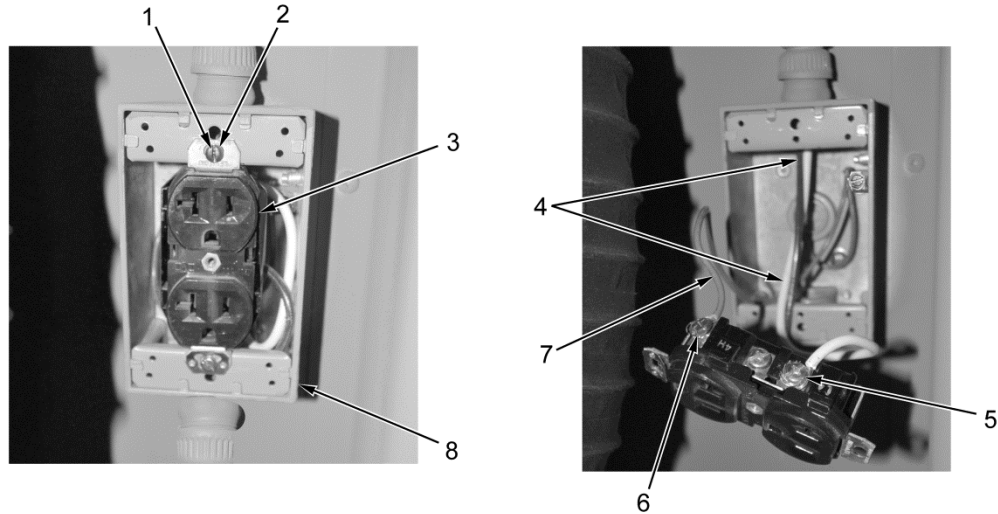
ARSS0160

Figure 2. Outlet Removal.

END OF TASK

INSTALLATION

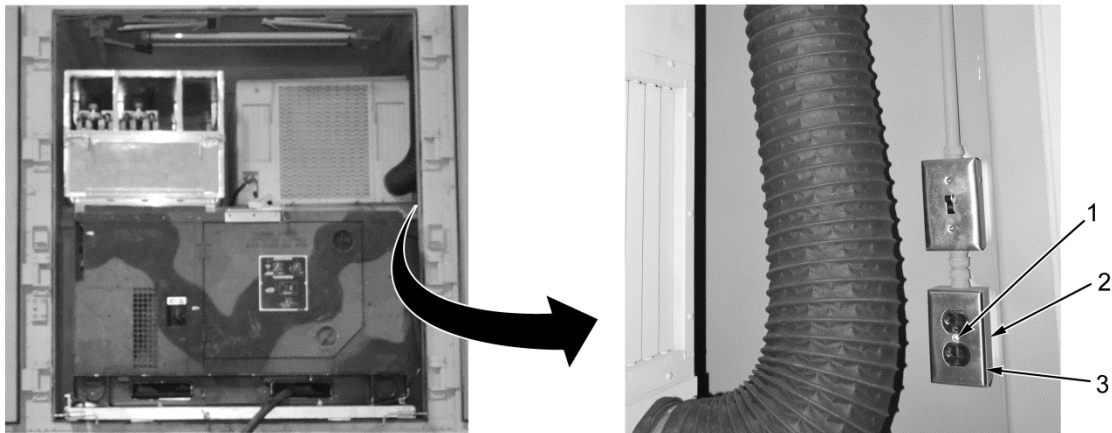
1. Install two wires (Figure 3, Item 4) and tighten screws (Figure 3, Item 5) on outlet (Figure 3, Item 3).
2. Install ground wire (Figure 3, Item 7) and tighten screw (Figure 3, Item 6) on outlet (Figure 3, Item 3).
3. Install outlet (Figure 3, Item 3), two flat washers (Figure 3, Item 2), and screws (Figure 3, Item 1) on outlet box (Figure 3, Item 8).



ARSS0161

Figure 3. Outlet Installation.

4. Install outlet cover (Figure 4, Item 3) and screw (Figure 4, Item 1) on outlet box (Figure 4, Item 2).



ARSS0162

Figure 4. Outlet Cover Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
MECHANICAL ROOM OUTLET BOX REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

References

WP 0090

Materials/Parts

Washer, Lock Qty: 2 (WP 0099, Item 8)

Equipment Condition

Mechanical room outlet removed (WP 0045)

Or

Mechanical room light switch removed (WP
0044)

Personnel Required

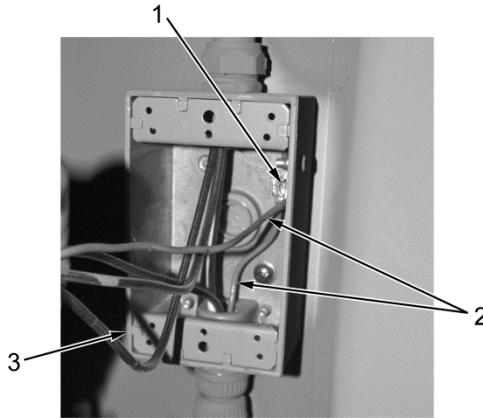
Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

NOTE

- There are two outlet boxes in the mechanical room; one for the light switch and one for the outlet. Both are replaced the same way. The following procedure covers one.
 - For detailed riveting instructions, refer to General Maintenance (WP 0090).
1. Remove screw (Figure 1, Item 1) and two ground wires (Figure 1, Item 2) from outlet box (Figure 1, Item 3).

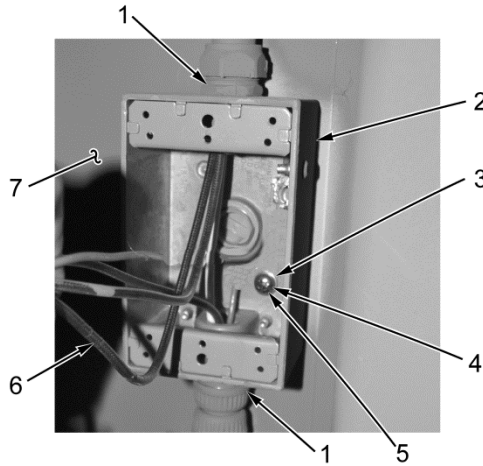


ARSS0166

Figure 1. Ground Wires Removal.

REMOVAL - Continued

2. Disconnect conduit ends (Figure 2, Item 1) from outlet box (Figure 2, Item 2).
3. Remove two screws (Figure 2, Item 4), lockwashers (Figure 2, Item 5), and flat washers (Figure 2, Item 3) from outlet box (Figure 2, Item 2). Discard lockwashers.
4. Remove outlet box (Figure 2, Item 2) from shelter wall (Figure 2, Item 7) and route wires (Figure 2, Item 6) out through outlet box openings.

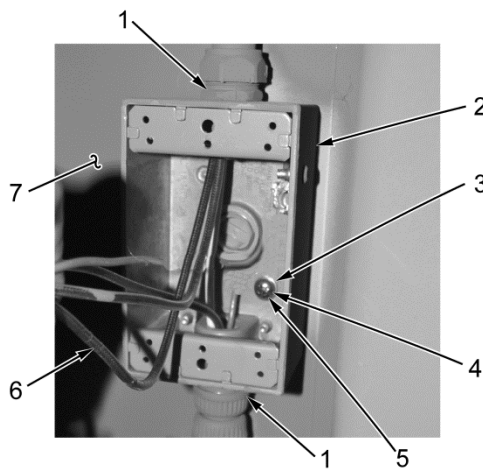


ARSS0169

Figure 2. Outlet Box Removal.

END OF TASK**INSTALLATION**

1. Route wires (Figure 3, Item 6) through openings on outlet box (Figure 3, Item 2) and install on shelter wall (Figure 3, Item 7).
2. Secure outlet box (Figure 3, Item 2) on shelter wall (Figure 3, Item 7) with two flat washers (Figure 3, Item 3), new lockwashers (Figure 3, Item 5), and screws (Figure 3, Item 4).
3. Install conduit ends (Figure 3, Item 1) on outlet box (Figure 3, Item 2).

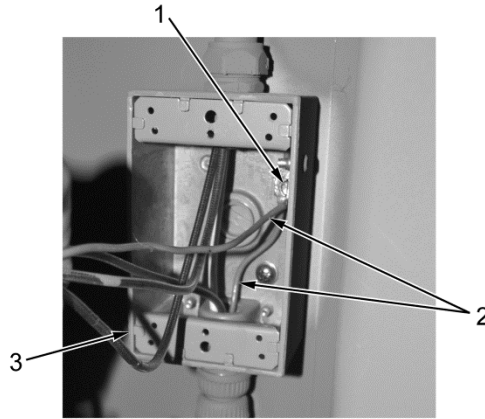


ARSS0170

Figure 3. Outlet Box Installation.

INSTALLATION - Continued

4. Install two ground wires (Figure 4, Item 2) and screw (Figure 4, Item 1) on outlet box (Figure 4, Item 3).



ARSS0171

Figure 4. Ground Wires Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

1. Install mechanical room light switch (WP 0044).
Or
2. Install mechanical room outlet (WP 0045).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
EMT CONDUIT REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 3 (WP 0099, Item 8)
Tag, Wire Qty: V (WP 0123, Item 6)

Equipment Condition

ARSS setup for operation (WP 0006)
ARSS power OFF (WP 0009)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove two screws (Figure 1, Item 2) and outlet covers (Figure 1, Item 1) from outlet boxes (Figure 1, Item 3).



ARSS0061

Figure 1. Outlet Covers Removal.

REMOVAL - Continued**NOTE**

Repeat Steps 2 and 3 for outlet box on opposite end of conduit.

2. Remove two screws (Figure 2, Item 1) and outlet (Figure 2, Item 2) from outlet box (Figure 2, Item 3).
3. Loosen three screws (Figure 2, Item 5) and remove wires (Figure 2, Item 4) from outlet (Figure 2, Item 2).

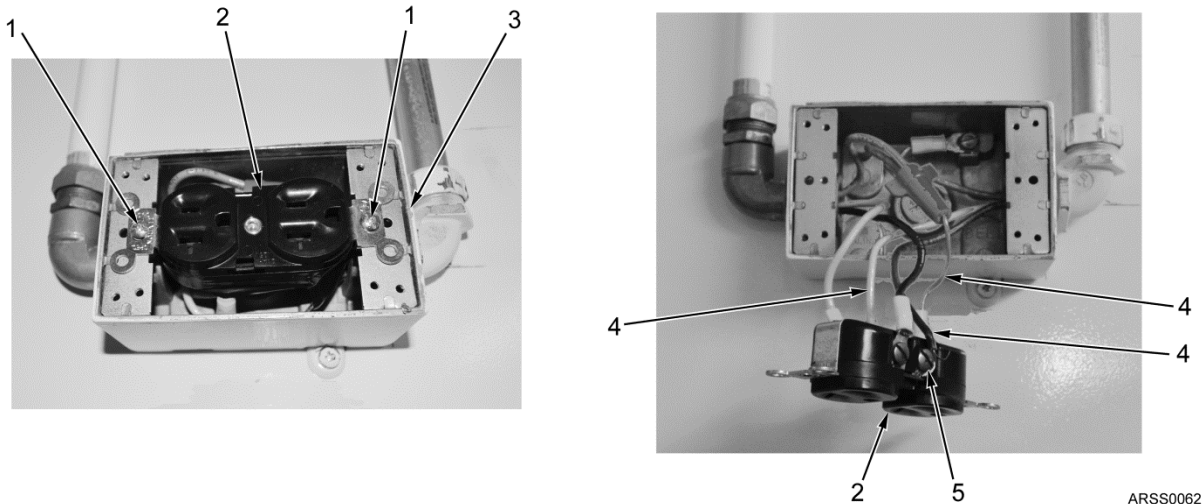
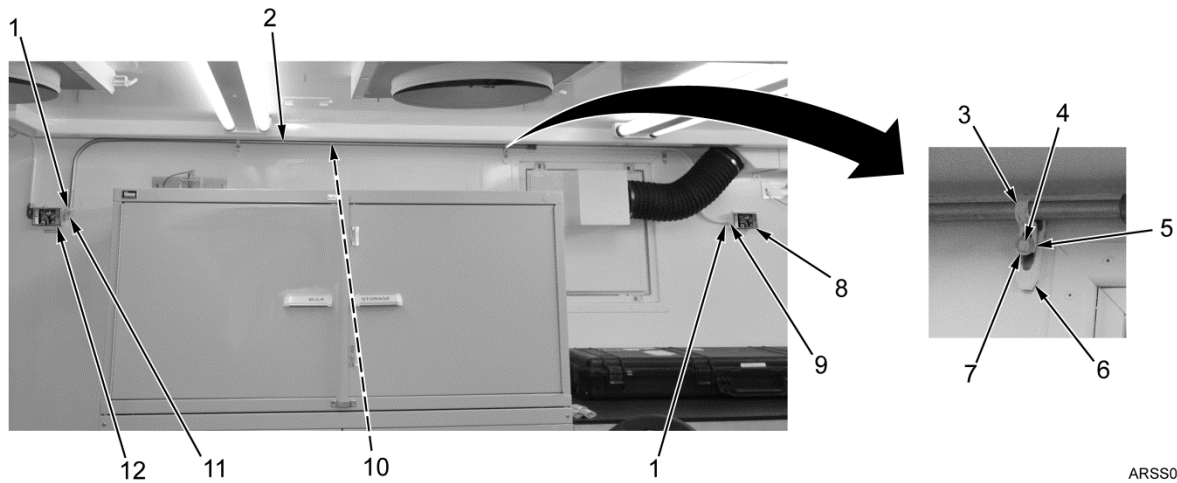


Figure 2. Outlet Removal.

4. Remove three bolts (Figure 3, Item 4), lockwashers (Figure 3, Item 5), flat washers (Figure 3, Item 7), straps (Figure 3, Item 3), and clips (Figure 3, Item 6) from conduit (Figure 3, Item 2). Discard lockwashers.
5. Loosen two fittings (Figure 3, Item 1) and remove conduit (Figure 3, Item 2) and wiring (Figure 3, Item 10) from elbow (Figure 3, Item 11) and fitting (Figure 3, Item 9).
6. Remove elbow (Figure 3, Item 11) from outlet box (Figure 4, Item 12).
7. Remove fitting (Figure 3, Item 9) from outlet box (Figure 3, Item 8).

END OF TASK**INSTALLATION**

1. Install fitting (Figure 3, Item 9) on outlet box (Figure 3, Item 8).
2. Install elbow (Figure 3, Item 11) on outlet box (Figure 3, Item 12).
3. Install wiring (Figure 3, Item 10) and conduit (Figure 3, Item 2) on elbow (Figure 3, Item 11) and fitting (Figure 3, Item 9) and tighten two fittings (Figure 3, Item 1).
4. Install three clips (Figure 3, Item 6), straps (Figure 3, Item 3), flat washers (Figure 3, Item 7), new lockwashers (Figure 3, Item 5), and bolts (Figure 3, Item 4) on conduit (Figure 3, Item 2).

INSTALLATION - Continued

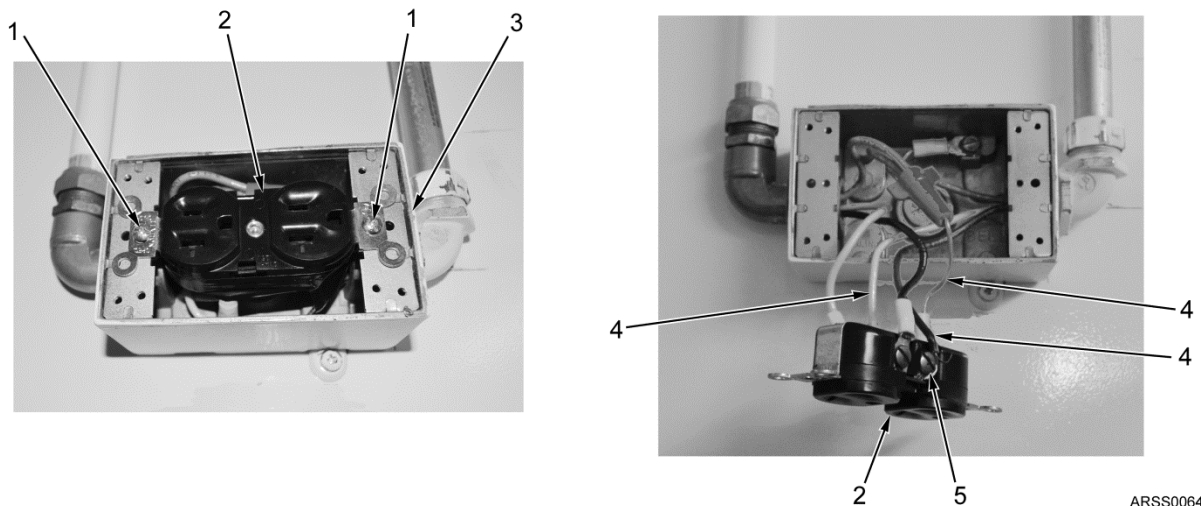
ARSS0063

Figure 3. Conduit Replacement.

NOTE

Repeat Steps 5 and 6 for outlet box on opposite end of conduit.

5. Install three wires (Figure 4, Item 4) on outlet (Figure 4, Item 2) and tighten three screws (Figure 4, Item 5).
6. Install outlet (Figure 4, Item 2) and two screws (Figure 4, Item 1) on outlet box (Figure 4, Item 3).



ARSS0064

Figure 4. Outlet Installation.

INSTALLATION - Continued

7. Install two outlet covers (Figure 5, Item 1) and screws (Figure 5, Item 2) on outlet boxes (Figure 5, Item 3).



ARSS0065

Figure 5. Outlet Covers Installation.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
CIRCUIT BREAKER REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts:

Tag, Wire Qty: V (WP 0123, Item 6)

Equipment Condition

ARSS setup for operation (WP 0006)

ARSS power OFF (WP 0009)

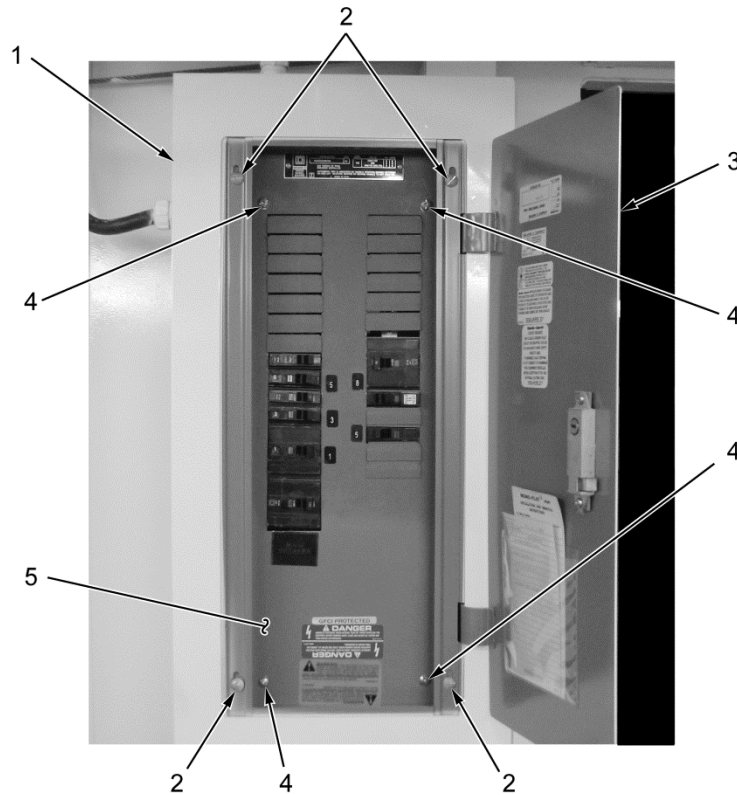
Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Open door (Figure 1, Item 3) on electrical cabinet (Figure 1, Item 1).
2. Remove four screws (Figure 1, Item 2) and door (Figure 1, Item 3) from electrical cabinet (Figure 1, Item 1).
3. Remove four screws (Figure 1, Item 4) and panel (Figure 1, Item 5) from electrical cabinet (Figure 1, Item 1).



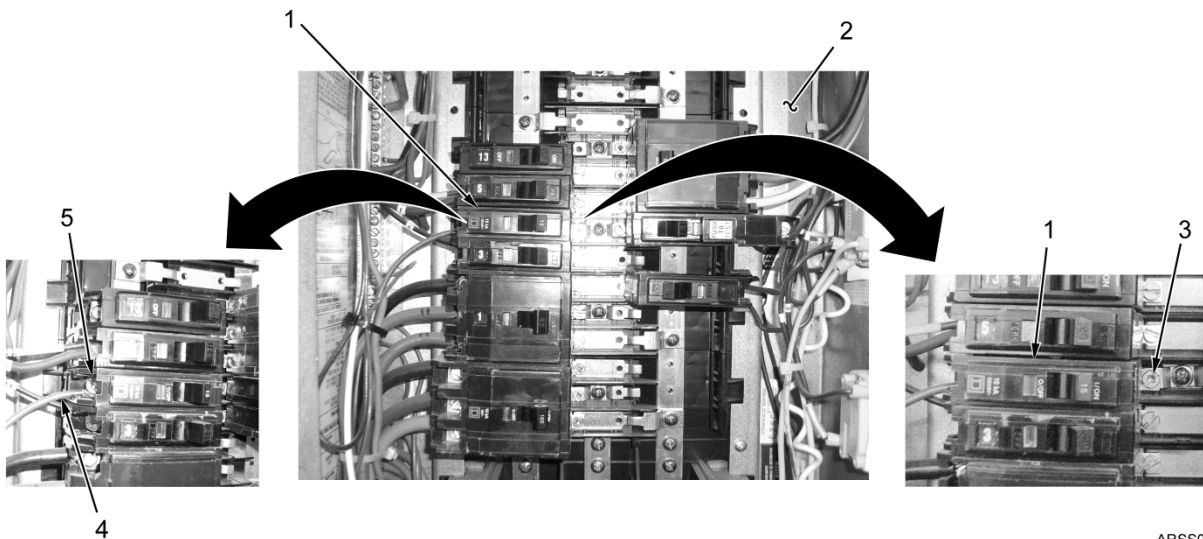
ARSS0001

Figure 1. Electrical Cabinet Door and Panel Removal.

REMOVAL - Continued**NOTE**

- Tag or mark all wires prior to removal to aid in installation.
- Perform Steps 4 and 5 for removal of 15 AMP CB.
- Perform Steps 6 and 7 for removal of 40 or 100 AMP CB.

4. Loosen screw (Figure 2, Item 5) and remove wire (Figure 2, Item 4) from 15 AMP CB (Figure 2, Item 1).
5. Remove screw (Figure 2, Item 3) and 15 AMP CB (Figure 2, Item 1) from electrical cabinet (Figure 2, Item 2).

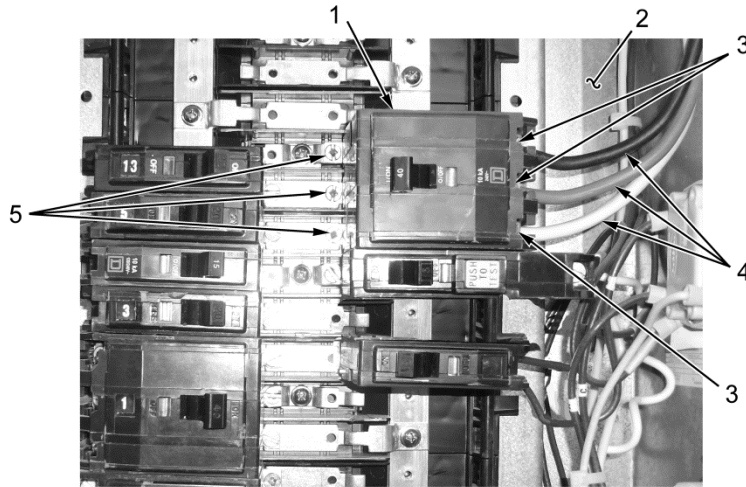


ARSS0002

Figure 2. 15 AMP CB and Wire Removal.

REMOVAL - Continued

6. Loosen three screws (Figure 3, Item 3) and remove wires (Figure 3, Item 4) from 40 or 100 AMP CB (Figure 3, Item 1).
7. Remove three screws (Figure 3, Item 5) and 40 or 100 AMP CB (Figure 3, Item 1) from electrical cabinet (Figure 3, Item 2).



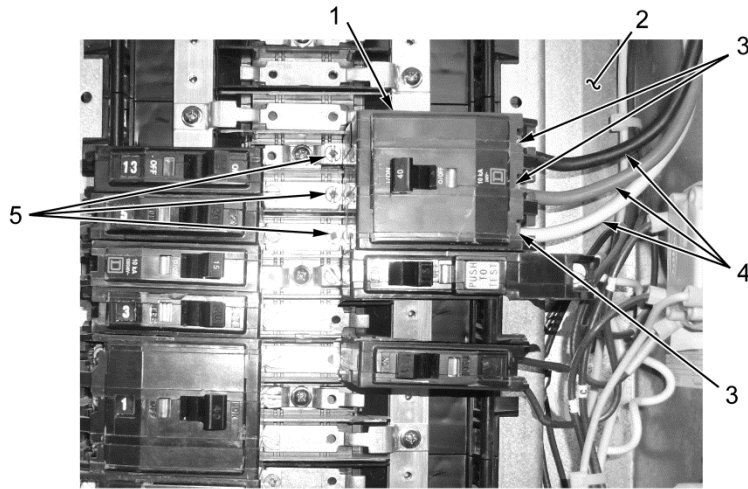
ARSS0005

Figure 3. 40 or 100 AMP CB and Wires Removal.

END OF TASK**INSTALLATION****NOTE**

- Perform Steps 1 and 2 for installation of 40 or 100 AMP CB.
 - Perform Steps 3 and 4 for installation of 15 AMP CB.
1. Install three wires (Figure 4, Item 4) on 40 or 100 AMP CB (Figure 4, Item 1) and tighten three screws (Figure 4, Item 3).
 2. Install 40 or 100 AMP CB (Figure 4, Item 1) and three screws (Figure 4, Item 5) on electrical cabinet (Figure 4, Item 2).

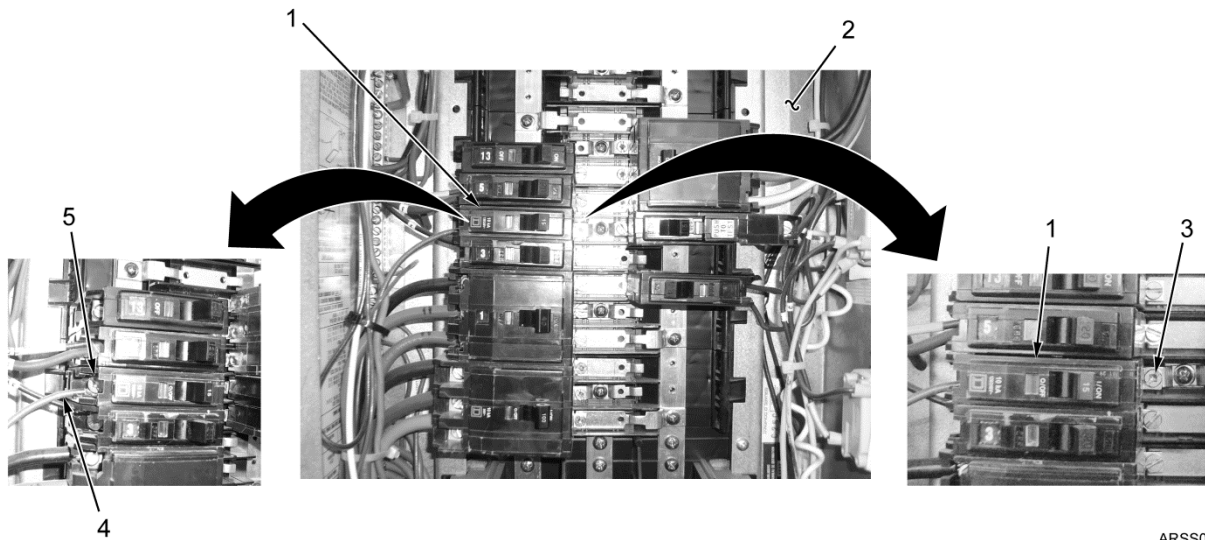
INSTALLATION - Continued



ARSS0006

Figure 4. 40 or 100 AMP CB and Wires Installation

3. Install 15 AMP CB (Figure 5, Item 1) and screw (Figure 5, Item 3) on electrical cabinet (Figure 5, Item 2).
4. Install wire (Figure 5, Item 4) on 15 AMP CB (Figure 5, Item 1) and tighten screw (Figure 5, Item 5).

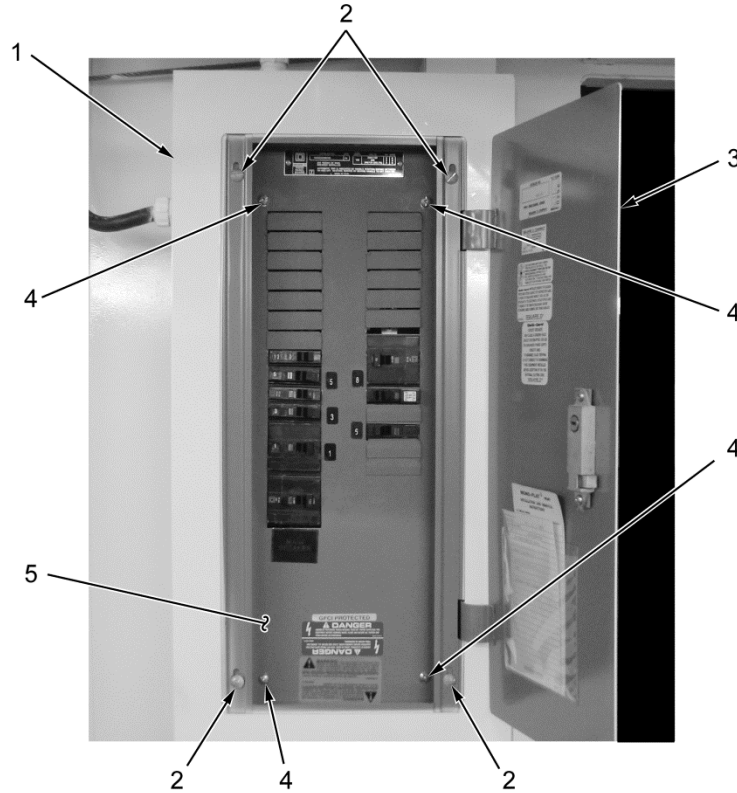


ARSS0003

Figure 5. 15 AMP CB and Wire Installation.

INSTALLATION - Continued

5. Install panel (Figure 6, Item 5) and four screws (Figure 6, Item 4) on electrical cabinet (Figure 6, Item 1).
6. Install door (Figure 6, Item 3) and four screws (Figure 6, Item 2) on electrical cabinet (Figure 6, Item 1).
7. Close door (Figure 6, Item 3) on electrical cabinet (Figure 6, Item 1).



ARSS0004

Figure 6. Electrical Cabinet Door and Panel Installation.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
SMOKE ALARM REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)

Equipment Condition

ARSS shelter expanded (WP 0005)

ARSS power OFF (WP 0009)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

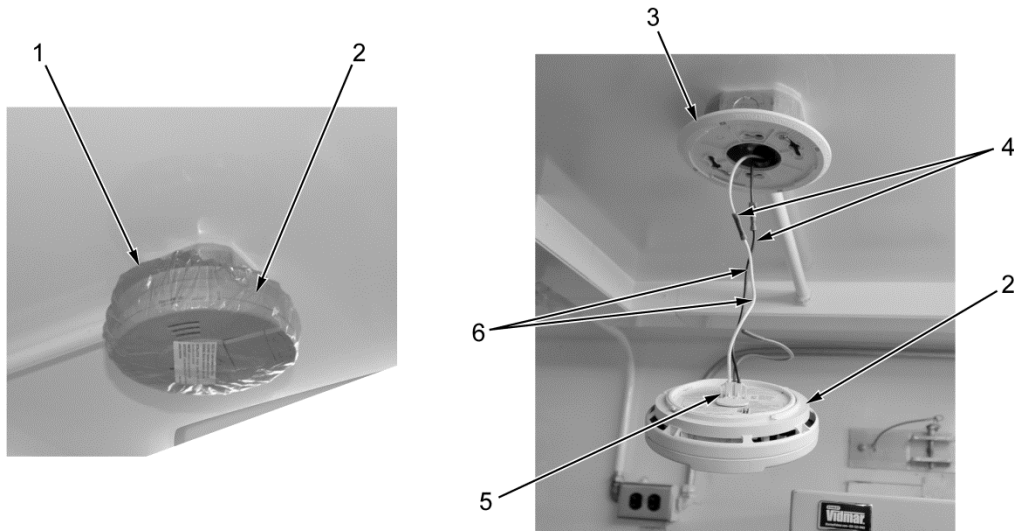
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove dust cover (Figure 1, Item 1) from smoke alarm (Figure 1, Item 2).
2. Remove smoke alarm (Figure 1, Item 2) from smoke alarm mounting bracket (Figure 1, Item 3) by twisting counterclockwise.
3. Depress two tabs on electrical connector (Figure 1, Item 5) and remove smoke alarm (Figure 1, Item 2) from electrical connector.

NOTE

Tag or mark all wires prior to removal to aid in installation.

4. Twist two wire nuts (Figure 1, Item 4) and disconnect white and black wires (Figure 1, Item 6).



ARSS0198

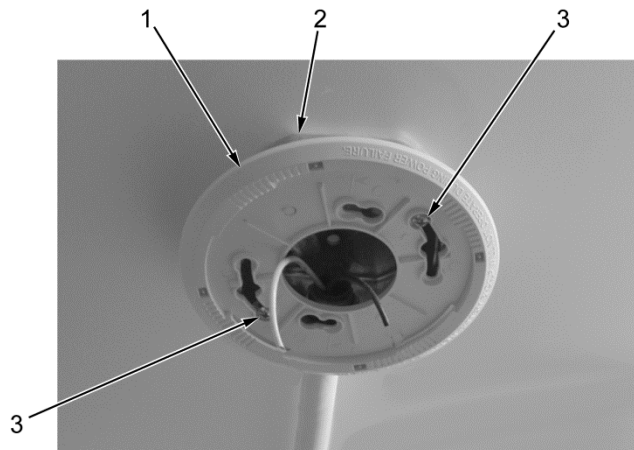
Figure 1. Dust Cover and Smoke Alarm Removal.

REMOVAL - Continued

5. Remove two screws (Figure 2, Item 3) and twist and remove smoke alarm mounting bracket (Figure 2, Item 1) from smoke alarm junction box (Figure 2, Item 2).

END OF TASK**INSTALLATION**

1. Install smoke alarm mounting bracket (Figure 2, Item 1) and two screws (Figure 2, Item 3) on smoke alarm junction box (Figure 2, Item 2).

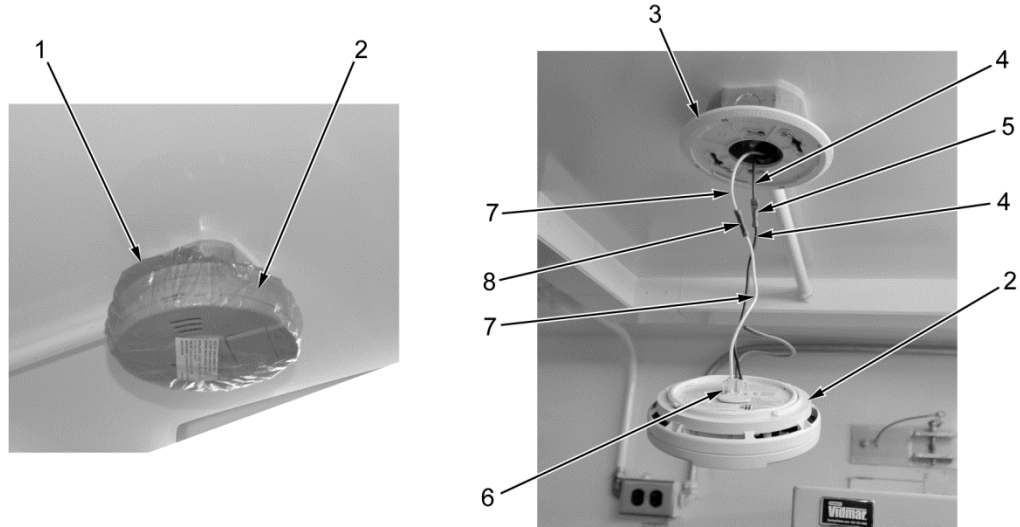


ARSS0199

Figure 2. Smoke Alarm Mounting Bracket Replacement.

INSTALLATION - Continued

6. Connect two white wires (Figure 3, Item 7) using wire nut (Figure 3, Item 8).
7. Connect two black wires (Figure 3, Item 4) using wire nut (Figure 3, Item 5).
8. Install electrical connector (Figure 3, Item 6) on smoke alarm (Figure 3, Item 2) until electrical connector clicks into place.
9. Install smoke alarm (Figure 3, Item 2) on smoke alarm mounting bracket (Figure 3, Item 3) and twist clockwise to secure.
10. Install dust cover (Figure 3, Item 1) on smoke alarm (Figure 3, Item 2).



ARSS0200

Figure 3. Dust Cover and Smoke Alarm Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
SMOKE ALARM JUNCTION BOX AND CONDUIT REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

WP 0090

Equipment Condition

Smoke alarm removed (WP 0049)

Materials/Parts

Rivet, Blind Qty: 2 (WP 0099, Item 18)

REMOVAL**WARNING**

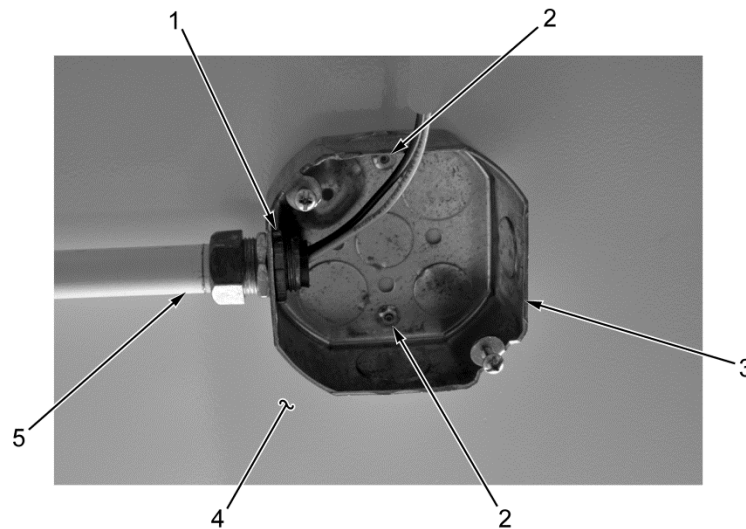
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove retaining nut (Figure 1, Item 1) from smoke alarm conduit (Figure 1, Item 5).

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

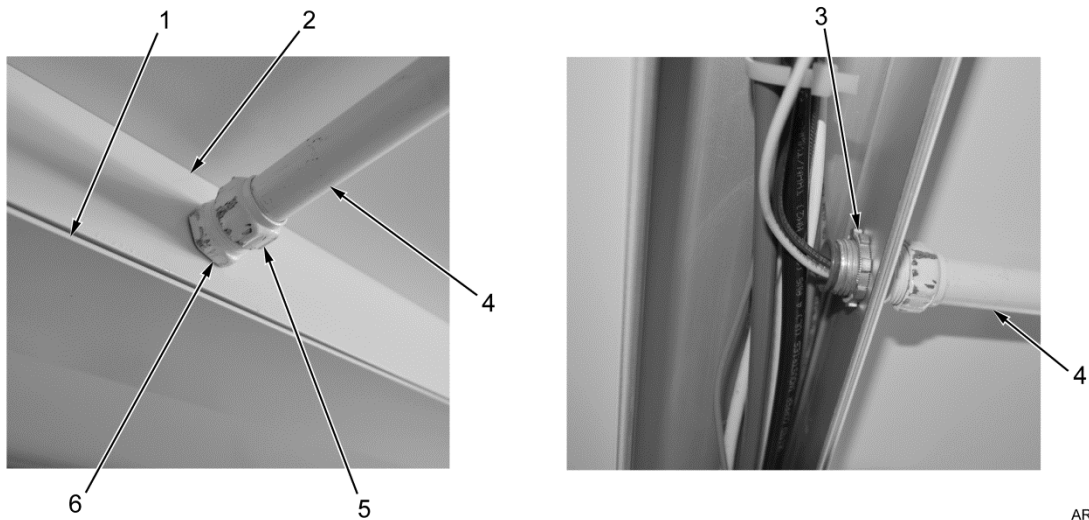
2. Remove two rivets (Figure 1, Item 2) and smoke alarm junction box (Figure 1, Item 3) from shelter ceiling (Figure 1, Item 4). Discard rivets.



ARSS0201

Figure 1. Smoke Alarm Junction Box Removal.

3. Remove raceway cover (Figure 2, Item 1) from raceway base (Figure 2, Item 2).
4. Remove retaining nut (Figure 2, Item 3) and smoke alarm conduit (Figure 2, Item 4) from raceway base (Figure 2, Item 2).
5. Loosen two ends (Figure 2, Item 5) of smoke alarm conduit (Figure 2, Item 4) and remove two conduit fittings (Figure 2, Item 6).

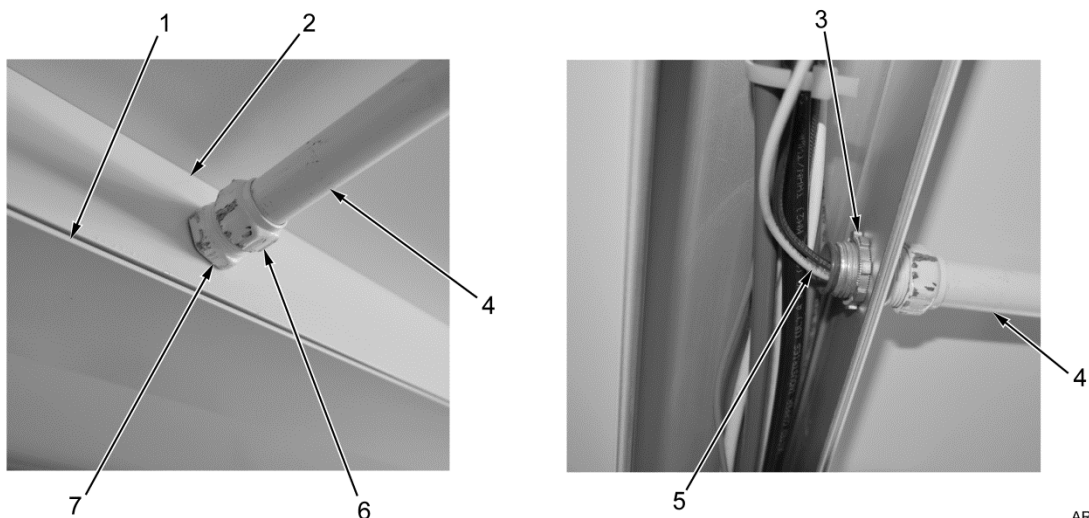
REMOVAL - Continued

ARSS0202

Figure 2. Smoke Alarm Conduit Removal.

END OF TASK**INSTALLATION**

1. Install two conduit fittings (Figure 3, Item 7) on two ends (Figure 3, Item 6) of smoke alarm conduit (Figure 3, Item 4).
2. Route two wires (Figure 3, Item 5) through smoke alarm conduit (Figure 3, Item 4).
3. Install smoke alarm conduit (Figure 3, Item 4) on raceway base (Figure 3, Item 2) and secure with retaining nut (Figure 3, Item 3).
4. Install raceway cover (Figure 3, Item 1) on raceway base (Figure 3, Item 2).



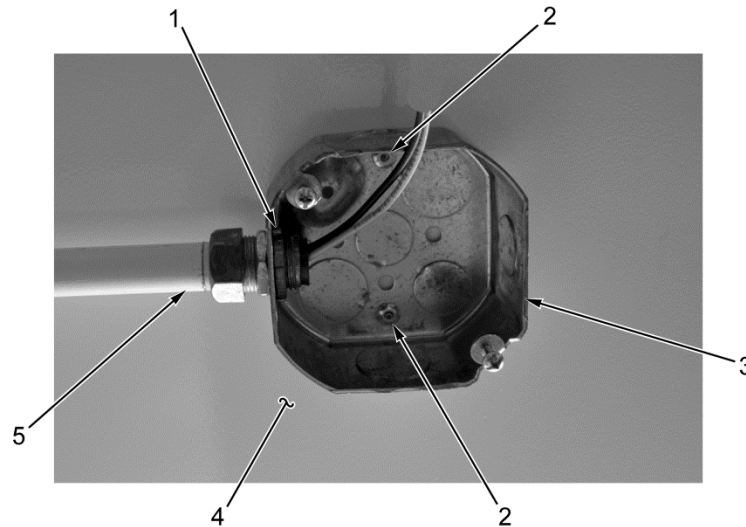
ARSS0203

Figure 3. Smoke Alarm Conduit Installation.

INSTALLATION - Continued**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

6. Install smoke alarm junction box (Figure 4, Item 3) on shelter ceiling (Figure 4, Item 4) and smoke alarm conduit (Figure 4, Item 5) and secure with two new rivets (Figure 4, Item 2).
7. Install retaining nut (Figure 4, Item 1) on smoke alarm conduit (Figure 4, Item 5).



ARSS0204

Figure 4. Smoke Alarm Junction Box Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install smoke alarm (WP 0049).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
SMOKE ALARM 9V BATTERY REPLACEMENT**

INITIAL SETUP:**Materials/Parts**

Battery, 9V (WP 0099, Item 16)

Equipment Condition

ARSS setup for operation (WP 0006)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL

1. Remove dust cover (Figure 1, Item 1) from smoke alarm (Figure 1, Item 2).

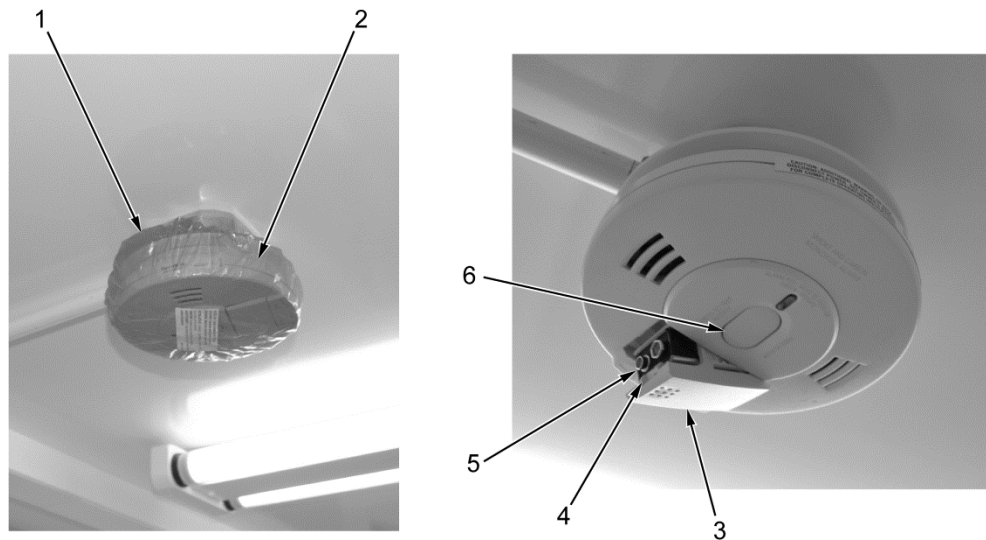
NOTE

Dispose of 9V battery in accordance with federal, state, and local regulations and unit's Standard Operating Procedures (SOP).

2. Press and release battery door (Figure 1, Item 3) on smoke alarm (Figure 1, Item 2) to open battery door.
3. Depress tab (Figure 1, Item 4) on battery door (Figure 1, Item 3) and remove 9V battery (figure 1, Item 5).

END OF TASK**INSTALLATION**

1. Install 9V battery (Figure 1, Item 5) in smoke alarm (Figure 1, Item 2) and close battery door (Figure 1, Item 3).
2. Depress test button (Figure 1, Item 6) on smoke alarm (Figure 1, Item 2).
3. Install dust cover (Figure 1, Item 1) on smoke alarm (Figure 1, Item 2).



ARSS0205

Figure 1. 9V Battery Replacement.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
SELECTOR SWITCH REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tag, Wire Qty: V (WP 0123, Item 6)
Tape, Insulation, Electrical (WP 0123, Item
7)

References

FO-1
FO-3

Equipment Condition

ARSS setup for operation (WP 0006)
ARSS power OFF (WP 0009)

Personnel Required

Wheeled Vehicle Mechanic - 91B

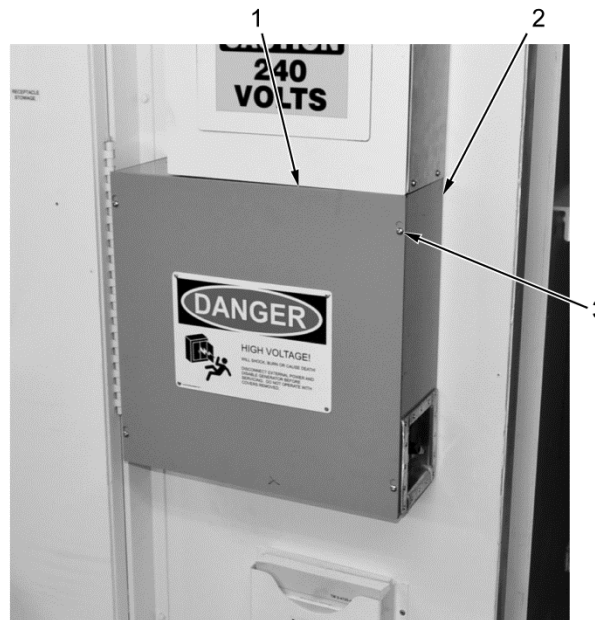
WARNING

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

REMOVAL**WARNING**

Ensure shore power cable (EXT power) is disconnected prior to beginning work. Failure to take this precautionary step could result in accidental electrocution. Failure to follow this warning may result in injury or death.

1. Loosen four screws (Figure 1, Item 3) and remove work room pull box cover (Figure 1, Item 1) from work room pull box (Figure 1, Item 2).

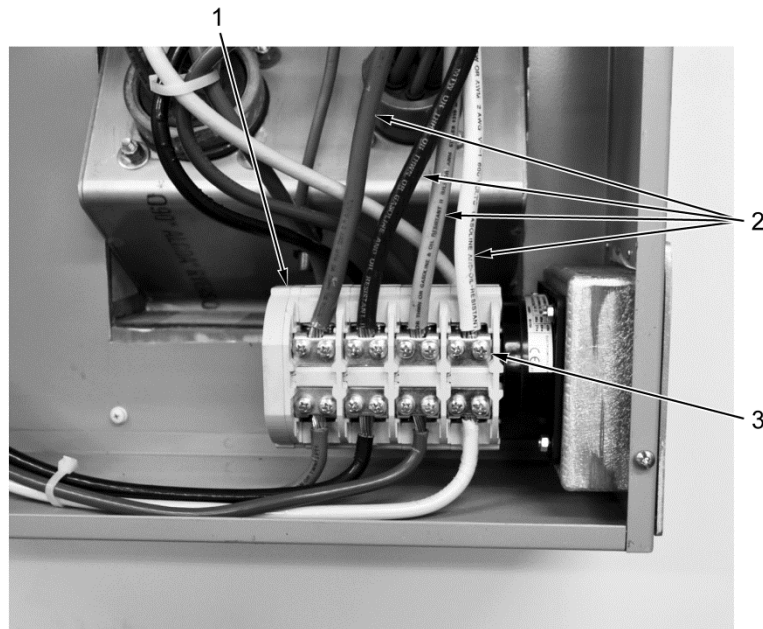


ARSS0301

Figure 1. Work Room Pull Box Cover Removal.

NOTE

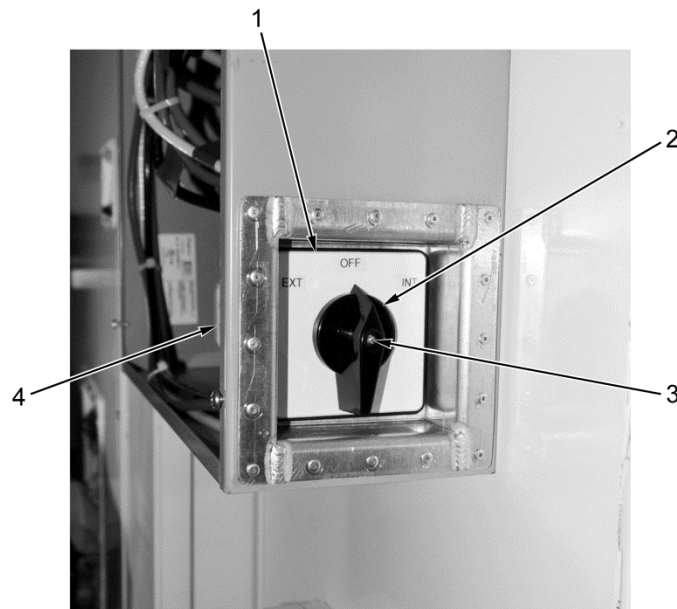
- Tag or mark all wire prior to removal to aid in installation
 - Apply electrical tape to wire ends after disconnection.
2. Loosen eight screws (Figure 2, Item 3) and disconnect four wires (Figure 2, Item 2) from selector switch (Figure 2, Item 1). Position wires aside.

REMOVAL - Continued

ARSS0302

Figure 2. Upper Wire Disconnection.

3. Remove screw (Figure 3, Item 3) and knob (Figure 3, Item 2) from selector switch (Figure 3, Item 4).
4. Pry and remove plate (Figure 3, Item 1) from selector switch (Figure 3, Item 4).



ARSS0303

Figure 3. Selector Switch Knob Removal.

REMOVAL - Continued**NOTE**

Note the orientation of the spacer plate to aid in installation.

5. Remove four nuts (Figure 4, Item 2), spring washers (Figure 4, Item 3), screws (Figure 4, Item 4) and spacer plate (Figure 4, Item 5) from selector switch (Figure 4, Item 1).
6. Remove selector switch (Figure 4, Item 1) from work room pull box (Figure 4, Item 6).

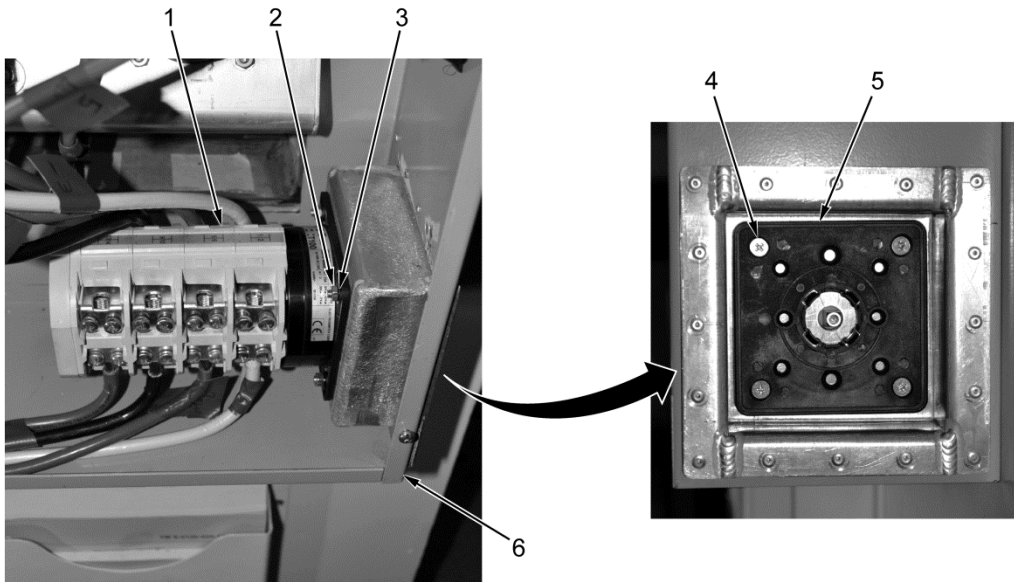


Figure 4. Selector Switch Removal.

ARSS0304

REMOVAL - Continued

7. Loosen eight screws (Figure 5, Item 4) and disconnect four wires (Figure 5, Item 5) from selector switch (Figure 5, Item 1). Position wires aside.
8. Loosen eight screws (Figure 5, Item 2) and disconnect four wires (Figure 5, Item 3) from selector switch (Figure 5, Item 1).

END OF TASK**INSTALLATION****NOTE**

- Connect wires as tagged and marked during removal.
 - Remove electrical tape from wires before connection.
1. Connect four wires (Figure 5, Item 3) to selector switch (Figure 5, Item 1) and tighten eight screws (Figure 5, Item 2).
 2. Connect four wires (Figure 5, Item 5) to selector switch (Figure 5, Item 1) and tighten eight screws (Figure 5, Item 4).

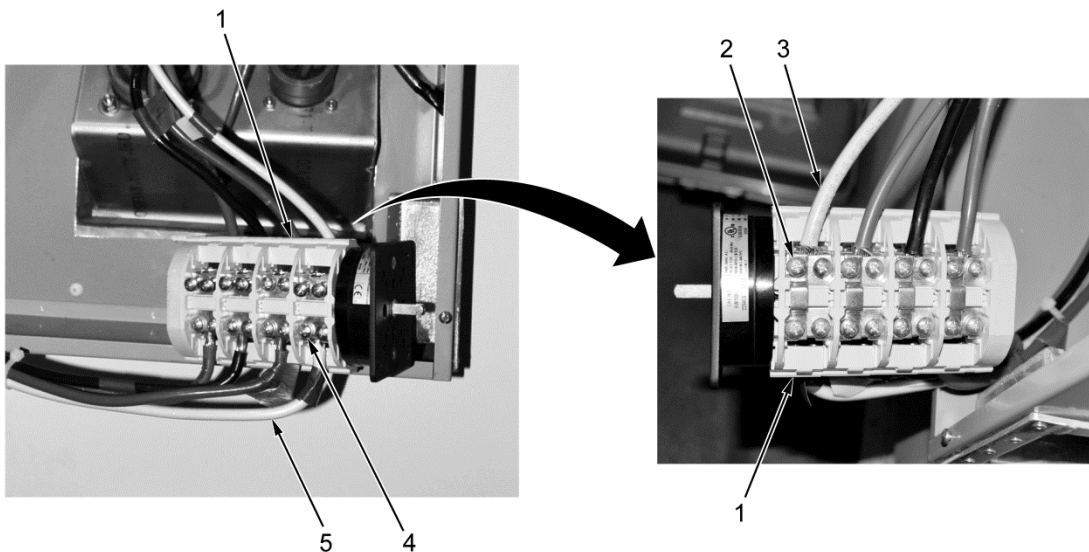


Figure 5. Wire Disconnection.

ARSS0305

INSTALLATION - Continued

3. Install selector switch (Figure 6, Item 1) on work room pull box (Figure 6, Item 6).

NOTE

Install spacer plate as noted during removal.

4. Install spacer plate (Figure 6, Item 5), four screws (Figure 6, Item 4), new spring washers (Figure 6, Item 3), and nuts (Figure 6, Item 2) on selector switch (Figure 6, Item 1).

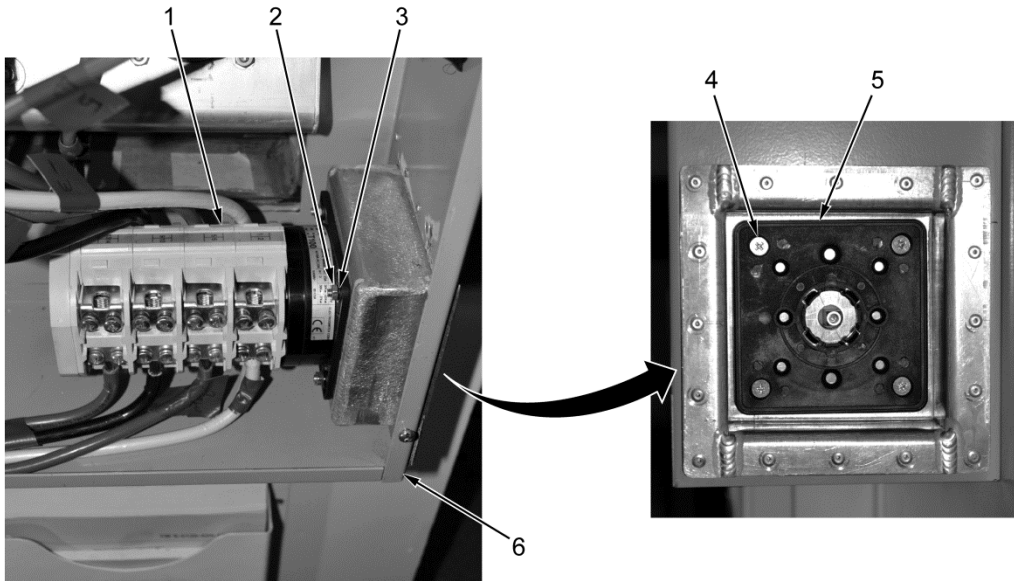
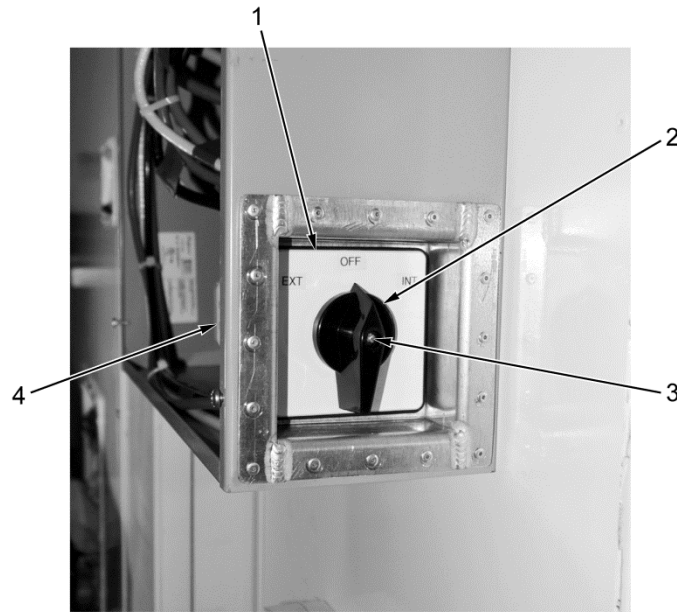


Figure 6. Selector Switch Installation.

ARSS0304

INSTALLATION - Continued

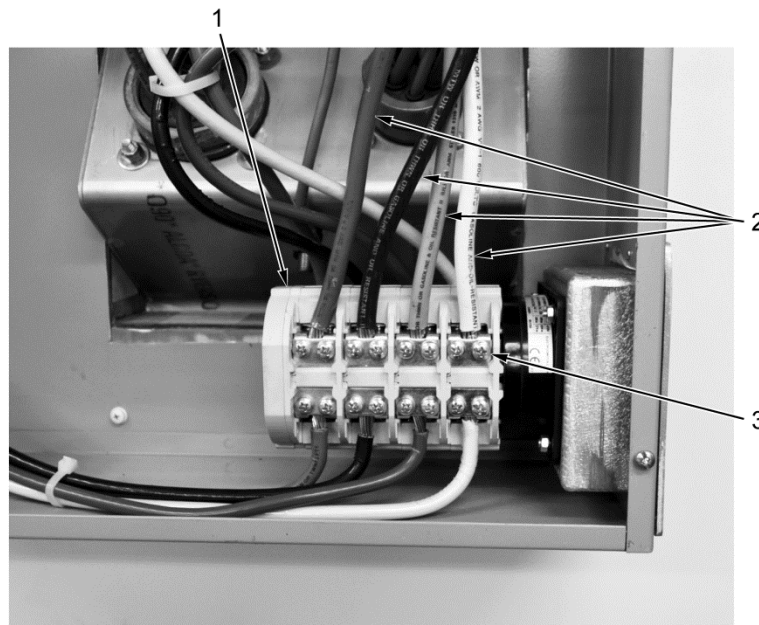
5. Install plate (Figure 7, Item 1) on selector switch (Figure 7, Item 4).
6. Install knob (Figure 7, Item 2) and screw (Figure 7, Item 3) on selector switch (Figure 7, Item 4).



ARSS0303

Figure 7. Selector Switch Knob Installation.

7. Connect four wires (Figure 8, Item 2) to selector switch (Figure 8, Item 1) and tighten eight screws (Figure 8, Item 3).



ARSS0302

Figure 8. Upper Wire Connection.

INSTALLATION - Continued

8. Install work room pull box cover (Figure 9, Item 1) on work room pull box (Figure 9, Item 2) and tighten four screws (Figure 9, Item 3).

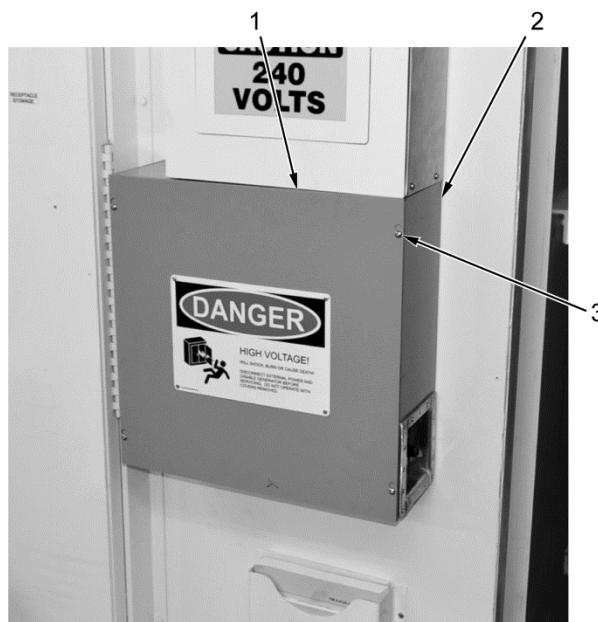


Figure 9. Work Room Pull Box Cover Installation.

ARSS0301

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
MECHANICAL ROOM ELECTRICAL BOX REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 4 (WP 0100, Item 22)

References

FO-1

FO-2

Personnel Required

Wheeled Vehicle Mechanic - 91B

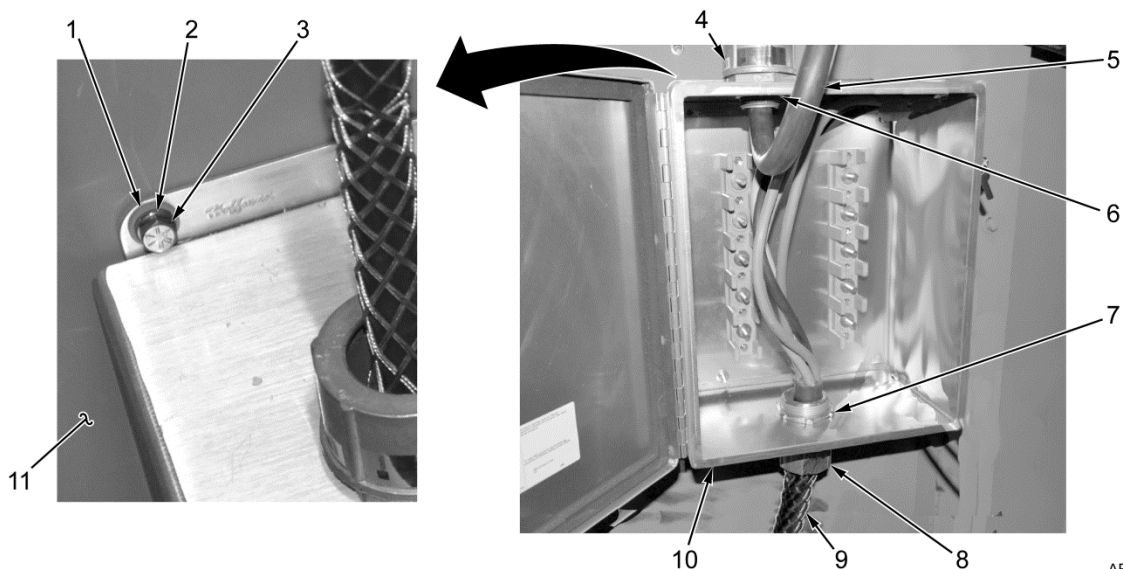
Equipment Condition

Electrical box conduit removed (WP 0054)

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

1. Remove nut (Figure 1, Item 6), cord grip (Figure 1, Item 4), and ECU cable (Figure 1, Item 5) from mechanical room electrical box (Figure 1, Item 10).
2. Remove nut (Figure 1, Item 7), cord grip (Figure 1, Item 8), and generator cable (Figure 1, Item 9) from mechanical room electrical box (Figure 1, Item 10).
3. Remove four bolts (Figure 1, Item 3), lockwashers (Figure 1, Item 2), flat washers (Figure 1, Item 1), and mechanical room electrical box (Figure 1, Item 10) from shelter wall (Figure 1, Item 11). Discard lockwashers.



ARSS0217

Figure 1. Mechanical Room Electrical Box Removal.

END OF TASK

INSTALLATION

1. Install mechanical room electrical box (Figure 2, Item 10), four flat washers (Figure 2, Item 1), new lockwashers (Figure 2, Item 2), and bolts (Figure 2, Item 3) on shelter wall (Figure 2, Item 11).
2. Install generator cable (Figure 2, Item 9), cord grip (Figure 2, Item 8), and nut (Figure 2, Item 7) in mechanical room electrical box (Figure 2, Item 10).
3. Install ECU cable (Figure 2, Item 5), cord grip (Figure 2, Item 4), and nut (Figure 2, Item 6) in mechanical room electrical box (Figure 2, Item 10).

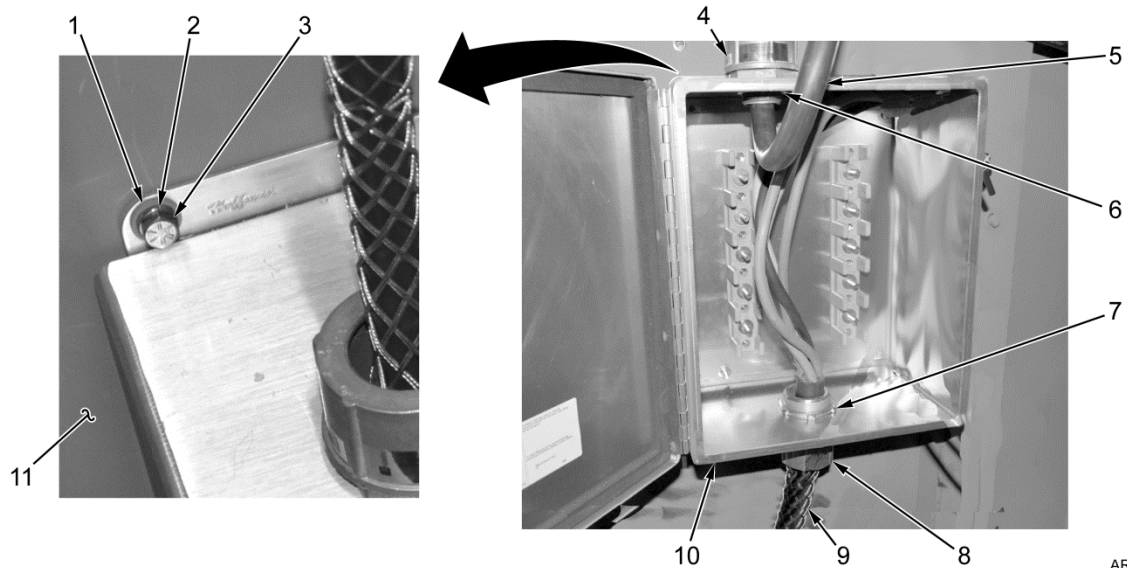


Figure 2. Mechanical Room Electrical Box Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install electrical box conduit (WP 0054).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
ELECTRICAL BOX CONDUIT REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Tie, Cable (WP 0123, Item 10)
Washer, Lock Qty: 2 (WP 0100, Item 22)

References

FO-1
FO-2

Personnel Required

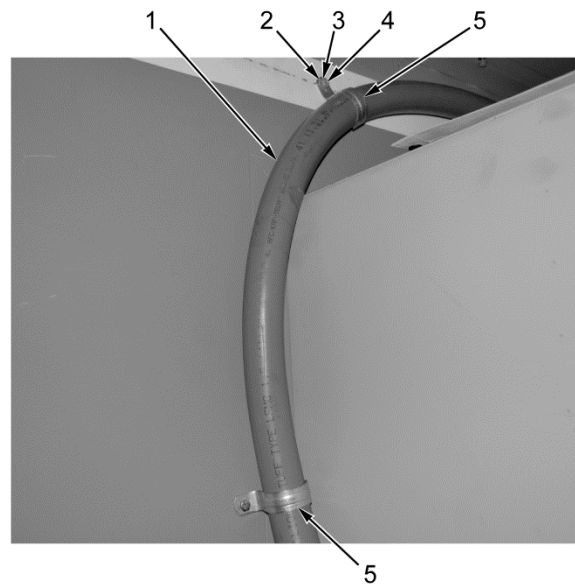
Wheeled Vehicle Mechanic - 91B

Equipment Condition

Storage rack removed (WP 0039)
Generator extended (WP 0010)

REMOVAL

1. Remove two bolts (Figure 1, Item 4), lockwashers (Figure 1, Item 3), flat washers (Figure 1, Item 2), and clamps (Figure 1, Item 5) from electrical box conduit (Figure 1, Item 1). Discard lockwashers.



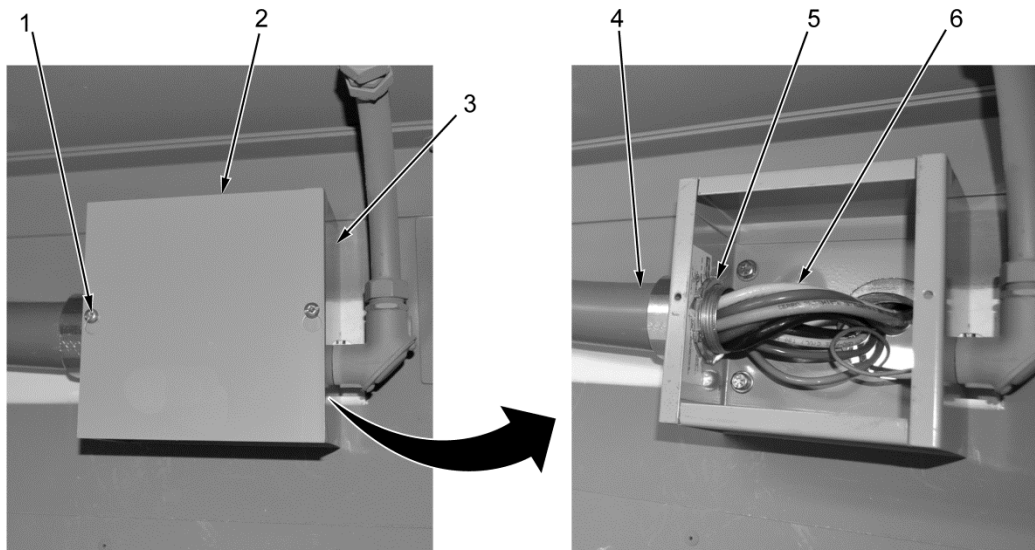
ARSS0206

Figure 1. Clamp Removal.

REMOVAL - Continued**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

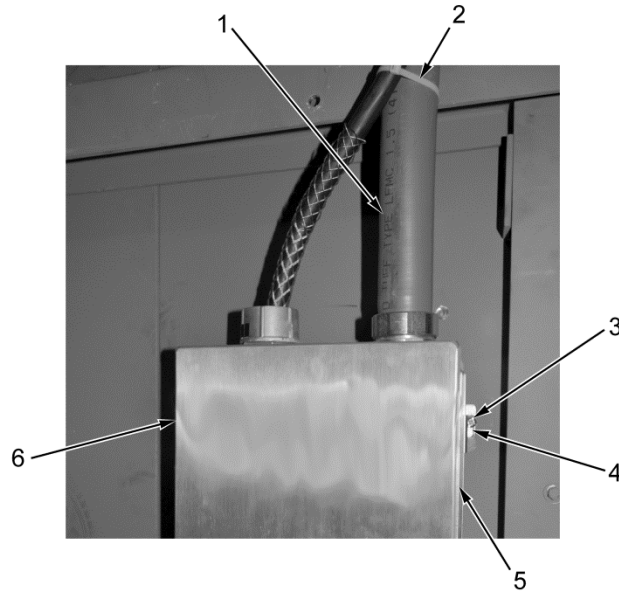
2. Loosen two screws (Figure 2, Item 1) and remove mechanical room pull box cover (Figure 2, Item 2) from mechanical room pull box (Figure 2, Item 3).
3. Remove retaining nut (Figure 2, Item 5) from electrical box conduit (Figure 2, Item 4) and slide back on wires (Figure 2, Item 6).



ARSS0207

Figure 2. Electrical Box Conduit End Removal.

4. Remove cable tie (Figure 3, Item 2) from electrical box conduit (Figure 3, Item 1). Discard cable tie.
5. Loosen two screws (Figure 3, Item 3), rotate two tabs (Figure 3, Item 4) and open mechanical room electrical box cover (Figure 3, Item 6) on mechanical room electrical box (Figure 3, Item 5).

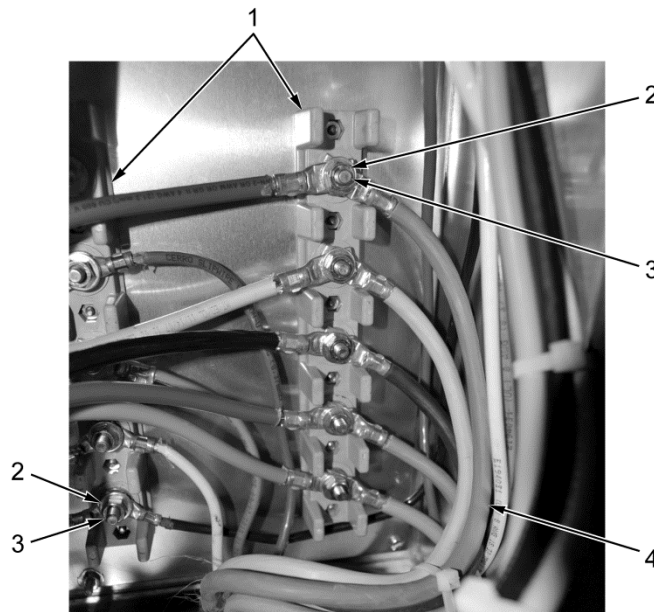
REMOVAL - Continued

ARSS0208

Figure 3. Mechanical Room Electrical Box Cover Removal.

NOTE

- Mark or tag all wires prior to removal to aid in installation.
 - Remove cable ties as required for removal of wires.
6. Remove nine nuts (Figure 4, Item 3), flat washers (Figure 4, Item 2) and 18 wires (Figure 4, Item 4) from two terminal boards (Figure 4, Item 1).

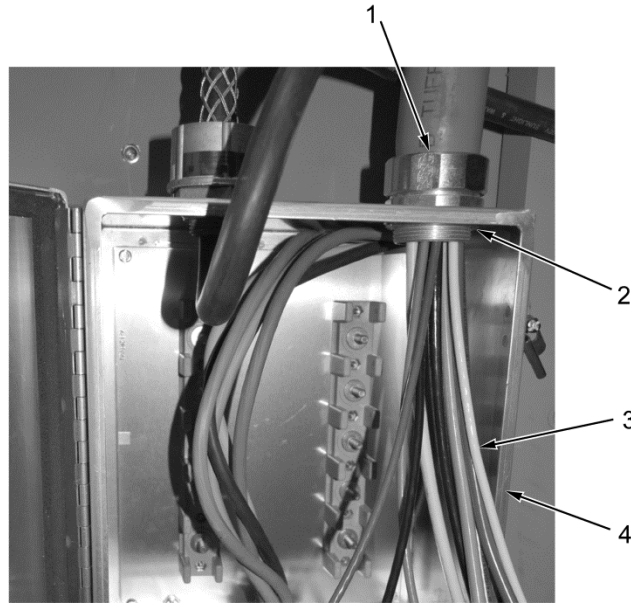


ARSS0209

Figure 4. Electrical Box Wiring Removal.

REMOVAL - Continued

7. Remove retaining nut (Figure 5, Item 2) from electrical box conduit (Figure 5, Item 1).
8. Remove electrical box conduit (Figure 5, Item 2) from mechanical room electrical box (Figure 5, Item 4) while routing wires (Figure 5, Item 3) out.
9. Remove wires (Figure 5, Item 3) from electrical box conduit (Figure 5, Item 1).

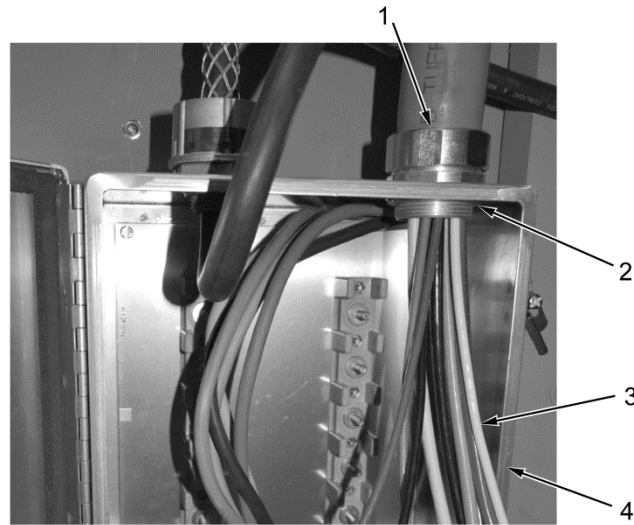


ARSS0210

Figure 5. Electrical Box Conduit Removal.

END OF TASK**INSTALLATION**

1. Guide wires (Figure 6, Item 3) through electrical box conduit (Figure 6, Item 1) and into mechanical room electrical box (Figure 6, Item 4) and install on mechanical room electrical box.
2. Install retaining nut (Figure 6, Item 2) on electrical box conduit (Figure 6, Item 1).

INSTALLATION - Continued

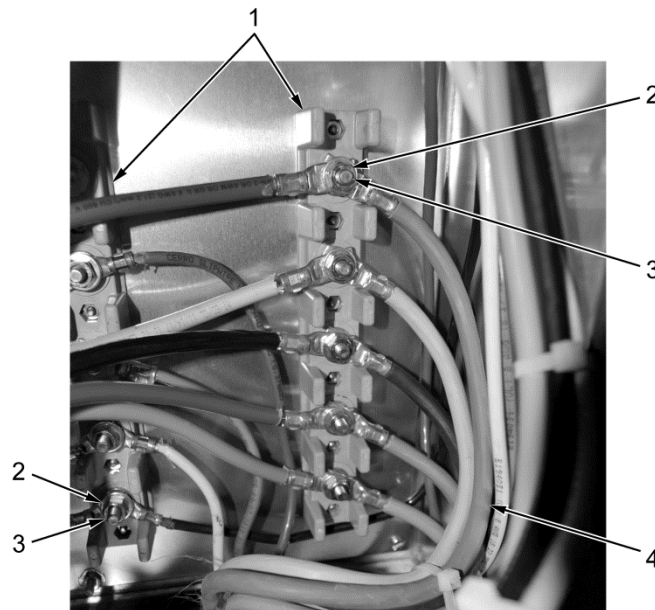
ARSS0211

Figure 6. Electrical Box Conduit Installation.

NOTE

Install new cable ties securing wires together.

3. Install 18 wires (Figure 7, Item 4), nine flat washers (Figure 7, Item 2), and nuts (Figure 7, Item 3) on two terminal boards (Figure 7, Item 1).

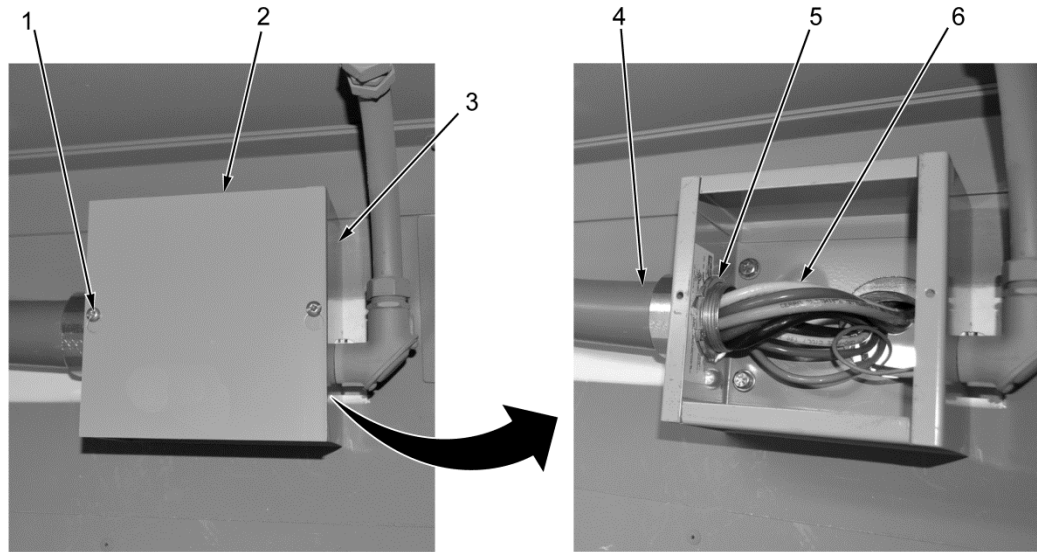


ARSS0213

Figure 7. Electrical Box Wiring Installation.

INSTALLATION - Continued

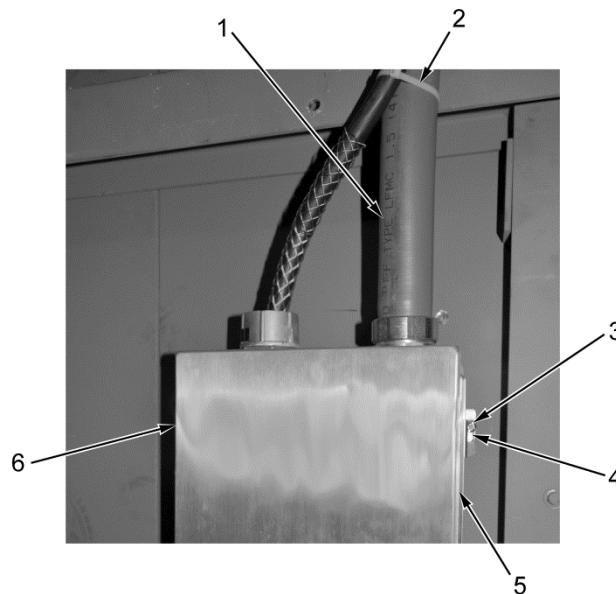
4. Install electrical box conduit (Figure 8, Item 4) in mechanical room pull box (Figure 8, Item 2) and install retaining nut (Figure 8, Item 5) over wires (Figure 8, Item 6) and on electrical box conduit.
5. Install mechanical room pull box cover (Figure 8, Item 2) on mechanical room pull box (Figure 8, Item 3) and tighten two screws (Figure 8, Item 1).



ARSS0215

Figure 8. Electrical Box Conduit End Installation.

6. Close mechanical room electrical box cover (Figure 9, Item 6) on mechanical room electrical box (Figure 9, Item 5) and secure by rotating two tabs (Figure 9, Item 4) and tightening screws (Figure 9, Item 3).
7. Install new cable tie (Figure 9, Item 2) on electrical box conduit (Figure 9, Item 1).

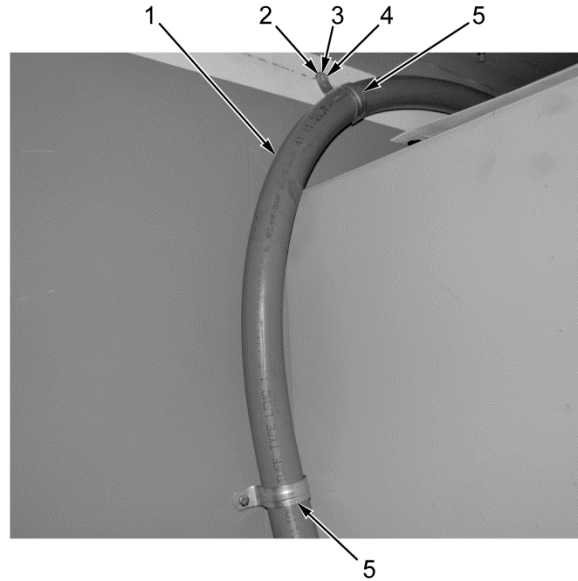


ARSS0214

Figure 9. Mechanical Room Electrical Box Cover Installation.

INSTALLATION - Continued

8. Install two clamps (Figure 10, Item 5), flat washers (Figure 10, Item 2), new lockwashers (Figure 10, Item 3), and bolts (Figure 10, Item 4) on electrical box conduit (Figure 10, Item 1).



ARSS0212

Figure 10. Clamp Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

1. Retract generator (WP 0010).
2. Install storage rack (WP 0039).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
MECHANICAL ROOM PULL BOX REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 4 (WP 0100, Item 22)

Equipment Condition

Mechanical room EMT conduit removed
(WP 0043)

Electrical box conduit removed (WP 0054)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

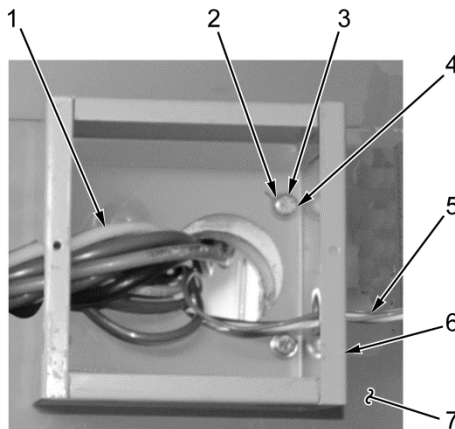
NOTE

Note location and direction of wires for aid in installation.

1. Remove four bolts (Figure 1, Item 2), lockwashers (Figure 1, Item 3), and flat washers (Figure 1, Item 4) from mechanical room pull box (Figure 1, Item 6). Discard lockwashers.
2. Guide wires (Figure 1, Items 1 and 5) through mechanical room pull box and remove from shelter wall (Figure 1, Item 7).

END OF TASK**INSTALLATION**

1. Guide wires (Figure 1, Items 1 and 5) through mechanical room pull box and install on shelter wall (Figure 1, Item 7).
2. Secure mechanical room pull box (Figure 1, Item 6) with four flat washers (Figure 1, Item 4), new lockwashers (Figure 1, Item 3) and bolts (Figure 1, Item 2).



ARSS0216

Figure 1. Mechanical Room Pull Box Replacement.

END OF TASK

FOLLOW-ON MAINTENANCE

1. Install electrical box conduit (WP 0054).
2. Install mechanical room EMT conduit (WP 0043).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
WORK ROOM PULL BOX REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 4 (WP 0100, Item 17)

Equipment Condition

Selector switch removed (WP 0052)

WARNING

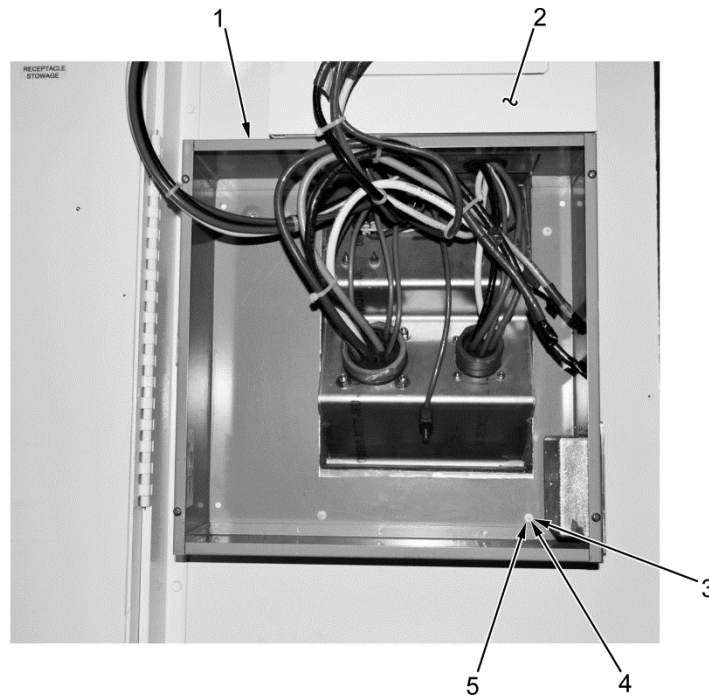
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

REMOVAL

Remove four screws (Figure 1, Item 3), washers (Figure 1, Item 5), lockwashers (Figure 1, Item 4) and work room pull box (Figure 1, Item 1) from shelter wall (Figure 1, Item 2). Discard lockwashers.

END OF TASK**INSTALLATION**

Install work room pull box (Figure 1, Item 1), four new lockwashers (Figure 1, Item 4), washers (Figure 1, Item 5), and screws (Figure 1, Item 3) on shelter wall (Figure 1, Item 2).



ARSS0300

Figure 1. Work Room Pull Box.

END OF TASK**FOLLOW-ON TASK**

Install selector switch (WP 0052).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
RACEWAY REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

WP 0050
WP 0090

Materials/Parts

Blind, Rivet Qty: 40 (WP 0101, Item 19)

Equipment Condition

ARSS setup for operation (WP 0006)
ARSS power OFF (WP 0009)

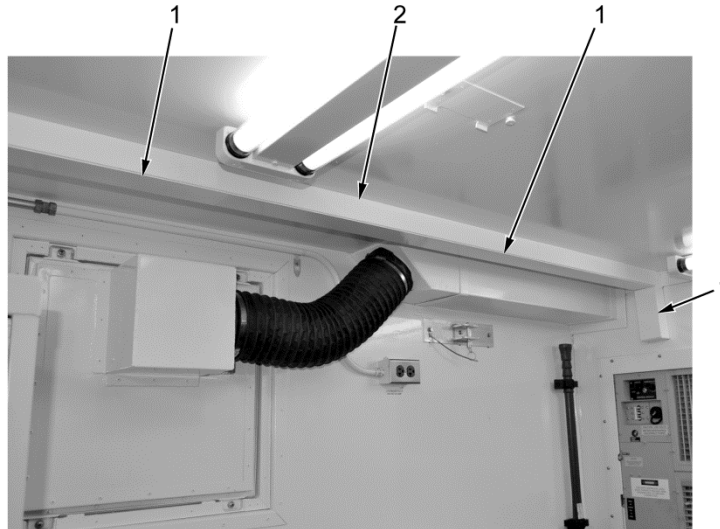
WARNING

Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning may result in injury or death.

MAIN RACEWAY BASE REPLACEMENT

Removal

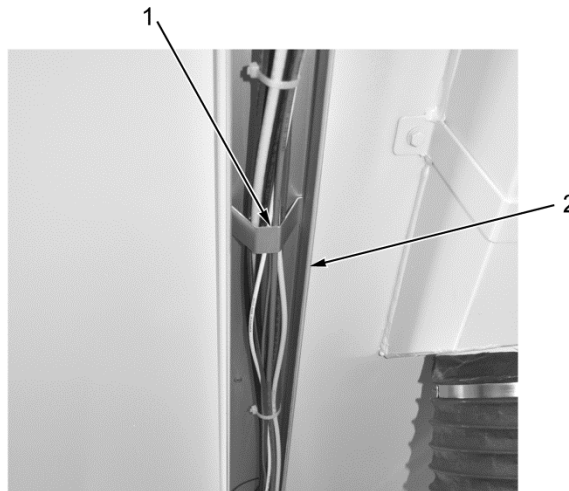
1. Remove smoke alarm junction box and conduit (WP 0050).
2. Remove three raceway covers (Figure 1, Item 1) from raceway base (Figure 1, Item 2).



ARSS0231

Figure 1. Raceway Covers Removal.

3. Remove four wire clips (Figure 2, Item 1) from raceway base (Figure 2, Item 2).



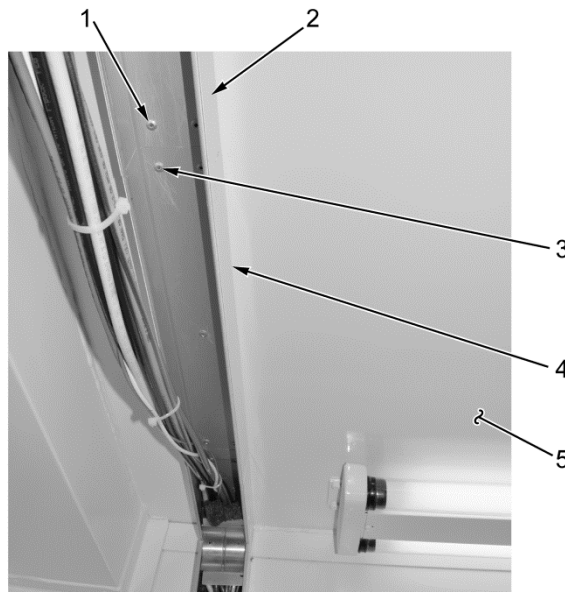
ARSS0232

Figure 2. Wire Clip Removal.

MAIN RACEWAY BASE REPLACEMENT - Continued**Removal - Continued****NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

4. Remove five rivets (Figure 3, Item 3) and short raceway base (Figure 3, Item 4) from shelter ceiling (Figure 3, Item 5). Discard rivets.
5. With assistance, remove 16 rivets (Figure 3, Item 1) and long raceway base (Figure 3, Item 2) from shelter ceiling (Figure 3, Item 5). Discard rivets.



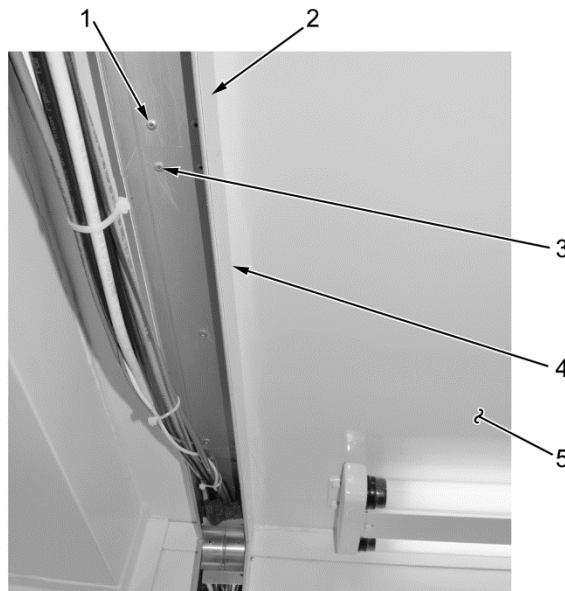
ARSS0233

Figure 3. Raceway Base Removal.

END OF TASK

MAIN RACEWAY BASE REPLACEMENT - Continued**Installation**

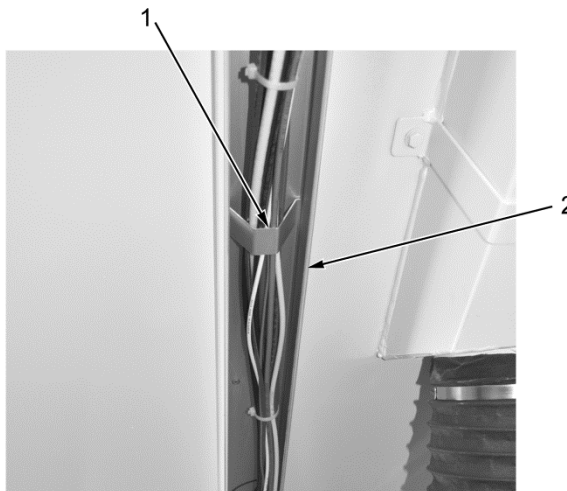
1. With assistance, install long raceway base (Figure 4, Item 2) and 16 new rivets (Figure 4, Item 1) on shelter ceiling (Figure 4, Item 5).
2. Install short raceway base (Figure 4, Item 4) and five new rivets (Figure 4, Item 3) on shelter ceiling (Figure 4, Item 5).



ARSS0234

Figure 4. Raceway Base Installation.

3. Install four wire clips (Figure 5, Item 1) on raceway base (Figure 5, Item 2).



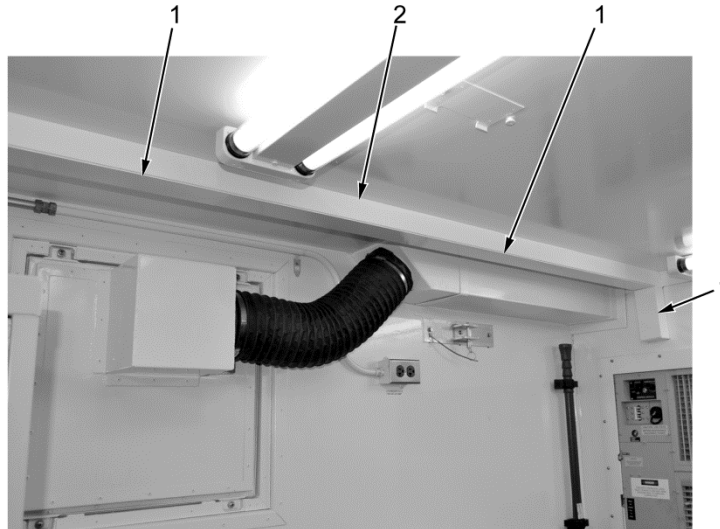
ARSS0235

Figure 5. Wire Clip Installation.

MAIN RACEWAY BASE REPLACEMENT - Continued**Installation - Continued****CAUTION**

Use caution when installing raceway covers to not pinch or bind the electrical wires.
Failure to follow this caution may result in damage to equipment.

4. Install three raceway covers (Figure 6, Item 1) on raceway base (Figure 6, Item 2).



ARSS0236

Figure 6. Raceway Covers Installation.

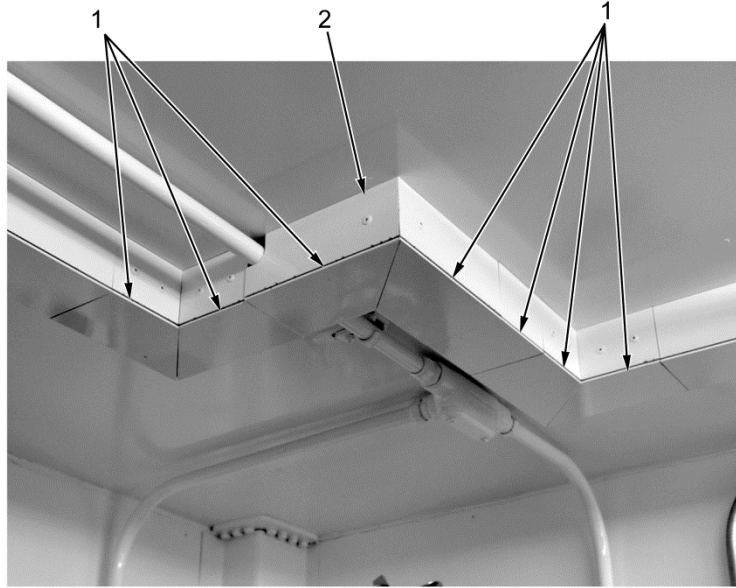
5. Install smoke alarm junction box and conduit (WP 0050).

END OF TASK

FLAT ELBOW RACEWAY BASES REPLACEMENT

Removal

1. Remove seven raceway covers (Figure 7, Item 1) from raceway base (Figure 7, Item 2).



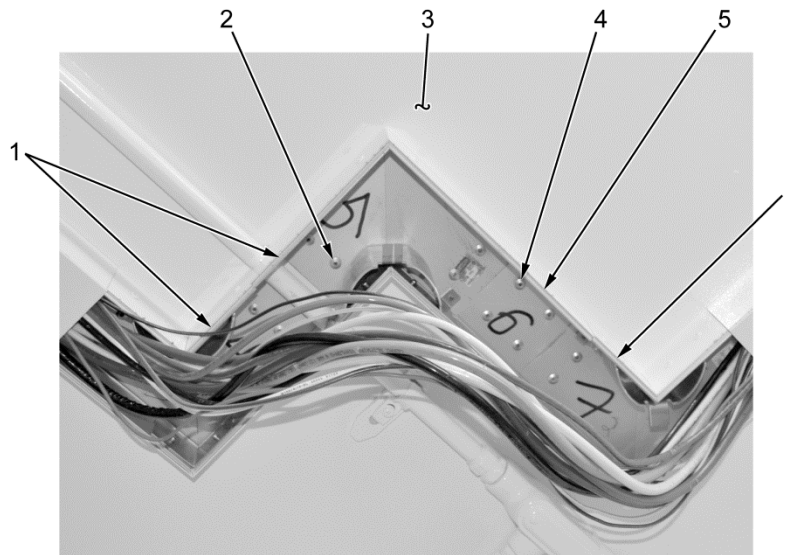
ARSS0237

Figure 7. Raceway Covers Removal.

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

2. Remove four rivets (Figure 8, Item 4) and short raceway base (Figure 8, Item 5) from shelter ceiling (Figure 8, Item 3). Discard rivets.
3. Remove 12 rivets (Figure 8, Item 2) and three flat elbow raceway bases (Figure 8, Item 1) from shelter ceiling (Figure 8, Item 3). Discard rivets.

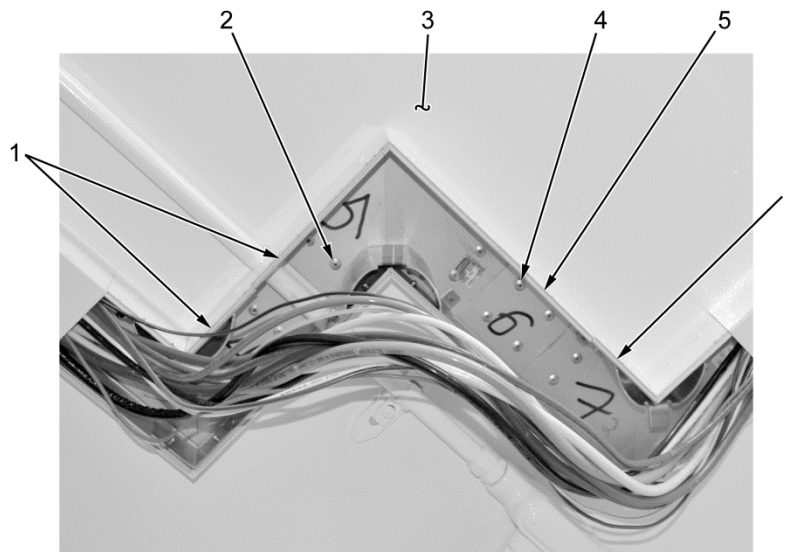
FLAT ELBOW RACEWAY BASES REPLACEMENT - Continued**Removal - Continued**

ARSS0238

Figure 8. Short Raceway Base and Flat Elbow Raceway Bases Removal.

END OF TASK**Installation**

1. Install three flat elbow raceway bases (Figure 9, Item 1) and 12 new rivets (Figure 9, Item 2) on shelter ceiling (Figure 9, Item 3).
2. Install short raceway base (Figure 9, Item 5) and four new rivets (Figure 9, Item 4) on shelter ceiling (Figure 9, Item 3).



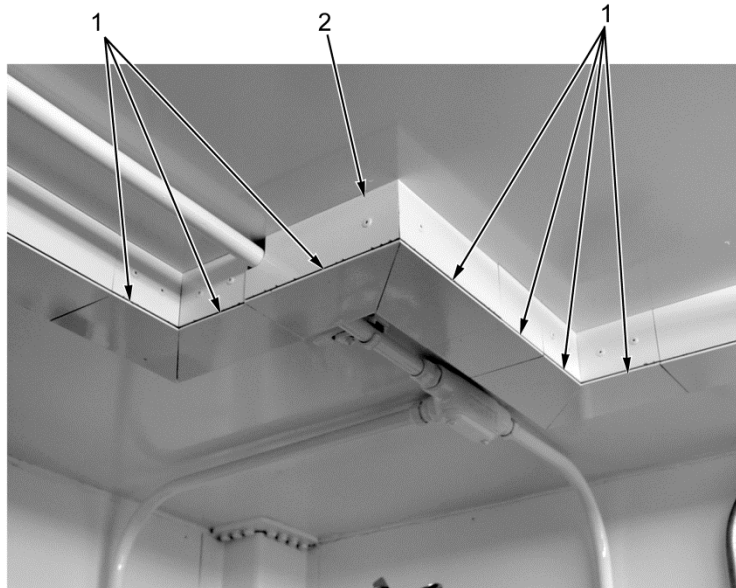
ARSS0239

Figure 9. Short Raceway Base and Flat Elbow Raceway Bases Installation.

FLAT ELBOW RACEWAY BASES REPLACEMENT - Continued**Installation - Continued****CAUTION**

Use caution when installing raceway covers to not pinch or bind the electrical wires.
Failure to follow this caution may result in damage to equipment.

3. Install seven raceway covers (Figure 10, Item 1) on raceway base (Figure 10, Item 2).



ARSS0240

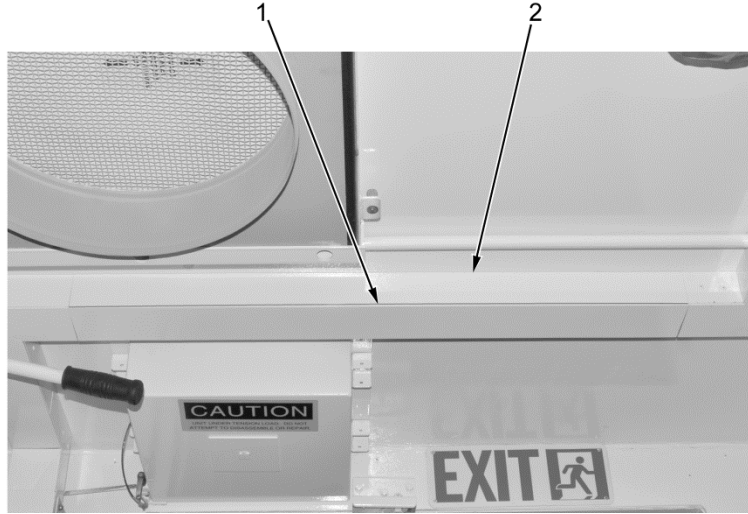
Figure 10. Raceway Covers Installation.

END OF TASK

MIDDLE RACEWAY BASE REPLACEMENT

Removal

1. Remove raceway cover (Figure 11, Item 1) from raceway base (Figure 11, Item 2).



ARSS0241

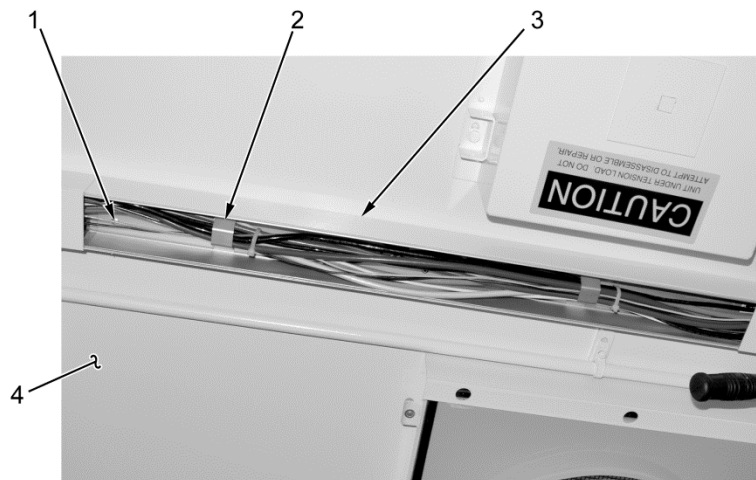
Figure 11. Middle Raceway Cover Removal.

2. Remove two wire clips (Figure 12, Item 2) from raceway base (Figure 12, Item 3).

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

3. Remove six rivets (Figure 12, Item 1) and middle raceway base (Figure 12, Item 3) from shelter ceiling (Figure 12, Item 4). Discard rivets.



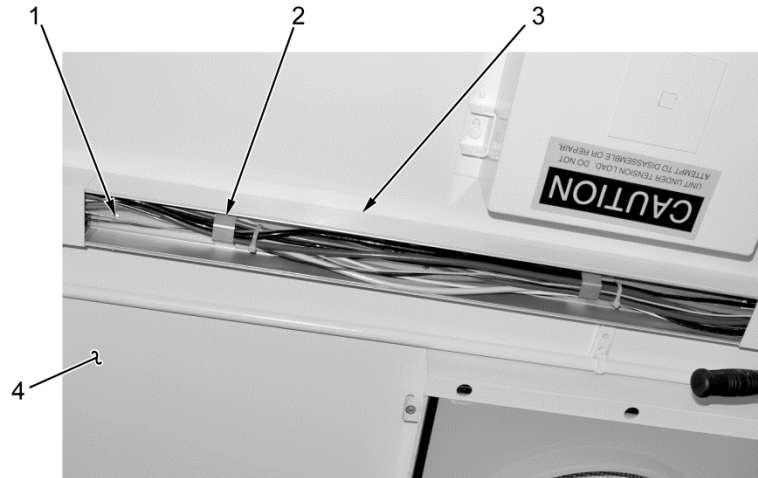
ARSS0242

Figure 12. Middle Raceway Base Removal.

END OF TASK

MIDDLE RACEWAY BASE REPLACEMENT - Continued**Installation**

1. Install middle raceway base (Figure 13, Item 3) and six new rivets (Figure 13, Item 1) on shelter ceiling (Figure 13, Item 4).
2. Install two wire clips (Figure 13, Item 2) on raceway base (Figure 13, Item 3).



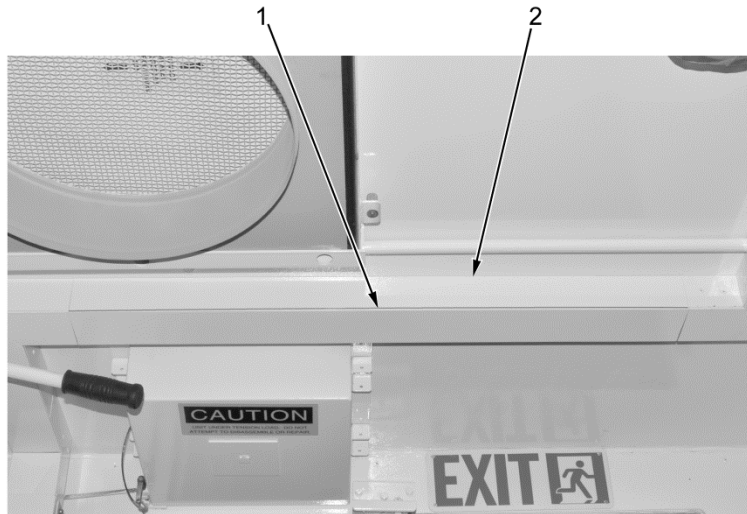
ARSS0243

Figure 13. Middle Raceway Base Installation

CAUTION

Use caution when installing raceway covers to not pinch or bind the electrical wires. Failure to follow this caution may result in damage to equipment.

3. Install raceway cover (Figure 14, Item 1) on raceway base (Figure 14, Item 2).



ARSS0244

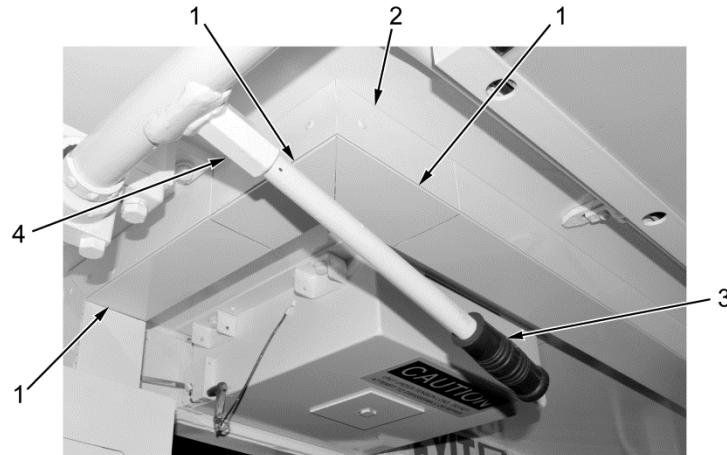
Figure 14. Middle Raceway Cover Installation.

END OF TASK

FLAT ELBOW RACEWAY BASE REPLACEMENT

Removal

1. Remove solar bar handle (Figure 15, Item 3) from solar bar shaft (Figure 15, Item 4).
2. Remove three raceway covers (Figure 15, Item 1) from raceway base (Figure 15, Item 2).



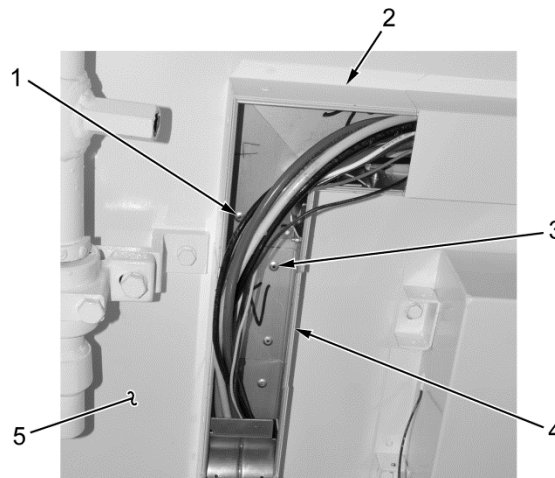
ARSS0245

Figure 15. Flat Elbow Raceway Base Covers Removal.

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

3. Remove four rivets (Figure 16, Item 3) and short raceway base (Figure 16, Item 4) from shelter ceiling (Figure 16, Item 5). Discard rivets.
4. Remove four rivets (Figure 16, Item 1) and flat elbow raceway base (Figure 16, Item 2) from shelter ceiling (Figure 16, Item 5). Discard rivets.



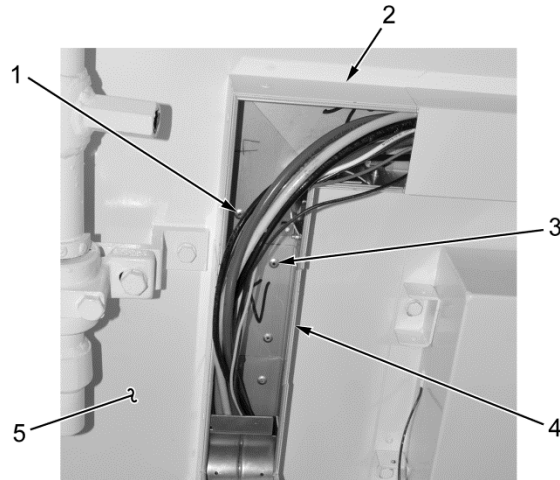
ARSS0246

Figure 16. Short Raceway Base and Flat Elbow Raceway Base Removal.

END OF TASK

FLAT ELBOW RACEWAY BASE REPLACEMENT - Continued**Installation**

1. Install flat elbow raceway base (Figure 17, Item 2) and four new rivets (Figure 17, Item 1) on shelter ceiling (Figure 17, Item 5).
2. Install short raceway base (Figure 17, Item 4) and four new rivets (Figure 17, Item 3) on shelter ceiling (Figure 17, Item 5).



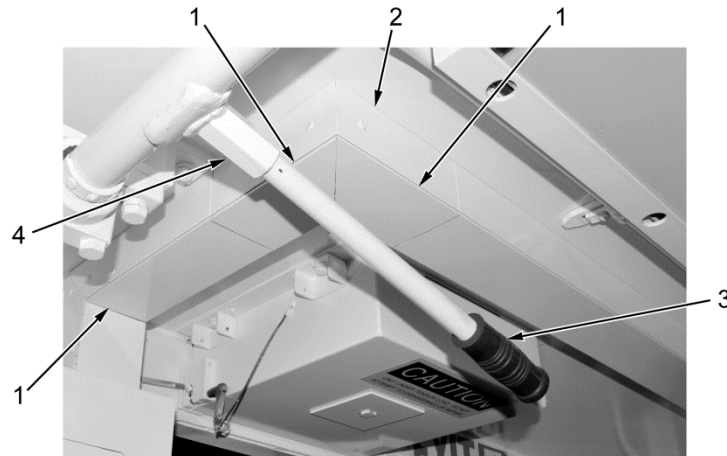
ARSS0247

Figure 17. Short Raceway Base and Flat Elbow Raceway Base Installation.

FLAT ELBOW RACEWAY BASE REPLACEMENT - Continued**Installation - Continued****CAUTION**

Use caution when installing raceway covers to not pinch or bind the electrical wires.
Failure to follow this caution may result in damage to equipment.

3. Install three raceway covers (Figure 18, Item 1) on raceway base (Figure 18, Item 2).
4. Install solar bar handle (Figure 18, Item 3) on solar bar shaft (Figure 18, Item 4).



ARSS0248

Figure 18. Flat Elbow Raceway Base Covers Installation.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
MODIFIED CLOSEOUT PANEL REPAIR**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Glove, Patient Examining (WP 0123, Item 2)
Goggles, Safety (WP 0122, Item 27)

Materials/Parts (cont.)

Rivet, Blind Qty: 12 (WP 0102, Item 3)
Sealing Compound (WP 0123, Item 5)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

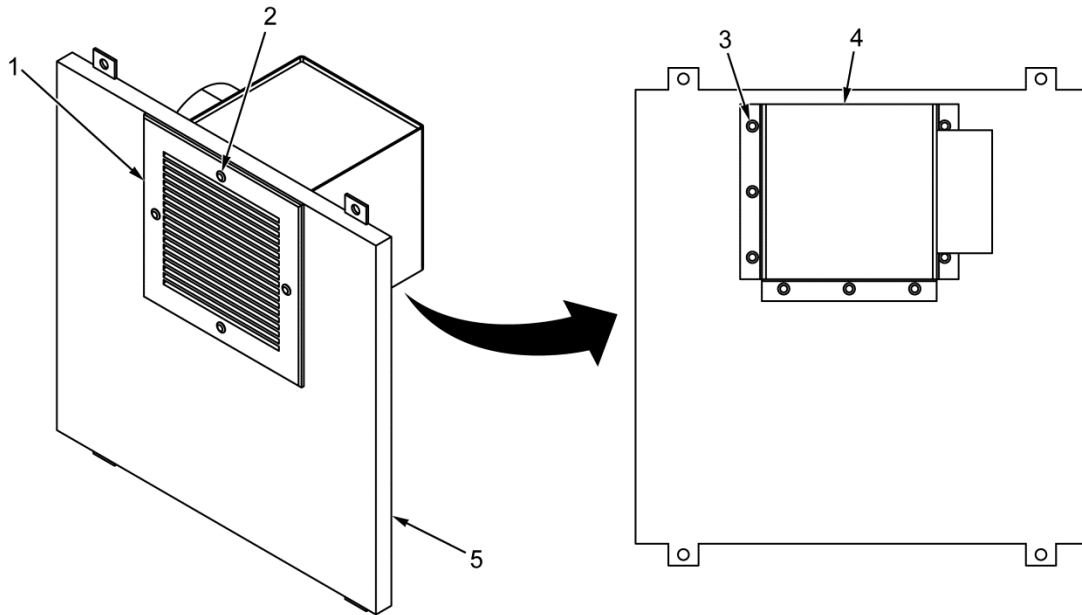
Equipment Condition

ARSS setup for operation (WP 0006)

DISASSEMBLY**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Remove eight rivets (Figure 1, Item 3) and vent weldment (Figure 1, Item 4) from panel (Figure 1, Item 5). Discard rivets.
2. Remove four rivets (Figure 1, Item 2) and vent (Figure 1, Item 1) from panel (Figure 1, Item 5). Discard rivets.



ARSS0037

Figure 1. Panel Disassembly.

END OF TASK

ASSEMBLY**NOTE**

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Install vent (Figure 2, Item 1) and four new rivets (Figure 2, Item 2) on panel (Figure 2, Item 5).
2. Install vent weldment (Figure 2, Item 4) and eight new rivets (Figure 2, Item 3) on panel (Figure 2, Item 5).

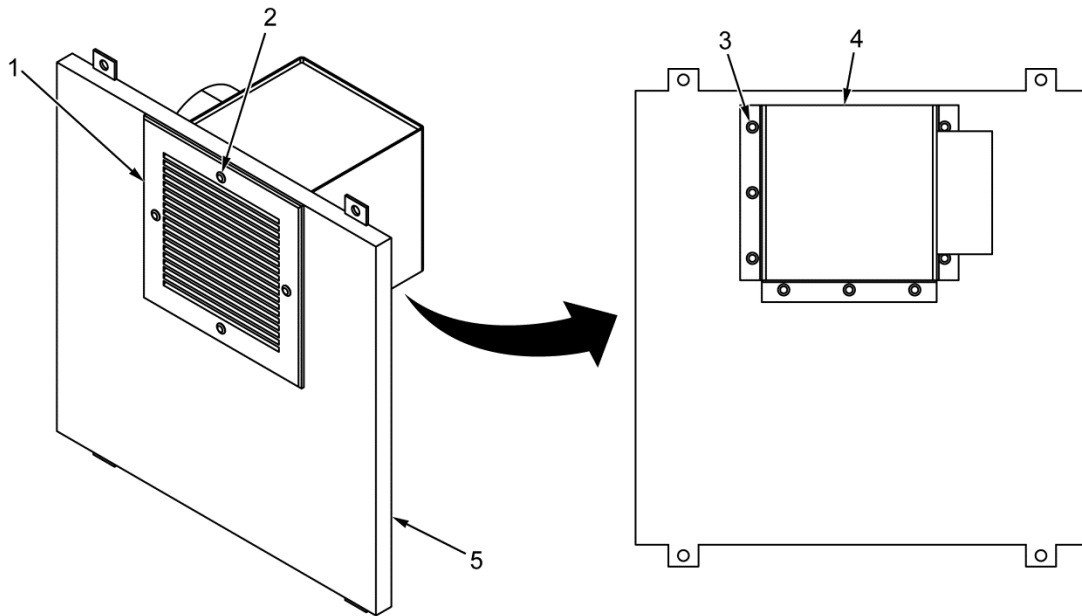
WARNING

Sealing compound causes immediate bonding on contact with eyes, skin, or clothing and also gives off harmful vapors. Wear protective goggles and gloves and use in well-ventilated area. If sealant gets in eyes, try to keep eyes open. Flush eyes with water for 15 minutes and get immediate medical attention. Failure to follow this warning may cause injury or death.

NOTE

Allow 1 hour for sealing compound to dry.

3. Apply sealing compound around vent (Figure 2, Item 1) and vent weldment (Figure 2, Item 4).



ARSS0038

Figure 2. Panel Assembly.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
ECU CUTOUT FRAME REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124, Item 14)
Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Rivet, Blind Qty: 17 (WP 0103, Item 1)

Materials/Parts (cont.)

Washer, Lock Qty: 2 (WP 0100, Item 22)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

ECU removed (WP 0026)

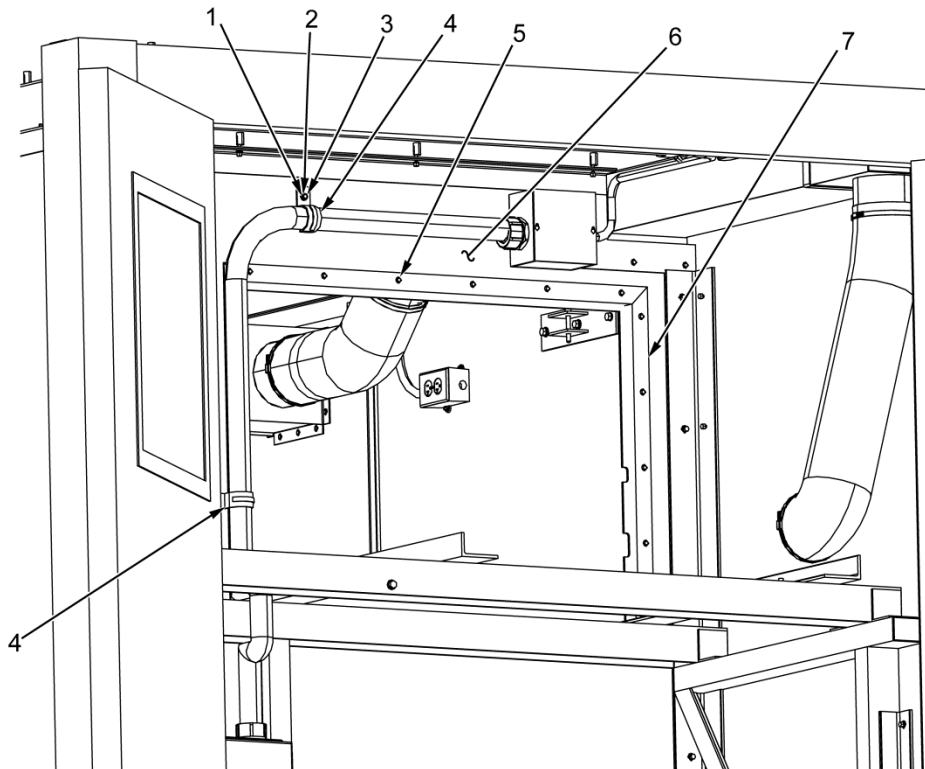
REMOVAL

1. Remove two bolts (Figure 1, Item 1), lockwashers (Figure 1, Item 2), flat washers (Figure 1, Item 3), and clamps (Figure 1, Item 4) from shelter wall (Figure 1, Item 6). Discard lockwashers.

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

2. Remove 17 rivets (Figure 1, Item 5) and ECU cutout frame (Figure 1, Item 7) from shelter wall (Figure 1, Item 6). Discard rivets.



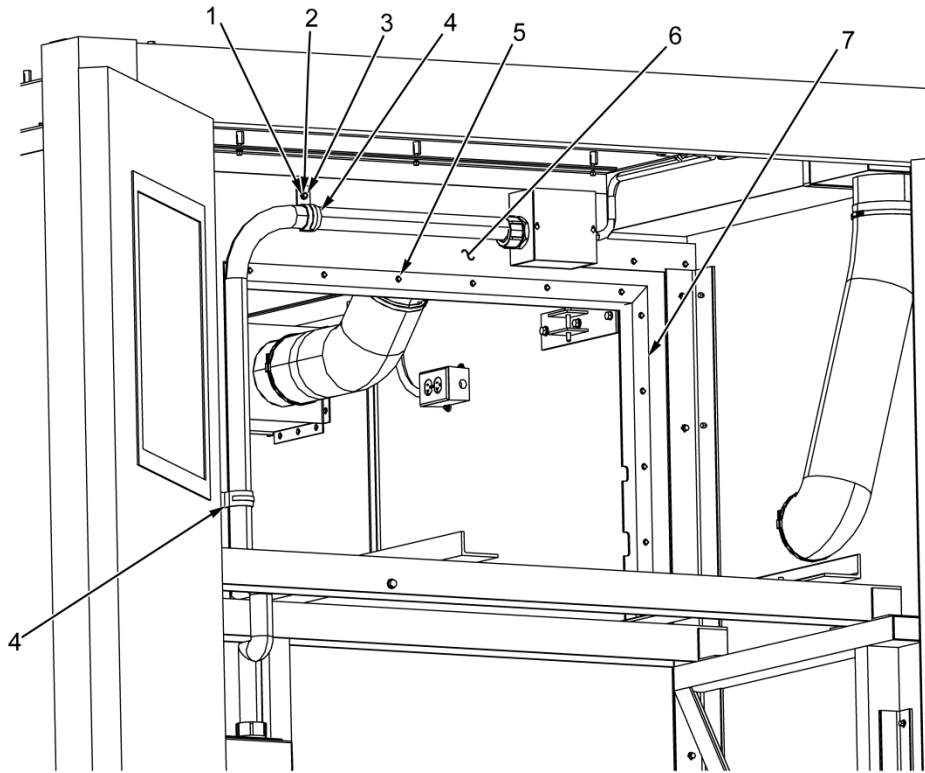
ARSS0130

Figure 1. ECU Cutout Frame Removal.

END OF TASK

INSTALLATION

1. Install ECU cutout frame (Figure 2, Item 7) and 17 new rivets (Figure 2, Item 5) on shelter wall (Figure 2, Item 6).
2. Install two clamps (Figure 2, Item 4), flat washers (Figure 2, Item 3), new lockwashers (Figure 2, Item 2), and bolts (Figure 2, Item 1) on shelter wall (Figure 2, Item 6).



ARSS0129

Figure 2. ECU Cutout Frame Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install ECU (WP 0026).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE ECU WELDMENT REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 19 (WP 0103, Item 12)

Equipment Condition

ARSS setup for operation (WP 0006)

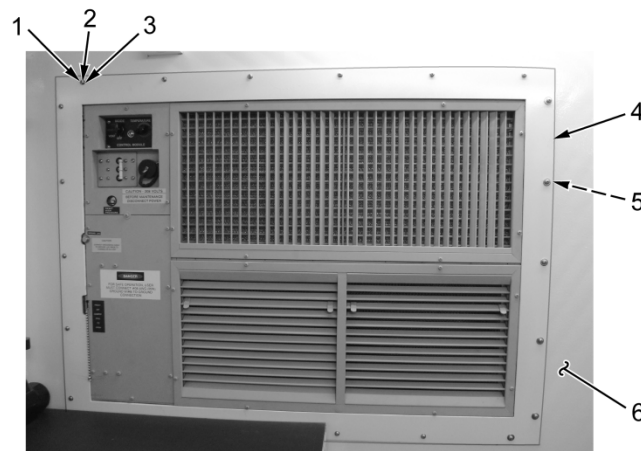
REMOVAL

Remove 19 screws (Figure 1, Item 1), lockwashers (Figure 1, Item 2), flat washers (Figure 1, Item 3), ECU weldment (Figure 1, Item 4), and gasket (Figure 1, Item 5) from shelter wall (Figure 1, Item 6). Discard lockwashers.

END OF TASK

INSTALLATION

Install gasket (Figure 1, Item 5), ECU weldment (Figure 1, Item 4), and 19 flat washers (Figure 1, Item 3), new lockwashers (Figure 1, Item 2), and screws (Figure 1, Item 1) on shelter wall (Figure 1, Item 6).



ARSS0055

Figure 1. ECU Weldment Replacement.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
SINGLE ENTRY PANEL (SEP) ASSEMBLY REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Equipment Condition

ARSS setup for operation (WP 0006)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL**WARNING**

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

CAUTION

- Ensure no cables are routed through or connected to SEP.
- Ensure electrical cable is not obstructing replacement of SEP assembly. Cable could get snagged on SEP assembly during replacement. Failure to follow this caution may cause damage to equipment.

Loosen 12 screws (Figure 1, Item 1) and remove SEP assembly (Figure 1, Item 2) from shelter wall (Figure 1, Item 3).

END OF TASK**INSTALLATION**

Install SEP assembly (Figure 1, Item 2) and 12 screws (Figure 1, Item 1) on shelter wall (Figure 1, Item 3).



ARSS0076

Figure 1. SEP Assembly Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE SIGNAL ENTRY PANEL (SEP) REPAIR

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)
 Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
 Bit, Drill 1/8" Part of Drill Set, Twist (WP 0124, Item 2)
 Drill-Driver, Electric, Portable (WP 0124, Item 5)
 Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Rivet, Blind Qty: 18 (WP 0104, Item 8)
 Rivet, Blind Qty: 6 (WP 0104, Item 11)

Materials/Parts (cont.)

Fastener, Tape, Hook Qty: 6 (WP 0104, Item 14)
 Nut, Self-Locking Qty: 4 (WP 0104, Item 3)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Reference

WP 0090

Equipment Condition

ARSS setup for operation (WP 0006)

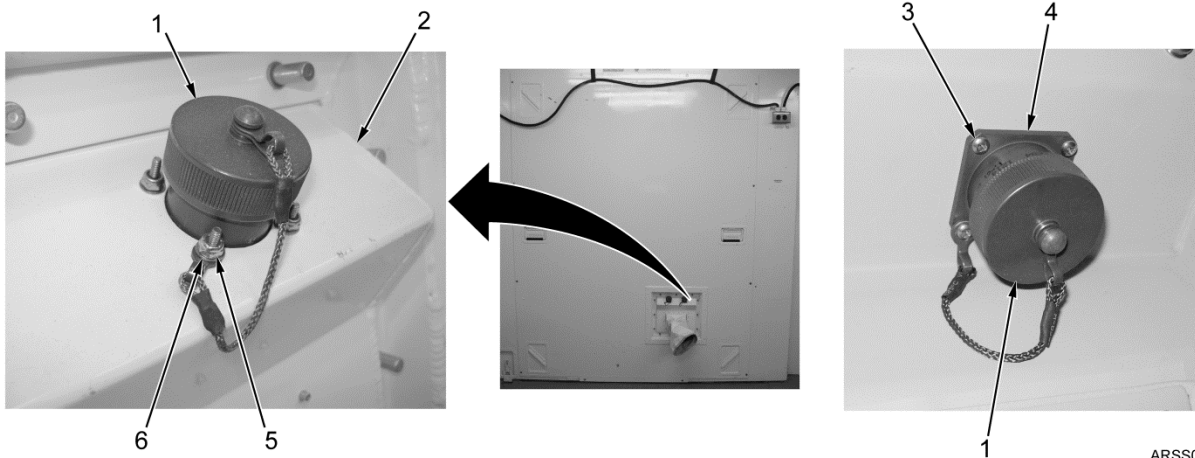
RJ45 POWER CONNECTION

Removal

NOTE

There are two RJ45 power connections on the SEP. The following procedure covers the replacement of one. The remaining one is replaced the same way.

Remove four screws (Figure 1, Item 3), locknuts (Figure 1, Item 5), flat washers (Figure 1, Item 6), two dust covers (Figure 1, Item 1), and RJ45 power connection (Figure 1, Item 4) from SEP (Figure 1, Item 2). Discard locknuts.



ARSS0131

Figure 1. RJ45 Power Connection Removal.

RJ45 POWER CONNECTION - Continued**Installation**

Install RJ45 power connection (Figure 2, Item 4), two dust covers (Figure 2, Item 1), four flat washers (Figure 2, Item 6), new locknuts (Figure 2, Item 5), and screws (Figure 2, Item 3) on SEP (Figure 2, Item 2).

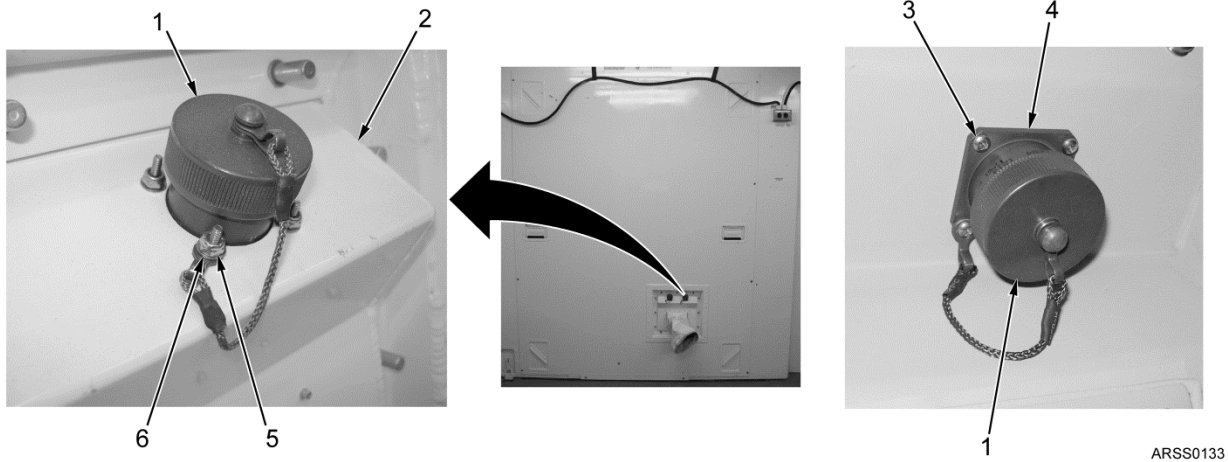


Figure 2. RJ45 Power Connection Installation.

END OF TASK

INTERIOR FABRIC SLEEVE

Removal

NOTE

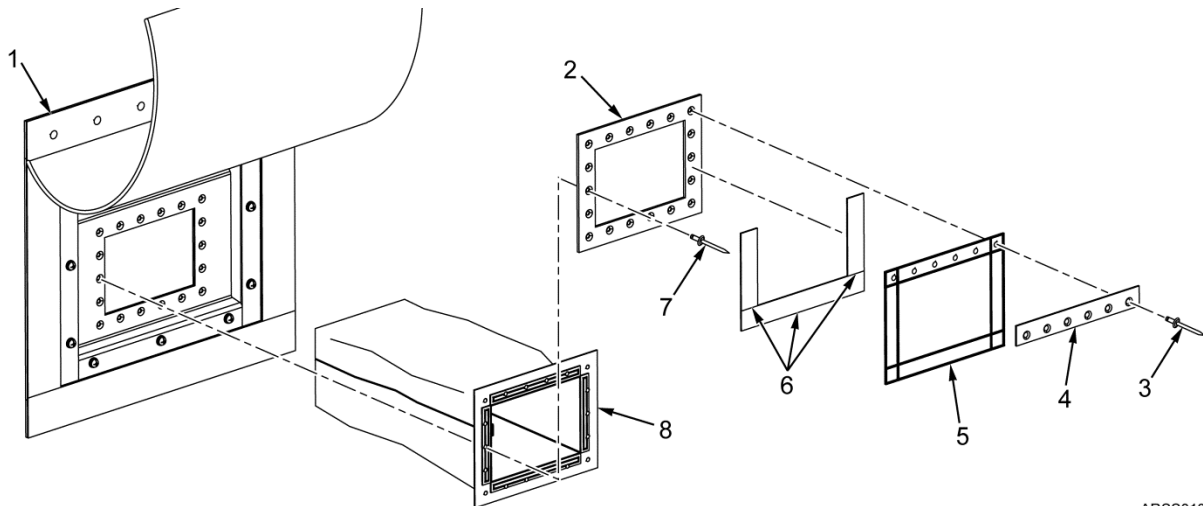
For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Remove six rivets (Figure 3, Item 3), wide bar (Figure 3, Item 4), and small fabric piece (Figure 3, Item 5) from metal flange (Figure 3, Item 2). Discard rivets.
2. Remove three hook and loops (Figure 3, Item 6) from metal flange (Figure 3, Item 2). Discard hook and loops.
3. Remove 12 rivets (Figure 3, Item 7), metal flange (Figure 3, Item 2), and interior fabric sleeve (Figure 3, Item 8) from SEP (Figure 3, Item 1). Discard rivets.

END OF TASK

Installation

1. Install interior fabric sleeve (Figure 3, Item 8), metal flange (Figure 3, Item 2), and 12 new rivets (Figure 3, Item 7) on SEP (Figure 3, Item 1).
2. Install three new hook and loops (Figure 3, Item 6) on metal flange (Figure 3, Item 2).
3. Install small fabric piece (Figure 3, Item 5), wide bar (Figure 3, Item 4), and six new rivets (Figure 3, Item 3) on metal flange (Figure 3, Item 2).



ARSS0132

Figure 3. Interior Fabric Sleeve Replacement.

END OF TASK

EXTERIOR FABRIC SEP COVER

Removal

NOTE

For detailed riveting instructions, refer to General Maintenance (WP 0090).

1. Remove six rivets (Figure 4, Item 2), wide bar (Figure 4, Item 1), and exterior fabric SEP cover (Figure 4, Item 3) from SEP (Figure 4, Item 5). Discard rivets.

NOTE

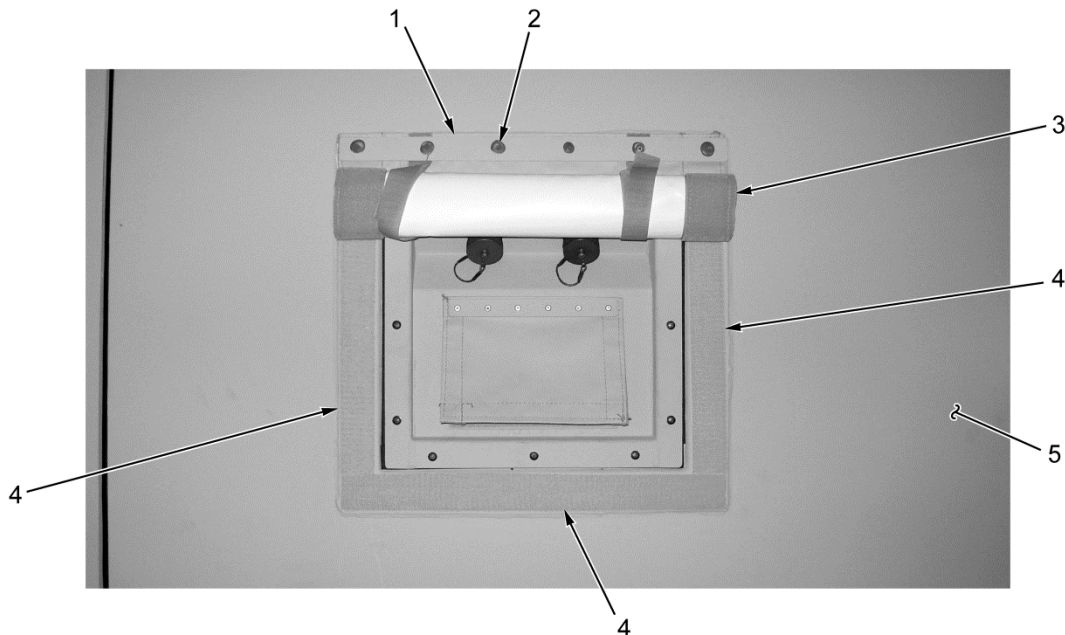
Inspect hook and loops. If damaged, perform Step 2.

2. Remove damaged hook and loops (Figure 4, Item 4) from SEP (Figure 4, Item 5). Discard hook and loop.

END OF TASK

Installation

1. Install new hook and loops (Figure 4, Item 4) on SEP (Figure 4, Item 5) if removed during removal.
2. Install exterior fabric SEP cover (Figure 4, Item 3), wide bar (Figure 4, Item 1), and six new rivets (Figure 4, Item 2) on SEP (Figure 4, Item 5).



ARSS0134

Figure 4. Exterior Fabric SEP Cover.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
RAMP ROLLER REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Nut, Self-Locking (WP 0105, Item 4)

Equipment Condition

ARSS shelter expanded (WP 0005)

REMOVAL**NOTE**

There are eight ramp rollers on the ARSS ramp. The following procedure covers the replacement of one. The remaining seven are replaced the same way.

Remove locknut (Figure 1, Item 2), flat washer (Figure 1, Item 1), bolt (Figure 1, Item 4), and ramp roller (Figure 1, Item 3) from ramp (Figure 1, Item 5). Discard locknut.

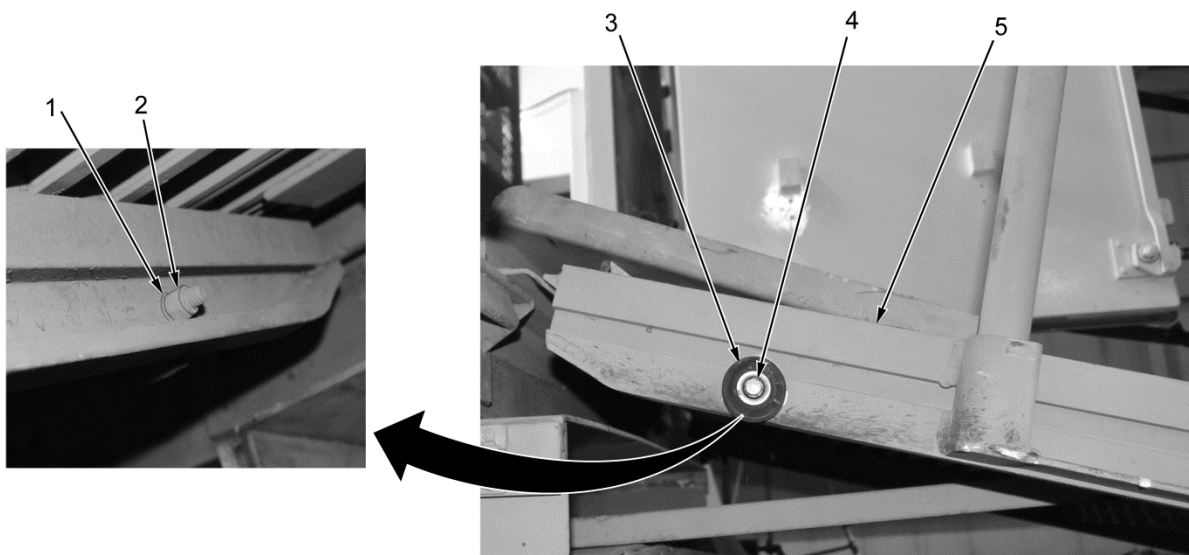
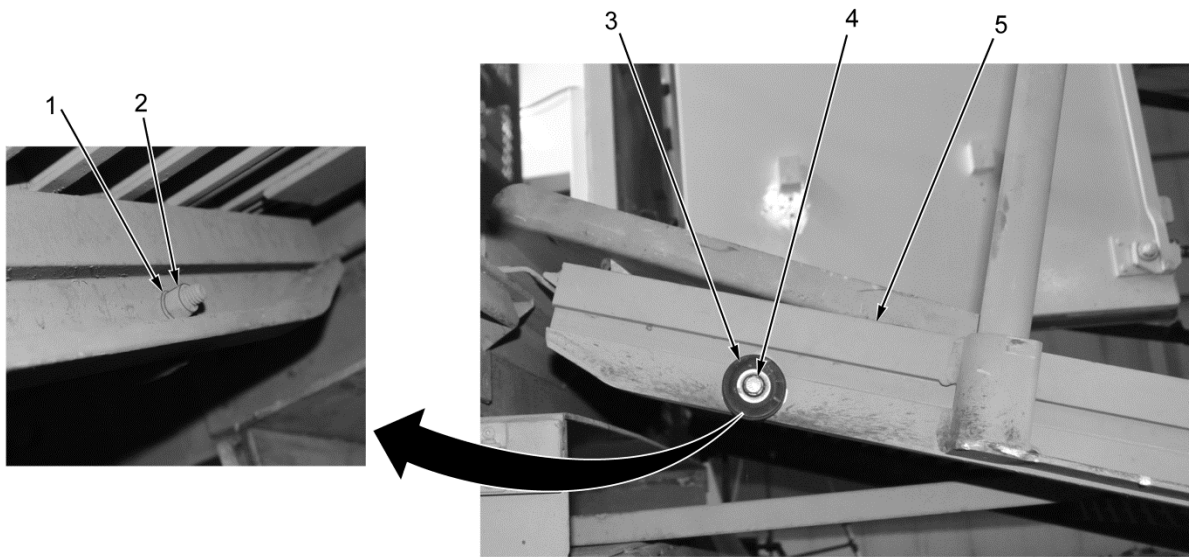


Figure 1. Ramp Roller Removal.

END OF TASK

INSTALLATION

Install ramp roller (Figure 2, Item 3), bolt (Figure 2, Item 4), flat washer (Figure 2, Item 1), and new locknut (Figure 2, Item 2) on ramp (Figure 2, Item 5).



ARSS0151

Figure 2. Ramp Roller Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
CABINET WORKBENCH BRACE REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 4 (WP 0106, Item 3)

Equipment Condition

ARSS setup for operation (WP 0006)

Tool cabinet drawers (top two of tool cabinet
A and B) removed (WP 0076)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL

1. Remove two bolts (Figure 1, Item 4), nuts (Figure 1, Item 2), lockwashers (Figure 1, Item 6), and four flat washers (Figure 1, Item 1) from inside of cabinet B (Figure 1, Item 5) and cabinet workbench brace (Figure 1, Item 3). Discard lockwashers.

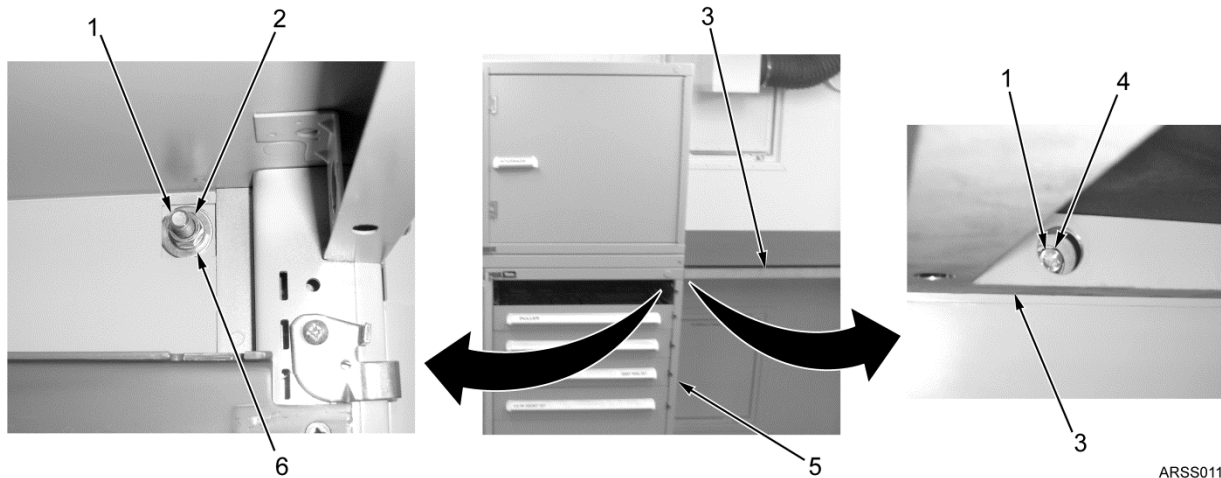
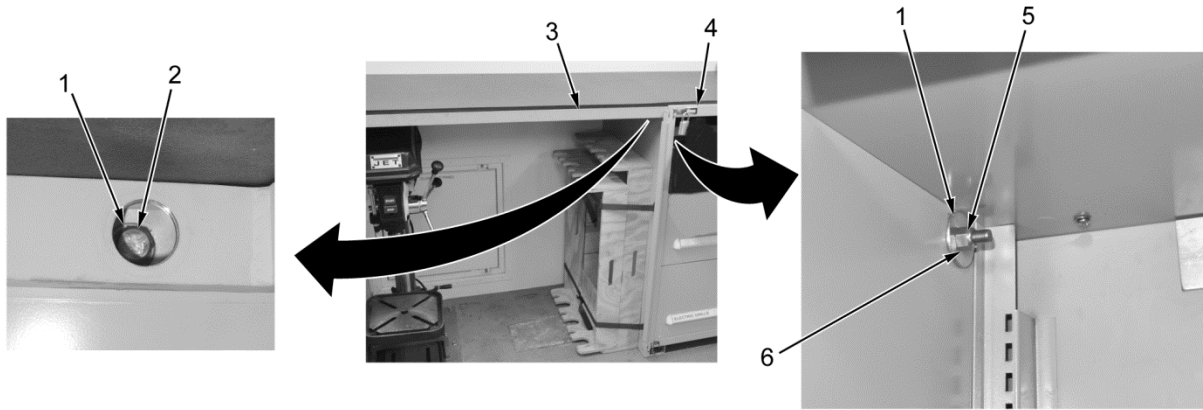


Figure 1. Cabinet Workbench Brace Cabinet B Attaching Hardware Removal.

REMOVAL - Continued

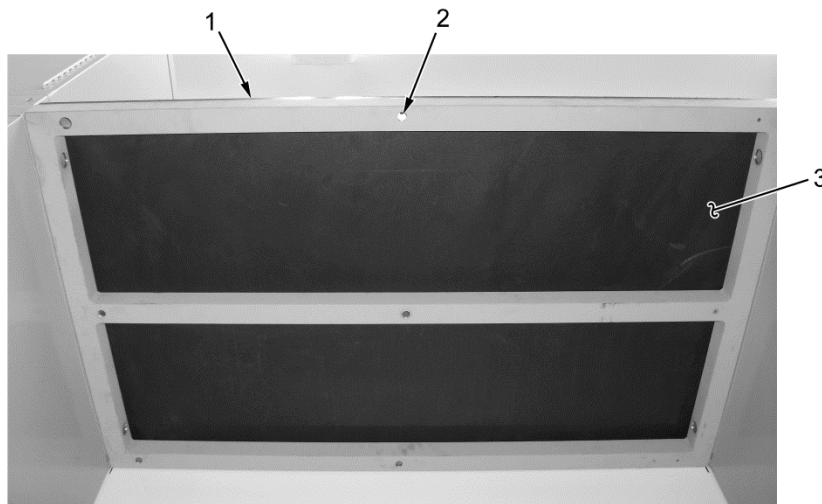
2. Remove two bolts (Figure 2, Item 2), nuts (Figure 2, Item 5), lockwashers (Figure 2, Item 6), and four flat washers (Figure 2, Item 1) from inside of cabinet A (Figure 2, Item 4) and cabinet workbench brace (Figure 2, Item 3). Discard lockwashers.



ARSS0118

Figure 2. Cabinet Workbench Brace Cabinet A Attaching Hardware Removal.

3. Remove six screws (Figure 3, Item 2) and cabinet workbench brace (Figure 3, Item 1) from cabinet workbench top (Figure 3, Item 3).



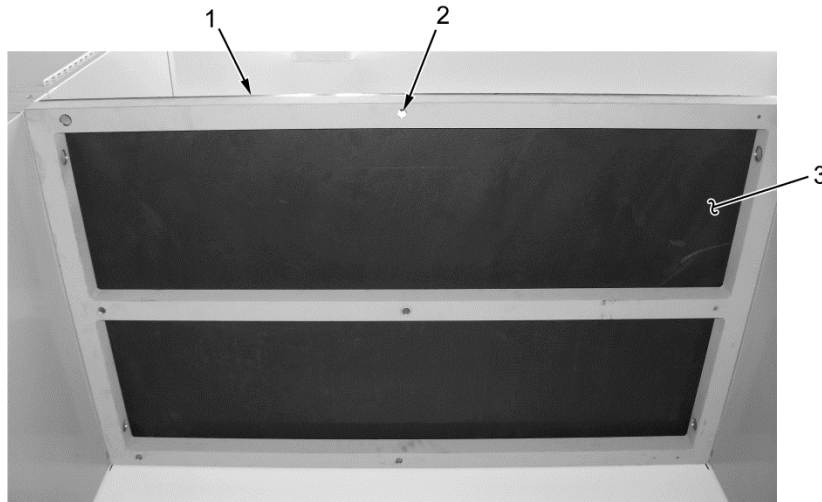
ARSS0119

Figure 3. Cabinet Workbench Brace Removal.

END OF TASK

INSTALLATION

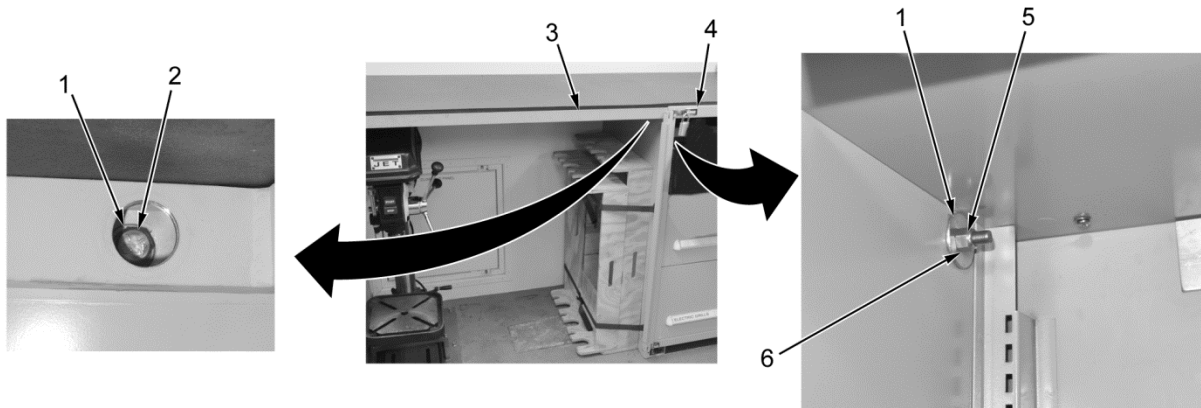
1. Install cabinet workbench brace (Figure 4, Item 1) and six screws (Figure 4, Item 2) on cabinet workbench top (Figure 4, Item 3).



ARSS0120

Figure 4. Cabinet Workbench Brace Installation.

2. Install four flat washers (Figure 5, Item 1), two new lockwashers (Figure 5, Item 6), bolts (Figure 5, Item 2) and nuts (Figure 5, Item 5) on cabinet workbench brace (Figure 5, Item 3) and inside cabinet A (Figure 5, Item 4).



ARSS0121

Figure 5. Cabinet Workbench Brace Cabinet A Attaching Hardware Installation.

INSTALLATION - Continued

3. Install four flat washers (Figure 6, Item 1), two new lockwashers (Figure 6, Item 6), bolts (Figure 6, Item 4) and nuts (Figure 6, Item 2) on cabinet workbench brace (Figure 6, Item 3) and inside cabinet B (Figure 6, Item 5).

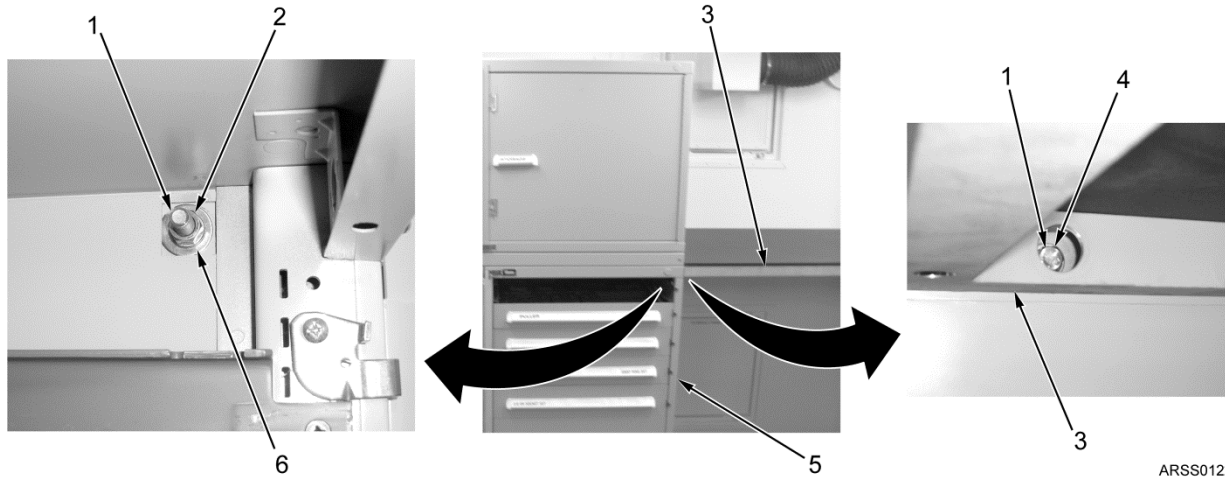


Figure 6. Cabinet Workbench Brace Cabinet B Attaching Hardware Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install tool cabinet drawers (top two of tool cabinet A and B) (WP 0076).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
CABINET WORKBENCH TOP REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Equipment Condition

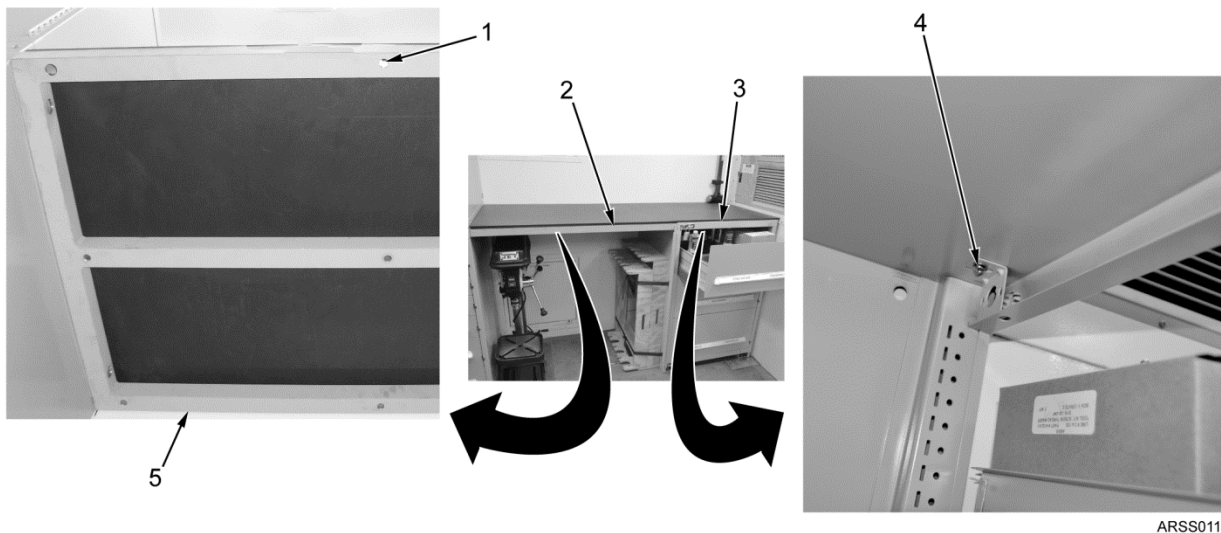
ARSS setup for operation (WP 0006)
Tool cabinet drawer (top of tool cabinet A)
removed (WP 0076)

Personnel Required

Wheeled Vehicle Mechanic - 91B

REMOVAL

1. Remove six screws (Figure 1, Item 1) from cabinet workbench brace (Figure 1, Item 5) and cabinet workbench top (Figure 1, Item 2).
2. Remove four screws (Figure 1, Item 4) from inside of cabinet A (Figure 1, Item 3) and remove cabinet workbench top (Figure 1, Item 2) from cabinet A and cabinet workbench brace (Figure 1, Item 5).



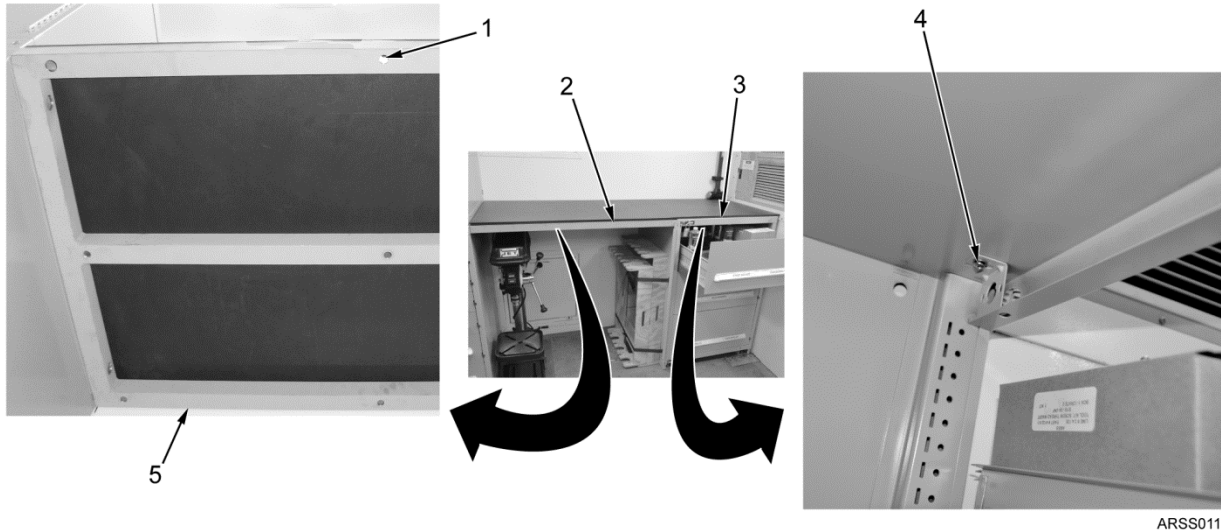
ARSS0114

Figure 1. Cabinet Workbench Top Removal.

END OF TASK

INSTALLATION

1. Install cabinet workbench top (Figure 2, Item 2) on cabinet A (Figure 2, Item 3) and cabinet workbench brace (Figure 2, Item 5) and secure with four screws (Figure 2, Item 4) inside of cabinet A.
2. Install six screws (Figure 2, Item 1) on cabinet workbench brace (Figure 2, Item 5) and cabinet workbench top (Figure 2 Item 2).



ARSS0115

Figure 2. Cabinet Workbench Top Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install tool cabinet drawer (top of tool cabinet A) (WP 0076).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
WORKBENCH TOP REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Metal, Sheet, Screw Qty: 4 (WP 0107, Item
6 or 32)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL**NOTE**

There are three workbench tops in the ARSS. The following procedure covers the replacement of one. The remaining two are replaced the same way.

Remove four sheet metal screws (Figure 1, Item 1) and workbench top (Figure 1, Item 2) from workbench (Figure 1, Item 3). Discard sheet metal screws.

END OF TASK**INSTALLATION**

Install workbench top (Figure 1, Item 2) and four new sheet metal screws (Figure 1, Item 1) on workbench (Figure 1, Item 3).

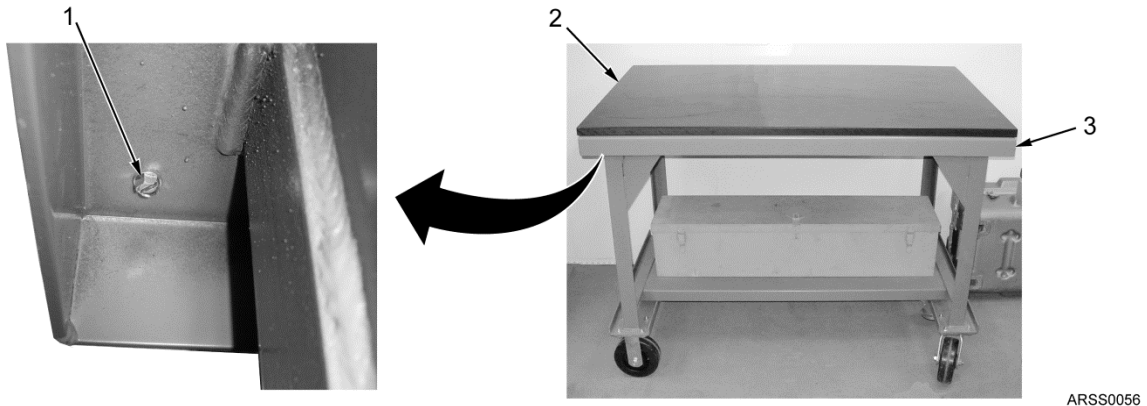


Figure 1. Workbench Top Replacement.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
WORKBENCH CASTER REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Lifting Device (400 lb capacity)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

Materials/Parts

Nut, Self-Locking Qty: 4 (WP 0107, Item 12
or 25)

REMOVAL**WARNING**

The workbench weighs 275 lb (125 kg) and can tip when not supported on all four casters. Ensure workbench is supported on side where caster is being replaced. Workbench could tip and crush or pinch personnel. Failure to follow this warning may result in injury or death.

NOTE

There are total of eight workbench casters in the ARSS. The following procedure covers the replacement of one workbench caster. The remaining workbench casters are replaced the same way.

1. Using lifting device, support workbench (Figure 1, Item 1) on side caster is being replaced.
2. Remove four locknuts (Figure 1, Item 3), bolts (Figure 1, Item 4), and eight flat washers (Figure 1, Item 2) and caster (Figure 1, Item 5) from workbench (Figure 1, Item 1). Discard locknuts.

END OF TASK**INSTALLATION**

1. Using lifting device, support workbench (Figure 1, Item 1) on side caster is being replaced.
2. Install caster (Figure 1, Item 5), eight flat washers (Figure 1, Item 2), four bolts (Figure 1, Item 4), and new locknuts (Figure 1, Item 3) on workbench (Figure 1, Item 1).
3. Remove lifting device from workbench (Figure 1, Item 1).

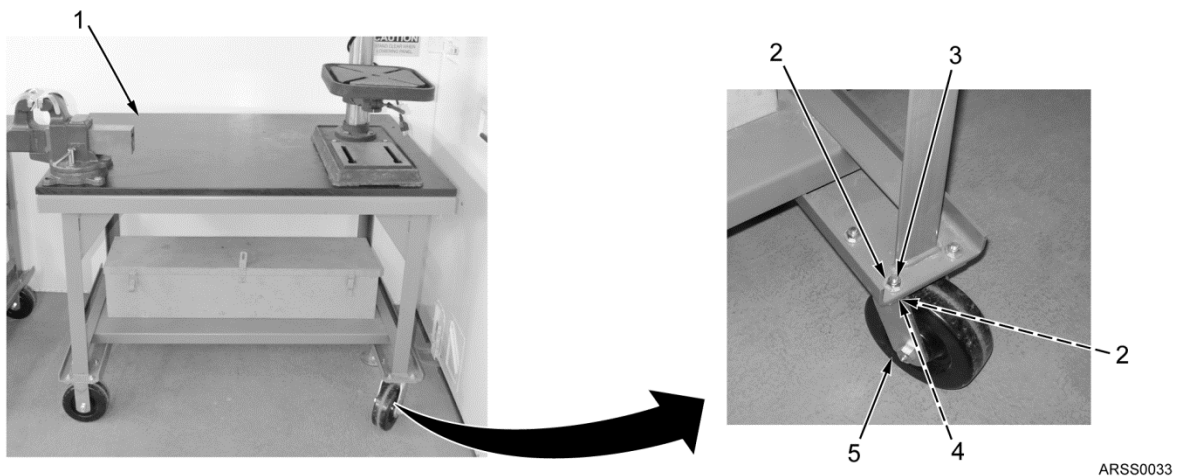


Figure 1. Workbench Caster Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
WOORKBENCH FOOT LOCK REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Nut, Self-Locking Qty: 4 (WP 0110, Item 12
or 25)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL**NOTE**

There are three workbench foot locks in the ARSS. The following procedure covers the replacement of one. The remaining two are replaced the same way.

Remove four bolts (Figure 1, Item 4), locknuts (Figure 1, Item 5), eight flat washers (Figure 1, Item 3), and foot lock (Figure 1, Item 2) from workbench (figure 1, Item 1). Discard locknuts.

END OF TASK**INSTALLATION**

Install foot lock (Figure 1, Item 2), eight flat washers (Figure 1, Item 3), four bolts (Figure 1, Item 4), and new locknuts (Figure 1, Item 5) on workbench (Figure 1, Item 1).

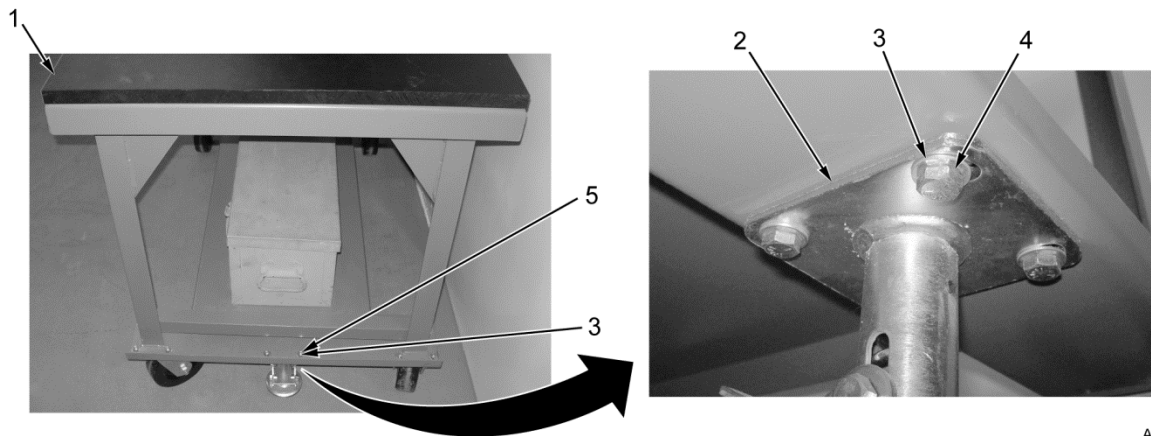


Figure 1. Foot Lock Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE BII TOOL BOX REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 4 (WP 0107, Item 9)

Equipment Condition

ARSS setup for operation (WP 0006)

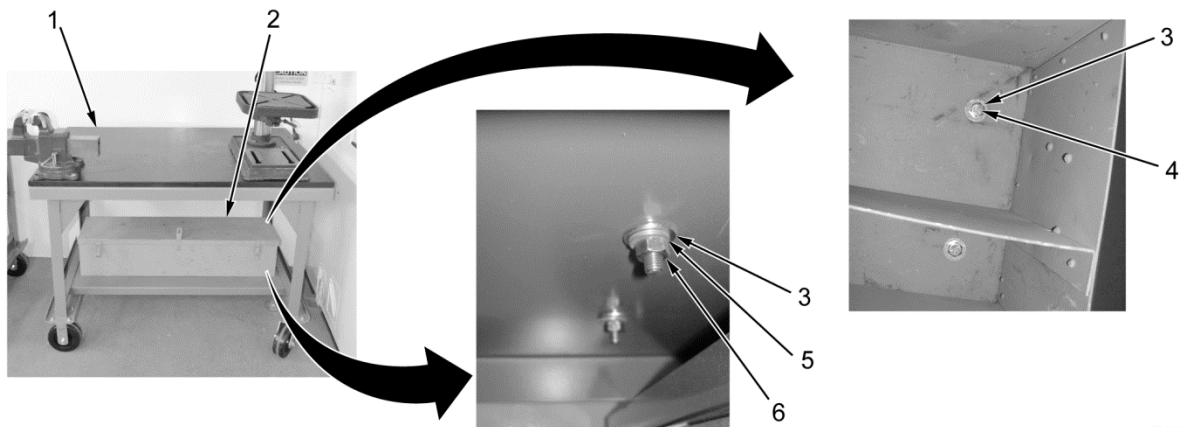
REMOVAL

1. Open BII tool box (Figure 1, Item 2) and empty contents.
2. Remove four nuts (Figure 1, Item 6), lockwashers (Figure 1, Item 5), bolts (Figure 1, Item 4), eight flat washers (Figure 1, Item 3), and BII tool box (Figure 1, Item 2) from workbench (Figure 1, Item 1). Discard lockwashers.

END OF TASK

INSTALLATION

1. Install BII tool box (Figure 1, Item 2), eight flat washers (Figure 1, Item 3), four bolts (Figure 1, Item 4), new lockwashers (Figure 1, Item 5), and nuts (Figure 1, Item 6) on workbench (Figure 1, Item 1).
2. Refill contents and close BII tool box (Figure 1, Item 2).



ARSS0051

Figure 1. BII Tool Box Replacement.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE STACKBIN RACK REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

Materials/Parts

Washer, Lock Qty: 6 (WP 0107, Item 31)

REMOVAL

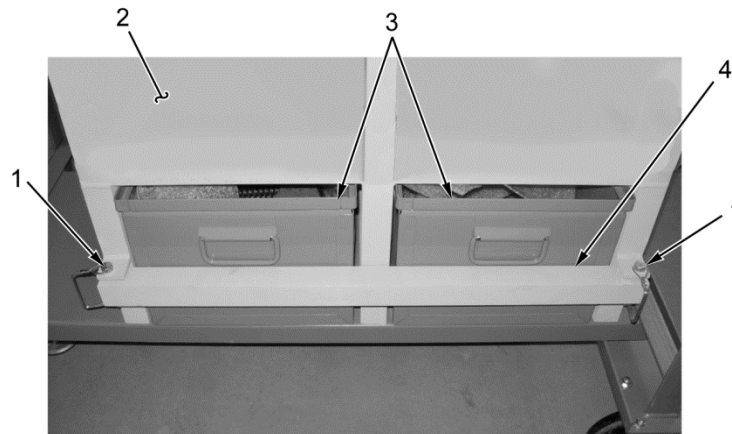
1. Remove two pins (Figure 1, Item 1) and bar (Figure 1, Item 4) from stackbin rack (Figure 1, Item 2).

WARNING



To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

2. Remove two drawers (Figure 1, Item 3) from stackbin rack (Figure 1, Item 2).

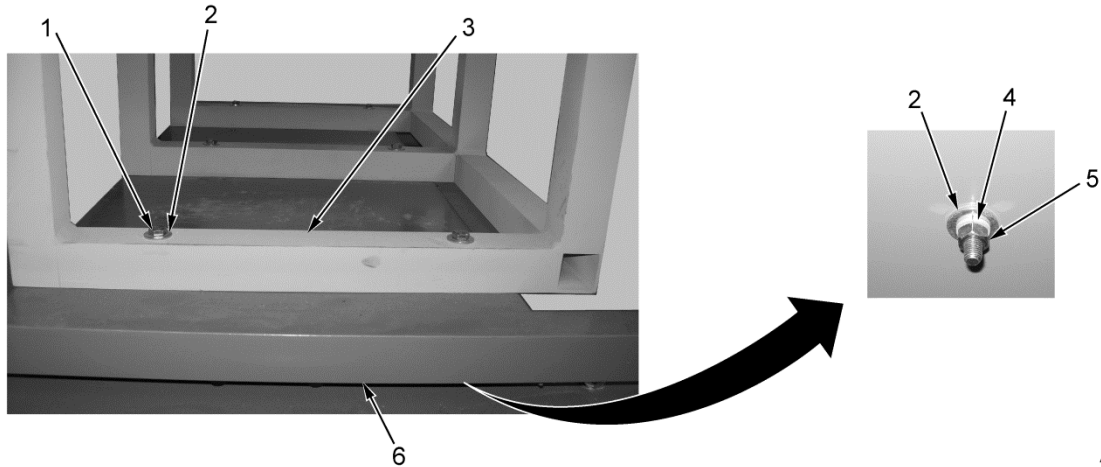


ARSS0019

Figure 1. Bar and Drawer Removal

REMOVAL - Continued

3. Remove six nuts (Figure 2, Item 5), lockwashers (Figure 2, Item 4), bolts (Figure 2, Item 1), 12 flat washers (Figure 2, Item 2), and stackbin rack (Figure 2, Item 3) from workbench (Figure 2, Item 6). Discard lockwashers.

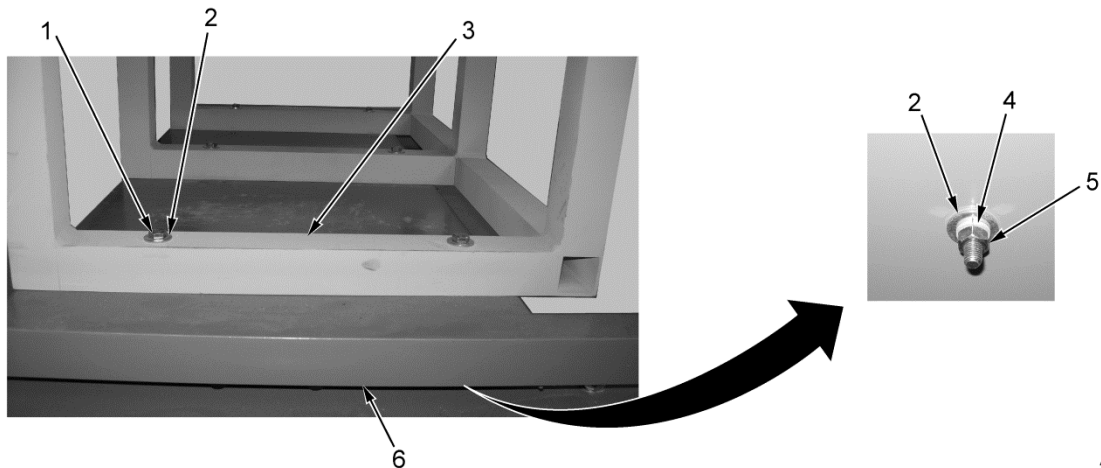


ARSS0020

Figure 2. Stackbin Rack Removal.

END OF TASK**INSTALLATION**

1. Install stackbin rack (Figure 3, Item 3), 12 flat washers (Figure 3, Item 2), six bolts (Figure 3, Item 1), new lockwashers (Figure 3, Item 4), nuts (Figure 3, Item 5) on workbench (Figure 3, Item 6).



ARSS0021

Figure 3. Stackbin Rack Installation.

INSTALLATION - Continued**WARNING**

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

2. Install two drawers (Figure 4, Item 3) on stackbin rack (Figure 4, Item 2).
3. Install bar (Figure 4, Item 4) and two pins (Figure 4, Item 1) on stackbin rack (Figure 4, Item 2).



ARSS0022

Figure 4. Bar and Drawer Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
WISE REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 2 (WP 0107, Item 9 or
31)

Equipment Condition

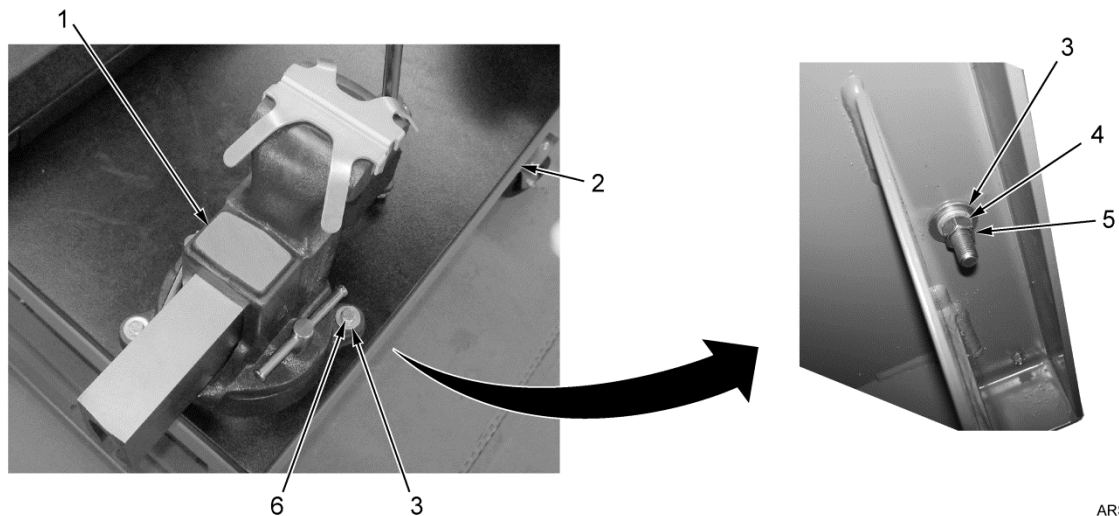
ARSS setup for operation (WP 0006)

REMOVAL

Remove two nuts (Figure 1, Item 5), lockwashers (Figure 1, Item 4), bolts (Figure 1, Item 6), four flat washers (Figure 1, Item 3), and vise (Figure 1, Item 1) from workbench (Figure 1, Item 2). Discard lockwashers.

END OF TASK**INSTALLATION**

Install vise (Figure 1, Item 1), four flat washers (Figure 1, Item 3), two bolts (Figure 1, Item 6), new lockwashers (Figure 1, Item 4), and nuts (Figure 1, Item 5) on table (Figure 1, Item 2).



ARSS0039

Figure 1. Vise Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE GRINDER REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 2 (WP 0107, Item 31)

Equipment Condition

ARSS setup for operation (WP 0006)

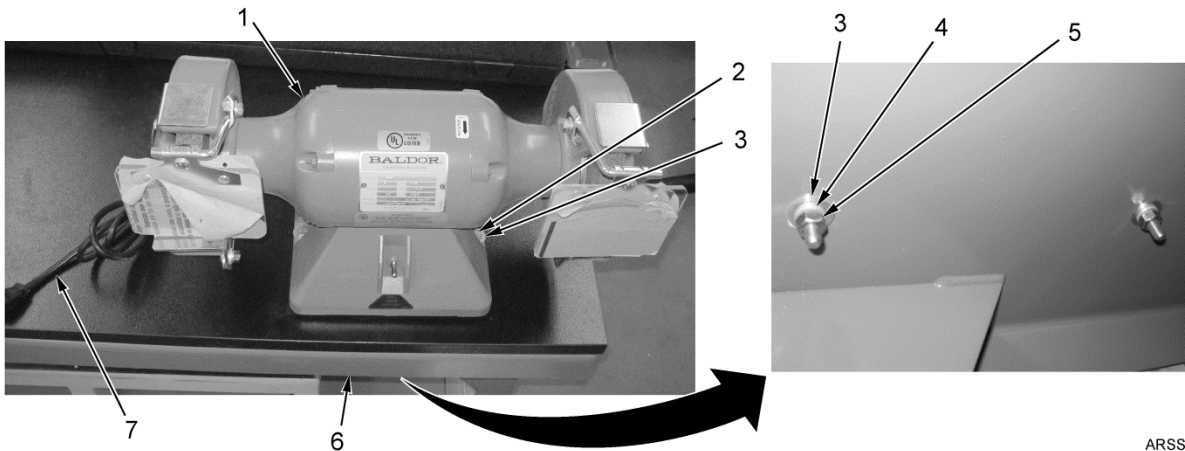
REMOVAL

WARNING



Ensure power is off to equipment before performing maintenance. Equipment could activate if still turned on and injure personnel. Failure to follow this warning may result in injury or death.

1. Unplug grinder (Figure 1, Item 1) by removing cord (Figure 1, Item 7) from outlet.
2. Remove two nuts (Figure 1, Item 5), lockwashers (Figure 1, Item 4), bolts (Figure 1, Item 2), four flat washers (Figure 1, Item 3), and grinder (Figure 1, Item 1) from workbench (Figure 1, Item 6). Discard lockwashers.



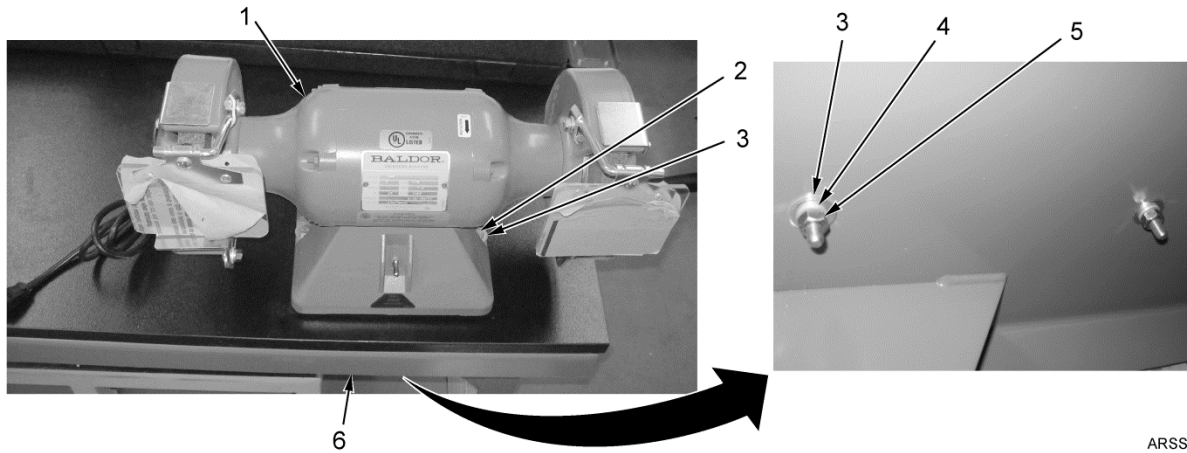
ARSS0040

Figure 1. Grinder Removal.

END OF TASK

INSTALLATION

Install grinder (Figure 2, Item 1), four flat washers (Figure 2, Item 3), two bolts (Figure 2, Item 2), new lockwashers (Figure 2, Item 4), and nuts (Figure 2, Item 5) on workbench (Figure 2, Item 6).



ARSS0041

Figure 2. Grinder Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE TOOL CABINET D REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required (cont.)

Non-Specific MOS (2)

Materials/Parts

Washer, Lock Qty: 10 (WP 0108, Item 21)

References

SC 4940-95-A70

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

Tool cabinet drawers (top two of tool cabinet B and C) removed (WP 0076)

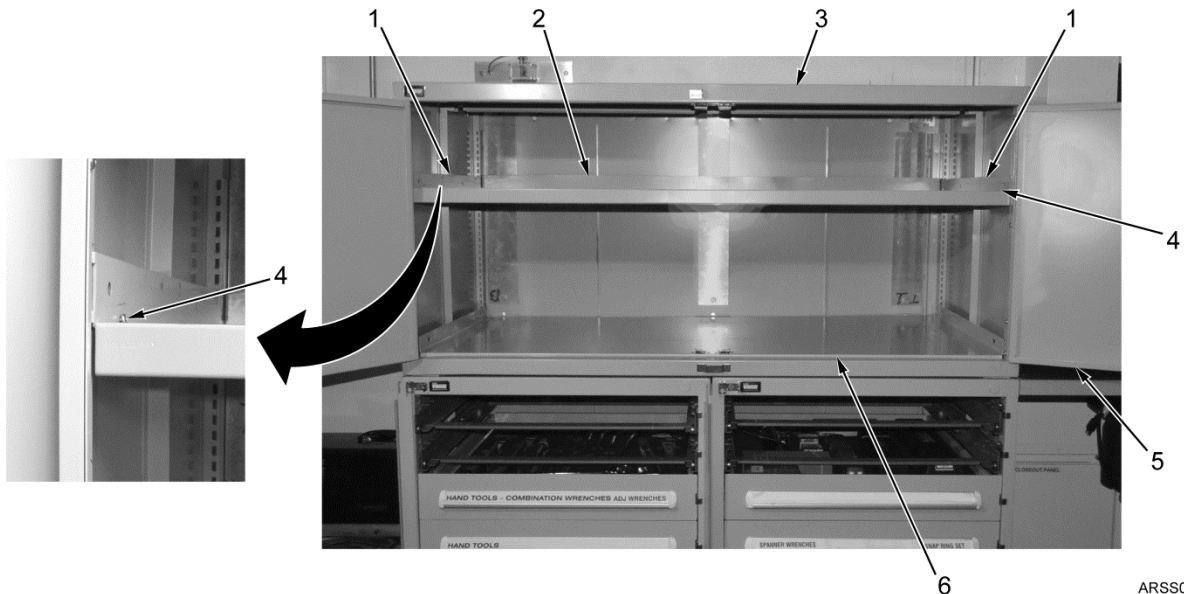
REMOVAL

1. Open two tool cabinet D doors (Figure 1, Item 5) and empty contents from tool cabinet D (Figure 1, Item 3).
2. Remove two screws (Figure 1, Item 4) from two shelf brackets (Figure 1, Item 1).

NOTE

Mark location of shelf brackets on tool cabinet D prior to removal to aid in installation.

3. Remove shelf (Figure 1, Item 2) and two shelf brackets (Figure 1, Item 1) from tool cabinet D (Figure 1, Item 3).
4. Remove pan (Figure 1, Item 6) from tool cabinet D (Figure 1, Item 3).

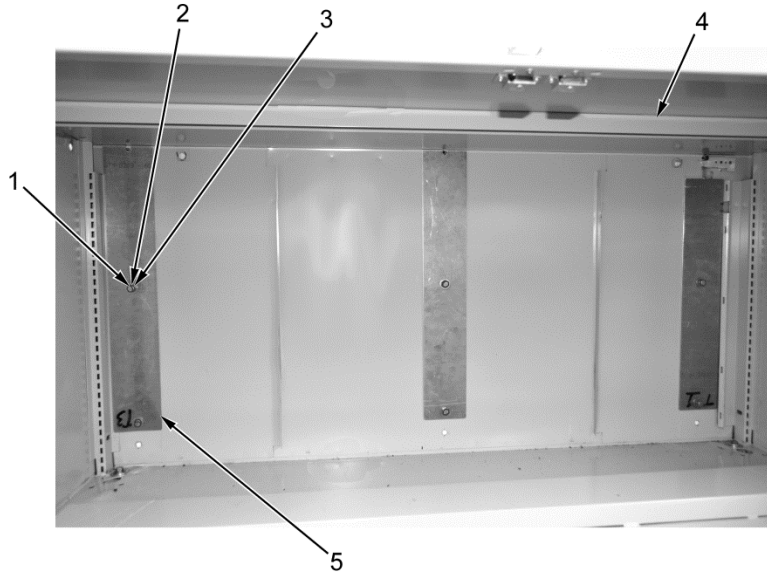


ARSS0192

Figure 1. Tool Cabinet D Shelf and Pan Removal.

REMOVAL - Continued

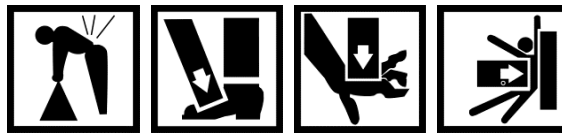
5. Remove six bolts (Figure 2, Item 1), lockwashers (Figure 2, Item 2), flat washers (Figure 2, Item 3), and three wall plates (Figure 2, Items 5 and 6) from tool cabinet D (Figure 2, Item 4). Discard lockwashers.



ARSS0193

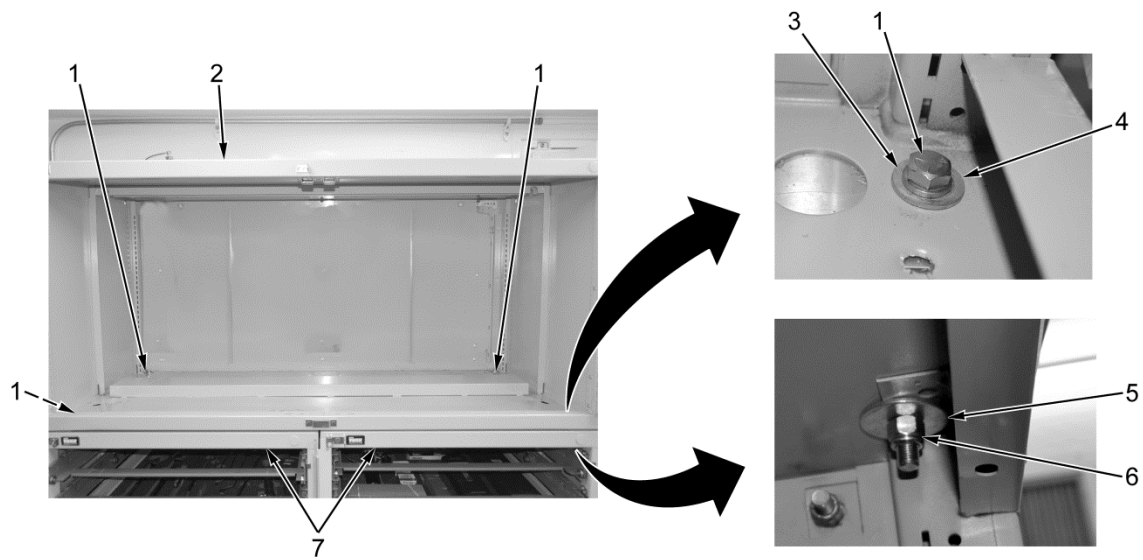
Figure 2. Tool Cabinet D Wall Plates Removal.

6. Remove four bolts (Figure 3, Item 1), lockwashers (Figure 3, Item 3), flat washers (Figure 3, Item 4), flat washers (Figure 3, Item 5), and nuts (Figure 3, Item 6) from tool cabinet D (Figure 3, Item 2). Discard lockwashers.

WARNING

Tool cabinet D weighs 249 lb (113 kg). Do not attempt to lift tool cabinet D without the aid of two other people or suitable lifting device. Use additional personnel if needed. All personnel must stand clear during lifting operation. Tool cabinet D could swing or shift during removal. Failure to follow this warning may cause injury or death.

7. Remove tool cabinet D (Figure 3, Item 2) from tool cabinets B and C (Figure 3, Item 7).

REMOVAL - Continued

ARSS0194

END OF TASK

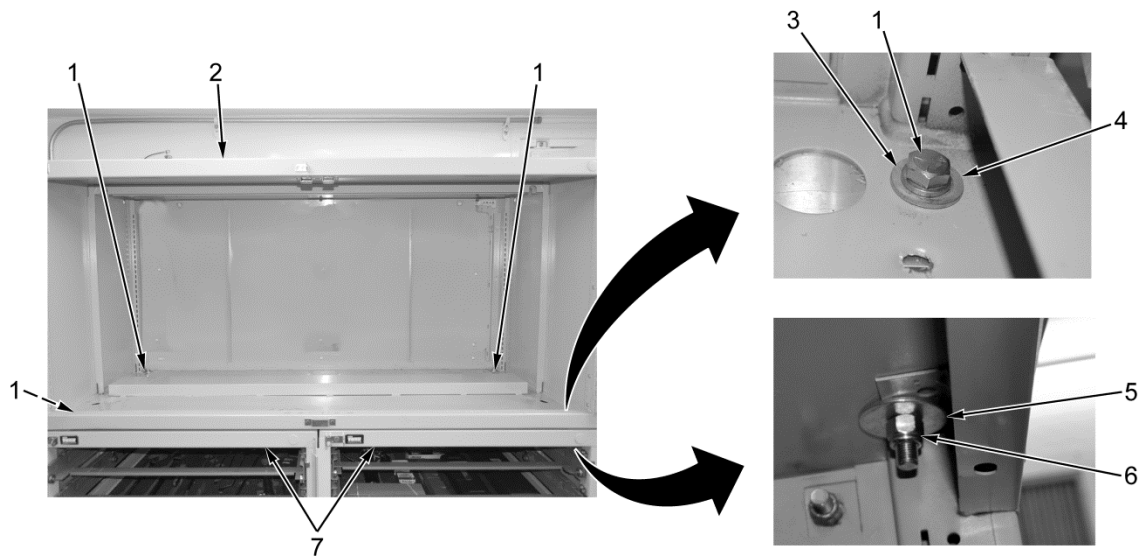
INSTALLATION

1. Place tool cabinet D (Figure 4, Item 2) on tool cabinets B and C (Figure 4, Item 7).

NOTE

Ensure holes on back of tool cabinet D line up with mounting holes in wall to aid in installation of tool cabinet D.

2. Secure tool cabinet D (Figure 4, Item 2) with four flat washers (Figure 4, Item 4), new lockwashers (Figure 4, Item 3), bolts (Figure 4, Item 1), flat washers (Figure 4, Item 5) and nuts (Figure 4, Item 6).

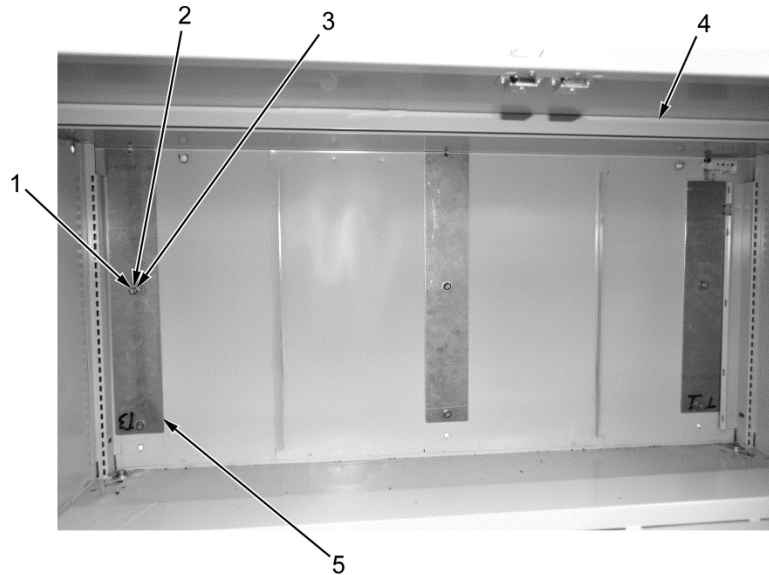


ARSS0195

Figure 4. Tool Cabinet D Installation.

INSTALLATION - Continued

3. Install three wall plates (Figure 5, Items 5 and 6), six flat washers (Figure 5, Item 3), new lockwashers (Figure 5, Item 2), and bolts (Figure 5, Item 1) on tool cabinet D (Figure 5, Item 4).



ARSS0196

Figure 5. Tool Cabinet D Wall Plates Installation.

INSTALLATION - Continued

4. Install pan (Figure 6, Item 6) in tool cabinet D (Figure 6, Item 3).
5. Install two shelf brackets (Figure 6, Item 1) and shelf (Figure 6, Item 2) in tool cabinet D (Figure 6, Item 3).
6. Install two screws (Figure 6, Item 4) on two shelf brackets (Figure 6, Item 1).

NOTE

Use ARSS tool supply catalog to aid in tool content location.

7. Place contents back in tool cabinet D (Figure 6, Item 3) and close two tool cabinet D doors (Figure 6, Item 5) on tool cabinet D.

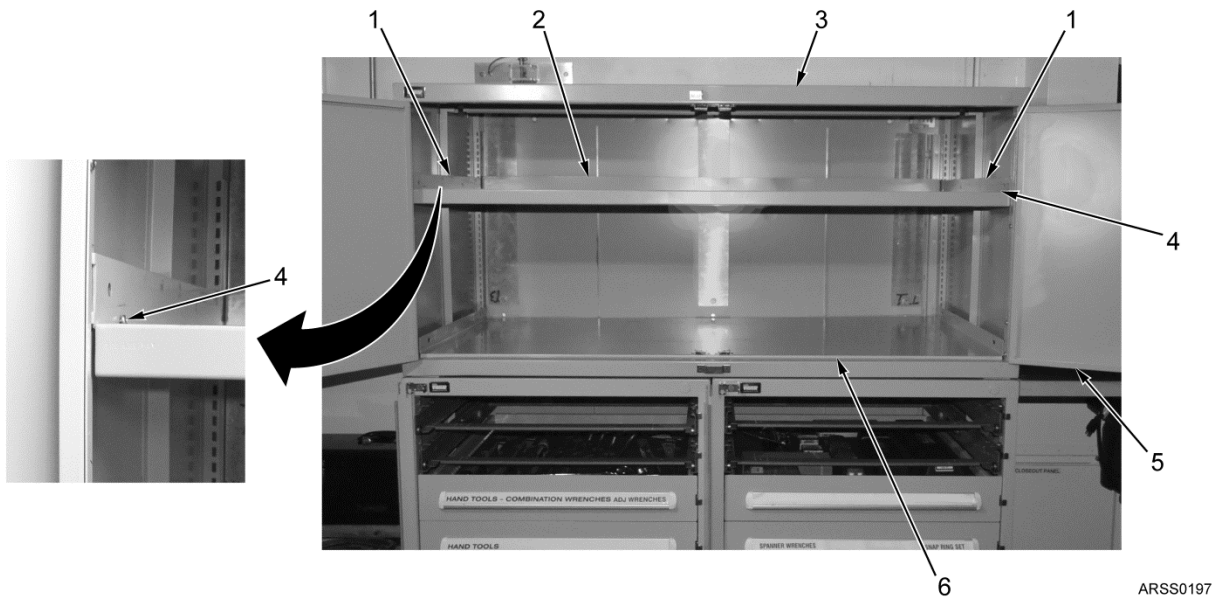


Figure 6. Tool Cabinet D Shelf and Pan Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install tool cabinet drawers (top two of tool cabinet B and C) (WP 0076).

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
TOOL CABINET D DOORS REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL**NOTE**

There are two tool cabinet D doors on tool cabinet D in the ARSS. The following procedure covers the replacement of one. The remaining one is replaced the same way.

1. Raise lock bar (Figure 1, Item 1) and open tool cabinet D doors (Figure 1, Item 2).



ARSS0085

Figure 1. Open Cabinet D Doors.

REMOVAL - Continued

2. Remove four screws (Figure 2, Item 3) and tool cabinet D door (Figure 2, Item 2) from tool cabinet D (Figure 2, Item 1).

END OF TASK**INSTALLATION**

1. Install tool cabinet D door (Figure 2, Item 2) and four screws (Figure 2, Item 3) on tool cabinet D (Figure 2, Item 1).



Figure 2. Cabinet D Door Replacement.

INSTALLATION - Continued

2. Close tool cabinet D doors (Figure 3, Item 2) and secure with lock bar (Figure 3, Item 1).



ARSS0087

Figure 3. Close Cabinet D Doors.

END OF TASK**END OF WORK PACKAGE**

**FIELD MAINTENANCE
TOOL CABINETS A, B, AND C REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

References

WP 0064
WP 0065
WP 0073

Materials/Parts

Washer, Lock Qty: 6 (WP 0108, Item 21)

Equipment Condition

Tool cabinet drawers removed (WP 0076)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

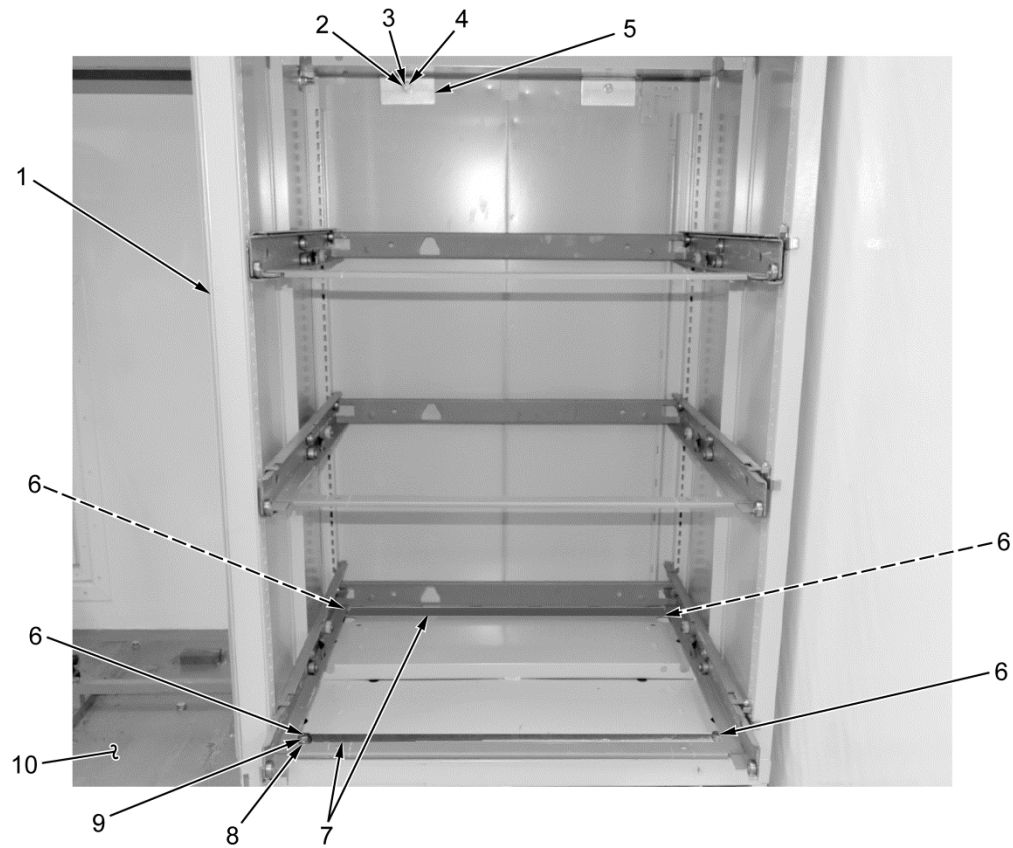
REMOVAL**NOTE**

- The following procedure covers the removal of tool cabinets A, B, and C. Perform the following equipment condition depending on which tool cabinet is being removed.
 - If removing tool cabinet A, perform Step 1.
 - If removing tool cabinet B, perform Step 2.
 - If removing tool cabinet C, perform Step 3.
1. Remove Tool Cabinet Workbench Brace (WP 0064) and Tool Cabinet Workbench Top (WP 0065).
 2. Remove Tool Cabinet Workbench Brace (WP 0064), Tool Cabinet Workbench Top (WP 0065), and Tool Cabinet D (WP 0073).
 3. Remove Tool Cabinet D (WP 0073).
 4. Remove two bolts (Figure 1, Item 2), lockwashers (Figure 1, Item 3), flat washers (Figure 1, Item 4), and plate (Figure 1, Item 5) from tool cabinet (Figure 1, Item 1). Discard lockwashers.
 5. Remove four bolts (Figure 1, Item 6), lockwashers (Figure 1, Item 9), flat washers (Figure 1, Item 8), and two plates (Figure 1, Item 7) from tool cabinet (Figure 1, Item 1). Discard lockwashers.

WARNING

Tool cabinets A, B, and C weigh 180 lb (81 kg). Do not attempt to lift tool cabinets without the aid of two other people or suitable lifting device. Use additional personnel if needed. All personnel must stand clear during lifting operation. Tool cabinets could swing or shift during removal. Failure to follow this warning may cause injury or death.

6. Remove tool cabinet (Figure 1, Item 1) from shelter floor (Figure 1, Item 10).

REMOVAL - Continued

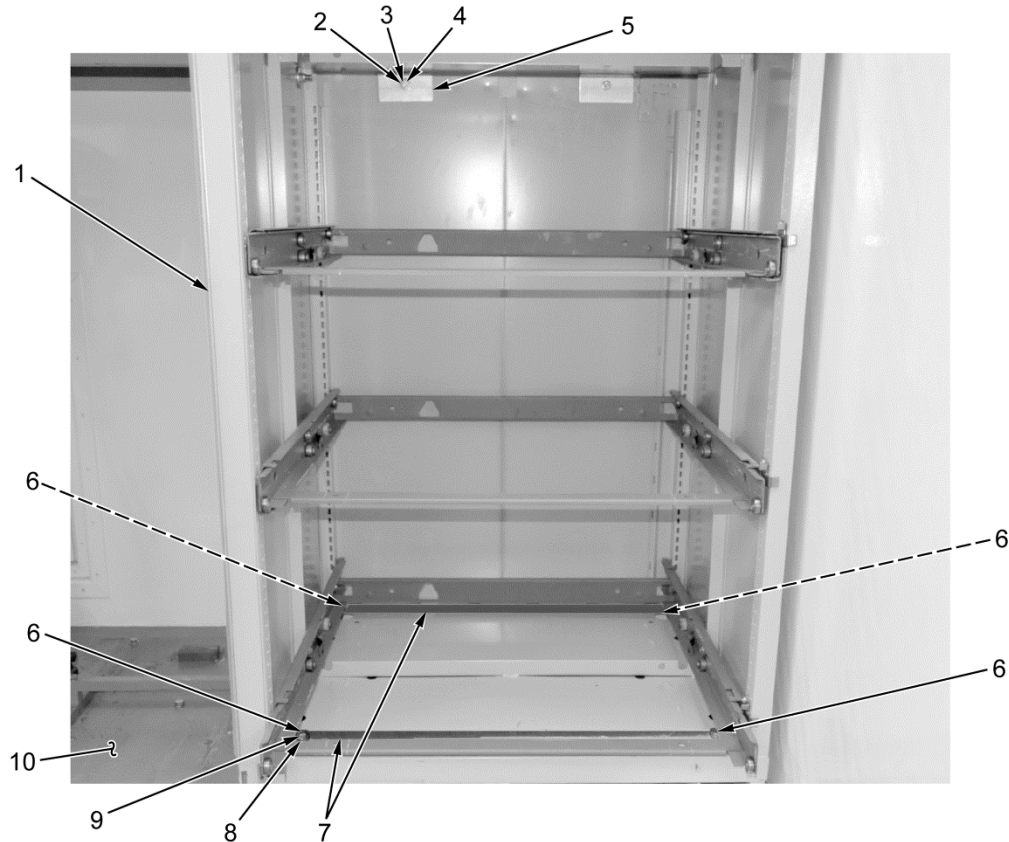
ARSS0190

Figure 1. Tool Cabinet Removal.

END OF TASK

INSTALLATION

1. Install tool cabinet (Figure 2, Item 1) on shelter floor (Figure 2, Item 10).
2. Install two plates (Figure 2, Item 7), four flat washers (Figure 2, Item 8), new lockwashers (Figure 2, Item 9), and bolts (Figure 2, Item 6) in tool cabinet (Figure 2, Item 1).
3. Install two plates (Figure 2, Item 5), flat washers (Figure 2, Item 4), new lockwashers (Figure 2, Item 3), and bolts (Figure 2, Item 2) on tool cabinet (Figure 2, Item 1).



ARSS0190

Figure 2. Tool Cabinet Installation.

4. Depending on which tool cabinet was removed, install Tool Cabinet Workbench Brace (WP 0064), Tool Cabinet Workbench Top (WP 0065), and/or Tool Cabinet D (WP 0073).

END OF TASK**FOLLOW-ON MAINTENANCE**

Install tool cabinet drawers (WP 0076).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE CABINET DRAWER REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL

NOTE

There are 17 cabinet drawers in cabinets A, B, and C. The following procedure covers the replacement of one. The remaining 16 are replaced the same way.

1. Lift up drawer lock (Figure 1, Item 2) and fully extend cabinet drawer (Figure 1, Item 3) from cabinet (Figure 1, Item 1).



ARSS0155

Figure 1. Pull Out Cabinet Drawer.

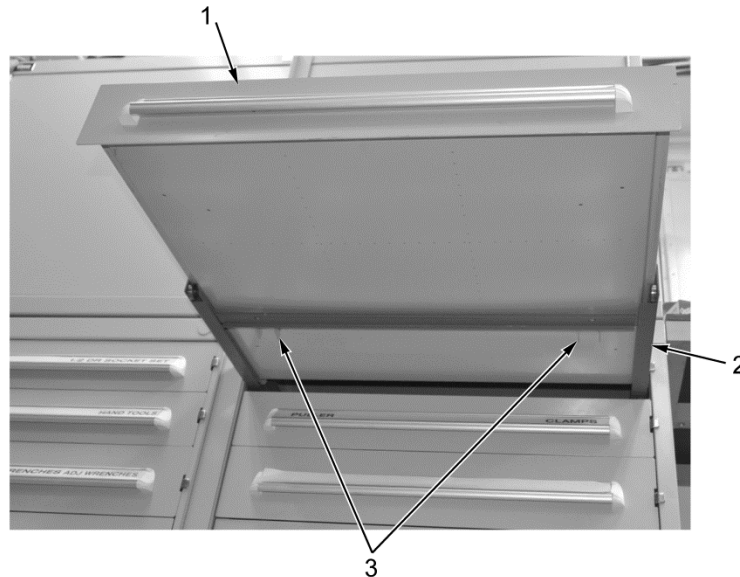
REMOVAL - Continued**WARNING**

To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

2. Lift front of cabinet drawer (Figure 2, Item 1) to clear two tabs (Figure 2, Item 3) and slide out and remove from cabinet slide (Figure 2, Item 2).

END OF TASK**INSTALLATION**

1. Slide and install cabinet drawer (Figure 2, Item 1) on cabinet slide (Figure 2, Item 2) far enough to clear two tabs (Figure 2, Item 3) and set down.



ARSS0156

Figure 2. Cabinet Drawer Replacement.

INSTALLATION - Continued

2. Lift up drawer lock (Figure 3, Item 2) and push cabinet drawer (Figure 3, Item 3) in cabinet (Figure 3, Item 1).



ARSS0157

Figure 3. Push In Cabinet Drawer.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE

CABINET DRAWER SLIDE REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Equipment Condition

Cabinet drawer removed (WP 0076)

Personnel Required

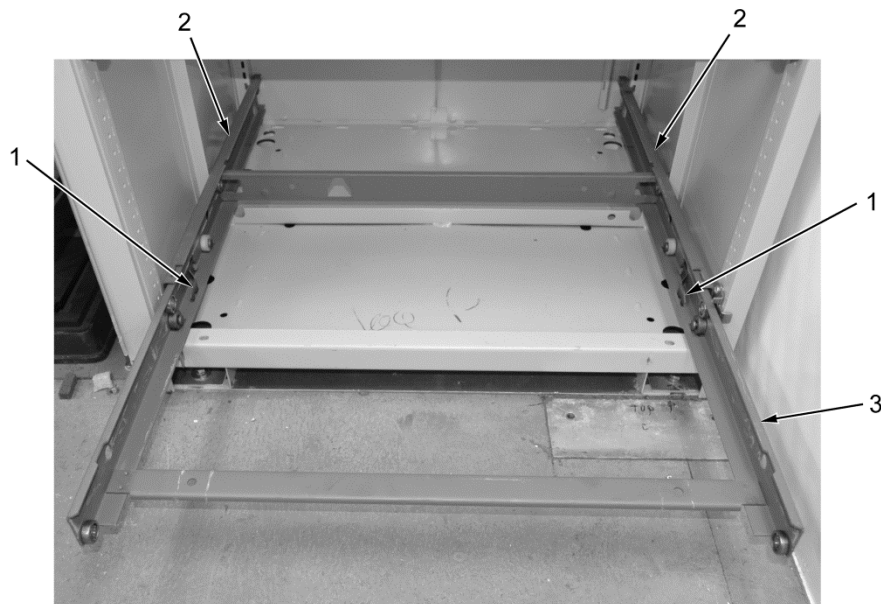
Wheeled Vehicle Mechanic - 91B

REMOVAL

NOTE

There are 17 cabinet drawer slides in cabinets A, B, and C. The following procedure covers the replacement of one. The remaining 16 are replaced the same way.

1. Lift two tabs (Figure 1, Item 1) and pull and remove cabinet drawer slide (Figure 1, Item 3) from two slide plates (Figure 1, Item 2).



ARSS0152

Figure 1. Cabinet Drawer Slide Removal.

REMOVAL - Continued

NOTE

- The following Step shows the left slide plate. The right slide plate is removed the same way.
- Mark location of slides plates on cabinet prior to removal to aid in installation.

2. Remove screw (Figure 2, Item 1) and slide plate (Figure 2, Item 2) from cabinet (Figure 2, Item 3).

END OF TASK

INSTALLATION

NOTE

The following Step shows the left slide plate. The right slide plate is installed the same way.

1. Install slide plate (Figure 2, Item 2) and screw (Figure 2, Item 1) on cabinet (Figure 2, Item 3).

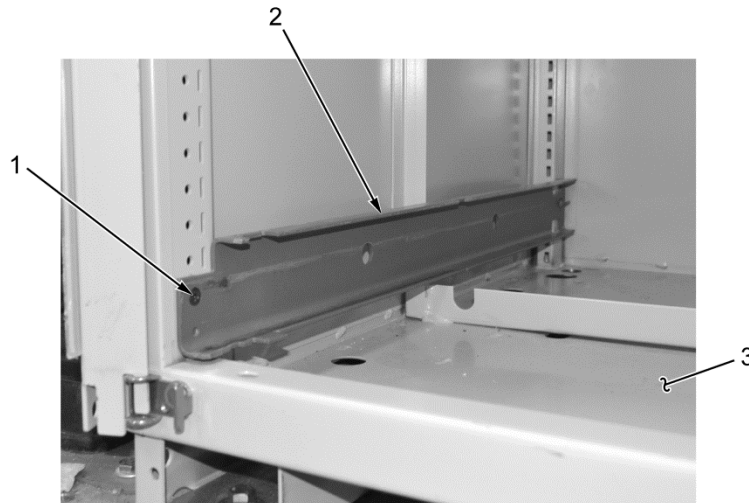


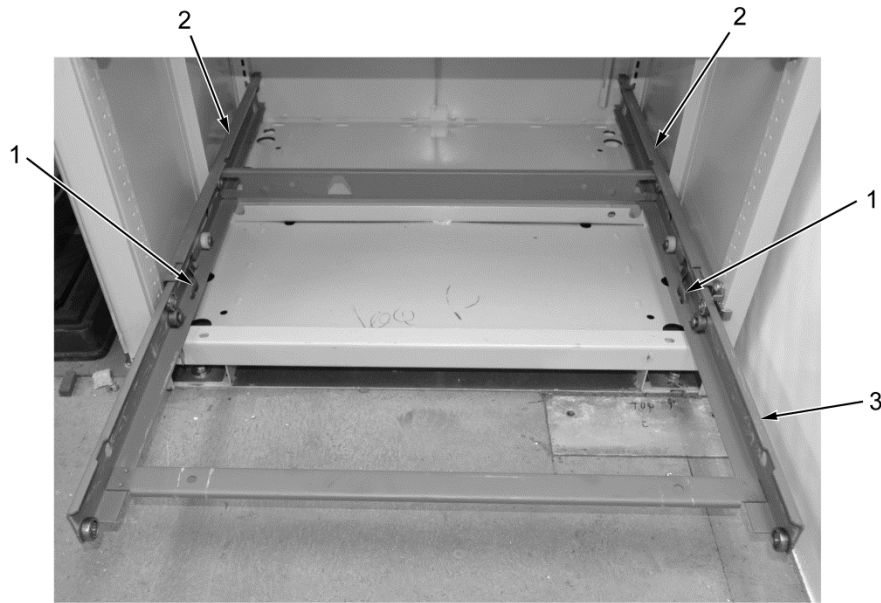
Figure 2. Slide Plate Replacement.

ARSS0153

INSTALLATION - Continued**NOTE**

Ensure two tabs are pointed downward prior to installation.

2. Install cabinet drawer slide (Figure 3, Item 3) in two slide plates (Figure 3, Item 2).
3. Slide cabinet drawer slide (Figure 3, Item 3) all the way back until two tabs (Figure 3, Item 1) drop down.



ARSS0154

Figure 3. Cabinet Drawer Slide Installation.

END OF TASK**FOLLOW-ON MAINTENANCE**

Install cabinet drawer (WP 0076).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
AMMO CABINET CASTER REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)
Lifting Device (1,200 lb capacity)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 4 (WP 0109, Item 9)

Equipment Condition

ARSS setup for operation (WP 0006)

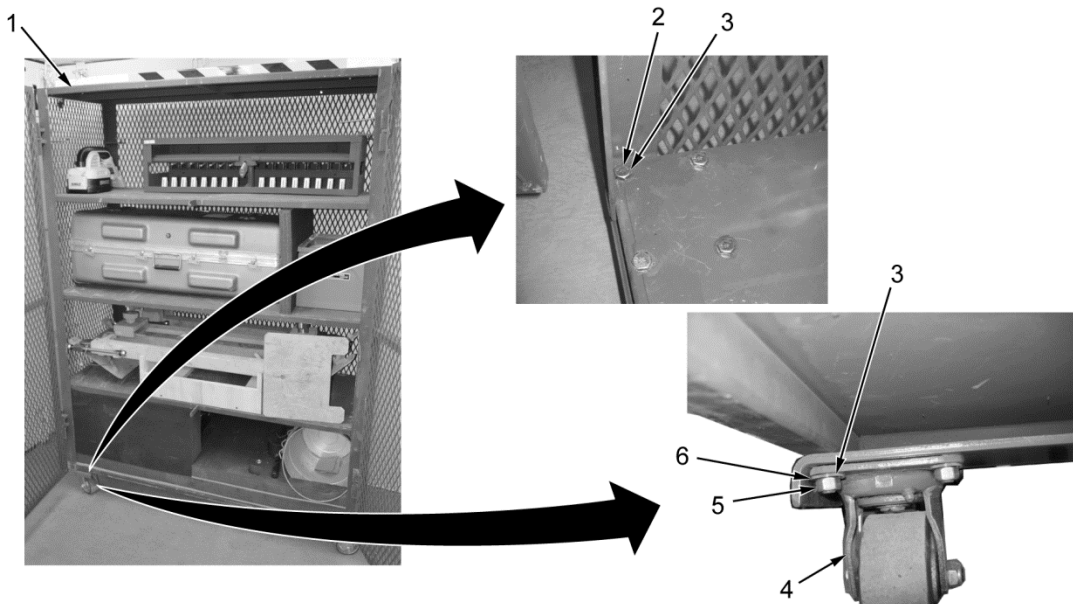
REMOVAL**NOTE**

There are total of four ammo cabinet casters in the ARSS. The following procedure covers the replacement of one ammo cabinet caster. The remaining ammo cabinet casters are replaced the same way.

WARNING

The ammo cabinet weighs 505 lb (229 kg) and can tip when not supported on all four casters. Ensure ammo cabinet is supported on side where caster is being replaced. Ammo cabinet could tip and crush or pinch personnel. Failure to follow this warning may result in injury or death.

1. Using lifting device, lay ammo cabinet (Figure 1, Item 1) down so caster being replaced is accessible.
2. Remove four nuts (Figure 1, Item 5), lockwashers (Figure 1, Item 6), bolts (Figure 1, Item 2), eight flat washers (Figure 1, Item 3), and caster (Figure 1, Item 4) from cabinet (Figure 1, Item 1). Discard lockwashers.



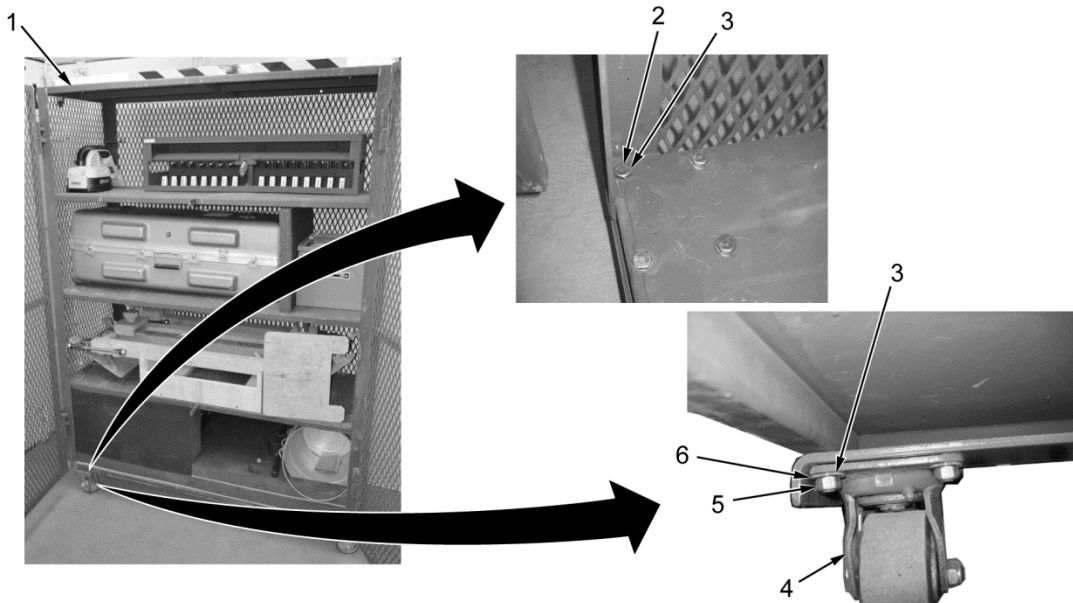
ARSS0011

Figure 1. Ammo Cabinet Caster Removal.

END OF TASK

INSTALLATION

1. Install caster (Figure 2, Item 4), eight flat washers (Figure 2, Item 3), four bolts (Figure 2, Item 2), new lockwashers (Figure 2, Item 6), and nuts (Figure 2, Item 5) on cabinet (Figure 2, Item 1).
2. Using lifting device, lift ammo cabinet (Figure 2, Item 1) back upright.
3. Remove lifting device from cabinet (Figure 2, Item 1)



ARSS0012

Figure 2. Ammo Cabinet Caster Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE

SMALL ARMS RACK REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 4 (WP 0109, Item 9)

Equipment Condition

ARSS setup for operation (WP 0006)

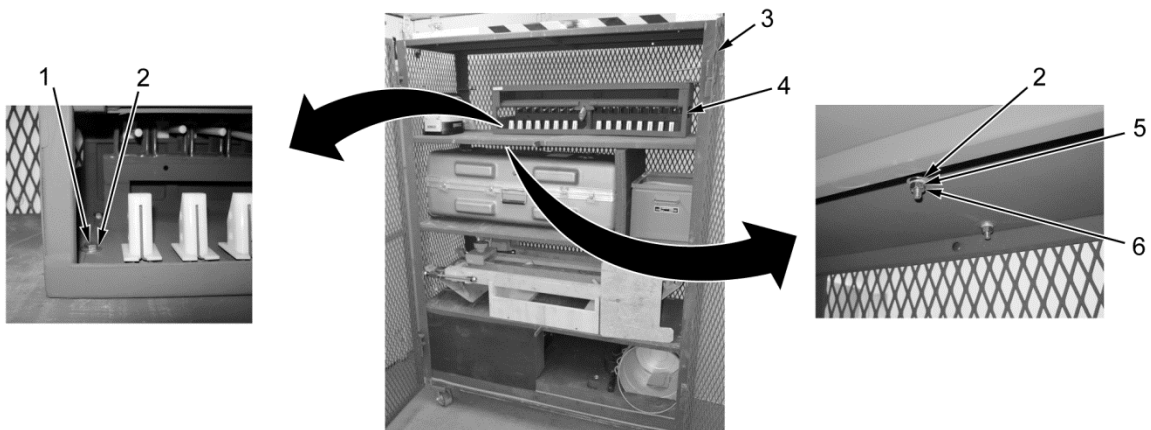
REMOVAL

Remove four nuts (Figure 1, Item 6), lockwashers (Figure 1, Item 5), bolts (Figure 1, Item 1), eight flat washers (Figure 1, Item 2), and small arms rack (Figure 1, Item 4) from cabinet (Figure 1, Item 3). Discard lockwashers.

END OF TASK

INSTALLATION

Install small arms rack (Figure 1, Item 4), eight flat washers (Figure 1, Item 2), four bolts (Figure 1, Item 1), new lockwashers (Figure 1, Item 5), and nuts (Figure 1, Item 6) on cabinet (Figure 1, Item 3).



ARSS0032

Figure 1. Small Arms Rack Replacement.

END OF TASK

END OF WORK PACKAGE

**FIELD MAINTENANCE
AMMO CABINET BRACKET REPLACEMENT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

Materials/Parts

Washer, Lock Qty: 3 (WP 0109, Item 20)

REMOVAL**NOTE**

There are a total of two ammo cabinet brackets in the ARSS. The following procedure covers the replacement of one ammo cabinet bracket. The remaining ammo cabinet bracket is replaced the same way.

1. Remove pin (Figure 1, Item 5) from bracket (Figure 1, Item 4).
2. Remove three bolts (Figure 1, Item 3), lockwashers (Figure 1, Item 2), washers (Figure 1, Item 1), lanyard (Figure 1, Item 7), and bracket (Figure 1, Item 4) from shelter wall (Figure 1, Item 6). Discard lockwashers.
3. Remove lanyard (Figure 1, Item 7) from pin (Figure 1, Item 5).

END OF TASK**INSTALLATION**

1. Install lanyard (Figure 1, Item 7) on pin (Figure 1, Item 5).
2. Install bracket (Figure 1, Item 4), lanyard (Figure 1, Item 7), three washers (Figure 1, Item 1), new lockwashers (Figure 1, Item 2), and bolts (Figure 1, Item 3) on shelter wall (Figure 1, Item 6).
3. Install pin (Figure 1, Item 5) on bracket (Figure 1, Item 4).

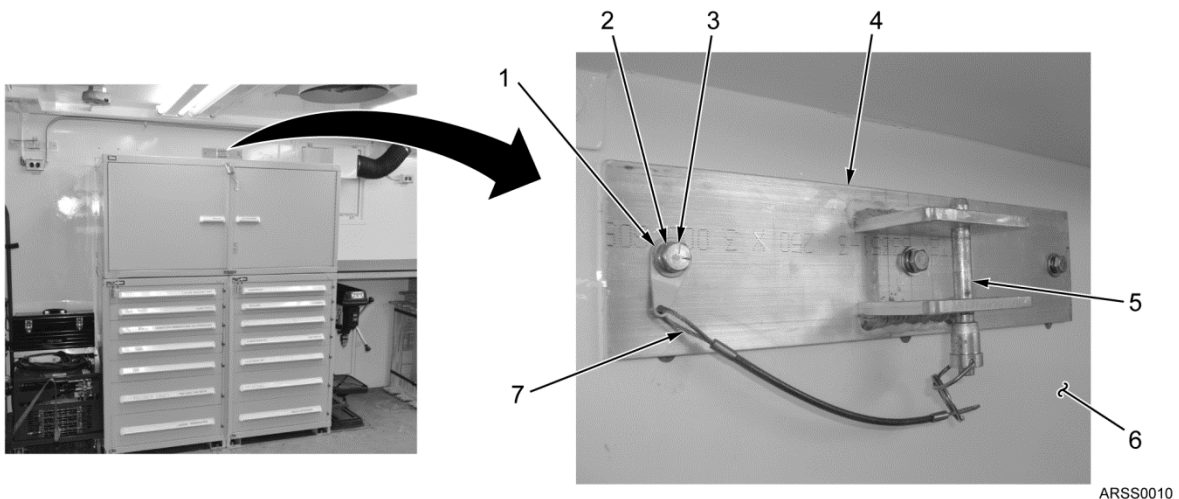


Figure 1. Ammo Cabinet Bracket Replacement

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
AMMO CABINET INNER / OUTER ROD LATERAL BRACKET REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Nut, Self-Locking (WP 0109, Item 4)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL**NOTE**

There are two inner/outer rod lateral brackets in the ARSS on top of ammo cabinet.
The following procedure covers one inner/outer rod lateral bracket. The remaining inner/outer rod lateral bracket is replaced the same way.

1. Remove pin (Figure 1, Item 1) from lateral bracket (Figure 1, Item 2) and ammo cabinet (figure 1, Item 5).
2. Remove bolt (Figure 1, Item 3), locknut (Figure 1, Item 6), four flat washers (Figure 1, Item 4) and lateral bracket (Figure 1, Item 2) from ammo cabinet (Figure 1, Item 5). Discard locknut.

END OF TASK**INSTALLATION****NOTE**

Ensure bolt is not over tightened so lateral bracket can rotate freely.

1. Install lateral bracket (Figure 1, Item 2), four flat washers (Figure 1, Item 4), bolt (Figure 1, Item 3), new locknut (Figure 1, Item 6) on ammo cabinet (Figure 1, Item 5).
2. Install pin (Figure 1, Item 1) securing lateral bracket (Figure 1, Item 2) to ammo bracket (Figure 1, Item 5).

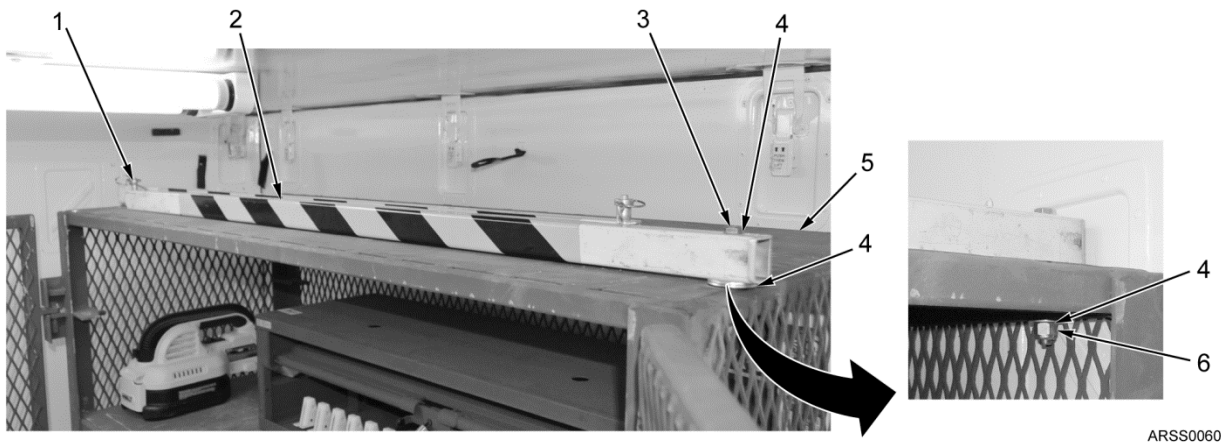


Figure 1. Inner / Outer Rod Lateral Bracket Replacement.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE TOOL BOX REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

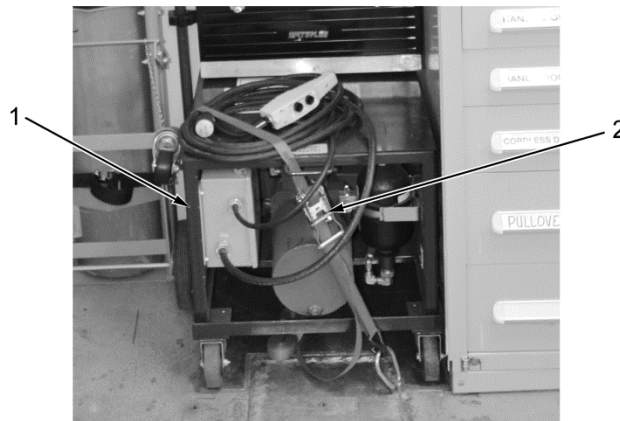
Wheeled Vehicle Mechanic - 91B

Materials/Parts

Nut, Self-Locking Qty: 4 (WP 0110, Item 6)

REMOVAL

1. Release ratchet strap (Figure 1, Item 2) and move nitrogen intensifier (Figure 1, Item 1) to gain access to tool box mounting hardware.



ARSS0072

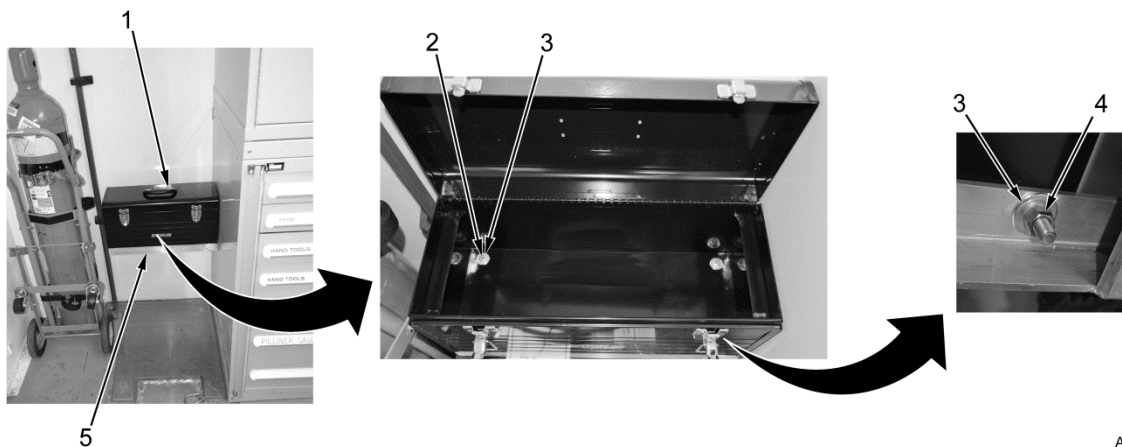
Figure 1. Nitrogen Intensifier Removal.

REMOVAL - Continued

2. Open tool box (Figure 2, Item 1) and empty contents.
3. Remove four locknuts (Figure 2, Item 4), bolts (Figure 2, Item 2), and tool box (Figure 2, Item 1) from bracket (Figure 2, Item 5). Discard locknuts

END OF TASK**INSTALLATION**

1. Install tool box (Figure 2, Item 1), eight flat washers (Figure 2, Item 3), four bolts (Figure 2, Item 2), and new locknuts (Figure 2, Item 4) on bracket (Figure 2, Item 5).
2. Refill contents and close tool box (Figure 2, Item 1).



ARSS0031

Figure 2. Tool Box Replacement.

3. Secure nitrogen intensifier (Figure 3, Item 1) back in position with ratchet strap (Figure 3, Item 2).



ARSS0073

Figure 3. Nitrogen Intensifier Installation

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE

TOOL BOX BRACKET REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 2 (WP 0110, Item 4)

Equipment Condition

Tool box removed (WP 0082)

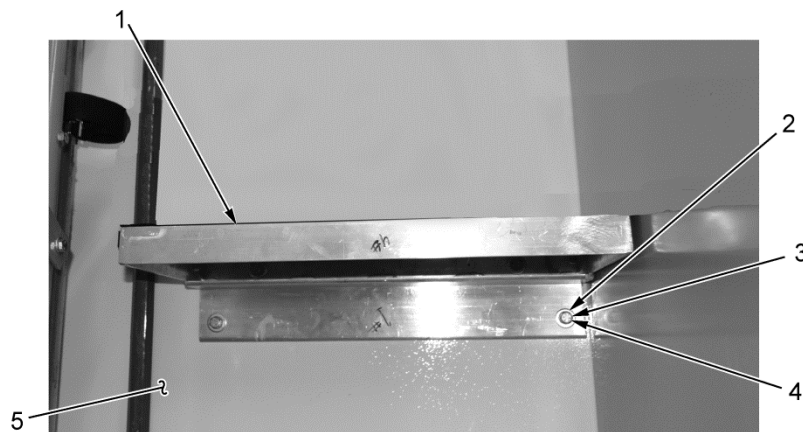
REMOVAL

Remove two bolts (Figure 1, Item 4), lockwashers (Figure 1, Item 3), flat washers (Figure 1, Item 2), and bracket (Figure 1, Item 1) from shelter wall (figure 1, Item 5). Discard lockwashers.

END OF TASK

INSTALLATION

Install bracket (Figure 1, Item 1), two flat washers (Figure 1, Item 2), new lockwashers (Figure 1, Item 3), and bolts (Figure 1, Item 4) on shelter wall (Figure 1, Item 5).



ARSS0043

Figure 1. Tool Box Bracket Replacement.

END OF TASK

FOLLOW-ON MAINTENANCE

Install tool box (WP 0082)

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
FIST CLAMP MOUNTING REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 2 (WP 0111, Item 3)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL**NOTE**

There are total of two fist clamp mountings in the ARSS. The following procedure covers the replacement of the sledge hammer fist clamps. The crowbar fist clamps are replaced the same way.

1. Remove sledge hammer (Figure 1, Item 1) from two clamps (Figure 1, Item 2).



ARSS0007

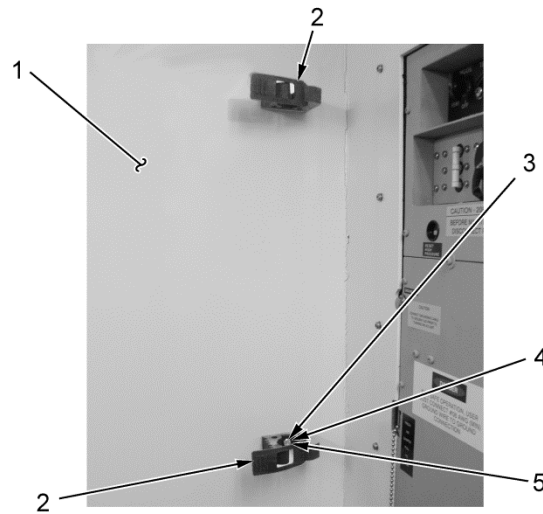
Figure 1. Sledge Hammer Removal.

REMOVAL - Continued

2. Remove two bolts (Figure 2, Item 3), lockwashers (Figure 2, Item 4), washers (Figure 2, Item 5), and clamps (Figure 2, Item 2) from shelter wall (Figure 2, Item 1). Discard lockwashers.

END OF TASK**INSTALLATION**

1. Install two clamps (Figure 2, Item 2), washers (Figure 2, Item 5), new lockwashers (Figure 2, Item 4), and bolts (Figure 2, Item 3) on shelter wall (Figure 2, Item 1).



ARSS0008

Figure 2. Clamp Replacement.

2. Install sledge hammer (Figure 3, Item 1) on two clamps (Figure 3, Item 2).



ARSS0009

Figure 3. Sledge Hammer Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
DRILL PRESS BRACKET REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

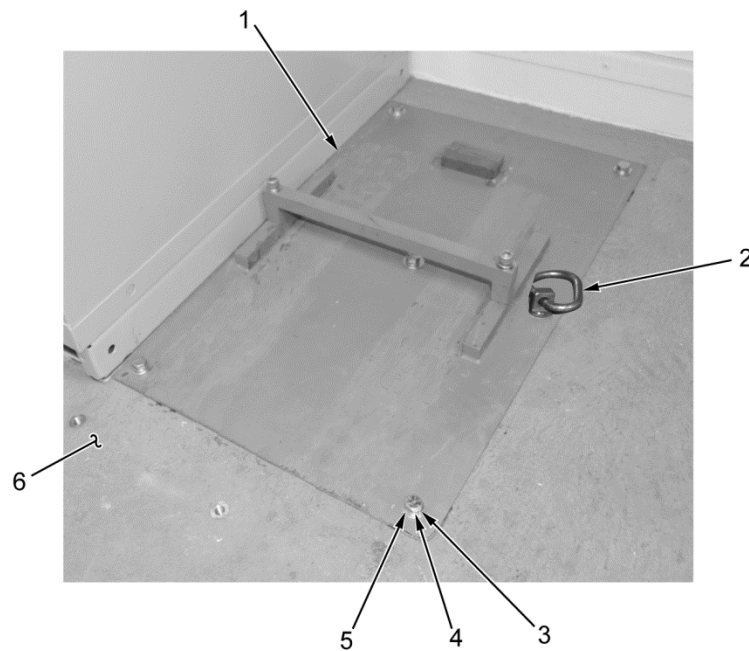
Washer, Lock Qty: 5 (WP 0122, Table 2,
Item 4)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL

Remove d-ring (Figure 1, Item 2), five bolts (Figure 1, Item 3), lockwashers (Figure 1, Item 4), flat washers (Figure 1, Item 5) and drill press bracket (Figure 1, Item 1) from shelter floor (Figure 1, Item 6). Discard lockwashers.



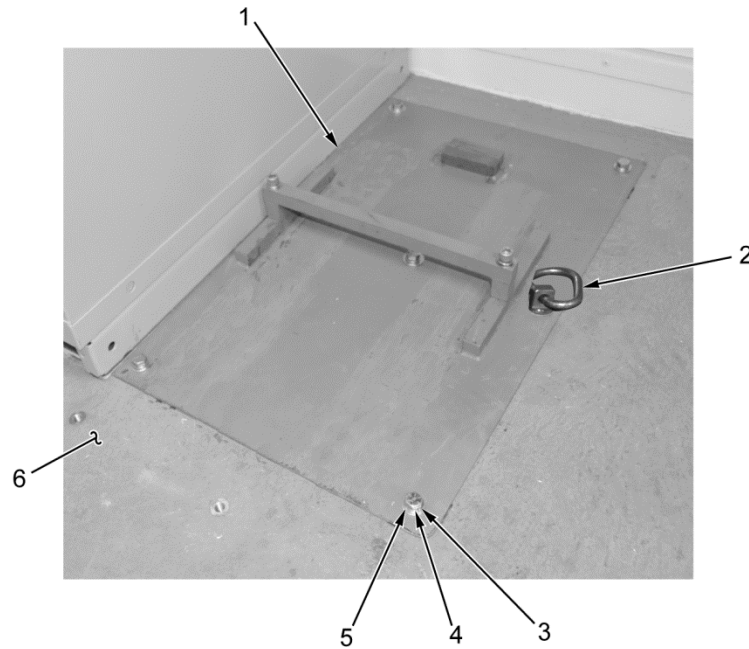
ARSS0158

Figure 1. Drill Press Bracket Removal.

END OF TASK

INSTALLATION

Install drill press bracket (Figure 2, Item 1), five flat washers (Figure 2, Item 5), new lockwashers (Figure 2, Item 4), bolts (Figure 2, Item 3), and d-ring (Figure 2, Item 2) on shelter floor (Figure 2, Item 6).



ARSS0158

Figure 2. Drill Press Bracket Installation.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
COMPRESSED GAS CYLINDER MOUNTING REPLACEMENT

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanic's (WP 0124,
Item 14)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

Washer, Lock Qty: 2 (WP 0113, Item 2)

Equipment Condition

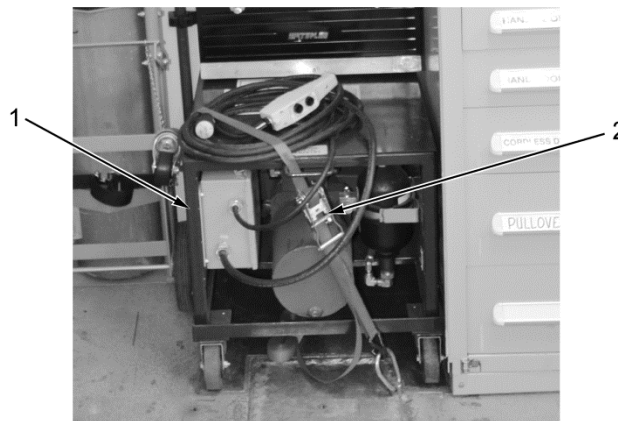
ARSS setup for operation (WP 0006)

Personnel Required

Wheeled Vehicle Mechanic - 91B

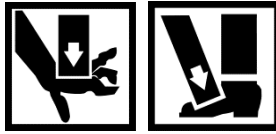
REMOVAL

1. Release ratchet strap (Figure 1, Item 2) and move nitrogen intensifier (Figure 1, Item 1) to gain access to compressed gas cylinder.



ARSS0074

Figure 1. Nitrogen Intensifier Removal.

REMOVAL - Continued**WARNING**

Compressed gas cylinder weighs 115 lb (52 kg). Do not attempt to lift compressed gas cylinder without aid of another person. Compressed gas cylinder can crush or pinch extremities. Failure to follow this warning may result in injury or death.

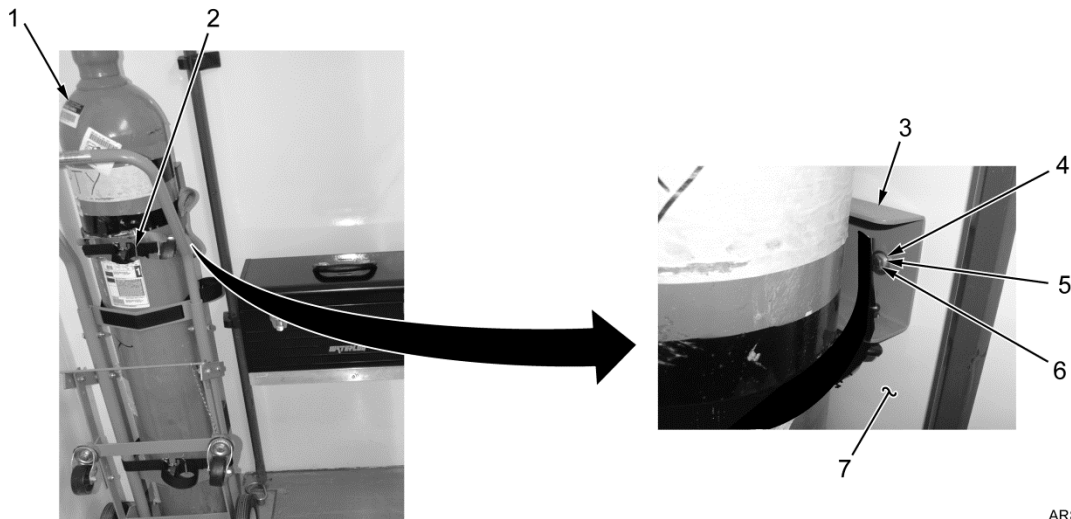
NOTE

There are two wall mounts on shelter wall for the compressed gas cylinder. The following procedure covers replacement of one wall mount. The remaining wall mount is replaced the same way.

2. Release two cam buckles (Figure 2, Item 2) and remove compressed gas cylinder (Figure 2, Item 1) from two wall mounts (Figure 2, Item 3).
3. Remove two bolts (Figure 2, Item 6), lockwashers (Figure 2, Item 5), flat washers (Figure 2, Item 4), and wall mount (Figure 2, Item 3) from shelter wall (Figure 2, Item 7). Discard lockwashers.

END OF TASK**INSTALLATION**

1. Install wall mount (Figure 2, Item 3), two flat washers (Figure 2, Item 4), new lockwashers (Figure 2, Item 5), and bolts (Figure 2, Item 6) on shelter wall (Figure 2, Item 7).
2. Install compressed gas cylinder (Figure 2, Item 1) on two wall mounts (Figure 2, Item 3) and secure with two cam buckles (Figure 2, Item 2).

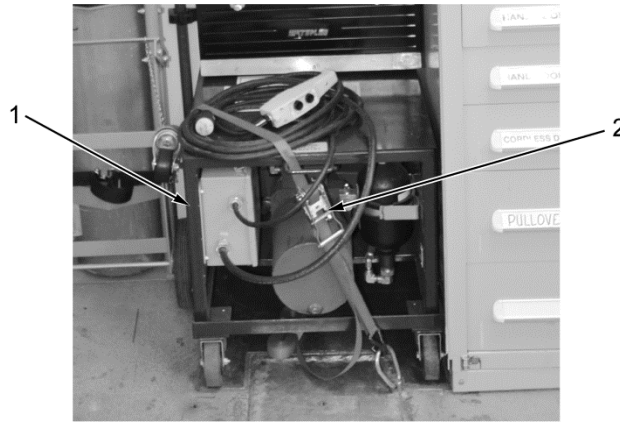


ARSS0050

Figure 2. Compressed Gas Cylinder Mounting Replacement.

INSTALLATION - Continued

3. Secure nitrogen intensifier (Figure 3, Item 1) back in position with ratchet strap (Figure 3, Item 2).



ARSS0075

Figure 3. Nitrogen Intensifier Installation

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE FIRE EXTINGUISHER BRACKET REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Washer, Lock Qty: 6 (WP 0114, Item 2)

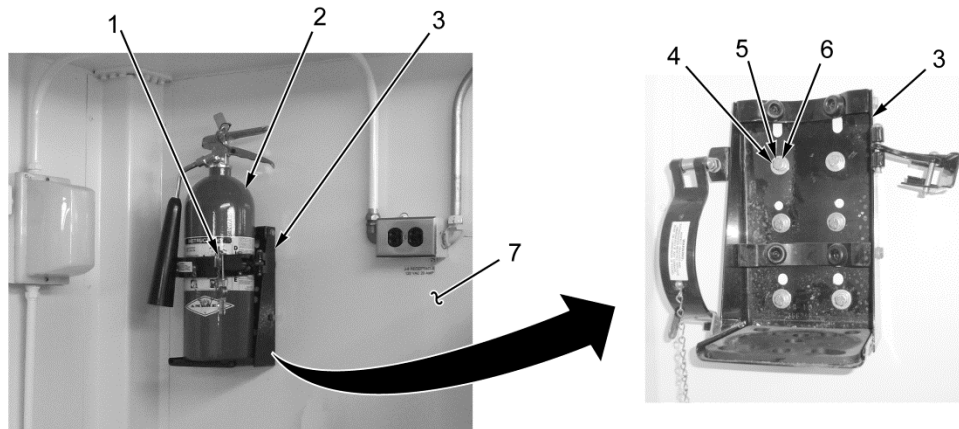
REMOVAL

1. Release latch (Figure 1, Item 1) and remove fire extinguisher (Figure 1, Item 2) from bracket (Figure 1, Item 3).
2. Remove six bolts (Figure 1, Item 4), lockwashers (Figure 1, Item 5), flat washers (Figure 1, Item 6), and bracket (Figure 1, Item 3) from shelter wall (Figure 1, Item 7). Discard lockwashers.

END OF TASK

INSTALLATION

1. Install bracket (Figure 1, Item 3), six flat washers (Figure 1, Item 6), new lockwashers (Figure 1, Item 5), and bolts (Figure 1, Item 4) on shelter wall (Figure 1, Item 7).
2. Install fire extinguisher (Figure 1, Item 2) on bracket (Figure 1, Item 3) and secure latch (Figure 1, Item 1).



ARSS0059

Figure 1. Storage Rack Replacement.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE DATA PLATE REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
Drill-Driver, Electric, Portable (WP 0124, Item 5)
Riveter, Blind, Hand (WP 0124, Item 10)

References

WP 0090

Personnel Required

Wheeled Vehicle Mechanic - 91B

Materials/Parts

Rivet, Blind Qty: 4 (WP 0115, Item 1)

REMOVAL

NOTE

- The following procedure is applicable for all data plates.
- For detailed riveting instructions, refer to General Maintenance (WP 0090).

Remove four rivets (Figure 1, Item 1) and data plate (Figure 1, Item 2) from surface (Figure 1, Item 3). Discard rivets.

END OF TASK

INSTALLATION

Install data plate (Figure 1, Item 2) and four new rivets (Figure 1, Item 1) on surface (Figure 1, Item 3).



ARSS0163

Figure 1. Spring Latch Replacement.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE PREPARATION FOR SHIPMENT AND STORAGE

INITIAL SETUP:

Tools and Special Tools

Wrench, Open 18" (WP 0124, Item 18)

References

TM 10-5411-201-14

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

Equipment Condition

ARSS shelter secured for transport (WP 0008)

GENERAL INFORMATION

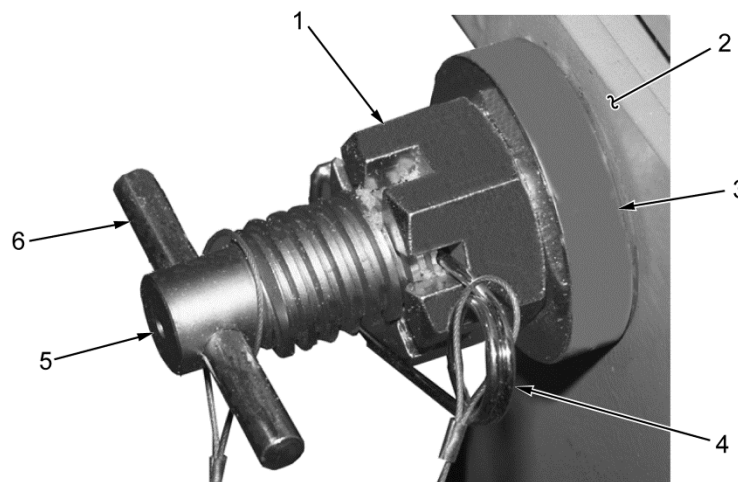
Refer to Shelter Handling (TM 10-5411-201-14) for additional procedures on transporting shelter using flatbed or railroad.

LOADING SHELTER ONTO TRAILER

NOTE

- For shelter lifting procedures, refer to Shelter Handling (TM 10-5411-201-14).
- Repeat Steps 1 thru 4 for all four ISO extension blocks.

1. Remove locking pin (Figure 1, Item 4) from block T-lock (Figure 1, Item 5) located on ISO extension block (Figure 1, Item 2), which is attached to trailer.
2. Turn nut (Figure 2, Item 1) of block T-lock (Figure 1, Item 5) counterclockwise to loosen.
3. While holding collar (Figure 1, Item 3), rotate T-handle (Figure 1, Item 6) to vertical position.
4. Pull to remove block T-lock (Figure 1, Item 5) from ISO extension block (Figure 1, Item 2).

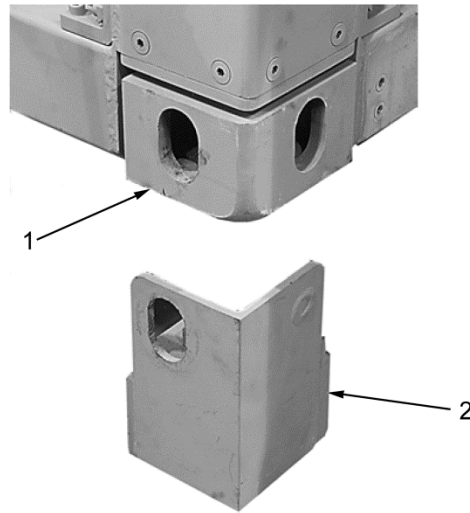


ARSS0408

Figure 1. ISO block T-lock Removal.

LOADING SHELTER ONTO TRAILER - Continued

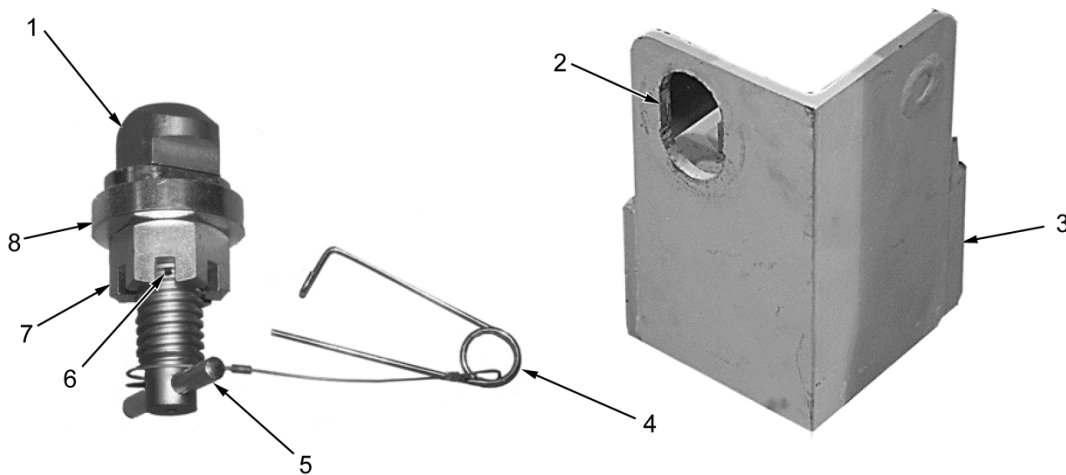
5. Lift shelter in accordance with Shelter Handling (TM 10-5411-201-14) about 18 in (45.7 cm) off ground.
6. Attached ISO extension block (Figure 2, Item 2) to each of four corners (Figure 2, Item 1) of shelter by following Steps 7 thru 10.



ARSS0409

Figure 2. ISO Extension Block.

7. Insert block T-lock (Figure 3, Item 1) in ISO block corner slot (Figure 3, Item 2).
8. While holding collar (Figure 3, Item 8), rotate T-handle (Figure 3, Item 5) to horizontal position.
9. Rotate nut (Figure 3, Item 7) clockwise to tighten until secure revealing holes (Figure 3, Item 6) for locking pin (Figure 3, Item 4).
10. Insert locking pin (Figure 3, Item 4) into holes (Figure 3, Item 6) between nut (Figure 3, Item 7) notches and clasp locking pin shut.

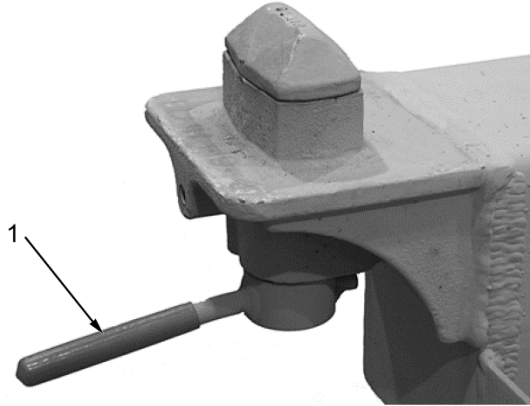


ARSS0410

Figure 3. Place Shelter on Trailer.

LOADING SHELTER ONTO TRAILER - Continued

11. Place shelter on trailer and secure by rotating lock handles (Figure 4, Item 1) of trailer lock (located at each corner) 90 degrees.

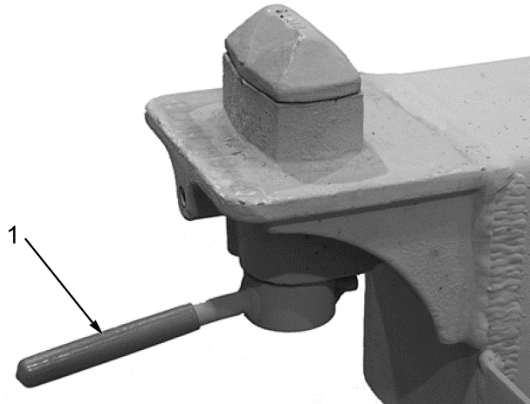


ARSS0411

Figure 4. Trailer Lock.

END OF TASK**REMOVING SHELTER FROM TRAILER**

1. Unlock shelter from trailer by rotating four lock handles (Figure 5, Item 1) 90 degrees.



ARSS0411

Figure 5. Trailer Lock.

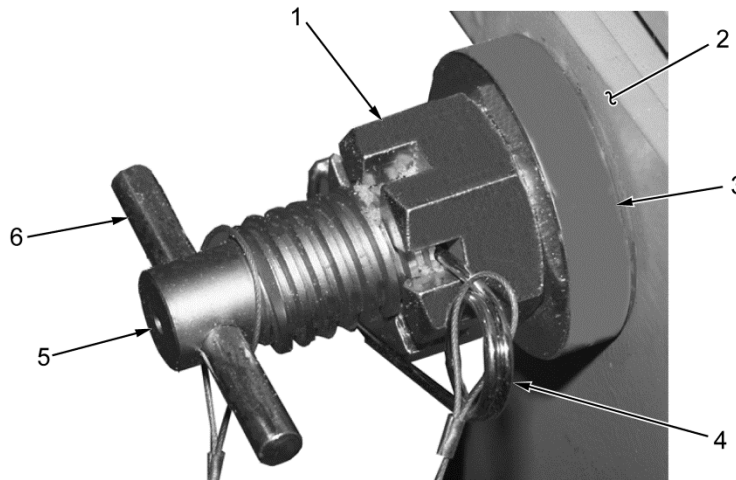
REMOVING SHELTER FROM TRAILER - Continued

2. Remove locking pin (Figure 6, Item 4) from block T-lock (Figure 6, Item 5).
3. Pull to remove block T-lock (Figure 6, Item 5) from ISO extension block (Figure 6, Item 2).
4. Lift shelter in accordance with Shelter Handling (TM 10-5411-201-14) off trailer and position about 18 in (45.7 cm) off ground.

CAUTION

Use two personnel when removing ISO extension blocks. ISO extension blocks can fall and hit ground. Failure to follow this caution may result damage to equipment.

5. While shelter is off ground, remove four ISO extension blocks (Figure 6, Item 2) by holding collar (Figure 6, Item 3), rotating T-handle (Figure 6, Item 6) to vertical position, and pulling block T-lock (Figure 6, Item 5) straight out.



ARSS0408

Figure 6. ISO Block T-lock Removal.

NOTE

ISO extension blocks must be kept with trailer.

6. Continue lowering shelter to ground.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE GENERAL MAINTENANCE

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanic's (WP 0124, Item 14)
 Bit, Drill 1/4" Part of Drill Set, Twist (WP 0124, Item 1)
 Bit, Drill 1/8" Part of Drill Set, Twist (WP 0124, Item 2)
 Bit, Drill 3/16" Part of Drill Set, Twist (WP 0124, Item 3)
 Drill-Driver, Electric, Portable (WP 0124, Item 5)
 Riveter, Blind, Hand (WP 0124, Item 10)

Materials/Parts

Goggles, Safety (WP 0122, Item 27)
 Sealing Compound (WP 0123, Item 5)

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

REPAIR OR REPLACEMENT

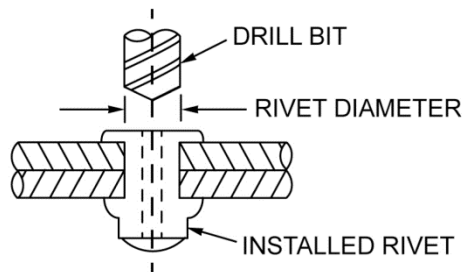
Rivet Removal

WARNING



Wear safety goggles for eye protection from flying metal chips. Flying metal chips can act as projectiles when released and could cause severe eye injury. Failure to follow this warning may cause injury.

1. Punch out center of rivet.
2. Select drill bit the same diameter as shank of installed blind rivet and hold drill perpendicular to surface to prevent enlargement or damage to existing hole (Figure 1).

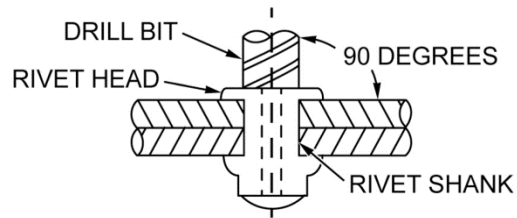


ARSS0066

Figure 1. Installed Rivet.

REPAIR OR REPLACEMENT - Continued**Rivet Removal - Continued**

3. Drill through center of rivet just deep enough to sever rivet head from shank.
4. Remove remainder of rivet with a pin punch and deburr rivet hole (Figure 2).

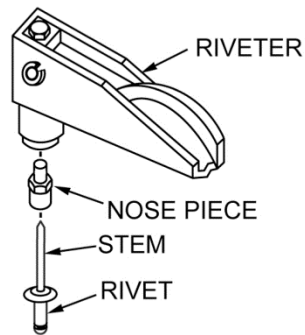


ARSS0067

Figure 2. Rivet Removal.

Rivet Installation

1. Select proper diameter and length of rivet.
2. Select appropriate nose piece for riveter and install nose piece (Figure 3).

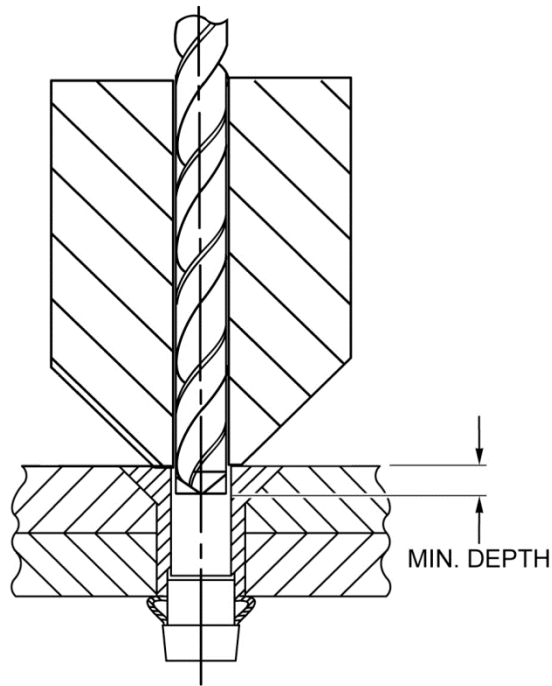


ARSS0068

Figure 3. Hand Riveter with Nose Piece.

REPAIR OR REPLACEMENT - Continued**Rivet Installation - Continued**

5. Holding riveter at right angle to work, install on blind rivet stem. Push against work with just enough force to firmly seat rivet and prevent part separation.
6. Actuate and pull rivet until stem breaks. Trim broken stem flush with rivet head.
7. Firmly press on installed rivet to check tightness of installation.
8. Remove and replace in accordance with procedure if installation failed.



ARSS0069

Figure 4. Seating Rivet.

REPAIR OR REPLACEMENT - Continued**Installation of Blind Rivets**

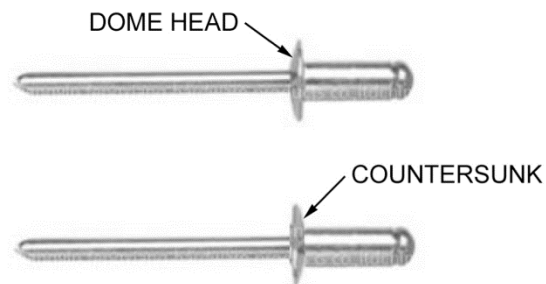
1. Determine type, size, and grip of rivet IAW Tables 1 and 2 and Figure 5. Grip length equals the combined thickness of the materials being fastened together.

Table 1. Rivet Sizing.

| | | | DOVE HEAD | | | | 120 DEGREE COUNTERSUNK | |
|------------------------------|-----------------------------|-----------------------------|---|--------------------------------|--|--------------------------------|---|-----------------------------|
| | | | Aluminum Closed- End with Steel Mandrel | | Aluminum Closed- End with Aluminum Mandrel | | Aluminum Closed-End with Steel Mandrel | |
| | D | H | E | W | E | W | E | W |
| Nominal Rivet Diameter | Nominal Body Diameter | Nominal Head Diameter | Nominal Head Weight | Nominal Mandrel Diameter | Nominal Head Weight | Nominal Mandrel Diameter | Ref Head Weight | Nominal Head Diameter |
| 1/8 | 0.125 | 0.236 | 0.036 | 0.064 | 0.036 | 0.072 | 0.035 | 0.084 |
| 5/32 | 0.156 | 0.312 | 0.051 | 0.086 | 0.051 | 0.090 | 0.050 | 0.086 |
| 3/16 | 0.187 | 0.375 | 0.066 | 0.104 | 0.066 | 0.108 | 0.060 | 0.104 |
| 1/4 | 0.250 | 0.500 | 0.084 | 0.144 | - | - | - | - |

REPAIR OR REPLACEMENT - Continued**Installation of Blind Rivets - Continued****Table 2. Closed-End Rivets.**

| Rivet Body Material | Designation |
|------------------------------------|-------------|
| A = Aluminum | A |
| Head Style | D |
| D = Dome Head | |
| K = Countersunk | |
| Rivet Diameter in 32nds of an Inch | 4 |
| Example: 4 equals 4/16ths or 1/4 | 4 |
| Maximum grip range | |
| Mandrel Material | A |
| A = Aluminum | |
| No Letter = Carbon Steel | |
| Core Design | H |
| H = Hollow Core | |
| S = Solid Core | |



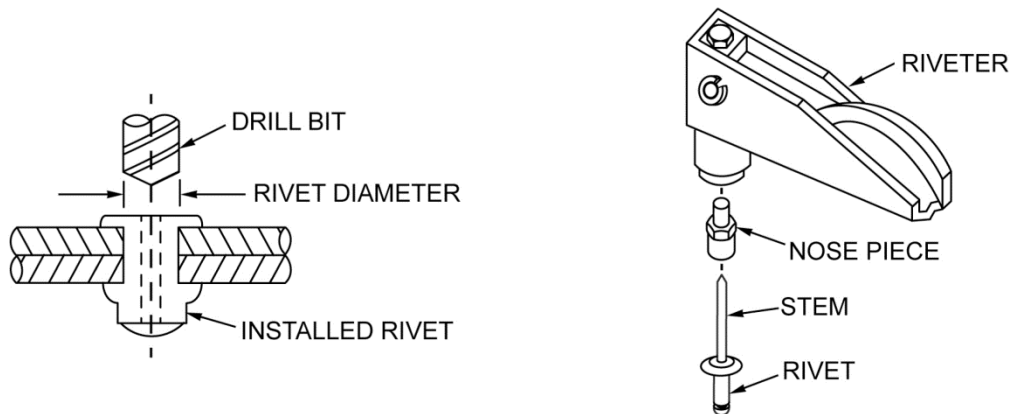
ARSS0070

Figure 5. Closed-End Rivets.

REPAIR OR REPLACEMENT - Continued**Installation of Blind Rivets - Continued****WARNING**

Wear safety goggles for eye protection from flying metal chips. Flying metal chips can act as projectiles when released and could cause severe eye injury. Failure to follow this warning may cause injury.

2. Drill hole in structure according to Tables 1 and 2 and Figure 6. Make certain correct size drill bit is used.
3. Countersink hole for flush-head rivets.
4. Deburr hole and remove residual metal chips.
5. Install rivet in hole. If necessary, use sheet metal fasteners to temporarily align and hold sheets together before pulling rivet.
6. Select correct size pulling head for rivet gun for rivet being installed.
7. Place stem of rivet in puller head.
8. Hold rivet gun so puller head is perpendicular to sheet surface and depress trigger mechanism to install rivet.
9. The stem will automatically break off and separate below rivet head surface. No filling is required.
10. After installation, verify rivet is tight and properly seated flat against surface. Lightly tap rivet or attempt to rotate or move rivet head with fingers. If rivet is installed properly, there will be no indication of movement.



ARSS0071

Figure 6. Blind Rivet Procedures.

REPAIR OR REPLACEMENT - Continued**Removing Blind Rivets****WARNING**

Wear safety goggles for eye protection from flying metal chips. Flying metal chips can act as projectiles when released and could cause severe eye injury. Failure to follow this warning may cause injury.

CAUTION

Use extreme care when drilling rivet head to avoid elongating hole. Keep drill perpendicular to material and do not exert excessive pressure on drill. Failure to follow this caution may result in damage to shelter.

1. Drill through center of rivet head. Refer to Table 3 to select proper size drill bit.

Table 3. Drill Bit Sizing.

| Rivet Size (Inch) | Drill Size |
|------------------------------|-------------------|
| 3/32 | No. 40 |
| 1/8 | No. 30 |
| 5/32 | No. 21 |
| 3/16 | No. 10 |
| 1/4 | F |

2. Using a pin punch, remove rivet head from shelter surface.
3. Using a pin punch and hammer, remove rivet shank. If shank does not push out it may be necessary to drill rivet shank. Refer to Step 1 to select proper rivet size.

END OF TASK

END OF WORK PACKAGE

**FIELD MAINTENANCE
ILLUSTRATED LIST OF MANUFACTURED ITEMS**

INITIAL SETUP:

Not Applicable

INTRODUCTION**Scope**

This work package includes complete instructions for making items authorized to be manufactured or fabricated at the field maintenance level.

How to Use the Index of Manufactured Items

A part number index in alphanumeric order is provided for cross-referencing the part number of the item to be manufactured to the page which covers fabrication criteria.

Explanation of the Illustrations of Manufactured Items

All instructions needed by maintenance personnel to manufacture the item are included on the illustrations. All bulk materials needed for the manufacture of an item are listed by part number or specification number in a tabular list on the illustration.

Table 1. Index of Manufactured Items.

| ITEM NO. | PART NUMBER/ (CAGEC) | DESCRIPTION | DRAWING NUMBER | FIGURE NUMBER |
|----------|-------------------------|------------------------------|----------------|---------------|
| 1 | A-A-55126 (58536) | Fastener Tape, Hook and Loop | | 1 |
| 2 | 7125K692 (39428) | Wire, Electrical (Black) | | 2 |
| 3 | 7125K697 (39428) | Wire, Electrical (White) | | 2 |
| 4 | 7125K696 (39428) | Wire, Electrical (Red) | | 2 |
| 5 | 7125K451 (39428) | Wire, Electrical (White) | | 2 |
| 6 | 7125K073 (39428) | Wire, Electrical (Blue) | | 2 |
| 7 | 7125K71 (39428) | Wire, Electrical (Black) | | 2 |

Table 1. Index of Manufactured Items - Continued.

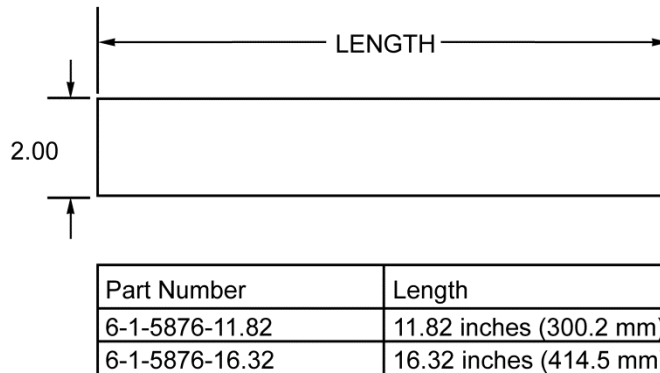
| | | | | |
|----|------------------|--------------------------|--|---|
| 8 | 7125K079 (39428) | Wire, Electrical (White) | | 2 |
| 9 | 7125K072 (39428) | Wire, Electrical (Red) | | 2 |
| 10 | 27033001 (22123) | Wire, Electrical (White) | | 2 |
| 11 | SOOW 8/4 (6W7T5) | Wire, Electrical | | 2 |
| 12 | 27032201 (22123) | Wire, Electrical (Black) | | 2 |
| 13 | 5233K66 (39428) | Wire, Electrical | | 2 |
| 14 | 27036301 (22123) | Wire, Electrical (Green) | | 2 |
| 15 | 5266K31 (39428) | Duct, Flexible | | 3 |
| 15 | 5233K66 (39428) | Tubing, Nonmetallic | | 4 |

HOOK AND LOOP FASTENER TAPE**Notes**

1. Fabricate hook and loop fastener tape from:

| QTY | DESCRIPTION | PART NO./(CAGEC) | NSN |
|-----|------------------------------|-------------------|------------------|
| 1 | Fastener Tape, Hook and Loop | A-A-55126 (58536) | 8315-00-006-9835 |

2. Cut bulk hook and loop fastener tape to required length.
3. Width of bulk hook and loop fastener tape is 2.0 inch (50.8 mm).
4. All dimensions are in inches unless otherwise stated.



ARSS0383

Figure 1. Hook And Loop Fastener Tape Dimensions.

ELECTRICAL WIRE**Notes**

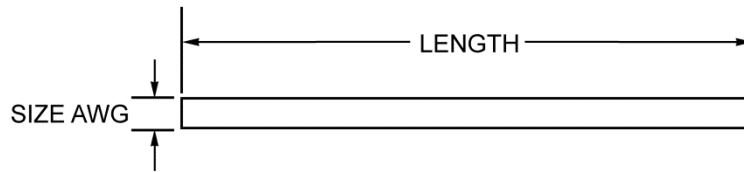
1. Fabricate electrical wire from:

| QTY | DESCRIPTION | PART NO./(CAGEC) | NSN |
|-----|--------------------------|------------------|------------------|
| 1 | Wire, Electrical (Black) | 7125K692 (39428) | 6145-01-625-9849 |
| 2 | Wire, Electrical (White) | 7125K697 (39428) | 6145-01-625-9857 |
| 3 | Wire, Electrical (Red) | 7125K696 (39428) | 6145-01-625-9853 |
| 4 | Wire, Electrical (White) | 7125K451 (39428) | 6145-01-627-3979 |
| 5 | Wire, Electrical (Blue) | 7125K073 (39428) | 6145-01-627-1154 |
| 6 | Wire, Electrical (Black) | 7125K71 (39428) | 6145-01-626-9590 |

ELECTRICAL WIRE - Continued**Notes - continued**

| | | | |
|----|----------------------------|------------------|------------------|
| 7 | Wire, Electrical (White) | 7125K079 (39428) | - |
| 8 | Wire, Electrical (Red) | 7125K072 (39428) | 6145-01-627-1169 |
| 9 | Wire, Electrical (White) | 27033001 (22123) | - |
| 10 | Wire, Electrical | SOOW 8/4 (6W7T5) | - |
| 11 | Wire Rope Assembly (Black) | 27032201 (22123) | 4010-01-627-4842 |
| 12 | Wire, Electrical (Blue) | 7125K691 (39428) | 6145-01-625-9855 |
| 13 | Wire Rope Assembly (Green) | 27036301 (22123) | 4010-01-627-4844 |

2. Cut bulk electrical wire to required length.
3. All dimensions are in inches unless otherwise stated.



| Part Number | Length | Size AWG |
|-------------|-------------|----------|
| 7125K692-AR | As Required | 4 |
| 7125K697-AR | As Required | 4 |
| 7125K696-AR | As Required | 4 |
| 7125K694-AR | As Required | 4 |
| 7125K691-AR | As Required | 4 |
| SOOW 4/5-AR | As Required | 4 |
| 7125K471-AR | As Required | 8 |
| 7125K54-AR | As Required | 8 |
| 7125K473-AR | As Required | 8 |
| 7125K474-AR | As Required | 8 |
| SOOW 8/4 | As Required | 8 |
| 27032201-AR | As Required | 16 |
| 27033001-AR | As Required | 16 |
| 27036301-AR | As Required | 16 |

ARSS0384

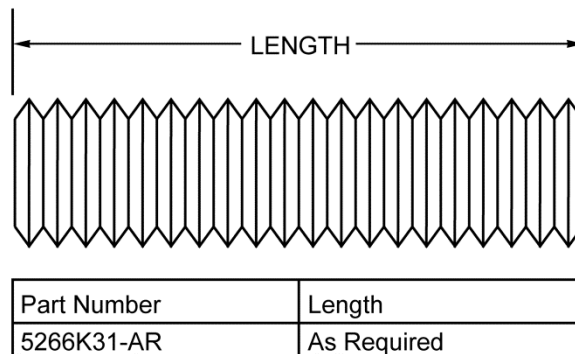
Figure 2. Electrical Wire Dimensions.

FLEXIBLE DUCT**Notes**

1. Fabricate flexible duct from:

| QTY | DESCRIPTION | PART NO./(CAGEC) | NSN |
|-----|----------------|------------------|------------------|
| 1 | Hose, Air Duct | 5266K31 (29428) | 4720-01-627-4706 |

2. Cut bulk flexible duct to required length.
3. All dimensions are in inches unless otherwise stated.



ARSS0423

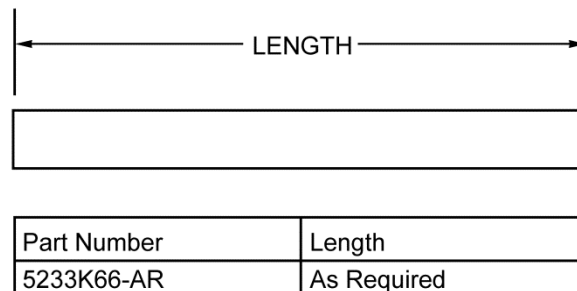
Figure 3. Flexible Duct Dimensions.

NONMETALLIC TUBING**Notes**

1. Fabricate nonmetallic tubing from:

| QTY | DESCRIPTION | PART NO./(CAGEC) | NSN |
|-----|--------------------|------------------|------------------|
| 1 | Nonmetallic Tubing | 5233K66 (39428) | 4720-01-614-3782 |

2. Cut bulk nonmetallic tubing to required length.
3. All dimensions are in inches unless otherwise stated.



ARSS0424

Figure 4. Nonmetallic Tubing Dimensions.

END OF TASK**END OF WORK PACKAGE**

CHAPTER 6

REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

FIELD MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST INTRODUCTION

SCOPE

The Repair Parts and Special Tools List (RPSTL) work package lists and authorizes spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE); and other special support equipment required for performance of Operator and Field Maintenance of the ARSS. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the Source, Maintenance, and Recoverability (SMR) codes.

GENERAL

In addition to the Introduction work package, this RPSTL is divided into the following work packages.

1. **Repair Parts List Work Packages.** Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include 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. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages.
2. **Special Tools List Work Packages.** Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.
3. **Cross-Reference Indexes Work Packages.** There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

ITEM NO. (Column 1). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column 2). The SMR code contains supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout. This entry may be subdivided into four subentries, one for each service.

Table 1. SMR Code Explanation.

| Source Code XX | Maintenance Code XX | Recoverability Code X |
|--|--|---|
| 1st two positions: How to get an item. | 3rd position: Who can install, replace, or use the item. | 4th position: Who can do complete repair * on the item. |
| | | 5th position: Who determines disposition action on unserviceable items. |

* 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.

Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow.

Source Code

Application/Explanation

PA
PB
PC
PD
PE
PF
PG
PH
PR
PZ

NOTE

Items coded PC are subject to deterioration.

Stock Items; use the applicable NSN to requisition/ request items with these source codes. They are authorized to the level indicated by the code entered in the third position of the SMR code.

KD
KF
KB

Items with these codes are not to be requested/ requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

| <u>Source Code</u> | <u>Application/Explanation</u> |
|---|---|
| MF-Made at field MH-Made at below depot/sustainment level ML-Made at SRA MD-Made at depot MG-Navy only | Items with these codes are not to be requisitioned/ requested individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance. |
| AF-Assembled by field AH-Assembled by below depot sustainment level AL-Assembled by SRA AD-Assembled by depot AG-Navy only | 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 third position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance. |
| XA | Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to NOTE below) |
| XB | If an item is not available from salvage, order it using the CAGEC and part number. |
| XC | Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's part number. |
| XD | Item is not stocked. Order an XD-coded item through local purchase or normal supply channels using the CAGEC and part number given, if no NSN is available. |

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those items source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

| <u>Maintenance Code</u> | <u>Application/Explanation</u> |
|-------------------------|---|
| F- | Field maintenance can remove, replace, and use the item. |
| H- | Below Depot Sustainment maintenance can remove, replace, and use the item. |
| L- | Specialized repair activity can remove, replace, and use the item. |
| G- | Afloat and ashore intermediate maintenance can remove, replace, and use the item (Navy only). |
| K- | Contractor facility can remove, replace, and use the item. |
| Z- | Item is not authorized to be removed, replaced, or used at any maintenance level. |
| D- | Depot can remove, replace, and use the item. |

NOTE

Army may use C in the third position. However, for joint service publications, Army will use F.

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

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

| <u>Maintenance Code</u> | <u>Application/Explanation</u> |
|-------------------------|--|
| F- | Field is the lowest level that can do complete repair of the item. |
| H- | Below Depot Sustainment is the lowest level that can do complete repair of the item. |
| L- | Specialized repair activity (enter specialized repair activity or TASMG designator) is the lowest level that can do complete repair of the item. |
| D- | Depot is the lowest level that can do complete repair of the item. |

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

| <u>Maintenance Code</u> | <u>Application/Explanation</u> |
|-------------------------|---|
| G- | Both afloat and ashore intermediate levels are capable of complete repair of the item (Navy only). |
| K- | Complete repair is done at contractor facility. Z- Nonreparable. No repair is authorized. |
| B- | No repair is authorized. No parts of special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

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

| <u>Recoverability Code</u> | <u>Application/Explanation</u> |
|----------------------------|---|
| Z- | Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code. |
| F- | Reparable item. When uneconomically repairable, condemn and dispose of the item at the field level. |
| H- | Reparable item. When uneconomically repairable, condemn and dispose of the item at the below depot sustainment level. |
| D- | Reparable item. When beyond lower level repair capability, return the item to depot. Condemnation and disposal of the item are not authorized below depot level. |
| L- | Reparable item. Condemnation and disposal are not authorized below Specialized Repair Activity (SRA). |
| A- | Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions. |
| G- | Field level repairable item. Condemnation and disposal to be performed at either afloat or ashore intermediate levels (Navy only). |
| K- | Reparable item. Condemnation and disposal to be performed at contractor facility. |

NSN (Column (3)). The NSN for the item is listed in this column.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). 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 than the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

1. The federal item name, and when required, a minimum description to identify the item.
2. Part numbers of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
4. The statement END OF FIGURE appears just below the last item description in Column (6) for a given figure in both the repair parts list and special tools list work packages.
5. Refer to Usable on Code details presented later in this work package under SPECIAL INFORMATION.

QTY (Column (7)). 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 instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. **National Stock Number (NSN) Index Work Package.** NSNs in this index are listed in National Item Identification Number (NIIN) sequence.
 - a. **STOCK NUMBER Column.** This column lists the NSN in NIIN sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number. For example, if the NSN is 5385-01-574-1476, the NIIN is 01-574-1476.
 - b. **FIG. Column.** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.
 - c. **ITEM Column.** The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same list.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS - Continued

2. **Part Number (P/N) Index Work Package.** Part numbers in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter of digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).
 - a. **PART NUMBER Column.** Indicates the part number assigned to the item.
 - b. **FIG. Column.** This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.
 - c. **ITEM Column.** The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

SPECIAL INFORMATION

UOC. The UOC 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 under the applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the UOCs used in the RPSTL are:

| Code | Used On |
|-------------|----------------|
| ARS | ARSS |

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material work package of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in WP 0090.

Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the NSN / Part Number (P/N) Index work packages and the bulk material list in the repair parts list work package.

Illustrations List. The illustrations in this RPSTL contain field authorized items. Illustrations published in that contain field authorized items also appear in this RPSTL. The tabular list in the repair parts list work package contains only those parts coded "F" in the third position of the SMR code, therefore, there may be a break in the item number sequence.

HOW TO LOCATE REPAIR PARTS

1. When NSNs or Part Numbers Are Not Known.

- a. First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and lists are divided into the same groups.
- b. Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.
- c. Third. Identify the item on the figure and note the number(s).
- d. Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN is Known.

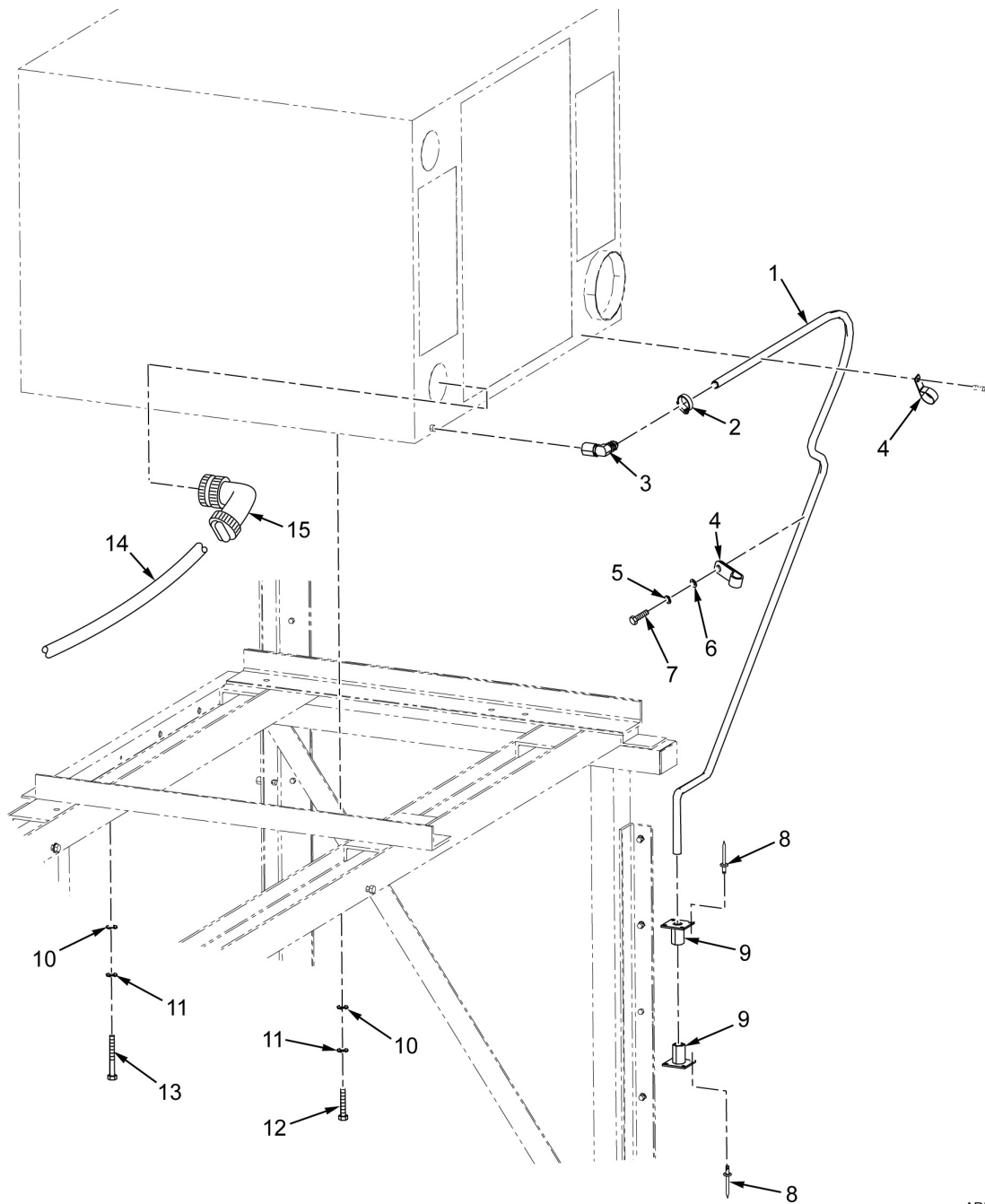
- a. First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.
- b. Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When Part Number Is Known.

- a. First. If you have the part number and not the NSN, look in the PART NUMBER column of the part number index work package. Identify the figure and item number.
- b. Second. Look up the item on the figure in the applicable repair parts list work package.

END OF WORK PACKAGE

FIELD MAINTENANCE
ENVIRONMENTAL CONTROL UNIT (ECU)



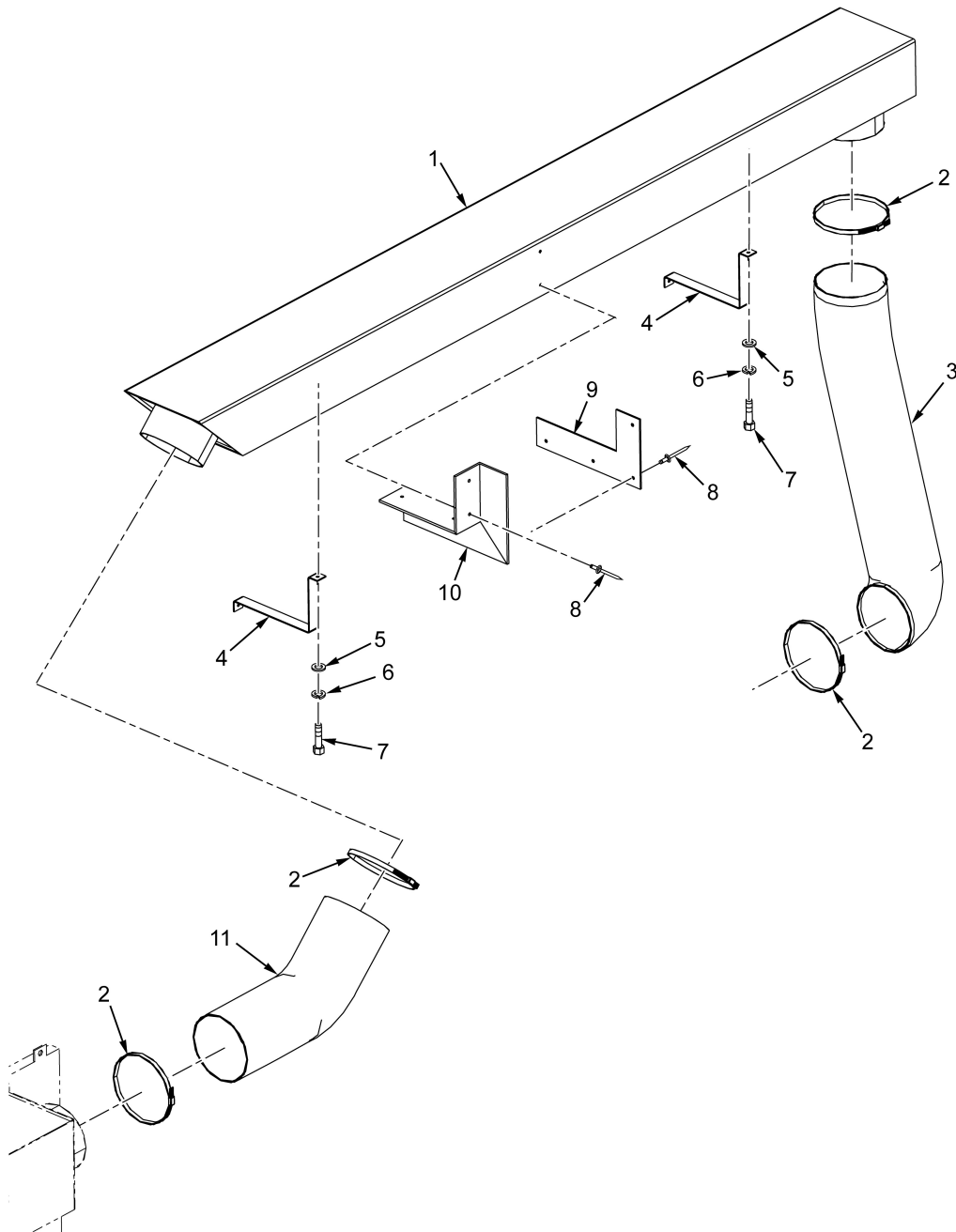
ARR014

Figure 1. ENVIRONMENTAL CONTROL UNIT (ECU)

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0100 ENVIRONMENTAL CONTROL UNIT (ECU) | | | | | | |
| FIG. 1. ENVIRONMENTAL CONTROL UNIT (ECU) | | | | | | |
| 1 | MFFZZ | | 39428 | 5233K66-AR | TUBING, NONMETALLIC MAKE FROM P/N 5233K66 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 2 | PAFZZ | 4730-01-544-0667 | 20722 | 0418C09-0425-01 | CLAMP, HOSE UOC: ARS..... | 1 |
| 3 | PAFZZ | 4730-01-533-0502 | 39428 | 53525K19 | ELBOW, PIPE TO HOSE UOC: ARS..... | 1 |
| 4 | PAFZZ | 5340-01-624-7620 | 39428 | 3177T13 | CLAMP, LOOP UOC: ARS..... | 4 |
| 5 | PAFZZ | 5310-00-543-5933 | 80205 | MS35333-73 | WASHER, LOCK UOC: ARS..... | 2 |
| 6 | PAFZZ | 5310-00-167-0801 | 88044 | AN960C10 | WASHER, FLAT UOC: ARS..... | 2 |
| 7 | PAFZZ | 5305-00-059-3663 | 80205 | MS51958-67 | SCREW, MACHINE UOC: ARS..... | 2 |
| 8 | PAFZZ | 5320-01-506-3436 | 39428 | 97525A430 | RIVET, BLIND UOC: ARS..... | 8 |
| 9 | PFFZZ | 4710-01-625-4417 | 5B5M3 | 11A7000717 | TUBE, BENT, METALLIC UOC: ARS..... | 2 |
| 10 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER, FLAT UOC: ARS..... | 6 |
| 11 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER, LOCK UOC: ARS..... | 6 |
| 12 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW, CAP, HEXAGON H UOC: ARS..... | 4 |
| 13 | PAFZZ | 5305-01-627-4781 | 05047 | AES01F375C00WA6 DG1 | SCREW, CAP, HEXAGON H UOC: ARS..... | 2 |
| 14 | MFFZZ | | 6W7T5 | SOOW 8/4-AR | WIRE, ELECTRICAL MAKE FROM P/N S00W 8/4 CAGE 6W7T5 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 15 | PAFZZ | 5935-01-626-6383 | 43944 | SG3108E24-79S | CONNECTOR BODY, RECE UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
ECU AIR DUCT



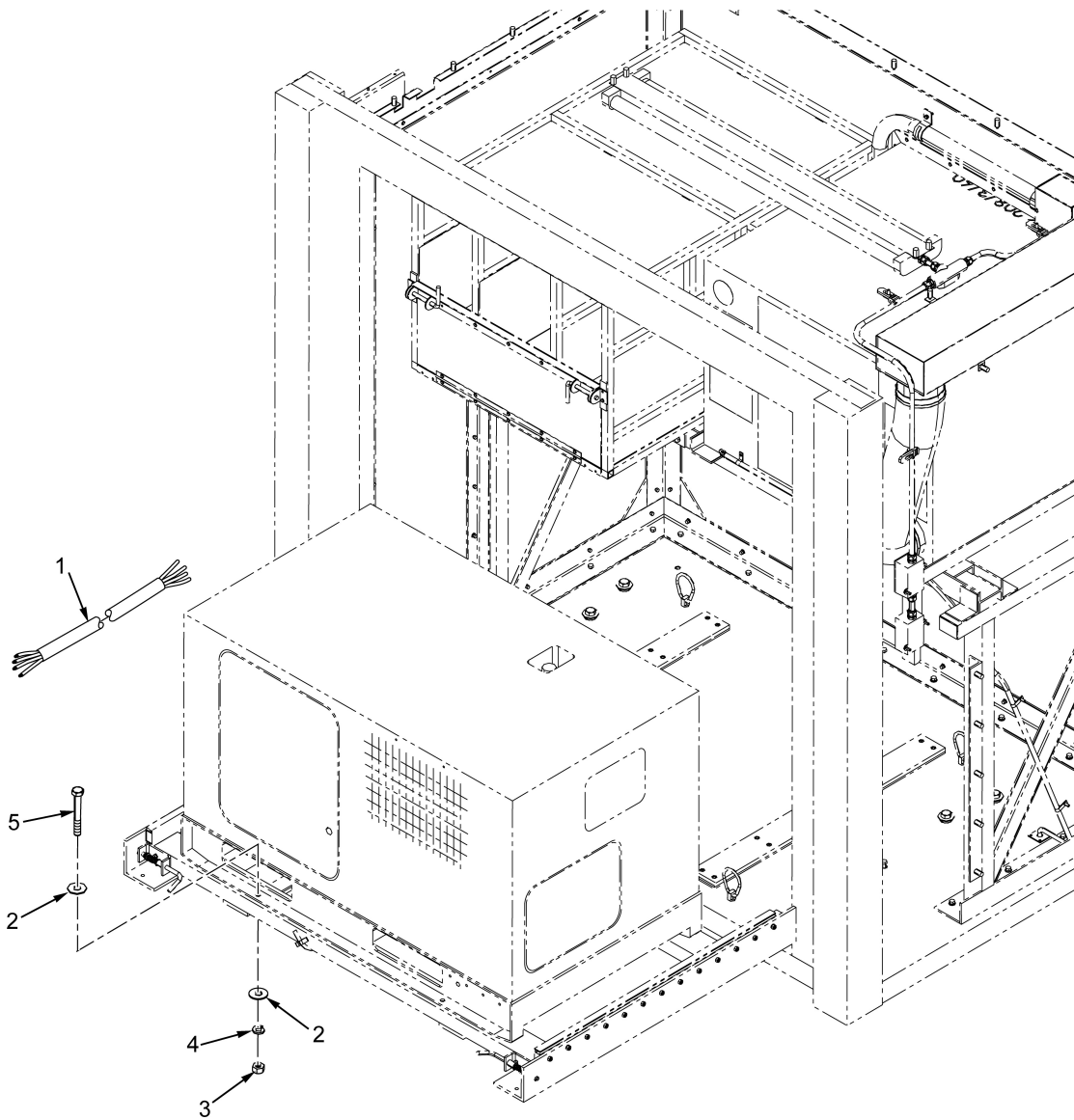
ARR013

Figure 2. ECU AIR DUCT

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------------------|-----------------|------------------|--------------|------------------------|---|------------|
| GROUP 0101 ECU AIR DUCT | | | | | | |
| FIG. 2. ECU AIR DUCT | | | | | | |
| 1 | PAFFF | 5340-01-626-1253 | 5B5M3 | 11A7000508 | DUCT,WELDMENT UOC: ARS..... | 1 |
| 2 | PAFZZ | 4730-01-481-8120 | 4X630 | 863-000399 | CLAMP,HOSE UOC: ARS..... | 4 |
| 3 | MFFZZ | | 5B5M3 | 11A7000694-2 | DUCT, FLEXIBLE MAKE FROM P/N 5266K31 CAGE 39428 AS REQUIRED UOC: ARS..... | 1 |
| 4 | PAFZZ | 5340-01-625-5150 | 5B5M3 | 11A7000522 | BRACKET,MOUNTING UOC: ARS..... | 2 |
| 5 | PAFZZ | 5310-01-625-0641 | 05047 | AEW24X25N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 4 |
| 6 | PAFZZ | 5310-01-357-8844 | 39428 | 91102A029 | WASHER,LOCK UOC: ARS..... | 4 |
| 7 | PAFZZ | 5305-01-549-3074 | 39428 | 92620A564 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 8 | PAFZZ | 5320-01-625-8741 | 39428 | 97447A653 | RIVET,BLIND UOC: ARS..... | 8 |
| 9 | PAFZZ | 5340-01-625-8196 | 5B5M3 | 11A7000652 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 10 | PFFZZ | 5340-01-625-4401 | 5B5M3 | 11A7000521 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 11 | MFFZZ | | 5B5M3 | 11A7000694-1 | DUCT, FLEXIBLE MAKE FROM P/N 5266K31 CAGE 39428 AS REQUIRED UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
GENERATOR



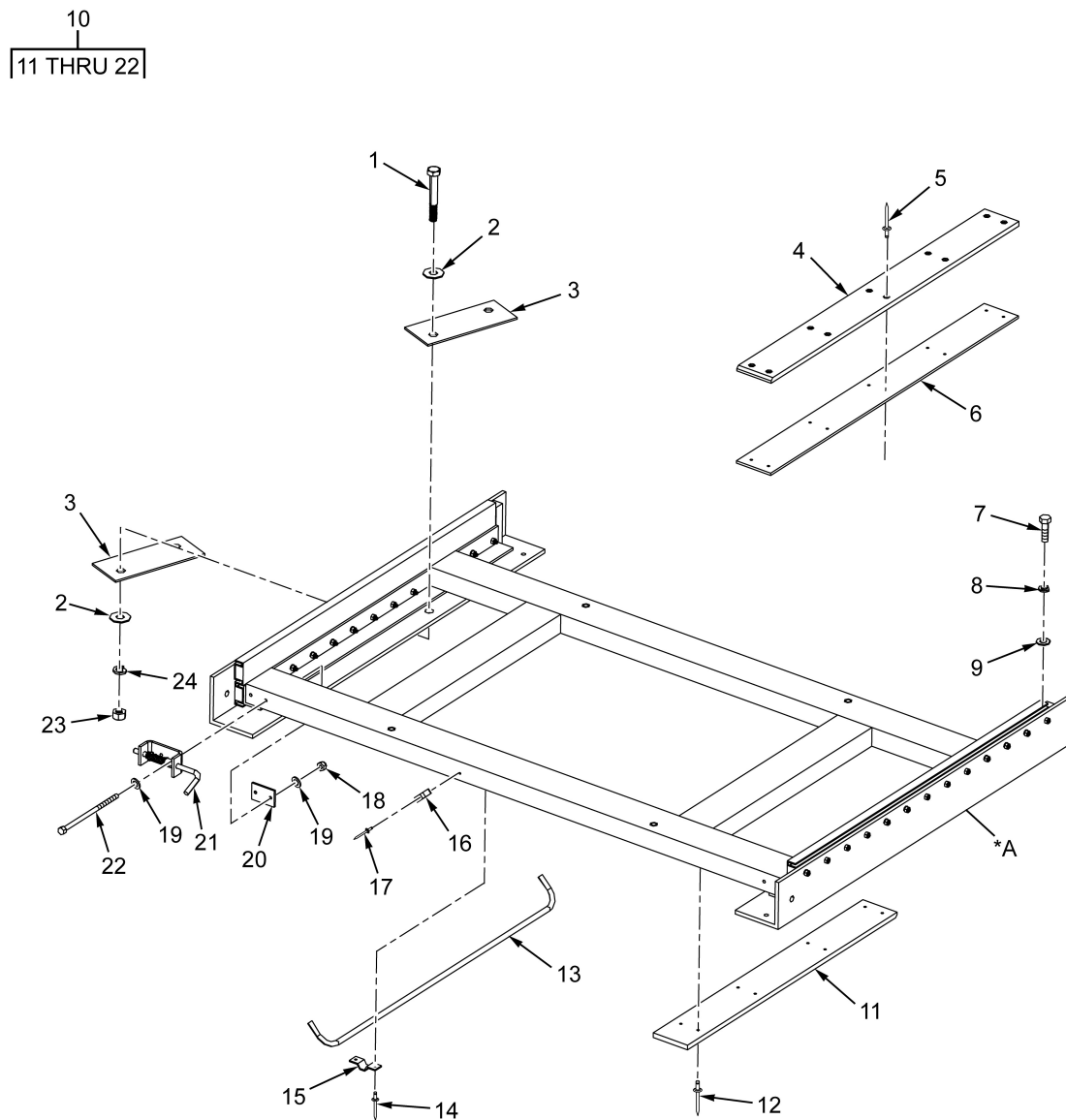
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Figure 3. GENERATOR

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|-----------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0200 GENERATOR | | | | | | |
| FIG. 3. GENERATOR | | | | | | |
| 1 | PAFZZ | 6145-01-625-9344 | 39428 | 7081K29 | CABLE,POWER,ELECTRI UOC: ARS..... | 1 |
| 2 | PAFZZ | 5310-01-487-6360 | 39428 | 90108A033 | WASHER,FLAT UOC: ARS..... | 8 |
| 3 | PAFZZ | 5310-01-458-5052 | 39428 | 94895A825 | NUT,PLAIN,HEXAGON UOC: ARS..... | 4 |
| 4 | PAFZZ | 5310-01-516-7549 | 39428 | 91104A033 | WASHER,LOCK UOC: ARS..... | 4 |
| 5 | PAFZZ | 5305-01-625-0250 | 39428 | 91257A752 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |

END OF FIGURE

FIELD MAINTENANCE
GENERATOR SLIDE ASSEMBLY



*A PART OF ITEM 10

ARR019

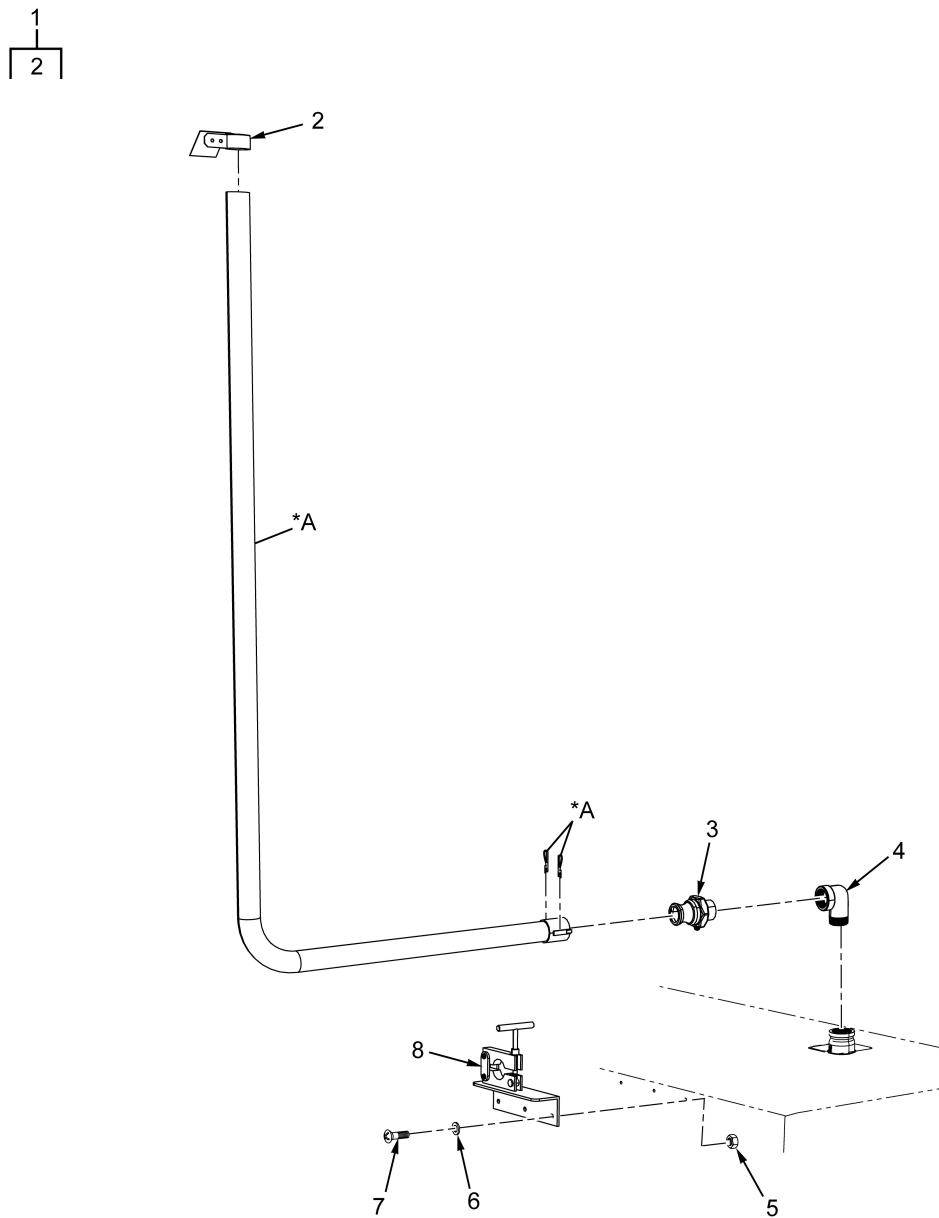
Figure 4. GENERATOR SLIDE ASSEMBLY

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0201 GENERATOR SLIDE ASSEMBLY | | | | | | |
| FIG. 4. GENERATOR SLIDE ASSEMBLY | | | | | | |
| 1 | PAFZZ | 5305-01-624-7038 | 39428 | 91257A855 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 2 | PAFZZ | 5310-01-346-3569 | 39428 | 90108A036 | WASHER,FLAT UOC: ARS..... | 8 |
| 3 | PAFZZ | 5340-01-625-6202 | 5B5M3 | 11A7000635 | PLATE,MOUNTING UOC: ARS..... | 4 |
| 4 | PAFZZ | 5340-01-624-4182 | 5B5M3 | 11A7000608 | SLIDE,DRAWER,EXTENS UOC: ARS..... | 4 |
| 5 | PAFZZ | 5320-01-624-7083 | 39428 | 97447A656 | RIVET,BLIND UOC: ARS..... | 20 |
| 6 | PAFZZ | 5365-01-627-1422 | 5B5M3 | 11A7000662-3 | SHIM UOC: ARS..... | 2 |
| 7 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW,CAP,HEXAGON H UOC: ARS..... | 8 |
| 8 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER,LOCK UOC: ARS..... | 8 |
| 9 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 8 |
| 10 | PAFFF | 5340-01-626-1759 | 5B5M3 | 11A7000655 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 11 | PAFZZ | 5340-01-625-8834 | 5B5M3 | 11A7000586 | . BRACKET,MOUNTING UOC: ARS..... | 2 |
| 12 | PAFZZ | 5320-01-359-6978 | 39428 | 97447A654 | . RIVET,BLIND UOC: ARS..... | 16 |
| 13 | PAFZZ | 5342-01-625-5149 | 5B5M3 | 11A7000728 | . CONTROL ROD UOC: ARS..... | 1 |
| 14 | PAFZZ | 5320-01-625-8741 | 39428 | 97447A653 | . RIVET,BLIND UOC: ARS..... | 4 |
| 15 | PAFZZ | 5340-01-625-8915 | 5B5M3 | 11A7000729 | . BRACKET,MOUNTING UOC: ARS..... | 2 |
| 16 | PAFZZ | 5340-01-059-3561 | 97084 | 225-S | . CLIP,SPRING TENSION UOC: ARS..... | 1 |
| 17 | PAFZZ | 5320-01-543-2084 | 39428 | 97447A055 | . RIVET,TUBULAR UOC: ARS..... | 1 |
| 18 | PAFZZ | 5310-01-606-2476 | 39428 | 97135A215 | . NUT,SELF-LOCKING,H UOC: ARS..... | 4 |
| 19 | PAFZZ | 5310-01-625-0641 | 05047 | AEW24X25N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 8 |
| 20 | PAFZZ | 5340-01-626-0801 | 5B5M3 | 11A7000645 | . PLATE,MOUNTING UOC: ARS..... | 2 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 21 | PAFZZ | 5340-01-625-4383 | 5B5M3 | 11A7000650 | . BAR,LATCH UOC: ARS..... | 2 |
| 22 | PAFZZ | 5305-01-625-8787 | 39428 | 91257A421 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 23 | PAFZZ | 5310-01-605-9874 | 338X5 | 3912753C1 | NUT,PLAIN,HEXAGON UOC: ARS..... | 4 |
| 24 | PAFZZ | 5310-01-591-8655 | 0UJB5 | MIL-100-332 | WASHER,SPLIT UOC: ARS..... | 4 |

END OF FIGURE

FIELD MAINTENANCE
EXHAUST AND RAIN CAP



*A PART OF ITEM 1

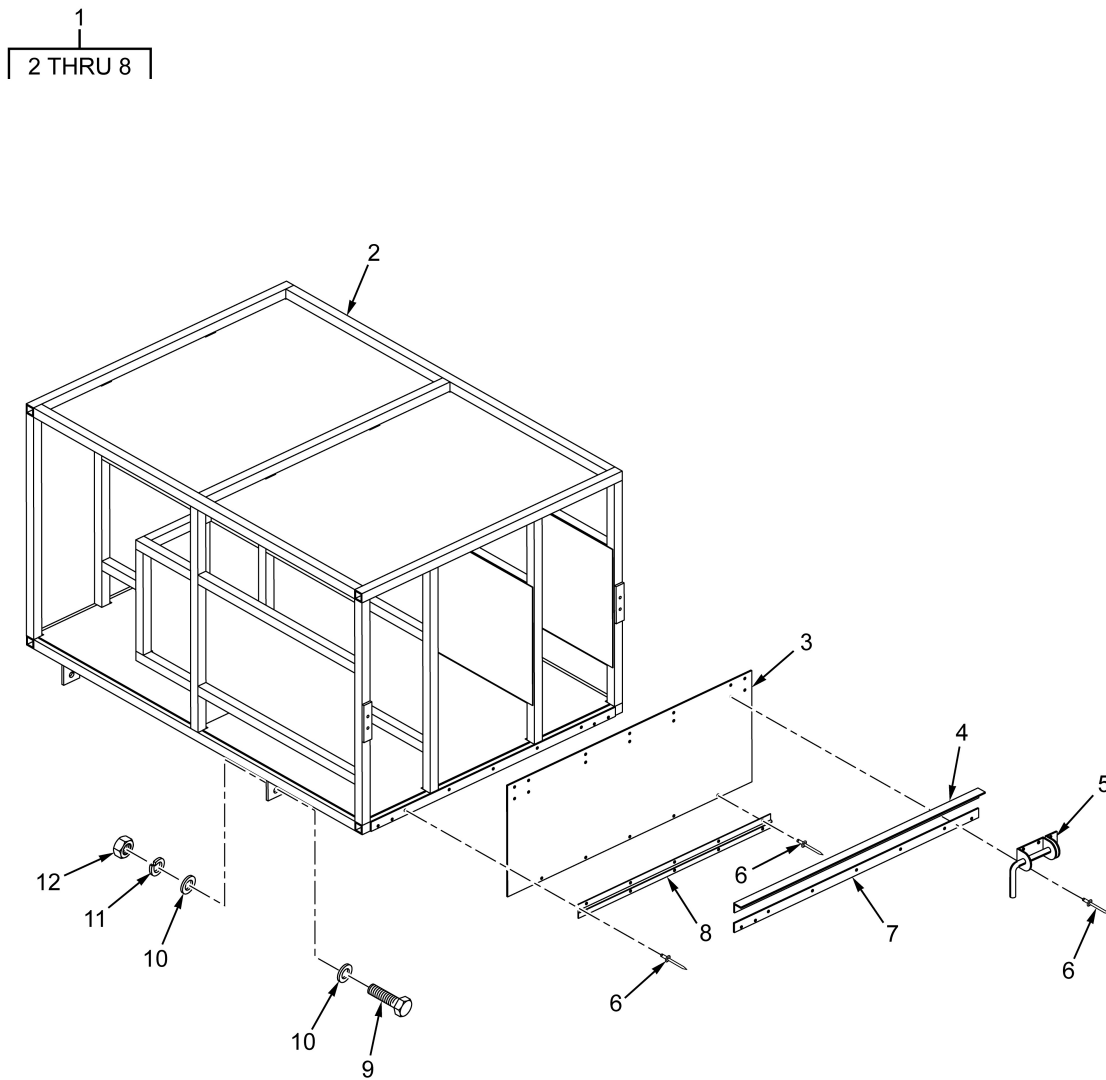
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Figure 5. EXHAUST AND RAIN CAP

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0202 EXHAUST AND RAIN CAP | | | | | | |
| FIG. 5. EXHAUST AND RAIN CAP | | | | | | |
| 1 | PACFF | 2990-01-625-7147 | 5B5M3 | 11A7000938 | EXHAUST SYSTEM,ENGI UOC: ARS..... | 1 |
| 2 | PAFZZ | 2990-01-625-6231 | 9U630 | 9-175 | . CAP ASSEMBLY,PROTEC UOC: ARS..... | 1 |
| 3 | PAFZZ | 4730-01-625-9308 | 39428 | 53015K53 | PLUG,PIPE UOC: ARS..... | 1 |
| 4 | PAFZZ | 4730-01-625-8923 | 39428 | 4464K42 | ELBOW,PIPE UOC: ARS..... | 1 |
| 5 | PAFZZ | 5310-01-527-3369 | 2V507 | 90631A411 | NUT,SELF-LOCKING,HE UOC: ARS..... | 3 |
| 6 | PAFZZ | 5310-00-167-0801 | 88044 | AN960C10 | WASHER, FLAT UOC: ARS..... | 3 |
| 7 | PAFZZ | 5305-00-059-3663 | 80205 | MS51958-67 | SCREW, MACHINE UOC: ARS..... | 3 |
| 8 | PAFZZ | 5340-01-625-9236 | 5B5M3 | 11A7000933 | CLAMP,LOOP EXHAUST CLAMP UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
STORAGE RACK



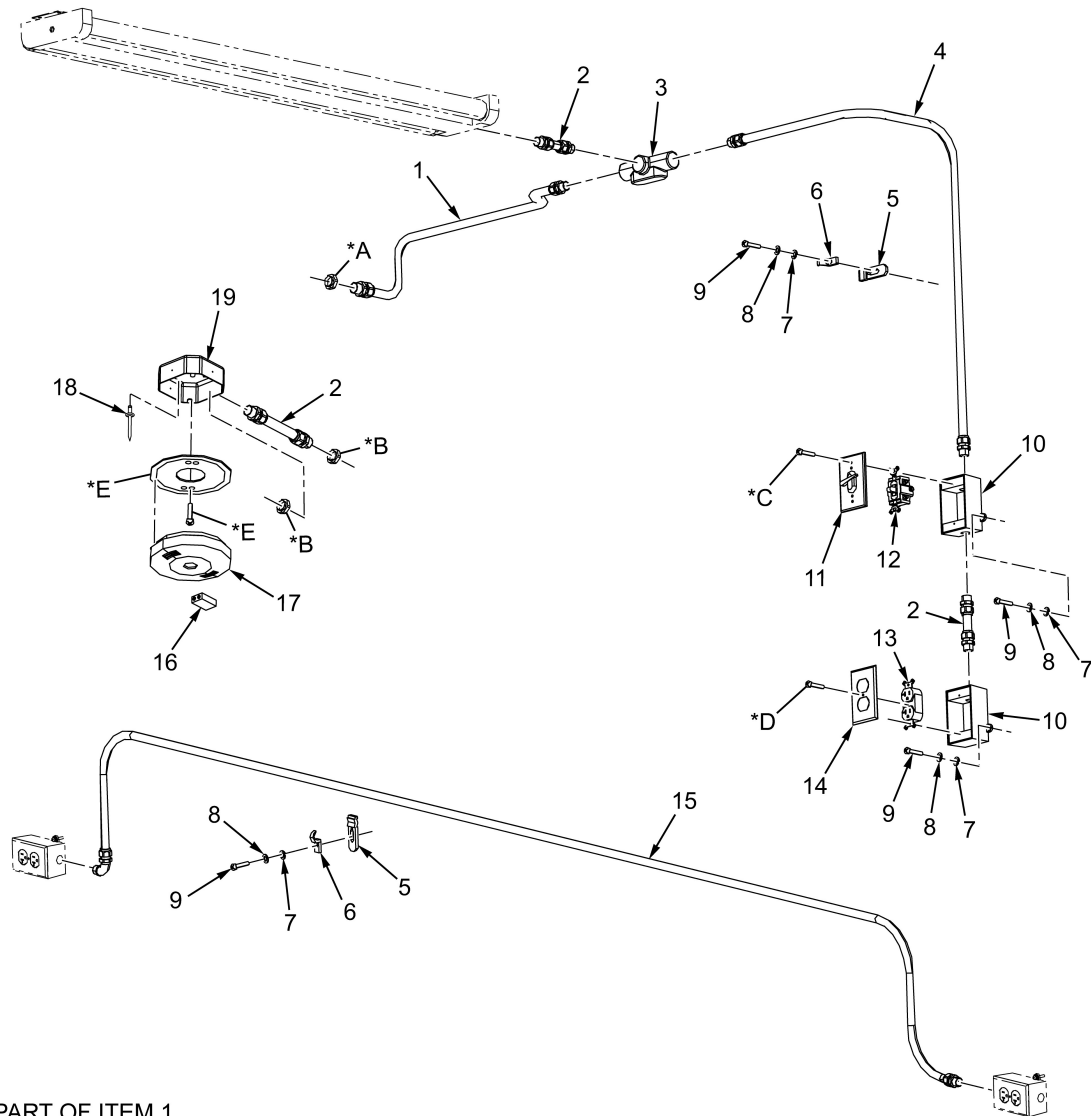
ARR001

Figure 6. STORAGE RACK

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0300 STORAGE RACK | | | | | | |
| FIG. 6. STORAGE RACK | | | | | | |
| 1 | PFFFF | | 5B5M3 | 11A7000587 | STORAGE RACK ASSEMB UOC: ARS..... | 1 |
| 2 | XAFZZ | | 5B5M3 | 11A7000577 | . STORAGE RACK UOC: ARS..... | 1 |
| 3 | PFFZZ | | 5B5M3 | 11A7000583 | . STORAGE RACK DOOR P UOC: ARS..... | 1 |
| 4 | PFFZZ | 5340-01-624-5927 | 5B5M3 | 11A7000584 | . BRACKET,MOUNTING UOC: ARS..... | 1 |
| 5 | PFFZZ | 5340-01-624-5909 | 39428 | 3356A77 | . BAR,LATCH UOC: ARS..... | 2 |
| 6 | PAFZZ | 5320-01-625-8741 | 39428 | 97447A653 | . RIVET,BLIND UOC: ARS..... | 26 |
| 7 | PFFZZ | 5340-01-624-5878 | 5B5M3 | 11A7000585-2 | . BRACKET,MOUNTING UOC: ARS..... | 1 |
| 8 | PFFZZ | 5340-01-624-5991 | 5B5M3 | 11A7000588 | . HINGE,BUTT UOC: ARS..... | 1 |
| 9 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 10 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 8 |
| 11 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER,LOCK UOC: ARS..... | 4 |
| 12 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 DG1 | NUT,PLAIN,HEXAGON UOC: ARS..... | 4 |

END OF FIGURE

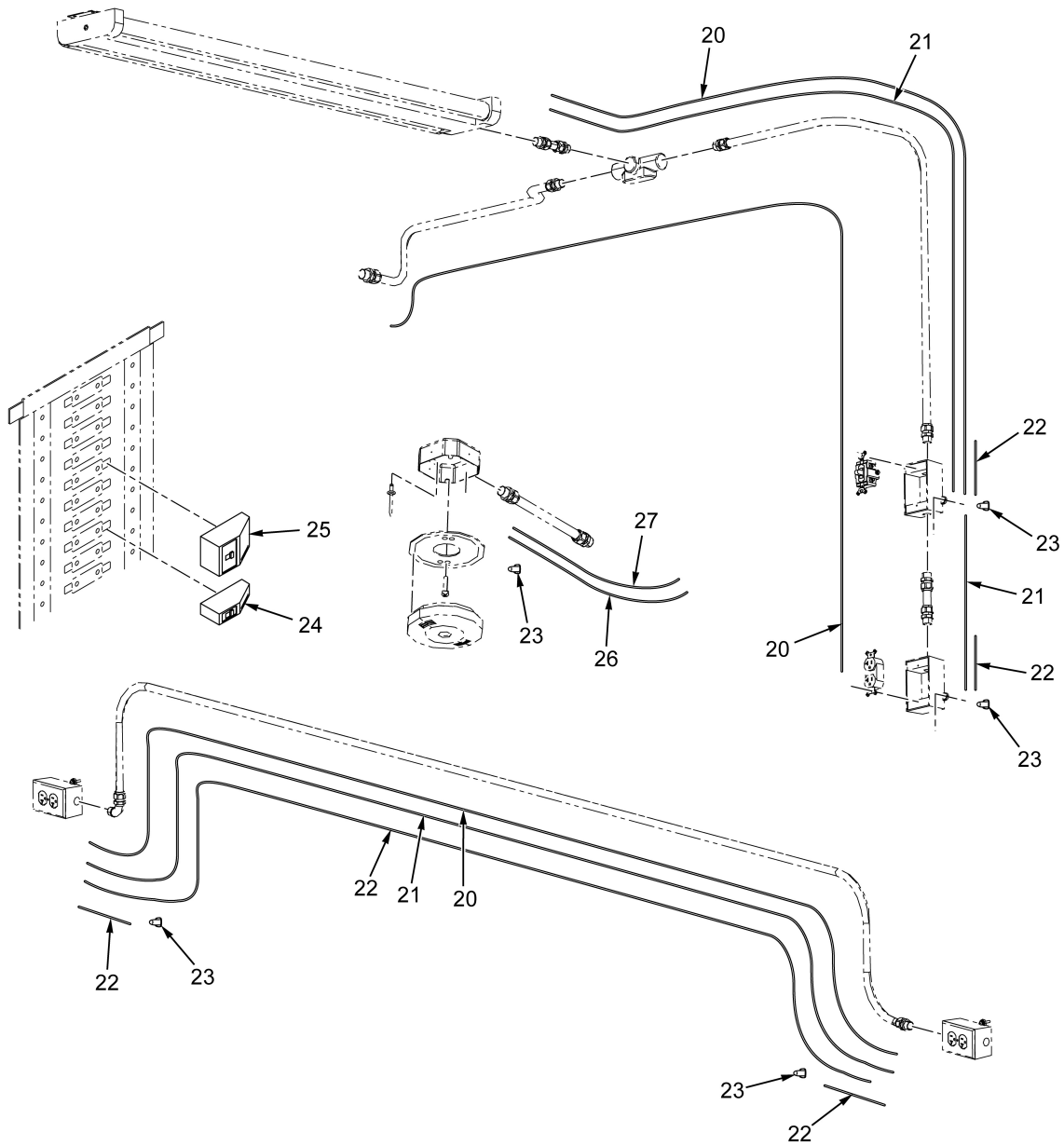
FIELD MAINTENANCE SHELTER ELECTRICAL



- *A PART OF ITEM 1
- *B PART OF ITEM 2
- *C PART OF ITEM 11
- *D PART OF ITEM 14
- *E PART OF ITEM 17

ARR006

Figure 7. SHELTER ELECTRICAL (Sheet 1 of 2)



ARR007

Figure 7. SHELTER ELECTRICAL (Sheet 2 of 2)

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------------------------|-----------------|------------------|--------------|--------------------|---|------------|
| GROUP 0400 SHELTER ELECTRICAL | | | | | | |
| FIG. 7. SHELTER ELECTRICAL | | | | | | |
| 1 | PAFZZ | 5975-01-626-5355 | 5B5M3 | 11A7000639 | CONDUIT,METAL,RIGID UOC: ARS..... | 1 |
| 2 | PAFZZ | 5975-01-626-5042 | 5B5M3 | 11A7000629 | CONDUIT,METAL,RIGID UOC: ARS..... | 3 |
| 3 | PAFZZ | 5975-01-627-3074 | 025G3 | CBT50COM | CONDUIT OUTLET UOC: ARS..... | 1 |
| 4 | PAFZZ | 5975-01-626-5354 | 5B5M3 | 11A7000634 | CONDUIT,METAL,RIGID UOC: ARS..... | 1 |
| 5 | PAFZZ | 5340-00-200-6139 | 56501 | 4176 | STRAP,RETAINING UOC: ARS..... | 5 |
| 6 | PAFZZ | 4710-00-286-8619 | 56501 | 1350 AL | PIPE,SPACER UOC: ARS..... | 5 |
| 7 | PAFZZ | 5310-00-167-0801 | 88044 | AN960C10 | WASHER, FLAT UOC: ARS..... | 5 |
| 8 | PAFZZ | 5310-00-543-5933 | 80205 | MS35333-73 | WASHER, LOCK UOC: ARS..... | 9 |
| 9 | PAFZZ | 5305-00-059-3663 | 80205 | MS51958-67 | SCREW, MACHINE UOC: ARS..... | 9 |
| 10 | PAFZZ | 5975-01-064-6415 | 56501 | IH3-1-LM | CONDUIT OUTLET UOC: ARS..... | 2 |
| 11 | PAFZZ | 5930-01-622-4839 | 56501 | CCT-3 | COVER,ELECTRICAL SW UOC: ARS..... | 1 |
| 12 | PAFZZ | 5930-01-225-3925 | 81337 | 5-4-5151 | SWITCH.TOGGLE UOC: ARS..... | 1 |
| 13 | PAFZZ | 5935-01-058-9269 | 81348 | WC596/40-2 | BOX CONNECTOR,ELECT UOC: ARS..... | 1 |
| 14 | PAFZZ | 5975-00-188-1164 | 81345 | UL 6 | PLATE,WALL,ELECTRIC UOC: ARS..... | 1 |
| 15 | PAFZZ | 5975-01-626-4534 | 5B5M3 | 11A7000516 | COVER,RACEWAY UOC: ARS..... | 1 |
| 16 | PAFZZ | 6135-00-900-2139 | 90303 | MN1604 | BATTERY,NONRECHARGA UOC: ARS..... | 1 |
| 17 | PAFZZ | 6350-01-627-2490 | 0KDP7 | 21007624 | ALARM,SMOKE,AUTOMAT UOC: ARS..... | 1 |
| 18 | PAFZZ | 5320-01-575-8565 | 07BY4 | 97447A125 | RIVET,BLIND UOC: ARS..... | 2 |
| 19 | PAFZZ | 5975-01-625-6270 | 77881 | 127 | JUNCTION BOX UOC: ARS..... | 1 |
| 20 | MFFZZ | | 22123 | 27032201-AR | WIRE, BLACK MAKE FROM P/N 27032201 CAGE 22123 LENGTH AS REQUIRED UOC: ARS..... | 3 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 21 | MFFZZ | | 22123 | 27033001-AR | WIRE, WHITE MAKE FROM P/N 27033001 CAGE 22123 UOC: ARS..... | 3 |
| 22 | MFFZZ | | 22123 | 27036301-AR | WIRE, GREEN MAKE FROM P/N 27036301 CAGE 22123 LENGTH AS REQUIRED UOC: ARS..... | 5 |
| 23 | PAFZZ | 5940-00-665-9568 | 58536 | A-A-59213-I-1-CU-G | SPLICE, CONDUCTOR UOC: ARS..... | V |
| 24 | PAFZZ | 5925-01-018-3041 | 56303 | QOB115GFI | CIRCUIT BREAKER 15 AMP GFI UOC: ARS..... | V |
| 24 | PAFZZ | 5925-00-984-2163 | 56303 | QOB115 | CIRCUIT BREAKER 15 AMP UOC: ARS..... | V |
| 24 | PAFZZ | 5925-00-728-1289 | 56303 | QOB120 | CIRCUIT BREAKER 20 AMP UOC: ARS..... | V |
| 25 | PAFZZ | 5925-00-936-3933 | 56303 | QOB360 | CIRCUIT BREAKER 60 AMP UOC: ARS..... | V |
| 25 | PAFZZ | 5925-01-252-7781 | 56303 | QOB3100 | CIRCUIT BREAKER 100 AMP UOC: ARS..... | V |
| 25 | PAFZZ | 5925-00-785-4251 | 56303 | QOB340 | CIRCUIT BREAKER 40 AMP UOC: ARS..... | V |
| 26 | MFFZZ | | 39428 | 7125K451-AR | WIRE, WHITE 12 AWG MAKE FROM P/N 7125K451 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 27 | MFFZZ | | 22123 | 27033001-AR | WIRE, WHITE MAKE FROM P/N 27033001 CAGE 22123 UOC: ARS..... | 1 |

END OF FIGURE

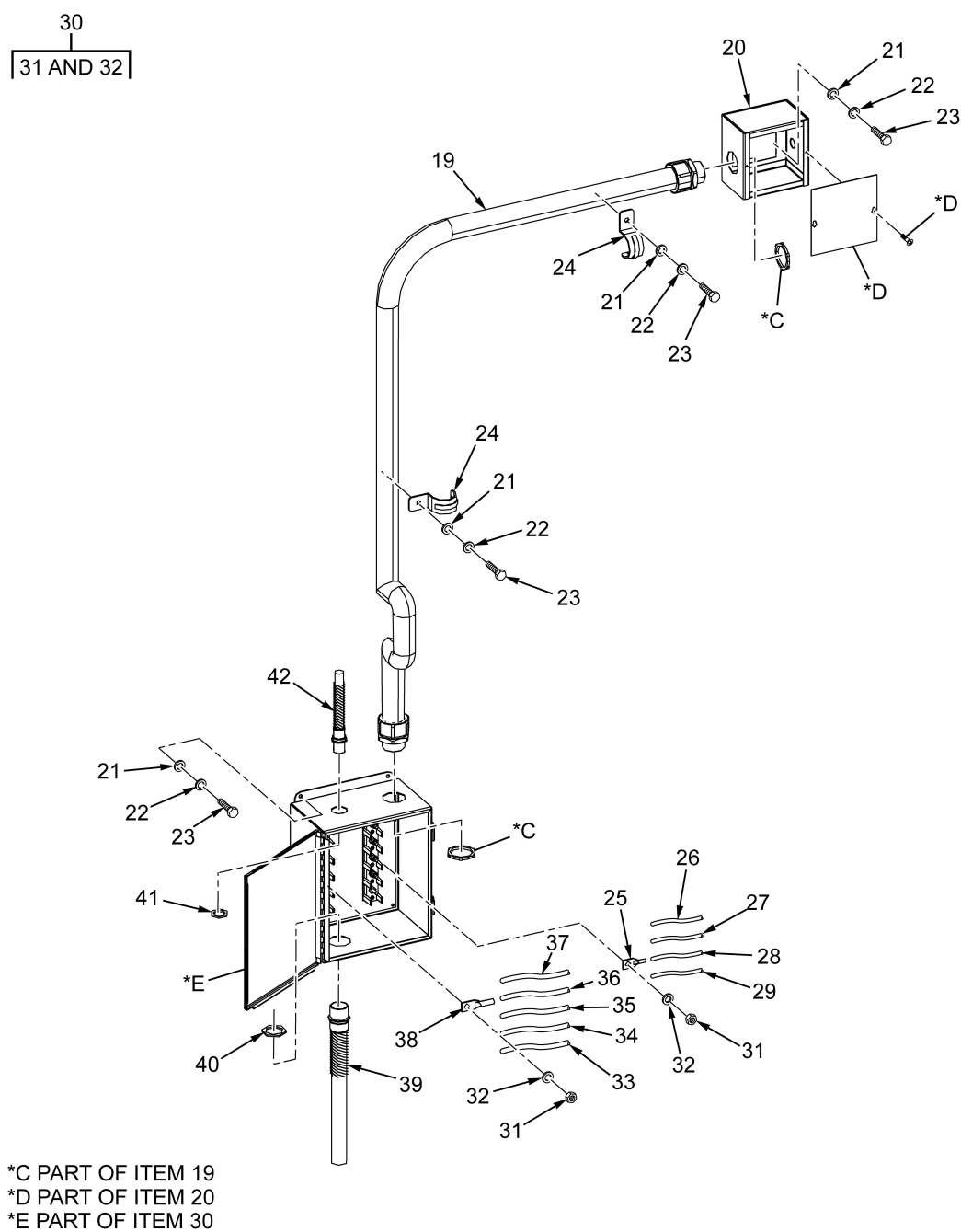


Figure 8. SELECTOR SWITCH ELECTRICAL (Sheet 2 of 2)

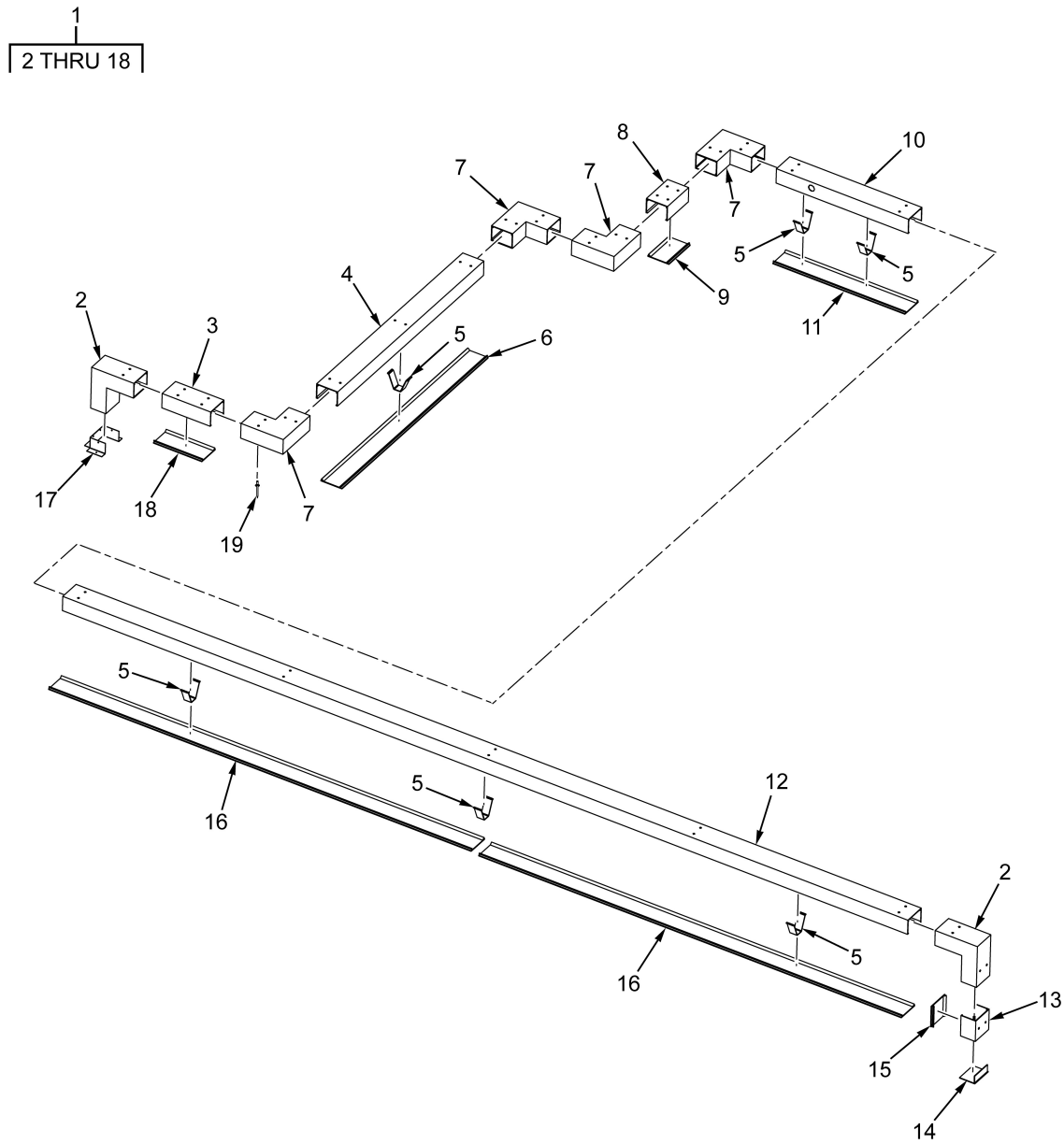
| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|--------------------|---|------------|
| GROUP 0401 SELECTOR SWITCH ELECTRICAL | | | | | | |
| FIG. 8. SELECTOR SWITCH ELECTRICAL | | | | | | |
| 1 | PAFFF | 5975-01-624-9649 | 5B5M3 | 11A7000908 | JUNCTION BOX UOC: ARS..... | 1 |
| 2 | PAFZZ | 5975-01-625-6372 | 1WSN4 | ASE18X18X6NK | . JUNCTION BOX UOC: ARS..... | 1 |
| 3 | PAFZZ | 5930-01-625-5932 | 8T045 | KW100-22406 | . SWITCH,ROTARY UOC: ARS..... | 1 |
| 4 | MFFZZ | | 39428 | 7125K691-AR | 4 AWG WIRE BLUE MAKE FROM P/N 7125K691 CAGE 39428 UOC: ARS..... | 1 |
| 5 | MFFZZ | | 39428 | 7125K692-AR | 4 AWG WIRE BLACK MAKE FROM P/N 7125K692 CAGE 39428 UOC: ARS..... | 1 |
| 6 | MFFZZ | | 39428 | 7125K696-AR | 4 AWG WIRE RED MAKE FROM P/N 7125K696 CAGE 39428 UOC: ARS..... | 1 |
| 7 | MFFZZ | | 39428 | 7125K697-AR | 4 AWG WIRE WHITE MAKE FROM P/N 7125K697 CAGE 39428 UOC: ARS..... | 1 |
| 8 | MFFZZ | | 39428 | 7125K691-AR | 4 AWG WIRE BLUE MAKE FROM P/N 7125K691 CAGE 39428 UOC: ARS..... | 1 |
| 9 | MFFZZ | | 39428 | 7125K692-AR | 4 AWG WIRE BLACK MAKE FROM P/N 7125K692 CAGE 39428 UOC: ARS..... | 1 |
| 10 | MFFZZ | | 39428 | 7125K696-AR | 4 AWG WIRE RED MAKE FROM P/N 7125K696 CAGE 39428 UOC: ARS..... | 1 |
| 11 | MFFZZ | | 39428 | 7125K697-AR | 4 AWG WIRE WHITE MAKE FROM P/N 7125K697 CAGE 39428 UOC: ARS..... | 1 |
| 12 | MFFZZ | | 39428 | 7125K072-AR | WIRE RED MAKE FROM P/N 7125K072 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 13 | MFFZZ | | 39428 | 7125K71-AR | WIRE BLACK MAKE FROM P/N 7125K71 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 14 | MFFZZ | | 39428 | 7125K073-AR | WIRE BLUE MAKE FROM P/N 7125K073 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|------------------------|--|------------|
| 15 | MFFZZ | | 39428 | 7125K079-AR | WIRE WHITE MAKE FROM P/N 7125K079 CAGE 39428 LENGTH AS REQUIRED UOC: ARS..... | 1 |
| 16 | PAFZZ | 5305-00-059-3663 | 80205 | MS51958-67 | SCREW, MACHINE UOC: ARS..... | 4 |
| 17 | PAFZZ | 5310-00-543-5933 | 80205 | MS35333-73 | WASHER, LOCK UOC: ARS..... | 4 |
| 18 | PAFZZ | 5310-00-167-0801 | 88044 | AN960C10 | WASHER, FLAT UOC: ARS..... | 4 |
| 19 | PAFZZ | 5975-01-626-3164 | 39428 | 7127K6 | CONDUIT,METAL,FLEXI UOC: ARS..... | 1 |
| 20 | PAFZZ | 5975-01-625-9887 | 5B5M3 | 11A7000924 | JUNCTION BOX UOC: ARS..... | 1 |
| 21 | PAFZZ | 5310-01-625-0641 | 05047 | AEW24X25N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 8 |
| 22 | PAFZZ | 5310-01-357-8844 | 39428 | 91102A029 | WASHER,LOCK UOC: ARS..... | 8 |
| 23 | PAFZZ | 5305-01-451-9220 | 39428 | 92865A542 | SCREW,CAP,HEXAGON H UOC: ARS..... | 8 |
| 24 | PAFZZ | 5340-01-625-8765 | 39428 | 9434T75 | STRAP,RETAINING UOC: ARS..... | 2 |
| 25 | PAFZZ | 5940-01-534-9787 | 39428 | 6926K74 | TERMINAL,LUG UOC: ARS..... | 4 |
| 26 | PAFZZ | 6145-01-625-9863 | 39428 | 7125K472 | WIRE,ELECTRICAL (WHITE) UOC: ARS..... | 1 |
| 27 | PAFZZ | 6145-01-625-9866 | 39428 | 7125K473 | WIRE,ELECTRICAL (RED) UOC: ARS..... | 1 |
| 28 | PAFZZ | 6145-01-625-9858 | 39428 | 7125K471 | WIRE,ELECTRICAL (BLACK) UOC: ARS..... | 1 |
| 29 | PAFZZ | 6145-01-625-9860 | 39428 | 7125K474 | WIRE,ELECTRICAL (GREEN) UOC: ARS..... | 1 |
| 30 | PAFZZ | 5975-01-625-4642 | 5B5M3 | 11A7000897 | JUNCTION BOX UOC: ARS..... | 1 |
| 31 | PAFZZ | 5310-01-606-2476 | 39428 | 97135A215 | . NUT,SELF-LOCKING,H UOC: ARS..... | 10 |
| 32 | PAFZZ | 5310-01-625-0641 | 05047 | AEW24X25N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 10 |
| 33 | MFFZZ | | 39428 | 7125K691-AR | 4 AWG WIRE BLUE MAKE FROM P/N 7125K691 CAGE 39428 UOC: ARS..... | 1 |
| 34 | MFFZZ | | 39428 | 7125K692-AR | 4 AWG WIRE BLACK MAKE FROM P/N 7125K692 CAGE 39428 UOC: ARS..... | 1 |
| 35 | PAFZZ | 6145-01-625-9850 | 39428 | 7125K694 | WIRE,ELECTRICAL (GREEN) UOC: ARS..... | 1 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 36 | MFFZZ | | 39428 | 7125K696-AR | 4 AWG WIRE RED MAKE FROM P/N 7125K696 CAGE 39428 UOC: ARS..... | 1 |
| 37 | MFFZZ | | 39428 | 7125K697-AR | 4 AWG WIRE WHITE MAKE FROM P/N 7125K697 CAGE 39428 UOC: ARS..... | 1 |
| 38 | PAFZZ | 5940-01-626-0360 | 39428 | 6926K51 | TERMINAL,LUG UOC: ARS..... | 5 |
| 39 | PAFZZ | 5975-01-261-9696 | 74545 | 07401032 | BOX CONNECTOR,ELECT UOC: ARS..... | 1 |
| 40 | PAFZZ | 5310-01-625-6379 | 74545 | 00322005LPK50 | NUT,SELF-LOCKING,HE UOC: ARS..... | 1 |
| 41 | PAFZZ | 5310-01-608-5385 | 74545 | 00322003LPK50 | WASHER,LOCK UOC: ARS..... | 1 |
| 42 | PAFZZ | | 74545 | 7401023 | DELUXE CORD GRIP, S UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
RACEWAY



ARR025

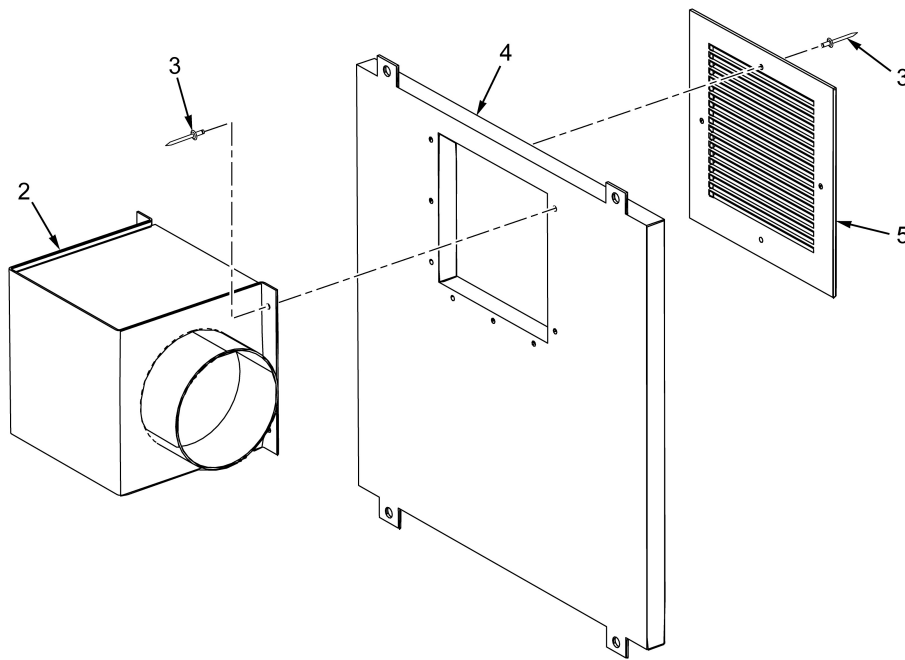
Figure 9. RACEWAY

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0402 RACEWAY | | | | | | |
| FIG. 9. RACEWAY | | | | | | |
| 1 | XDFFF | | 5B5M3 | 11A7000499 | RACEWAY ASSEMBLY UOC: ARS..... | 1 |
| 2 | PFFZZ | 5975-01-625-0604 | 74545 | HBLALU3817 | . ELBOW,RACEWAY UOC: ARS..... | 2 |
| 3 | PFFZZ | 5975-01-627-2410 | 5B5M3 | 11A7000493-3 | . RACEWAY,METALLIC UOC: ARS..... | 1 |
| 4 | PFFZZ | 5975-01-627-2426 | 5B5M3 | 11A7000493-5 | . RACEWAY,METALLIC UOC: ARS..... | 1 |
| 5 | PAFZZ | 5340-01-624-6842 | 025G3 | HBALAUWC | . CLIP,RETAINING UOC: ARS..... | 6 |
| 6 | PFFZZ | 5975-01-626-9789 | 5B5M3 | 11A7000494-5 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 7 | PFFZZ | 5975-01-626-1175 | 5B5M3 | 11A7000492 | . ELBOW,RACEWAY UOC: ARS..... | 4 |
| 8 | PFFZZ | 5975-01-626-9635 | 5B5M3 | 11A7000493-2 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 9 | PFFZZ | 5975-01-626-9611 | 5B5M3 | 11A7000494-2 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 10 | PAFZZ | | 5B5M3 | 11A7000493-4 | . RACEWAY BASE UOC: ARS..... | 1 |
| 11 | PFFZZ | 5975-01-624-6970 | 5B5M3 | 11A7000494-4 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 12 | PAFZZ | 5975-01-626-6598 | 5B5M3 | 11A7000493-7 | . RACEWAY,METALLIC UOC: ARS..... | 1 |
| 13 | PFFZZ | 5975-01-627-2425 | 5B5M3 | 11A7000493-1 | . RACEWAY,METALLIC UOC: ARS..... | 1 |
| 14 | PAFZZ | 5975-01-624-6616 | 5B5M3 | 11A7000489 | . RACEWAY,METALLIC UOC: ARS..... | 1 |
| 15 | PFFZZ | 5975-01-627-2442 | 5B5M3 | 11A7000494-1 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 16 | PAFZZ | 5975-01-626-6774 | 5B5M3 | 11A7000494-7 | . COVER,RACEWAY UOC: ARS..... | 2 |
| 17 | PAFZZ | 5975-01-626-9296 | 5B5M3 | 11A7000949 | . COVER,RACEWAY UOC: ARS..... | 1 |
| 18 | PFFZZ | | 5B5M3 | 11A7000494-3 | . RACEWAY COVER UOC: ARS..... | 1 |
| 19 | PAFZZ | 5320-01-625-8741 | 39428 | 97447A653 | RIVET,BLIND UOC: ARS..... | 61 |

END OF FIGURE

FIELD MAINTENANCE
MODIFIED CLOSEOUT PANEL

1
2 THRU 5



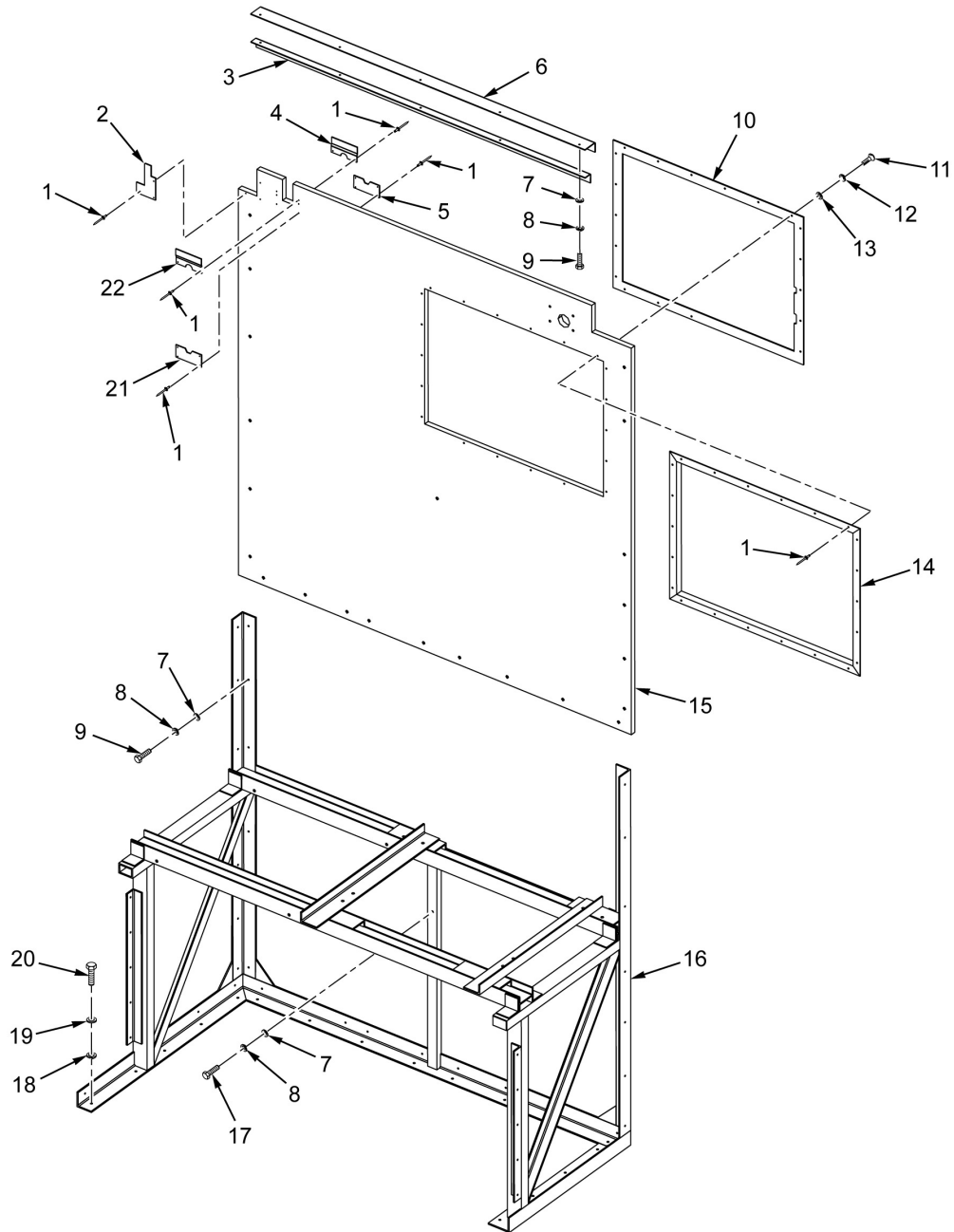
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Figure 10. MODIFIED CLOSEOUT PANEL

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0501 MODIFIED CLOSEOUT PANEL | | | | | | |
| FIG. 10. MODIFIED CLOSEOUT PANEL | | | | | | |
| 1 | PFFFF | 2540-01-626-5702 | 5B5M3 | 11A7000624 | VENTILATOR,AIR CIRC UOC: ARS..... | 1 |
| 2 | PAFZZ | | 5B5M3 | 11A7000503 | . AIR VENTILATION CLO UOC: ARS..... | 1 |
| 3 | PAFZZ | 5320-01-625-8741 | 39428 | 97447A653 | . RIVET,BLIND UOC: ARS..... | 12 |
| 4 | PAFZZ | 5340-01-625-4791 | 5B5M3 | 11A7000619 | . COVER,ACCESS UOC: ARS..... | 1 |
| 5 | XAFZZ | | 5B5M3 | 11A7000620 | . AIR VENT LOUVER UOC: ARS..... | 1 |

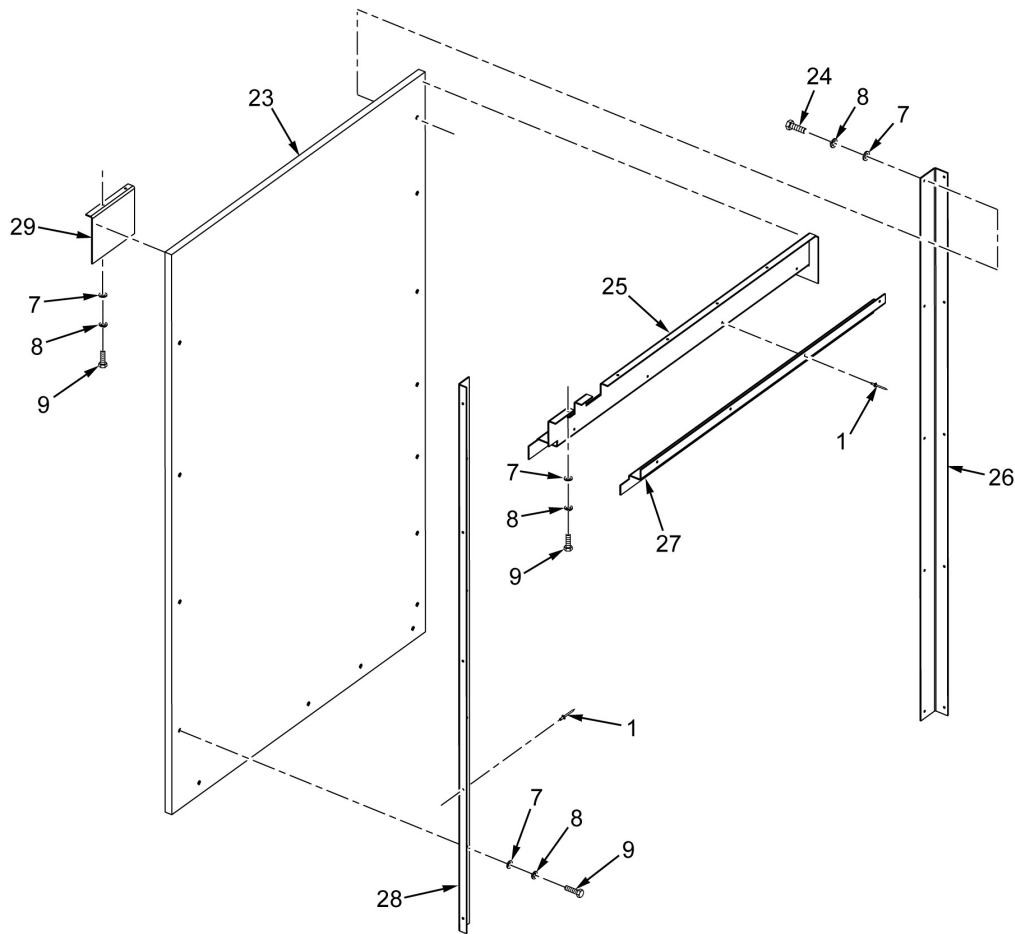
END OF FIGURE

FIELD MAINTENANCE
MODIFIED SHELTER WALLS



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Figure 11. MODIFIED SHELTER WALLS (Sheet 1 of 2)



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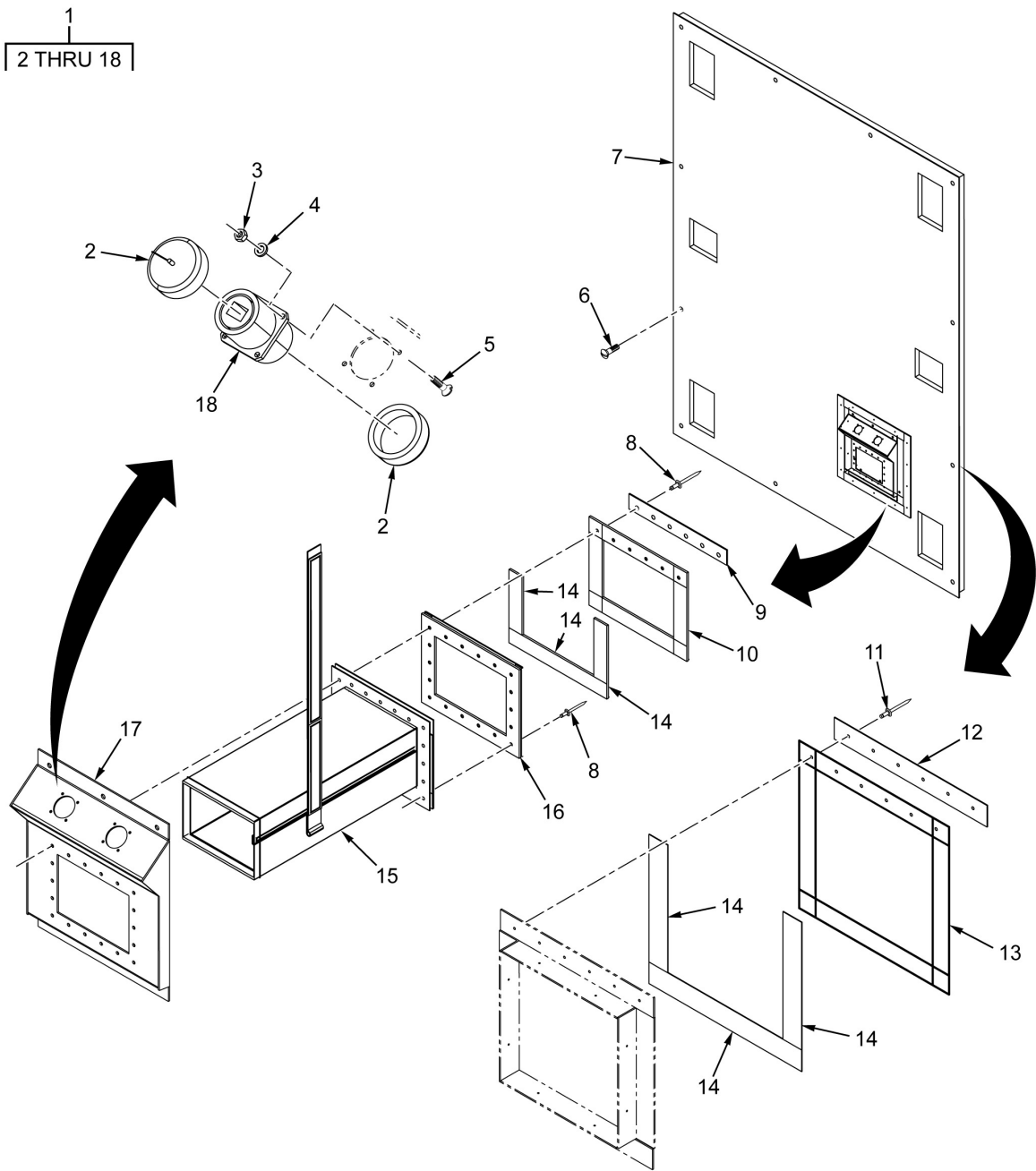
Figure 11. MODIFIED SHELTER WALLS (Sheet 2 of 2)

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0502 MODIFIED SHELTER WALLS | | | | | | |
| FIG. 11. MODIFIED SHELTER WALLS | | | | | | |
| 1 | PAFZZ | 5320-01-575-8565 | 07BY4 | 97447A125 | RIVET,BLIND UOC: ARS..... | 65 |
| 2 | PAFZZ | 5340-01-626-7007 | 5B5M3 | 11A7000548 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 3 | PAFZZ | 5340-01-625-5283 | 5B5M3 | 11A7000642 | BRACKET,ANGLE UOC: ARS..... | 1 |
| 4 | PFFZZ | 5340-01-626-7989 | 5B5M3 | 11A7000561 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 5 | PFFZZ | 5340-01-626-9239 | 5B5M3 | 11A7000560-1 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 6 | PAFZZ | 5340-01-626-7668 | 5B5M3 | 11A7000545 | BRACKET,ANGLE UOC: ARS..... | 1 |
| 7 | PAFZZ | 5310-01-625-0641 | 05047 | AEW24X25N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 75 |
| 8 | PAFZZ | 5310-01-357-8844 | 39428 | 91102A029 | WASHER,LOCK UOC: ARS..... | 75 |
| 9 | PAFZZ | 5305-01-549-3074 | 39428 | 92620A564 | SCREW,CAP,HEXAGON H UOC: ARS..... | 64 |
| 10 | PAFZZ | 5975-01-626-5353 | 5B5M3 | 11A7000633 | PLATE,WALL,ELECTRIC UOC: ARS..... | 1 |
| 11 | PAFZZ | 5305-00-059-3663 | 80205 | MS51958-67 | SCREW, MACHINE UOC: ARS..... | 19 |
| 12 | PAFZZ | 5310-00-543-5933 | 80205 | MS35333-73 | WASHER, LOCK UOC: ARS..... | 19 |
| 13 | PAFZZ | 5310-00-167-0801 | 88044 | AN960C10 | WASHER, FLAT UOC: ARS..... | 19 |
| 14 | PAFZZ | 5340-01-627-1243 | 5B5M3 | 11A7000559 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 15 | XAFZZ | 5411-01-626-0081 | 5B5M3 | 11A7000534 | SIDEWALL ASSEMBLY,S UOC: ARS..... | 1 |
| 16 | XAFZZ | | 5B5M3 | 11A7000435 | WALL BRACE WELDMENT UOC: ARS..... | 1 |
| 17 | PAFZZ | 5305-01-625-8246 | 39428 | 91257A568 | SCREW,CAP,HEXAGON H UOC: ARS..... | 1 |
| 18 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 17 |
| 19 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER,LOCK UOC: ARS..... | 17 |
| 20 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW,CAP,HEXAGON H UOC: ARS..... | 17 |
| 21 | PFFZZ | | 5B5M3 | 11A7000560-2 | EXPANDABLE ROD UNDE UOC: ARS..... | 1 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 22 | PFFZZ | | 5B5M3 | 11A7000561-2 | OVER BRACKET EXPAND UOC: ARS..... | 1 |
| 23 | XAFZZ | | 5B5M3 | 11A7000544 | WALL SECTION ASSEMB UOC: ARS..... | 1 |
| 24 | PAFZZ | | 5B5M3 | 11A7000657-1 | BOLT,MACHINE UOC: ARS..... | 10 |
| 25 | PAFZZ | 5340-01-626-3321 | 5B5M3 | 11A7000747 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 26 | PAFZZ | 5340-01-627-1569 | 5B5M3 | 11A7000564 | BRACKET,ANGLE UOC: ARS..... | 1 |
| 27 | PAFZZ | 5340-01-626-6839 | 5B5M3 | 11A7000549 | BRACKET,DOUBLE ANGL UOC: ARS..... | 1 |
| 28 | PAFZZ | 5340-01-625-4698 | 5B5M3 | 11A7000653 | BRACKET,ANGLE UOC: ARS..... | 1 |
| 29 | PAFZZ | 5340-01-627-1720 | 5B5M3 | 11A7000563 | BRACKET,ANGLE UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
SIGNAL ENTRY PANEL (SEP) ASSEMBLY



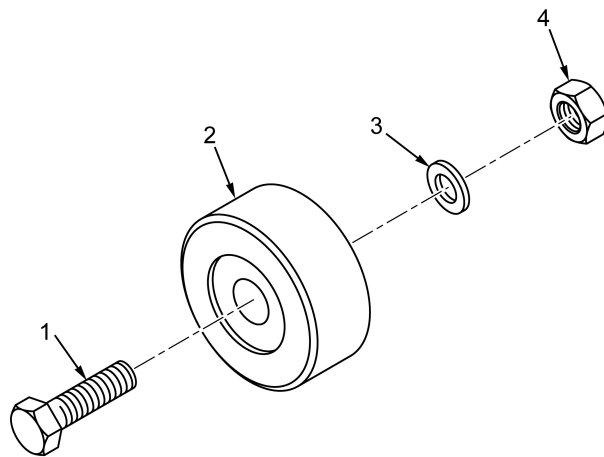
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Figure 12. SIGNAL ENTRY PANEL (SEP) ASSEMBLY

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---|-----------------|------------------|--------------|-----------------------------|--|------------|
| GROUP 0503 SIGNAL ENTRY PANEL (SEP) ASSEMBLY | | | | | | |
| FIG. 12. SIGNAL ENTRY PANEL (SEP) ASSEMBLY | | | | | | |
| 1 | PAFFF | 5411-01-625-9468 | 5B5M3 | 11A7000818 | PANEL,CLOSEOUT UOC: ARS..... | 1 |
| 2 | PAFZZ | 5999-01-547-3801 | 77820 | RJFTVC2G | . CAP,ELECTRICAL UOC: ARS..... | 2 |
| 3 | PAFZZ | 5310-01-494-0206 | 39428 | 91831A005 | . NUT,SELF-LOCKING,HE UOC: ARS..... | 8 |
| 4 | PAFZZ | 5310-01-626-2775 | 39428 | 96659A101 | . WASHER,FLAT UOC: ARS..... | 8 |
| 5 | PAFZZ | 5305-01-622-2002 | 39428 | 91772A110 | . SCREW,MACHINE UOC: ARS..... | 8 |
| 6 | PAFZZ | 5305-01-225-6697 | 81337 | 5-4-5063 | . SCREW,MACHINE UOC: ARS..... | 12 |
| 7 | PAFZZ | 5411-01-626-6741 | 5B5M3 | 11A7000817 | . PANEL,CLOSEOUT UOC: ARS..... | 1 |
| 8 | PAFZZ | 5320-01-626-1025 | 39428 | 97524A070 | . BLIND,RIVET UOC: ARS..... | 18 |
| 9 | PAFZZ | 5340-01-626-8947 | 5B5M3 | 11A7000835 | . BAR UOC: ARS..... | 1 |
| 10 | PAFZZ | 4910-01-626-5279 | 5B5M3 | 11A7000831 | . COVER,PROTECTIVE,DU UOC: ARS..... | 1 |
| 11 | PAFZZ | 5320-00-052-1972 | 81349 | M24243/1B405 | . BLIND,RIVET UOC: ARS..... | 6 |
| 12 | PAFZZ | 5340-01-626-0292 | 5B5M3 | 11A7000834 | . PLATE,MOUNTING UOC: ARS..... | 1 |
| 13 | PAFZZ | 4910-01-626-5273 | 5B5M3 | 11A7000830 | . COVER,PROTECTIVE,DU UOC: ARS..... | 1 |
| 14 | MFFZZ | | 58536 | AA55126,TYII, CLSIII-1IN | . FASTENER TAPE,HOOK MAKE FROM P/N A-A-55126 CAGE 58536 AS REQUIRED UOC: ARS..... | 6 |
| 15 | PAFZZ | 4730-01-626-0621 | 5B5M3 | 11A7000846 | . SLEEVE,CONNECTING,N UOC: ARS..... | 1 |
| 16 | PAFZZ | 5340-01-626-8167 | 5B5M3 | 11A7000844 | . SEP METAL FLANGE UOC: ARS..... | 1 |
| 17 | PAFZZ | | 5B5M3 | 11A7000498 | . PANEL,SIGNAL,PLATE UOC: ARS..... | 1 |
| 18 | PAFZZ | 5935-01-625-9226 | 1JN02 | RJFTVB2GISONI | . CONNECTION,BULKHEAD UOC: ARS..... | 2 |

END OF FIGURE

FIELD MAINTENANCE
RAMP COMPONENTS



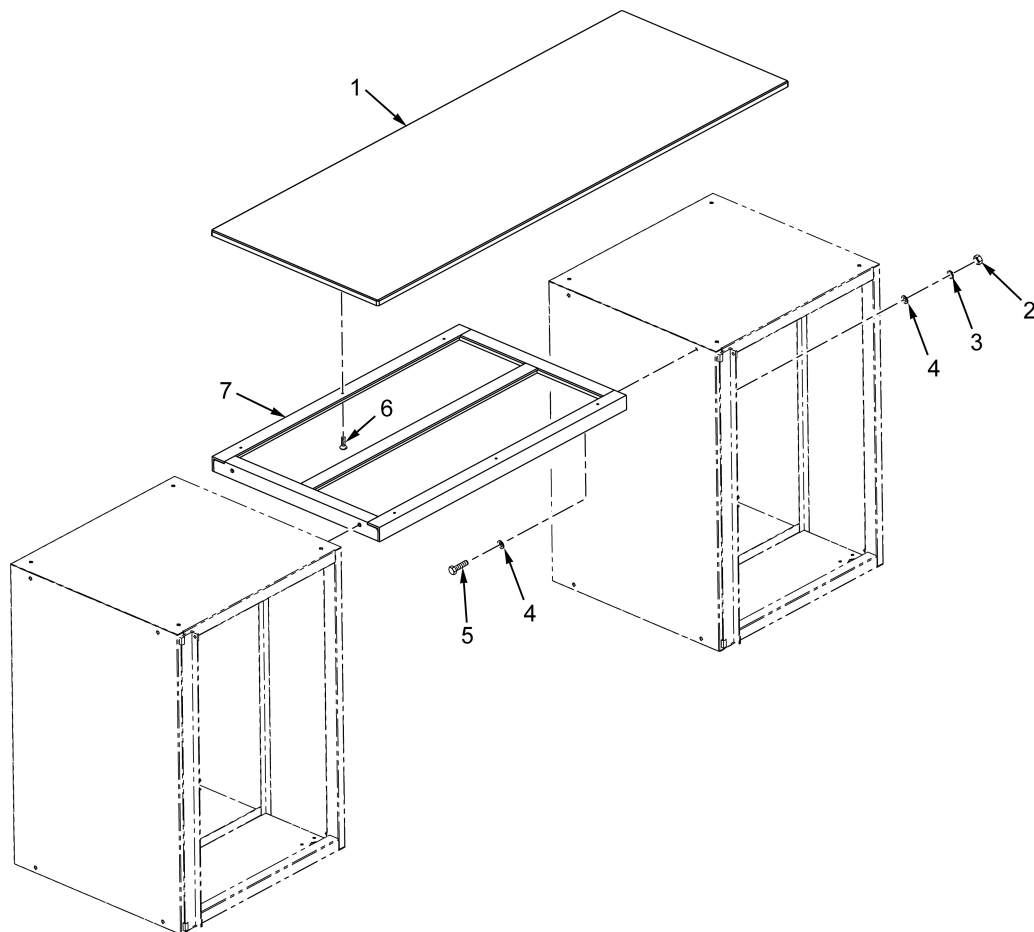
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Figure 13. RAMP COMPONENTS

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|-----------------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0504 RAMP COMPONENTS | | | | | | |
| FIG. 13. RAMP COMPONENTS | | | | | | |
| 1 | PAFZZ | 5305-00-269-3206 | 80205 | MS90725-55 | SCREW,CAP,HEXAGON H UOC: ARS..... | 8 |
| 2 | PAFZZ | 5340-01-626-4634 | 06817 | 06A8172010 | WHEEL,CASTER UOC: ARS..... | 8 |
| 3 | PAFZZ | 5365-01-627-0376 | 06817 | 06A8172012 | SPACER,SLEEVE UOC: ARS..... | 8 |
| 4 | PAFZZ | 5310-01-573-4447 | 80205 | NASM17830-5C | NUT,SELF-LOCKING,HE UOC: ARS..... | 8 |

END OF FIGURE

FIELD MAINTENANCE
CABINET WORKBENCH



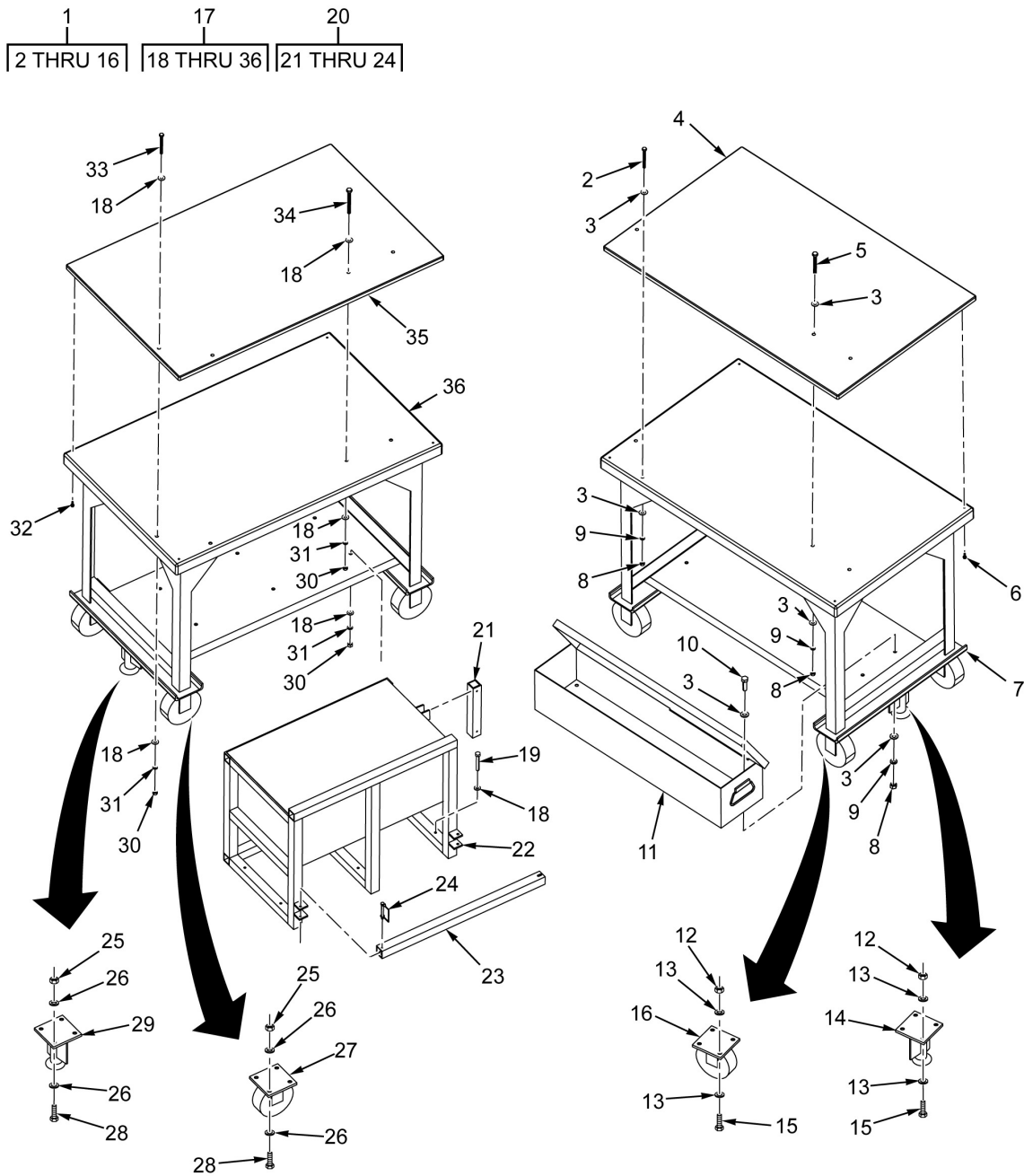
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Figure 14. CABINET WORKBENCH

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|-------------------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0505 CABINET WORKBENCH | | | | | | |
| FIG. 14. CABINET WORKBENCH | | | | | | |
| 1 | PFFZZ | 7195-01-627-4515 | 5B5M3 | 11A7000523 | TOP, WORK TABLE UOC: ARS..... | 1 |
| 2 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 DG1 | NUT, PLAIN, HEXAGON UOC: ARS..... | 4 |
| 3 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER, LOCK UOC: ARS..... | 4 |
| 4 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER, FLAT UOC: ARS..... | 8 |
| 5 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW, CAP, HEXAGON H UOC: ARS..... | 4 |
| 6 | PAFZZ | 5305-01-624-9824 | 05047 | AESS1Z21A625GC1 D71 | SCREW, TAPPING UOC: ARS..... | 10 |
| 7 | PFFZZ | 4940-01-626-3338 | 5B5M3 | 11A7000533 | WORKBENCH SUPPORT UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
WORKBENCHES A AND B



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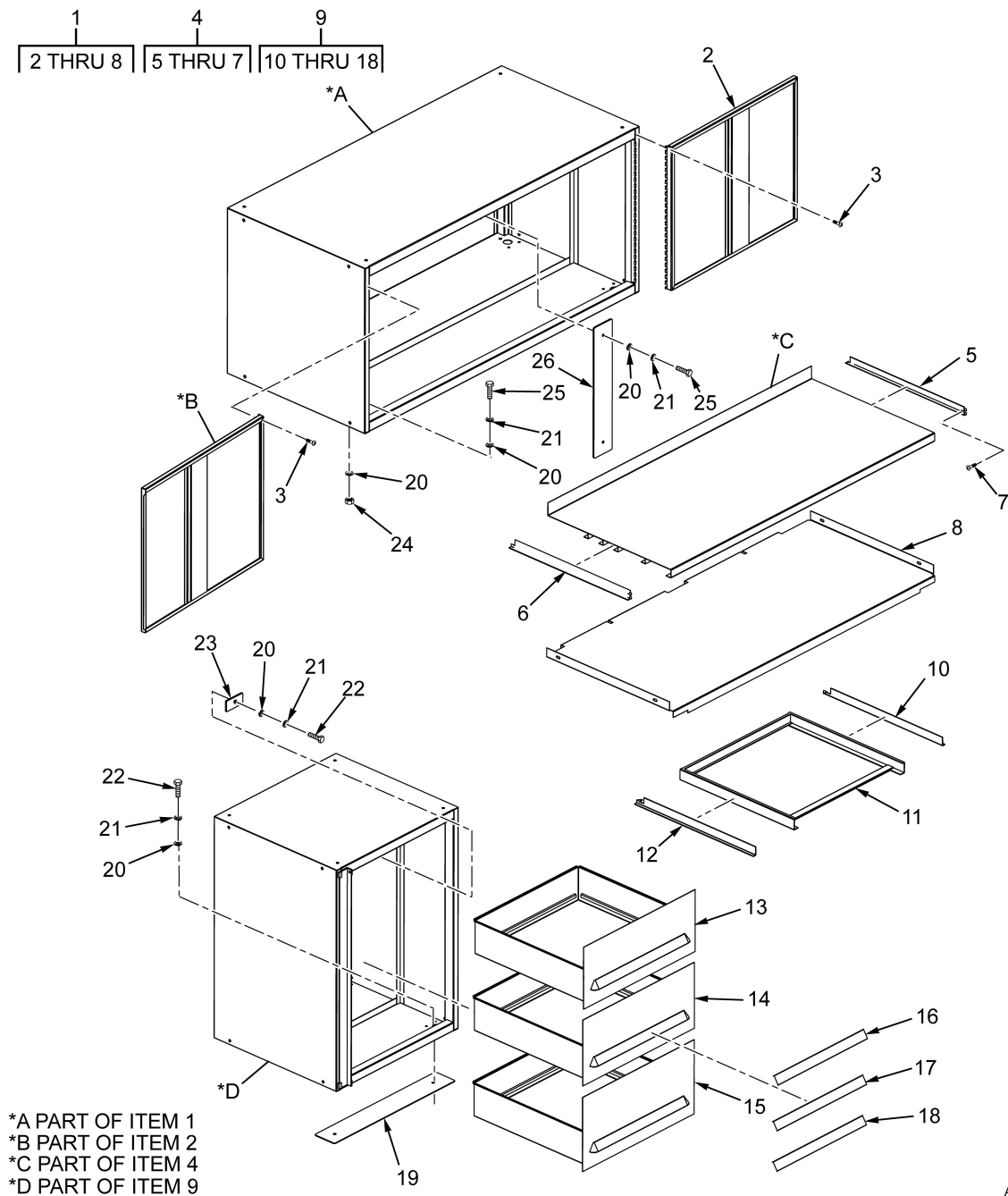
Figure 15. WORKBENCHES A AND B

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---------------------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0506 WORKBENCHES A AND B | | | | | | |
| FIG. 15. WORKBENCHES A AND B | | | | | | |
| 1 | PACFF | 7195-01-624-7293 | 5B5M3 | 11A7000553 | TABLE ASSEMBLY, WORK UOC: ARS..... | 1 |
| 2 | PAFZZ | 5305-01-627-4781 | 05047 | AES01F375C00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 2 |
| 3 | PAFZZ | 5310-01-388-2287 | 80205 | NAS1149C0632R | . WASHER,FLAT UOC: ARS..... | 16 |
| 4 | PAFZZ | 7195-01-624-8692 | 5B5M3 | 11A7000525 | . TABLE TOP,WORK UOC: ARS..... | 1 |
| 5 | PAFZZ | 5305-01-624-9215 | 05047 | AES01F375D00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 2 |
| 6 | PAFZZ | 5305-01-624-9824 | 05047 | AESS1Z21A625GC1 D71 | . SCREW,TAPPING UOC: ARS..... | 4 |
| 7 | XAFZZ | | 5B5M3 | 11A7000547 | . WORKBENCH C BLANK UOC: ARS..... | 1 |
| 8 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 DG1 | . NUT,PLAIN,HEXAGON UOC: ARS..... | 4 |
| 9 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | . WASHER,LOCK UOC: ARS..... | 4 |
| 10 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 11 | PAFZZ | 2540-01-626-4895 | 5B5M3 | 11A7000431 | . BOX,ACCESSORIES STO UOC: ARS..... | 1 |
| 12 | PAFZZ | 5310-01-555-5301 | 39428 | 97135A235 | . NUT,SELF-LOCKING,HE UOC: ARS..... | 24 |
| 13 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 48 |
| 14 | PAFZZ | 3990-01-627-3374 | 5B5M3 | 11A7000959 | . BRAKE,FLOOR,WHEELED UOC: ARS..... | 1 |
| 15 | PAFZZ | 5305-01-612-4348 | 05047 | AES01F375A00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 24 |
| 16 | PAFZZ | 5340-01-627-2333 | 5B5M3 | 11A7000960 | . CASTER,SWIVEL UOC: ARS..... | 2 |
| 16 | PAFZZ | 5340-01-627-2378 | 5B5M3 | 11A7000961 | . CASTER,RIGID UOC: ARS..... | 2 |
| 17 | PACFF | 7195-01-624-7292 | 5B5M3 | 11A7000554 | TABLE ASSEMBLY, WORK UOC: ARS..... | 1 |
| 18 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 20 |
| 19 | PAFZZ | 5306-01-624-9692 | 05047 | AES01F375B50WA6 DG1 | . BOLT,MACHINE UOC: ARS..... | 6 |
| 20 | PAFZZ | 7125-01-627-7325 | 5B5M3 | 11A7000986 | . RACK,STACKBIN UOC: ARS..... | 1 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|------------------------|--|------------|
| 21 | PAFZZ | 5340-01-626-8700 | 5B5M3 | 11A7000988-1 | . . LACK BAR UOC: ARS..... | 1 |
| 22 | XAFZZ | | 5B5M3 | 11A7000982 | . . STACKBIN,WELDMENT UOC: ARS..... | 1 |
| 22 | PAFZZ | | 5B5M3 | 11A7000325 | . . STACKBIN RACK UOC: ARS..... | 1 |
| 23 | PAFZZ | 5340-01-624-6604 | 5B5M3 | 11A7000327 | . . LOCK BAR UOC: ARS..... | 1 |
| 23 | PAFZZ | 5340-01-626-8701 | 5B5M3 | 11A7000988-2 | . . LACK BAR UOC: ARS..... | 1 |
| 24 | PAFZZ | 5315-01-561-1159 | 0KVE6 | 98480A017 | . . PIN,STRAIGHT,HEADLE UOC: ARS..... | 4 |
| 25 | PAFZZ | 5310-01-555-5301 | 39428 | 97135A235 | . NUT,SELF-LOCKING,HE UOC: ARS..... | 20 |
| 26 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 24 |
| 27 | PAFZZ | 5340-01-627-2333 | 5B5M3 | 11A7000960 | . CASTER,SWIVEL UOC: ARS..... | 2 |
| 27 | PAFZZ | 5340-01-627-2378 | 5B5M3 | 11A7000961 | . CASTER,RIGID UOC: ARS..... | 2 |
| 28 | PAFZZ | 5305-01-612-4348 | 05047 | AES01F375A00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 24 |
| 29 | PAFZZ | 3990-01-627-3374 | 5B5M3 | 11A7000959 | . BRAKE,FLOOR,WHEELED UOC: ARS..... | 1 |
| 30 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 DG1 | . NUT,PLAIN,HEXAGON UOC: ARS..... | 10 |
| 31 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | . WASHER,LOCK UOC: ARS..... | 10 |
| 32 | PAFZZ | 5305-01-624-9824 | 05047 | AESS1Z21A625GC1 D71 | . SCREW,TAPPING UOC: ARS..... | 4 |
| 33 | PAFZZ | 5305-01-627-4781 | 05047 | AES01F375C00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 2 |
| 34 | PAFZZ | | 032Z3 | 92865A122 | . BOLT,MACHINE UOC: ARS..... | 2 |
| 35 | PAFZZ | 7195-01-624-8693 | 5B5M3 | 11A7000524 | . TABLE TOP,WORK UOC: ARS..... | 1 |
| 36 | XAFZZ | | 5B5M3 | 11A7000546 | . MODIFIED WORKBENCH UOC: ARS..... | 1 |

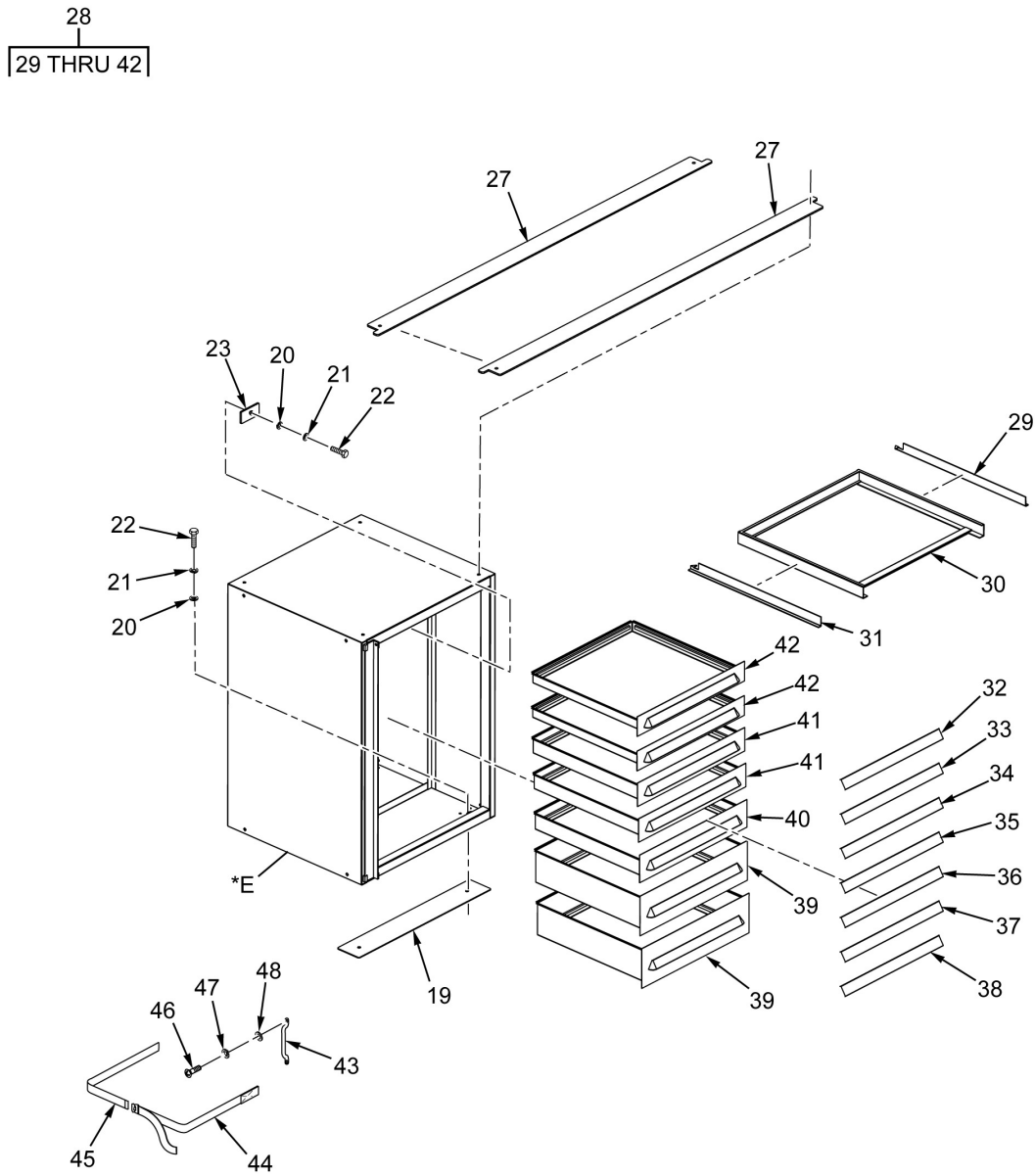
END OF FIGURE

FIELD MAINTENANCE
TOOL CABINETS A, B, C, AND D



ARR021

Figure 16. TOOL CABINETS A, B, C, AND D (Sheet 1 of 2)



*E PART OF ITEM 28

ARR022

Figure 16. TOOL CABINETS A, B, C, AND D (Sheet 2 of 2)

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0507 TOOL CABINETS A, B, C, AND D | | | | | | |
| FIG. 16. TOOL CABINETS A, B, C, AND D | | | | | | |
| 1 | PAFFF | 7125-01-627-7334 | 5B5M3 | 11A7000752 | CABINET,STORAGE (CABINET D) UOC: ARS..... | 1 |
| 2 | PAFZZ | | 34004 | DWSDD155 | . DOOR,CABINET,DOUBLE UOC: ARS..... | 1 |
| 3 | PAFZZ | 5305-01-626-9455 | 0PA65 | 11511131 | . SCREW,TAPPING UOC: ARS..... | 8 |
| 4 | PAFZZ | 7125-01-372-9855 | 34004 | DW-CS-80 | . SHELF,STORAGE AND D UOC: ARS..... | 1 |
| 5 | PAFZZ | 5340-01-365-3107 | 34004 | SBSTR | . . BRACKET,SHELF RIGHT UOC: ARS..... | 1 |
| 6 | PAFZZ | 5340-01-365-3254 | 34004 | SBSTL | . . BRACKET,SHELF LEFT UOC: ARS..... | 1 |
| 7 | PAFZZ | | 05047 | AESQ2Z11A500WA9 D71 | . . SCREW,MACHINE UOC: ARS..... | 2 |
| 8 | XAFZZ | | 5B5M3 | 11A7000700 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 9 | PAFFF | 7125-01-627-7338 | 5B5M3 | 11A7000749 | CABINET,STORAGE (CABINET A) UOC: ARS..... | 1 |
| 10 | PAFZZ | 5340-01-365-3137 | 34004 | CBSTR | . BRACKET,MOUNTING UOC: ARS..... | 3 |
| 11 | PAFZZ | 5340-01-365-5824 | 34004 | CARRST | . SLIDE,DRAWER,EXTENS UOC: ARS..... | 3 |
| 12 | PAFZZ | 5340-01-366-1069 | 34004 | CBSTL | . BRACKET,MOUNTING UOC: ARS..... | 3 |
| 13 | PAFZZ | 7125-01-367-0398 | 5B5M3 | 11A7000658-5 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 14 | PAFZZ | 7125-01-367-0399 | 5B5M3 | 11A7000658-6 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 15 | PAFZZ | 7125-01-367-0401 | 5B5M3 | 11A7000658-7 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 16 | PAFZZ | 7690-01-626-2661 | 5B5M3 | 11A7000607-1 | . LABEL UOC: ARS..... | 1 |
| 17 | PAFZZ | 7690-01-626-2660 | 5B5M3 | 11A7000607-2 | . LABEL UOC: ARS..... | 1 |
| 18 | PAFZZ | 7690-01-626-2621 | 5B5M3 | 11A7000607-3 | . LABEL UOC: ARS..... | 1 |
| 19 | PFFZZ | 5340-01-625-8709 | 5B5M3 | 11A7000711 | PLATE,MOUNTING UOC: ARS..... | 6 |
| 20 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 32 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 21 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 | WASHER, LOCK AL1 UOC: ARS..... | 28 |
| 22 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 | SCREW, CAP, HEXAGON H DG1 UOC: ARS..... | 18 |
| 23 | PFFZZ | 5340-01-625-4457 | 5B5M3 | 11A7000688 | PLATE, MOUNTING UOC: ARS..... | 6 |
| 24 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 | NUT, PLAIN, HEXAGON DG1 UOC: ARS..... | 4 |
| 25 | PAFZZ | 5305-01-612-4348 | 05047 | AES01F375A00WA6 | SCREW, CAP, HEXAGON H DG1 UOC: ARS..... | 10 |
| 26 | PFFZZ | 5340-01-625-9087 | 5B5M3 | 11A7000701 | PLATE, MOUNTING UOC: ARS..... | 3 |
| 27 | PFFZZ | 5340-01-625-5824 | 5B5M3 | 11A7000708 | PLATE, MOUNTING UOC: ARS..... | 2 |
| 28 | PAFFF | 7125-01-627-7336 | 5B5M3 | 11A7000751 | CABINET, STORAGE (CABINET C) UOC: ARS..... | 1 |
| 28 | PAFFF | 7125-01-627-7337 | 5B5M3 | 11A7000750 | CABINET, STORAGE (CABINET B) UOC: ARS..... | 1 |
| 29 | PAFZZ | 5340-01-365-3137 | 34004 | CBSTR | . BRACKET, MOUNTING UOC: ARS..... | 7 |
| 30 | PAFZZ | 5340-01-365-5824 | 34004 | CARRST | . SLIDE, DRAWER, EXTENS UOC: ARS..... | 7 |
| 31 | PAFZZ | 5340-01-366-1069 | 34004 | CBSTL | . BRACKET, MOUNTING UOC: ARS..... | 7 |
| 32 | PAFZZ | 7690-01-626-2477 | 5B5M3 | 11A7000607-4 | . LABEL UOC: ARS..... | 1 |
| 32 | PAFZZ | 7690-01-626-1275 | 5B5M3 | 11A7000607-11 | . LABEL UOC: ARS..... | 1 |
| 33 | PAFZZ | | 5B5M3 | 11A7000607-12 | . LABEL UOC: ARS..... | 1 |
| 33 | PAFZZ | 7690-01-626-2664 | 5B5M3 | 11A7000607-5 | . LABEL UOC: ARS..... | 1 |
| 34 | PAFZZ | 7690-01-626-1347 | 5B5M3 | 11A7000607-13 | . LABEL UOC: ARS..... | 1 |
| 34 | PAFZZ | 7690-01-626-2609 | 5B5M3 | 11A7000607-6 | . LABEL UOC: ARS..... | 1 |
| 35 | PAFZZ | 7690-01-626-2699 | 5B5M3 | 11A7000607-7 | . LABEL UOC: ARS..... | 1 |
| 35 | PAFZZ | 7690-01-626-1366 | 5B5M3 | 11A7000607-14 | . LABEL UOC: ARS..... | 1 |
| 36 | PAFZZ | 7690-01-626-1396 | 5B5M3 | 11A7000607-15 | . LABEL UOC: ARS..... | 1 |
| 36 | PAFZZ | 7690-01-626-2701 | 5B5M3 | 11A7000607-8 | . LABEL UOC: ARS..... | 1 |
| 37 | PAFZZ | 7690-01-626-2616 | 5B5M3 | 11A7000607-9 | . LABEL UOC: ARS..... | 1 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|--------------------|--|------------|
| 37 | PAFZZ | 7690-01-626-1721 | 5B5M3 | 11A7000607-16 | . LABEL UOC: ARS..... | 1 |
| 38 | PAFZZ | 7690-01-626-2504 | 5B5M3 | 11A7000607-10 | . LABEL UOC: ARS..... | 1 |
| 38 | PAFZZ | 7690-01-626-1717 | 5B5M3 | 11A7000607-17 | . LABEL UOC: ARS..... | 1 |
| 39 | PAFZZ | 7125-01-367-0393 | 5B5M3 | 11A7000658-4 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 40 | PAFZZ | 7125-01-367-0430 | 5B5M3 | 11A7000658-3 | . STANLEY VIDMAR CABI UOC: ARS..... | 1 |
| 41 | PAFZZ | 7125-01-367-5663 | 5B5M3 | 11A7000658-2 | . STANLEY VIDMAR CABI UOC: ARS..... | 2 |
| 42 | PAFZZ | 7125-01-367-0429 | 5B5M3 | 11A7000658-1 | . STANLEY VIDMAR CABI UOC: ARS..... | 2 |
| 43 | PACZZ | 5340-00-764-2334 | 80205 | MS51939-1 | LOOP,STRAP FASTENER UOC: ARS..... | 4 |
| 44 | PACZZ | 5340-01-325-6834 | 3B150 | G210597-8 | STRAP,WEBBING UOC: ARS..... | 2 |
| 45 | PACZZ | 5340-01-325-6835 | 3B150 | G210597-9 | STRAP,WEBBING UOC: ARS..... | 2 |
| 46 | PACZZ | 5305-00-059-3661 | 80205 | MS51958-65 | SCREW,MACHINE UOC: ARS..... | 8 |
| 47 | PACZZ | 5310-00-933-8120 | 80205 | MS35338-138 | WASHER,LOCK UOC: ARS..... | 8 |
| 48 | PACZZ | 5310-00-880-5978 | 80205 | MS15795-807 | WASHER,FLAT UOC: ARS..... | 8 |

END OF FIGURE

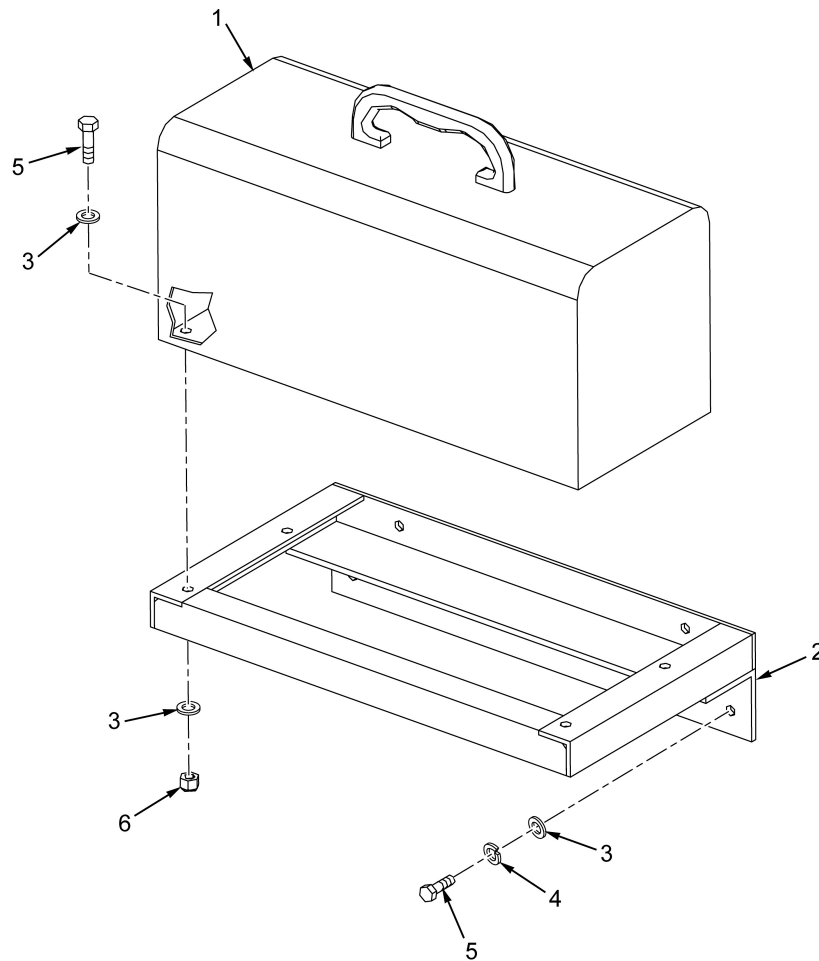
FIELD MAINTENANCE
AMMO RACK

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|-----------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0508 AMMO RACK | | | | | | |
| FIG. 17. AMMO RACK | | | | | | |
| 1 | PFCFF | | 5B5M3 | 11A7000527 | RACK, CASTERS, RIGH UOC: ARS..... | 1 |
| 2 | PAFZZ | 5306-01-624-9706 | 05047 | AES01F375C50WA6 DG1 | . BOLT,MACHINE UOC: ARS..... | 2 |
| 3 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 48 |
| 4 | PFFZZ | 5310-01-555-5301 | 39428 | 97135A235 | . NUT,SELF-LOCKING,HE UOC: ARS..... | 2 |
| 5 | PAFZZ | 5340-01-626-9224 | 5B5M3 | 11A7000915 | . BRACKET,MOUNTING UOC: ARS..... | 2 |
| 6 | PAFZZ | 5315-00-702-3192 | 80205 | MS17985C621 | . PIN,QUICK RELEASE UOC: ARS..... | 2 |
| 7 | PAFZZ | 1095-01-236-2203 | 19200 | 9395764 | . RACK,STORAGE,SMALL UOC: ARS..... | 1 |
| 8 | PAFZZ | 5305-01-612-4348 | 05047 | AES01F375A00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 9 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | . WASHER,LOCK UOC: ARS..... | 4 |
| 10 | PAFZZ | 5310-01-624-8197 | 05047 | AEN04F375328WA6 DG1 | . NUT,PLAIN,HEXAGON UOC: ARS..... | 4 |
| 11 | PAFZZ | 5340-01-624-4475 | 5B5M3 | 11A7000377 | . CASTER,SWIVEL UOC: ARS..... | 2 |
| 12 | PAFZZ | 5340-01-624-4110 | 5B5M3 | 11A7000449 | . FRAME,CASTER UOC: ARS..... | 2 |
| 13 | PAFZZ | 5306-01-624-9692 | 05047 | AES01F375B50WA6 DG1 | . BOLT,MACHINE UOC: ARS..... | 16 |
| 14 | PAFZZ | 5340-01-624-4234 | 5B5M3 | 11A7000378 | . CASTER,RIGID UOC: ARS..... | 2 |
| 15 | PAFZZ | 9905-01-626-3145 | 5B5M3 | 11A7000884-1 | . PLATE,IDENTIFICATIO UOC: ARS..... | 1 |
| 16 | PAFZZ | 5320-00-904-4136 | 81349 | M24243/1B403 | . RIVET,BLIND UOC: ARS..... | 4 |
| 17 | PAFZZ | 5340-01-624-6042 | 5B5M3 | 11A7000475 | BRACKET,MOUNTING UOC: ARS..... | 2 |
| 18 | PAFZZ | 4010-01-225-8404 | 84256 | LT1504A6-8 | WIRE ROPE ASSEMBLY, UOC: ARS..... | 2 |
| 19 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 20 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER,LOCK UOC: ARS..... | 4 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|-----------------|------------------|--------------|------------------------|--|------------|
| 21 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 4 |

END OF FIGURE

FIELD MAINTENANCE
TOOL BOX



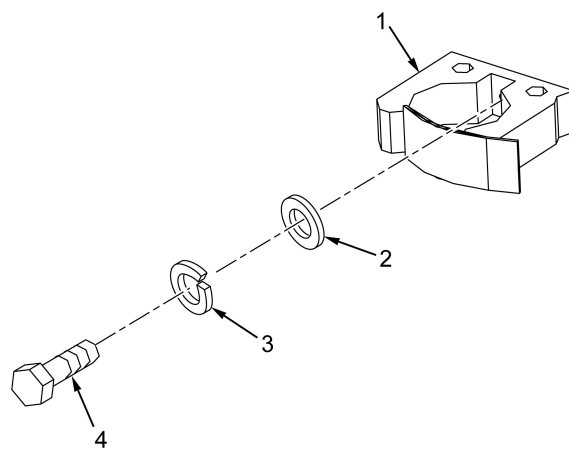
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Figure 18. TOOL BOX

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|----------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0509 TOOL BOX | | | | | | |
| FIG. 18. TOOL BOX | | | | | | |
| 1 | PFFZZ | 5140-01-625-2219 | 5B5M3 | 11A7000600 | TOOL BOX,PORTABLE UOC: ARS..... | 1 |
| 2 | PAFZZ | 5340-01-624-2114 | 5B5M3 | 11A7000598 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 3 | PAFZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | WASHER,FLAT UOC: ARS..... | 12 |
| 4 | PAFZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | WASHER,LOCK UOC: ARS..... | 4 |
| 5 | PAFZZ | 5305-01-625-8274 | 05047 | AES01F375A25WA6 DG1 | SCREW,CAP,HEXAGON H UOC: ARS..... | 8 |
| 6 | PAFZZ | 5310-01-555-5301 | 39428 | 97135A235 | NUT,SELF-LOCKING,HE UOC: ARS..... | 4 |

END OF FIGURE

FIELD MAINTENANCE
FIST CLAMP MOUNTING



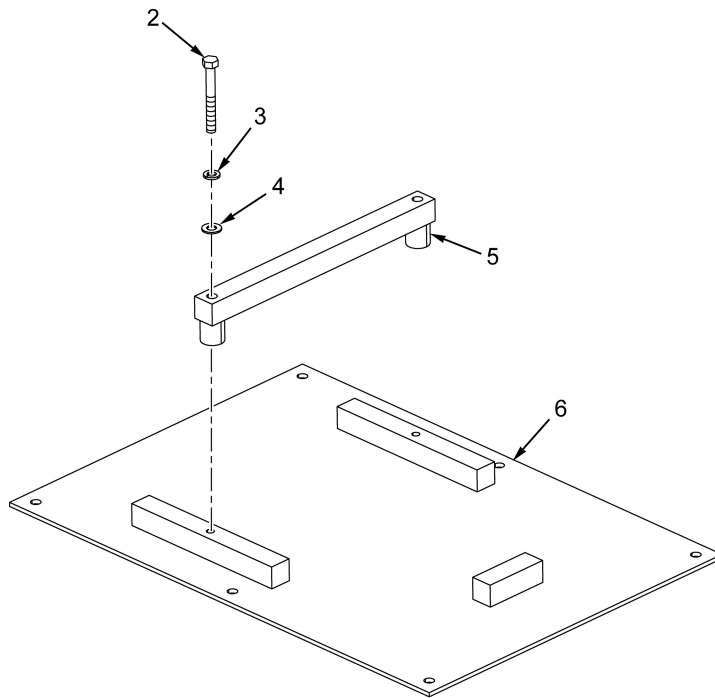
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Figure 19. FIST CLAMP MOUNTING

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---------------------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0510 FIST CLAMP MOUNTING | | | | | | |
| FIG. 19. FIST CLAMP MOUNTING | | | | | | |
| 1 | PAFZZ | 5340-01-624-2255 | 4Z8J6 | 10010 | BRACKET,MOUNTING UOC: ARS..... | 4 |
| 2 | PAFZZ | 5310-01-531-6759 | 39428 | 90108A415 | WASHER,FLAT UOC: ARS..... | 4 |
| 3 | PAFZZ | 5310-01-524-7656 | 0UJB5 | MIL-001-190 | WASHER,LOCK UOC: ARS..... | 4 |
| 4 | PAFZZ | 5305-01-625-1005 | 39428 | 92865A109 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| END OF FIGURE | | | | | | |

FIELD MAINTENANCE
DRILL PRESS BRACKET

1
2 THRU 6



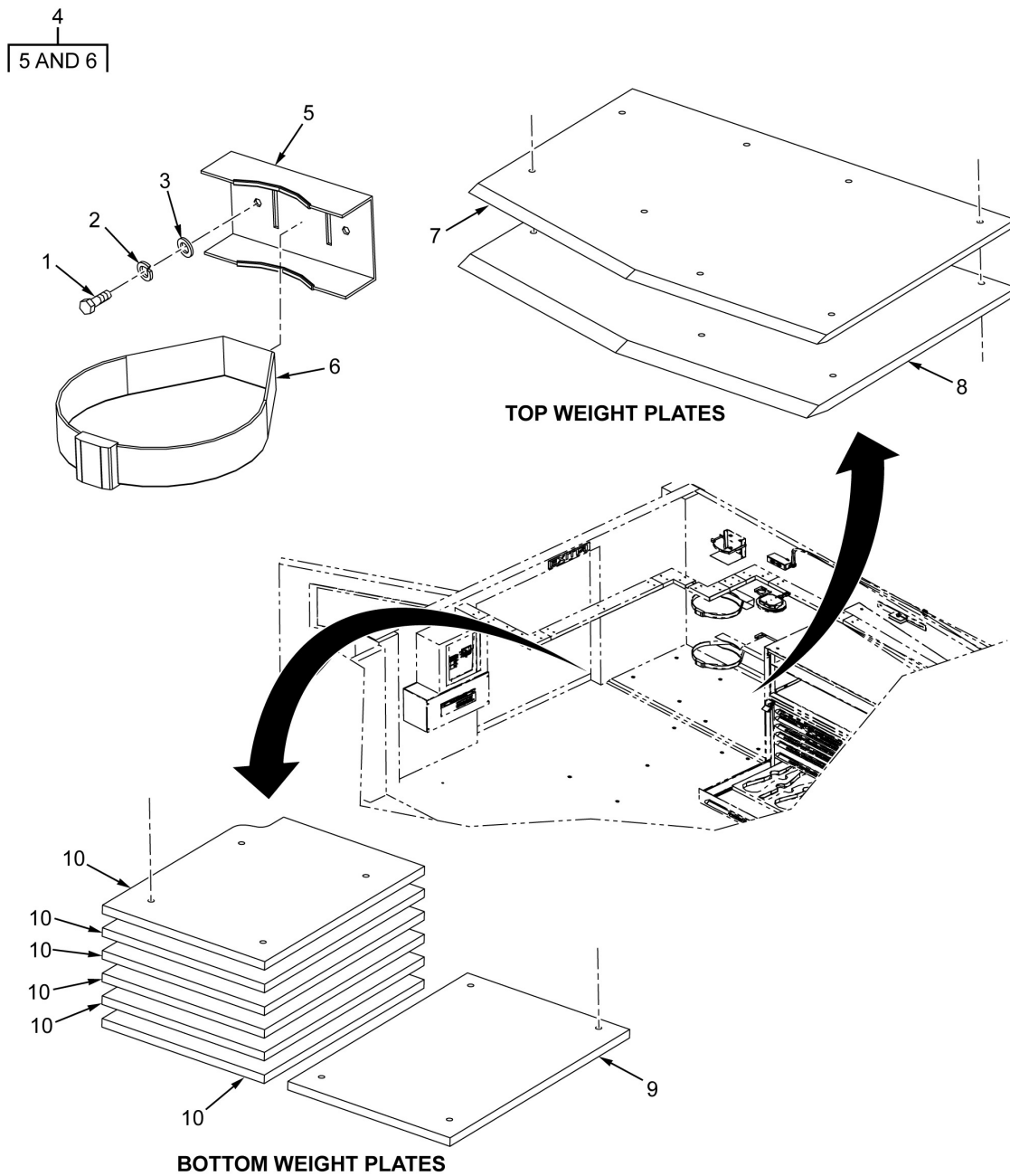
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Figure 20. DRILL PRESS BRACKET

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---------------------------------------|-----------------|------------------|--------------|------------------------|--|------------|
| GROUP 0511 DRILL PRESS BRACKET | | | | | | |
| FIG. 20. DRILL PRESS BRACKET | | | | | | |
| 1 | PFCZZ | 5340-01-624-6819 | 5B5M3 | 11A7000570 | BRACKET,MOUNTING UOC: ARS..... | 1 |
| 2 | PAFZZ | 5305-01-627-4781 | 05047 | AES01F375C00WA6 DG1 | . SCREW,CAP,HEXAGON H UOC: ARS..... | 2 |
| 3 | PACZZ | 5310-01-625-1179 | 05047 | AEW07X375094GD7 AL1 | . WASHER,LOCK UOC: ARS..... | 2 |
| 4 | PACZZ | 5310-01-625-6268 | 05047 | AEW24X37N062EA1 AC1 | . WASHER,FLAT UOC: ARS..... | 2 |
| 5 | PFCZZ | 5340-01-624-3907 | 5B5M3 | 11A7000445 | . BRACKET,MOUNTING UOC: ARS..... | 1 |
| 6 | PFFZZ | 5340-01-624-3904 | 5B5M3 | 11A7000441 | . PLATE,MOUNTING UOC: ARS..... | 1 |

END OF FIGURE

**FIELD MAINTENANCE
COMPRESSED GAS CYLINDER MOUNTING**



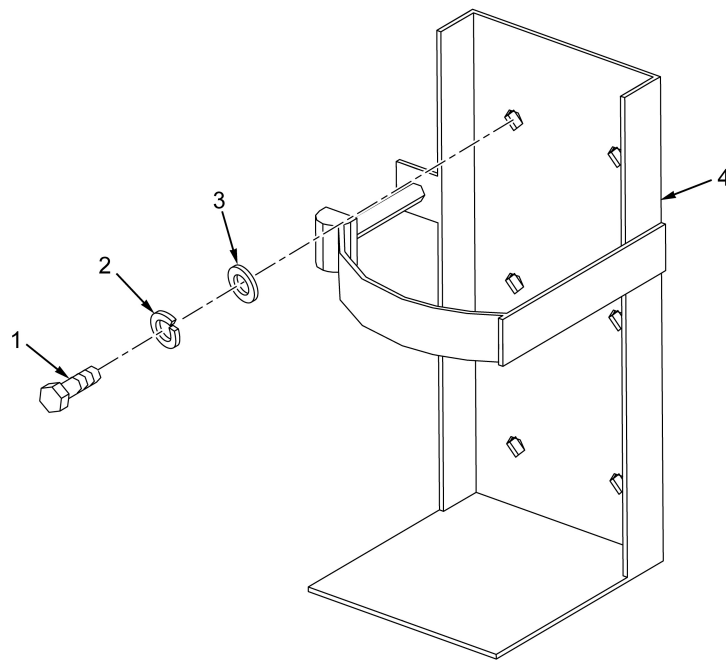
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Figure 21. COMPRESSED GAS CYLINDER MOUNTING

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0512 COMPRESSED GAS CYLINDER AND FIRE EXTINGUISHER | | | | | | |
| FIG. 21. COMPRESSED GAS CYLINDER MOUNTING | | | | | | |
| 1 | PAFZZ | 5305-01-625-1005 | 39428 | 92865A109 | SCREW,CAP,HEXAGON H UOC: ARS..... | 4 |
| 2 | PAFZZ | 5310-01-524-7656 | 0UJB5 | MIL-001-190 | WASHER,LOCK UOC: ARS..... | 4 |
| 3 | PAFZZ | 5310-01-531-6759 | 39428 | 90108A415 | WASHER,FLAT UOC: ARS..... | 4 |
| 4 | PFFZZ | 5340-01-626-0589 | 5B5M3 | 11A7000758 | BRACKET,MOUNTING UOC: ARS..... | 2 |
| 5 | PAFZZ | 5340-01-625-7290 | 5B5M3 | 11A7000454 | . BRACKET,MOUNTING UOC: ARS..... | 1 |
| 6 | PAFZZ | 5340-01-624-6163 | 1X6W8 | T-CB212E | . STRAP,WEBBING UOC: ARS..... | 1 |
| 7 | XAFZZ | | 5B5M3 | 11A7001009 | PLATE,WEIGHT UOC: ARS..... | 1 |
| 8 | XAFZZ | | 5B5M3 | 11A7000974 | PLATE,WEIGHT UOC: ARS..... | 1 |
| 9 | XAFZZ | | 5B5M3 | 11A7000975 | PLATE,WEIGHT UOC: ARS..... | 1 |
| 10 | XAFZZ | | 5B5M3 | 11A7000976 | PLATE,WEIGHT UOC: ARS..... | 6 |

END OF FIGURE

FIELD MAINTENANCE
FIRE EXTINGUISHER BRACKET



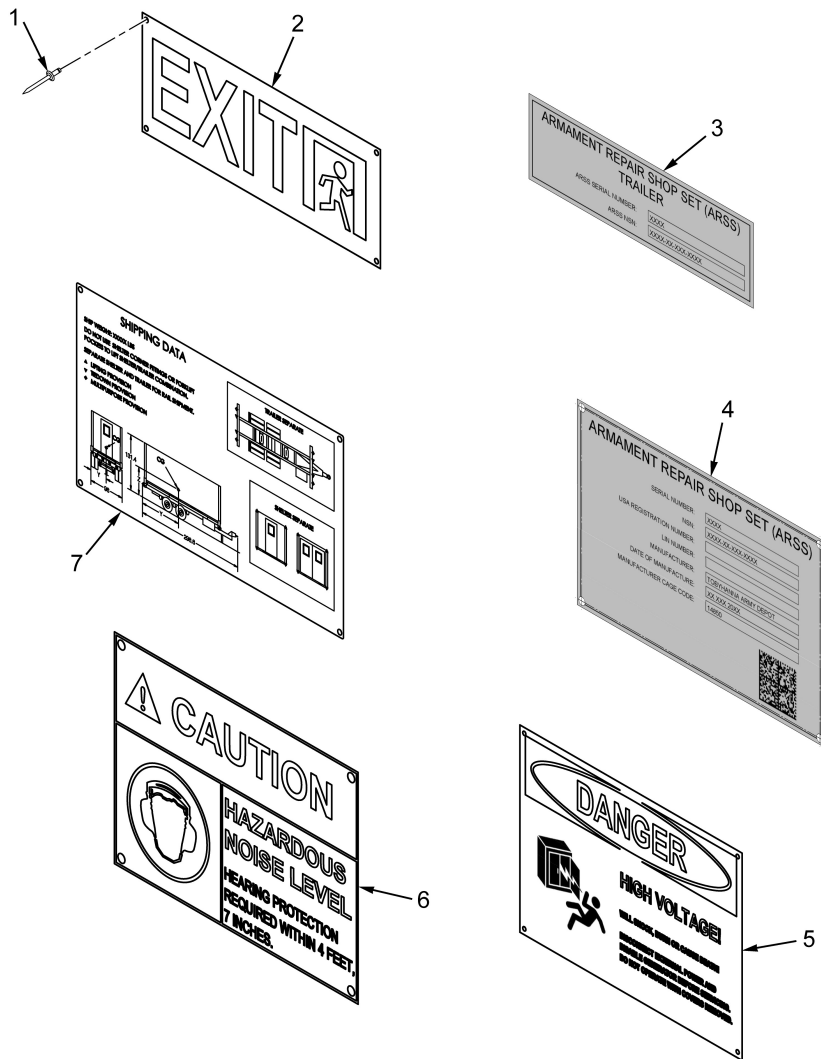
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Figure 22. FIRE EXTINGUISHER BRACKET

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|---|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0512 COMPRESSED GAS CYLINDER AND FIRE EXTINGUISHER | | | | | | |
| FIG. 22. FIRE EXTINGUISHER BRACKET | | | | | | |
| 1 | PAFZZ | 5305-01-625-1005 | 39428 | 92865A109 | SCREW,CAP,HEXAGON H UOC: ARS..... | 6 |
| 2 | PAFZZ | 5310-01-524-7656 | 0UJB5 | MIL-001-190 | WASHER,LOCK UOC: ARS..... | 6 |
| 3 | PAFZZ | 5310-01-531-6759 | 39428 | 90108A415 | WASHER,FLAT UOC: ARS..... | 6 |
| 4 | PAFZZ | 4210-01-624-1435 | 49376 | 807 | BRACKET,FIRE EXTING UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
DATA PLATES



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Figure 23. DATA PLATES

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|-------------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 0513 DATA PLATES | | | | | | |
| FIG. 23. DATA PLATES | | | | | | |
| 1 | PAFZZ | 5320-01-434-8095 | 39428 | 97447A020 | RIVET,BLIND UOC: ARS..... | 16 |
| 2 | PAFZZ | 9905-01-627-4509 | 5B5M3 | 11A7000887 | SIGN (EXIT SIGN) UOC: ARS..... | 1 |
| 3 | PAFZZ | 9905-01-627-5346 | 5B5M3 | 11A7000941 | PLATE,DATA,TRAILER UOC: ARS..... | 1 |
| 4 | PAFZZ | 9905-01-627-4054 | 5B5M3 | 11A7000333 | PLATE,IDENTIFICATIO UOC: ARS..... | 1 |
| 5 | PAFZZ | 9905-01-627-4510 | 5B5M3 | 11A7000888 | SIGN (HIGH VOLTAGE) UOC: ARS..... | 1 |
| 6 | PAFZZ | 9905-01-627-4053 | 5B5M3 | 11A7000886 | SIGN (HEARING PROTECTION) UOC: ARS..... | 1 |
| 7 | PAFZZ | 9905-01-627-2962 | 5B5M3 | 11A7000971 | PLATE,INSTRUCTION UOC: ARS..... | 1 |

END OF FIGURE

FIELD MAINTENANCE
BULK ITEMS

NOT ILLUSTRATED

Figure BULK. BULK ITEMS

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|------------------------------|-----------------|------------------|--------------|--------------------|--|------------|
| GROUP 9902 BULK ITEMS | | | | | | |
| FIG. BULK. BULK ITEMS | | | | | | |
| 1 | PAFZZ | 6145-01-625-9855 | 39428 | 7125K691 | WIRE,ELECTRICAL (BLUE) UOC: ARS..... | 1 |
| 2 | PAFZZ | 6145-01-625-9849 | 39428 | 7125K692 | WIRE,ELECTRICAL (BLACK) UOC: ARS..... | 1 |
| 3 | PAFZZ | 6145-01-625-9853 | 39428 | 7125K696 | WIRE,ELECTRICAL (RED) UOC: ARS..... | 1 |
| 4 | PAFZZ | 6145-01-625-9857 | 39428 | 7125K697 | WIRE,ELECTRICAL (WHITE) UOC: ARS..... | 1 |
| 5 | PAFZZ | 6145-01-627-3979 | 39428 | 7125K451 | WIRE,ELECTRICAL (WHITE) UOC: ARS..... | 1 |
| 6 | PAFZZ | 6415-01-627-1154 | 39428 | 7125K073 | WIRE,ELECTRICAL (BLUE) UOC: ARS..... | 1 |
| 7 | PAFZZ | 6145-01-626-9590 | 39428 | 7125K71 | WIRE,ELECTRICAL (BLACK) UOC: ARS..... | 1 |
| 8 | PAFZZ | | 39428 | 7125K079 | WIRE WHITE UOC: ARS..... | 1 |
| 9 | PAFZZ | 6145-01-627-1169 | 39428 | 7125K072 | WIRE,ELECTRICAL (RED) UOC: ARS..... | 1 |
| 10 | PAFZZ | | 22123 | 27033001 | WIRE, WHITE UOC: ARS..... | 1 |
| 11 | PAFZZ | 6145-01-625-9648 | 6W7T5 | SOOW8/4 | CORD,ELECTRICAL UOC: ARS..... | 1 |
| 12 | PAFZZ | 4720-01-627-4706 | 39428 | 5266K31 | HOSE,AIR DUCT UOC: ARS..... | 1 |
| 13 | PAFZZ | 8315-00-006-9835 | 58536 | A-A-55126 | FASTENER TAPE,HOOK UOC: ARS..... | 1 |
| 14 | PAFZZ | 4720-01-614-3782 | 39428 | 5233K66 | TUBING,NONMETALLIC UOC: ARS..... | 1 |
| 14 | PAFZZ | 4010-01-627-4842 | 22123 | 27032201 | WIRE ROPE ASSEMBLY, UOC: ARS..... | 1 |
| 15 | PAFZZ | 4010-01-627-4844 | 22123 | 27036301 | WIRE ROPE ASSEMBLY, (GREEN) UOC: ARS..... | 1 |

END OF FIGURE

**FIELD MAINTENANCE
NATIONAL STOCK NUMBER INDEX**

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|------|------|------------------|------|------|
| 8315-00-006-9835 | BULK | 13 | 5320-01-359-6978 | 4 | 12 |
| 5320-00-052-1972 | 12 | 11 | 5340-01-365-3107 | 16 | 5 |
| 5305-00-059-3661 | 16 | 46 | 5340-01-365-3137 | 16 | 10 |
| 5305-00-059-3663 | 1 | 7 | | 16 | 29 |
| | 5 | 7 | 5340-01-365-3254 | 16 | 6 |
| | 7 | 9 | 5340-01-365-5824 | 16 | 11 |
| | 8 | 16 | | 16 | 30 |
| | 11 | 11 | 5340-01-366-1069 | 16 | 12 |
| 5310-00-167-0801 | 1 | 6 | | 16 | 31 |
| | 5 | 6 | 7125-01-367-0393 | 16 | 39 |
| | 7 | 7 | 7125-01-367-0398 | 16 | 13 |
| | 8 | 18 | 7125-01-367-0399 | 16 | 14 |
| | 11 | 13 | 7125-01-367-0401 | 16 | 15 |
| 5975-00-188-1164 | 7 | 14 | 7125-01-367-0429 | 16 | 42 |
| 5340-00-200-6139 | 7 | 5 | 7125-01-367-0430 | 16 | 40 |
| 5305-00-269-3206 | 13 | 1 | 7125-01-367-5663 | 16 | 41 |
| 4710-00-286-8619 | 7 | 6 | 7125-01-372-9855 | 16 | 4 |
| 5310-00-543-5933 | 1 | 5 | 5310-01-388-2287 | 15 | 3 |
| | 7 | 8 | 5320-01-434-8095 | 23 | 1 |
| | 8 | 17 | 5305-01-451-9220 | 8 | 23 |
| | 11 | 12 | 5310-01-458-5052 | 3 | 3 |
| 5940-00-665-9568 | 7 | 23 | 4730-01-481-8120 | 2 | 2 |
| 5315-00-702-3192 | 17 | 6 | 5310-01-487-6360 | 3 | 2 |
| 5925-00-728-1289 | 7 | 24 | 5310-01-494-0206 | 12 | 3 |
| 5340-00-764-2334 | 16 | 43 | 5320-01-506-3436 | 1 | 8 |
| 5925-00-785-4251 | 7 | 25 | 5310-01-516-7549 | 3 | 4 |
| 5310-00-880-5978 | 16 | 48 | 5310-01-524-7656 | 19 | 3 |
| 6135-00-900-2139 | 7 | 16 | | 21 | 2 |
| 5320-00-904-4136 | 17 | 16 | | 22 | 2 |
| 5310-00-933-8120 | 16 | 47 | 5310-01-527-3369 | 5 | 5 |
| 5925-00-936-3933 | 7 | 25 | 5310-01-531-6759 | 19 | 2 |
| 5925-00-984-2163 | 7 | 24 | | 21 | 3 |
| 5925-01-018-3041 | 7 | 24 | | 22 | 3 |
| 5935-01-058-9269 | 7 | 13 | 4730-01-533-0502 | 1 | 3 |
| 5340-01-059-3561 | 4 | 16 | 5940-01-534-9787 | 8 | 25 |
| 5975-01-064-6415 | 7 | 10 | 5320-01-543-2084 | 4 | 17 |
| 5930-01-225-3925 | 7 | 12 | 4730-01-544-0667 | 1 | 2 |
| 5305-01-225-6697 | 12 | 6 | 5999-01-547-3801 | 12 | 2 |
| 4010-01-225-8404 | 17 | 18 | 5305-01-549-3074 | 2 | 7 |
| 1095-01-236-2203 | 17 | 7 | | 11 | 9 |
| 5925-01-252-7781 | 7 | 25 | 5310-01-555-5301 | 15 | 12 |
| 5975-01-261-9696 | 8 | 39 | | 15 | 25 |
| 5340-01-325-6834 | 16 | 44 | | 17 | 4 |
| 5340-01-325-6835 | 16 | 45 | | 18 | 6 |
| 5310-01-346-3569 | 4 | 2 | 5315-01-561-1159 | 15 | 24 |
| 5310-01-357-8844 | 2 | 6 | 5310-01-573-4447 | 13 | 4 |
| | 8 | 22 | 5320-01-575-8565 | 7 | 18 |
| | 11 | 8 | | 11 | 1 |

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|------|------|------------------|------|------|
| 5310-01-591-8655 | 4 | 24 | 5305-01-625-0250 | 3 | 5 |
| 5310-01-605-9874 | 4 | 23 | 5975-01-625-0604 | 9 | 2 |
| 5310-01-606-2476 | 4 | 18 | 5310-01-625-0641 | 2 | 5 |
| | 8 | 31 | | 4 | 19 |
| 5310-01-608-5385 | 8 | 41 | | 8 | 21 |
| 5305-01-612-4348 | 15 | 15 | | 8 | 32 |
| | 15 | 28 | | 11 | 7 |
| | 16 | 25 | 5305-01-625-1005 | 19 | 4 |
| | 17 | 8 | | 21 | 1 |
| 4720-01-614-3782 | BULK | 14 | | 22 | 1 |
| 5305-01-622-2002 | 12 | 5 | 5310-01-625-1179 | 1 | 11 |
| 5930-01-622-4839 | 7 | 11 | | 4 | 8 |
| 4210-01-624-1435 | 22 | 4 | | 6 | 11 |
| 5340-01-624-2114 | 18 | 2 | | 11 | 19 |
| 5340-01-624-2255 | 19 | 1 | | 14 | 3 |
| 5340-01-624-3904 | 20 | 6 | | 15 | 9 |
| 5340-01-624-3907 | 20 | 5 | | 15 | 31 |
| 5340-01-624-4110 | 17 | 12 | | 16 | 21 |
| 5340-01-624-4182 | 4 | 4 | | 17 | 9 |
| 5340-01-624-4234 | 17 | 14 | | 17 | 20 |
| 5340-01-624-4475 | 17 | 11 | | 18 | 4 |
| 5340-01-624-5878 | 6 | 7 | | 20 | 3 |
| 5340-01-624-5909 | 6 | 5 | 5140-01-625-2219 | 18 | 1 |
| 5340-01-624-5927 | 6 | 4 | 5340-01-625-4383 | 4 | 21 |
| 5340-01-624-5991 | 6 | 8 | 5340-01-625-4401 | 2 | 10 |
| 5340-01-624-6042 | 17 | 17 | 4710-01-625-4417 | 1 | 9 |
| 5340-01-624-6163 | 21 | 6 | 5340-01-625-4457 | 16 | 23 |
| 5340-01-624-6604 | 15 | 23 | 5975-01-625-4642 | 8 | 30 |
| 5975-01-624-6616 | 9 | 14 | 5340-01-625-4698 | 11 | 28 |
| 5340-01-624-6819 | 20 | 1 | 5340-01-625-4791 | 10 | 4 |
| 5340-01-624-6842 | 9 | 5 | 5342-01-625-5149 | 4 | 13 |
| 5975-01-624-6970 | 9 | 11 | 5340-01-625-5150 | 2 | 4 |
| 5305-01-624-7038 | 4 | 1 | 5340-01-625-5283 | 11 | 3 |
| 5320-01-624-7083 | 4 | 5 | 5340-01-625-5824 | 16 | 27 |
| 7195-01-624-7292 | 15 | 17 | 5930-01-625-5932 | 8 | 3 |
| 7195-01-624-7293 | 15 | 1 | 5340-01-625-6202 | 4 | 3 |
| 5340-01-624-7620 | 1 | 4 | 2990-01-625-6231 | 5 | 2 |
| 5310-01-624-8197 | 6 | 12 | 5310-01-625-6268 | 1 | 10 |
| | 14 | 2 | | 4 | 9 |
| | 15 | 8 | | 6 | 10 |
| | 15 | 30 | | 11 | 18 |
| | 16 | 24 | | 14 | 4 |
| | 17 | 10 | | 15 | 13 |
| 7195-01-624-8692 | 15 | 4 | | 15 | 18 |
| 7195-01-624-8693 | 15 | 35 | | 15 | 26 |
| 5305-01-624-9215 | 15 | 5 | | 16 | 20 |
| 5975-01-624-9649 | 8 | 1 | | 17 | 3 |
| 5306-01-624-9692 | 15 | 19 | | 17 | 21 |
| | 17 | 13 | | 18 | 3 |
| 5306-01-624-9706 | 17 | 2 | | 20 | 4 |
| 5305-01-624-9824 | 14 | 6 | 5975-01-625-6270 | 7 | 19 |
| | 15 | 6 | 5975-01-625-6372 | 8 | 2 |
| | 15 | 32 | 5310-01-625-6379 | 8 | 40 |

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|------|------|------------------|------|------|
| 2990-01-625-7147 | 5 | 1 | 7690-01-626-1396 | 16 | 36 |
| 5340-01-625-7290 | 21 | 5 | 7690-01-626-1717 | 16 | 38 |
| 5340-01-625-8196 | 2 | 9 | 7690-01-626-1721 | 16 | 37 |
| 5305-01-625-8246 | 11 | 17 | 5340-01-626-1759 | 4 | 10 |
| 5305-01-625-8274 | 1 | 12 | 7690-01-626-2477 | 16 | 32 |
| | 4 | 7 | 7690-01-626-2504 | 16 | 38 |
| | 6 | 9 | 7690-01-626-2609 | 16 | 34 |
| | 11 | 20 | 7690-01-626-2616 | 16 | 37 |
| | 14 | 5 | 7690-01-626-2621 | 16 | 18 |
| | 15 | 10 | 7690-01-626-2660 | 16 | 17 |
| | 16 | 22 | 7690-01-626-2661 | 16 | 16 |
| | 17 | 19 | 7690-01-626-2664 | 16 | 33 |
| | 18 | 5 | 7690-01-626-2699 | 16 | 35 |
| 5340-01-625-8709 | 16 | 19 | 7690-01-626-2701 | 16 | 36 |
| 5320-01-625-8741 | 2 | 8 | 5310-01-626-2775 | 12 | 4 |
| | 4 | 14 | 9905-01-626-3145 | 17 | 15 |
| | 6 | 6 | 5975-01-626-3164 | 8 | 19 |
| | 9 | 19 | 5340-01-626-3321 | 11 | 25 |
| | 10 | 3 | 4940-01-626-3338 | 14 | 7 |
| 5340-01-625-8765 | 8 | 24 | 5975-01-626-4534 | 7 | 15 |
| 5305-01-625-8787 | 4 | 22 | 5340-01-626-4634 | 13 | 2 |
| 5340-01-625-8834 | 4 | 11 | 2540-01-626-4895 | 15 | 11 |
| 5340-01-625-8915 | 4 | 15 | 5975-01-626-5042 | 7 | 2 |
| 4730-01-625-8923 | 5 | 4 | 4910-01-626-5273 | 12 | 13 |
| 5340-01-625-9087 | 16 | 26 | 4910-01-626-5279 | 12 | 10 |
| 5935-01-625-9226 | 12 | 18 | 5975-01-626-5353 | 11 | 10 |
| 5340-01-625-9236 | 5 | 8 | 5975-01-626-5354 | 7 | 4 |
| 4730-01-625-9308 | 5 | 3 | 5975-01-626-5355 | 7 | 1 |
| 6145-01-625-9344 | 3 | 1 | 2540-01-626-5702 | 10 | 1 |
| 5411-01-625-9468 | 12 | 1 | 5935-01-626-6383 | 1 | 15 |
| 6145-01-625-9648 | BULK | 11 | 5975-01-626-6598 | 9 | 12 |
| 6145-01-625-9849 | BULK | 2 | 5411-01-626-6741 | 12 | 7 |
| 6145-01-625-9850 | 8 | 35 | 5975-01-626-6774 | 9 | 16 |
| 6145-01-625-9853 | BULK | 3 | 5340-01-626-6839 | 11 | 27 |
| 6145-01-625-9855 | BULK | 1 | 5340-01-626-7007 | 11 | 2 |
| 6145-01-625-9857 | BULK | 4 | 5340-01-626-7668 | 11 | 6 |
| 6145-01-625-9858 | 8 | 28 | 5340-01-626-7989 | 11 | 4 |
| 6145-01-625-9860 | 8 | 29 | 5340-01-626-8167 | 12 | 16 |
| 6145-01-625-9863 | 8 | 26 | 5340-01-626-8700 | 15 | 21 |
| 6145-01-625-9866 | 8 | 27 | 5340-01-626-8701 | 15 | 23 |
| 5975-01-625-9887 | 8 | 20 | 5340-01-626-8947 | 12 | 9 |
| 5411-01-626-0081 | 11 | 15 | 5340-01-626-9224 | 17 | 5 |
| 5340-01-626-0292 | 12 | 12 | 5340-01-626-9239 | 11 | 5 |
| 5940-01-626-0360 | 8 | 38 | 5975-01-626-9296 | 9 | 17 |
| 5340-01-626-0589 | 21 | 4 | 5305-01-626-9455 | 16 | 3 |
| 4730-01-626-0621 | 12 | 15 | 6145-01-626-9590 | BULK | 7 |
| 5340-01-626-0801 | 4 | 20 | 5975-01-626-9611 | 9 | 9 |
| 5320-01-626-1025 | 12 | 8 | 5975-01-626-9635 | 9 | 8 |
| 5975-01-626-1175 | 9 | 7 | 5975-01-626-9789 | 9 | 6 |
| 5340-01-626-1253 | 2 | 1 | 5365-01-627-0376 | 13 | 3 |
| 7690-01-626-1275 | 16 | 32 | 6415-01-627-1154 | BULK | 6 |
| 7690-01-626-1347 | 16 | 34 | 6145-01-627-1169 | BULK | 9 |
| 7690-01-626-1366 | 16 | 35 | 5340-01-627-1243 | 11 | 14 |

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|------|------|------------------|------|------|
| 5365-01-627-1422 | 4 | 6 | 9905-01-627-4054 | 23 | 4 |
| 5340-01-627-1569 | 11 | 26 | 9905-01-627-4509 | 23 | 2 |
| 5340-01-627-1720 | 11 | 29 | 9905-01-627-4510 | 23 | 5 |
| 5340-01-627-2333 | 15 | 16 | 7195-01-627-4515 | 14 | 1 |
| | 15 | 27 | 4720-01-627-4706 | BULK | 12 |
| 5340-01-627-2378 | 15 | 16 | 5305-01-627-4781 | 1 | 13 |
| | 15 | 27 | | 15 | 2 |
| 5975-01-627-2410 | 9 | 3 | | 15 | 33 |
| 5975-01-627-2425 | 9 | 13 | | 20 | 2 |
| 5975-01-627-2426 | 9 | 4 | 4010-01-627-4842 | BULK | 14 |
| 5975-01-627-2442 | 9 | 15 | 4010-01-627-4844 | BULK | 15 |
| 6350-01-627-2490 | 7 | 17 | 9905-01-627-5346 | 23 | 3 |
| 9905-01-627-2962 | 23 | 7 | 7125-01-627-7325 | 15 | 20 |
| 5975-01-627-3074 | 7 | 3 | 7125-01-627-7334 | 16 | 1 |
| 3990-01-627-3374 | 15 | 14 | 7125-01-627-7336 | 16 | 28 |
| | 15 | 29 | 7125-01-627-7337 | 16 | 28 |
| 6145-01-627-3979 | BULK | 5 | 7125-01-627-7338 | 16 | 9 |
| 9905-01-627-4053 | 23 | 6 | | | |

END OF WORK PACKAGE

FIELD MAINTENANCE PART NUMBER INDEX

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|--------------------------|------|------|--------------------|------|------|
| A-A-55126 | BULK | 13 | | 8 | 21 |
| A-A-59213-I-1-CU-G | 7 | 23 | | 8 | 32 |
| AA55126,TYII, CLSIII-1IN | 12 | 14 | | 11 | 7 |
| AEN04F375328WA6DG1 | 6 | 12 | AEW24X37N062EA1AC1 | 1 | 10 |
| | 14 | 2 | | 4 | 9 |
| | 15 | 8 | | 6 | 10 |
| | 15 | 30 | | 11 | 18 |
| | 16 | 24 | | 14 | 4 |
| | 17 | 10 | | 15 | 13 |
| AES01F375A00WA6DG1 | 15 | 15 | | 15 | 18 |
| | 15 | 28 | | 15 | 26 |
| | 16 | 25 | | 16 | 20 |
| | 17 | 8 | | 17 | 3 |
| AES01F375A25WA6DG1 | 1 | 12 | | 17 | 21 |
| | 4 | 7 | | 18 | 3 |
| | 6 | 9 | | 20 | 4 |
| | 11 | 20 | AN960C10 | 1 | 6 |
| | 14 | 5 | | 5 | 6 |
| | 15 | 10 | | 7 | 7 |
| | 16 | 22 | | 8 | 18 |
| | 17 | 19 | | 11 | 13 |
| | 18 | 5 | ASE18X18X6NK | 8 | 2 |
| AES01F375B50WA6DG1 | 15 | 19 | CARRST | 16 | 11 |
| | 17 | 13 | | 16 | 30 |
| AES01F375C00WA6DG1 | 1 | 13 | CBSTL | 16 | 12 |
| | 15 | 2 | | 16 | 31 |
| | 15 | 33 | CBSTR | 16 | 10 |
| | 20 | 2 | | 16 | 29 |
| AES01F375C50WA6DG1 | 17 | 2 | CBT50COM | 7 | 3 |
| AES01F375D00WA6DG1 | 15 | 5 | CCT-3 | 7 | 11 |
| AESQ2Z1IA500WA9D71 | 16 | 7 | DW-CS-80 | 16 | 4 |
| AESS1Z21A625GC1D71 | 14 | 6 | DWSDD155 | 16 | 2 |
| | 15 | 6 | G210597-8 | 16 | 44 |
| | 15 | 32 | G210597-9 | 16 | 45 |
| AEW07X375094GD7AL1 | 1 | 11 | HBALAUWC | 9 | 5 |
| | 4 | 8 | HBLALU3817 | 9 | 2 |
| | 6 | 11 | IH3-1-LM | 7 | 10 |
| | 11 | 19 | KW100-22406 | 8 | 3 |
| | 14 | 3 | LT1504A6-8 | 17 | 18 |
| | 15 | 9 | M24243/1B403 | 17 | 16 |
| | 15 | 31 | M24243/1B405 | 12 | 11 |
| | 16 | 21 | MIL-001-190 | 19 | 3 |
| | 17 | 9 | | 21 | 2 |
| | 17 | 20 | | 22 | 2 |
| | 18 | 4 | MIL-100-332 | 4 | 24 |
| | 20 | 3 | MN1604 | 7 | 16 |
| AEW24X25N062EA1AC1 | 2 | 5 | MS15795-807 | 16 | 48 |
| | 4 | 19 | MS17985C621 | 17 | 6 |

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|-----------------|------|------|---------------|------|------|
| MS35333-73 | 1 | 5 | 11A7000493-1 | 9 | 13 |
| | 7 | 8 | 11A7000493-2 | 9 | 8 |
| | 8 | 17 | 11A7000493-3 | 9 | 3 |
| | 11 | 12 | 11A7000493-4 | 9 | 10 |
| MS35338-138 | 16 | 47 | 11A7000493-5 | 9 | 4 |
| MS51939-1 | 16 | 43 | 11A7000493-7 | 9 | 12 |
| MS51958-65 | 16 | 46 | 11A7000494-1 | 9 | 15 |
| MS51958-67 | 1 | 7 | 11A7000494-2 | 9 | 9 |
| | 5 | 7 | 11A7000494-3 | 9 | 18 |
| | 7 | 9 | 11A7000494-4 | 9 | 11 |
| | 8 | 16 | 11A7000494-5 | 9 | 6 |
| | 11 | 11 | 11A7000494-7 | 9 | 16 |
| MS90725-55 | 13 | 1 | 11A7000498 | 12 | 17 |
| NAS1149C0632R | 15 | 3 | 11A7000499 | 9 | 1 |
| NASM17830-5C | 13 | 4 | 11A7000503 | 10 | 2 |
| QOB115 | 7 | 24 | 11A7000508 | 2 | 1 |
| QOB115GFI | 7 | 24 | 11A7000516 | 7 | 15 |
| QOB120 | 7 | 24 | 11A7000521 | 2 | 10 |
| QOB3100 | 7 | 25 | 11A7000522 | 2 | 4 |
| QOB340 | 7 | 25 | 11A7000523 | 14 | 1 |
| QOB360 | 7 | 25 | 11A7000524 | 15 | 35 |
| RJFTVB2GISONI | 12 | 18 | 11A7000525 | 15 | 4 |
| RJFTVC2G | 12 | 2 | 11A7000527 | 17 | 1 |
| SBSTL | 16 | 6 | 11A7000533 | 14 | 7 |
| SBSTR | 16 | 5 | 11A7000534 | 11 | 15 |
| SG3108E24-79S | 1 | 15 | 11A7000544 | 11 | 23 |
| SOOW 8/4-AR | 1 | 14 | 11A7000545 | 11 | 6 |
| SOOW8/4 | BULK | 11 | 11A7000546 | 15 | 36 |
| T-CB212E | 21 | 6 | 11A7000547 | 15 | 7 |
| UL 6 | 7 | 14 | 11A7000548 | 11 | 2 |
| WC596/40-2 | 7 | 13 | 11A7000549 | 11 | 27 |
| 00322003LPK50 | 8 | 41 | 11A7000553 | 15 | 1 |
| 00322005LPK50 | 8 | 40 | 11A7000554 | 15 | 17 |
| 0418C09-0425-01 | 1 | 2 | 11A7000559 | 11 | 14 |
| 06A8172010 | 13 | 2 | 11A7000560-1 | 11 | 5 |
| 06A8172012 | 13 | 3 | 11A7000560-2 | 11 | 21 |
| 07401032 | 8 | 39 | 11A7000561 | 11 | 4 |
| 10010 | 19 | 1 | 11A7000561-2 | 11 | 22 |
| 11511131 | 16 | 3 | 11A7000563 | 11 | 29 |
| 11A7000325 | 15 | 22 | 11A7000564 | 11 | 26 |
| 11A7000327 | 15 | 23 | 11A7000570 | 20 | 1 |
| 11A7000333 | 23 | 4 | 11A7000577 | 6 | 2 |
| 11A7000377 | 17 | 11 | 11A7000583 | 6 | 3 |
| 11A7000378 | 17 | 14 | 11A7000584 | 6 | 4 |
| 11A7000431 | 15 | 11 | 11A7000585-2 | 6 | 7 |
| 11A7000435 | 11 | 16 | 11A7000586 | 4 | 11 |
| 11A7000441 | 20 | 6 | 11A7000587 | 6 | 1 |
| 11A7000445 | 20 | 5 | 11A7000588 | 6 | 8 |
| 11A7000449 | 17 | 12 | 11A7000598 | 18 | 2 |
| 11A7000454 | 21 | 5 | 11A7000600 | 18 | 1 |
| 11A7000475 | 17 | 17 | 11A7000607-1 | 16 | 16 |
| 11A7000489 | 9 | 14 | 11A7000607-10 | 16 | 38 |
| 11A7000492 | 9 | 7 | 11A7000607-11 | 16 | 32 |

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|---------------|------|------|--------------|------|------|
| 11A7000607-12 | 16 | 33 | 11A7000758 | 21 | 4 |
| 11A7000607-13 | 16 | 34 | 11A7000817 | 12 | 7 |
| 11A7000607-14 | 16 | 35 | 11A7000818 | 12 | 1 |
| 11A7000607-15 | 16 | 36 | 11A7000830 | 12 | 13 |
| 11A7000607-16 | 16 | 37 | 11A7000831 | 12 | 10 |
| 11A7000607-17 | 16 | 38 | 11A7000834 | 12 | 12 |
| 11A7000607-2 | 16 | 17 | 11A7000835 | 12 | 9 |
| 11A7000607-3 | 16 | 18 | 11A7000844 | 12 | 16 |
| 11A7000607-4 | 16 | 32 | 11A7000846 | 12 | 15 |
| 11A7000607-5 | 16 | 33 | 11A7000884-1 | 17 | 15 |
| 11A7000607-6 | 16 | 34 | 11A7000886 | 23 | 6 |
| 11A7000607-7 | 16 | 35 | 11A7000887 | 23 | 2 |
| 11A7000607-8 | 16 | 36 | 11A7000888 | 23 | 5 |
| 11A7000607-9 | 16 | 37 | 11A7000897 | 8 | 30 |
| 11A7000608 | 4 | 4 | 11A7000908 | 8 | 1 |
| 11A7000619 | 10 | 4 | 11A7000915 | 17 | 5 |
| 11A7000620 | 10 | 5 | 11A7000924 | 8 | 20 |
| 11A7000624 | 10 | 1 | 11A7000933 | 5 | 8 |
| 11A7000629 | 7 | 2 | 11A7000938 | 5 | 1 |
| 11A7000633 | 11 | 10 | 11A7000941 | 23 | 3 |
| 11A7000634 | 7 | 4 | 11A7000949 | 9 | 17 |
| 11A7000635 | 4 | 3 | 11A7000959 | 15 | 14 |
| 11A7000639 | 7 | 1 | | 15 | 29 |
| 11A7000642 | 11 | 3 | 11A7000960 | 15 | 16 |
| 11A7000645 | 4 | 20 | | 15 | 27 |
| 11A7000650 | 4 | 21 | 11A7000961 | 15 | 16 |
| 11A7000652 | 2 | 9 | | 15 | 27 |
| 11A7000653 | 11 | 28 | 11A7000971 | 23 | 7 |
| 11A7000655 | 4 | 10 | 11A7000974 | 21 | 8 |
| 11A7000657-1 | 11 | 24 | 11A7000975 | 21 | 9 |
| 11A7000658-1 | 16 | 42 | 11A7000976 | 21 | 10 |
| 11A7000658-2 | 16 | 41 | 11A7000982 | 15 | 22 |
| 11A7000658-3 | 16 | 40 | 11A7000986 | 15 | 20 |
| 11A7000658-4 | 16 | 39 | 11A7000988-1 | 15 | 21 |
| 11A7000658-5 | 16 | 13 | 11A7000988-2 | 15 | 23 |
| 11A7000658-6 | 16 | 14 | 11A7001009 | 21 | 7 |
| 11A7000658-7 | 16 | 15 | 127 | 7 | 19 |
| 11A7000662-3 | 4 | 6 | 1350 AL | 7 | 6 |
| 11A7000688 | 16 | 23 | 21007624 | 7 | 17 |
| 11A7000694-1 | 2 | 11 | 225-S | 4 | 16 |
| 11A7000694-2 | 2 | 3 | 27032201 | BULK | 14 |
| 11A7000700 | 16 | 8 | 27032201-AR | 7 | 20 |
| 11A7000701 | 16 | 26 | 27033001 | BULK | 10 |
| 11A7000708 | 16 | 27 | 27033001-AR | 7 | 21 |
| 11A7000711 | 16 | 19 | | 7 | 27 |
| 11A7000717 | 1 | 9 | 27036301 | BULK | 15 |
| 11A7000728 | 4 | 13 | 27036301-AR | 7 | 22 |
| 11A7000729 | 4 | 15 | 3177T13 | 1 | 4 |
| 11A7000747 | 11 | 25 | 3356A77 | 6 | 5 |
| 11A7000749 | 16 | 9 | 3912753C1 | 4 | 23 |
| 11A7000750 | 16 | 28 | 4176 | 7 | 5 |
| 11A7000751 | 16 | 28 | 4464K42 | 5 | 4 |
| 11A7000752 | 16 | 1 | 5-4-5063 | 12 | 6 |

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|-------------|------|------|-------------|------|------|
| 5-4-5151 | 7 | 12 | 90108A036 | 4 | 2 |
| 5233K66 | BULK | 14 | 90108A415 | 19 | 2 |
| 5233K66-AR | 1 | 1 | | 21 | 3 |
| 5266K31 | BULK | 12 | | 22 | 3 |
| 53015K53 | 5 | 3 | 90631A411 | 5 | 5 |
| 53525K19 | 1 | 3 | 91102A029 | 2 | 6 |
| 6926K51 | 8 | 38 | | 8 | 22 |
| 6926K74 | 8 | 25 | | 11 | 8 |
| 7081K29 | 3 | 1 | 91104A033 | 3 | 4 |
| 7125K072 | BULK | 9 | 91257A421 | 4 | 22 |
| 7125K072-AR | 8 | 12 | 91257A568 | 11 | 17 |
| 7125K073 | BULK | 6 | 91257A752 | 3 | 5 |
| 7125K073-AR | 8 | 14 | 91257A855 | 4 | 1 |
| 7125K079 | BULK | 8 | 91772A110 | 12 | 5 |
| 7125K079-AR | 8 | 15 | 91831A005 | 12 | 3 |
| 7125K451 | BULK | 5 | 92620A564 | 2 | 7 |
| 7125K451-AR | 7 | 26 | | 11 | 9 |
| 7125K471 | 8 | 28 | 92865A109 | 19 | 4 |
| 7125K472 | 8 | 26 | | 21 | 1 |
| 7125K473 | 8 | 27 | | 22 | 1 |
| 7125K474 | 8 | 29 | 92865A122 | 15 | 34 |
| 7125K691 | BULK | 1 | 92865A542 | 8 | 23 |
| 7125K691-AR | 8 | 4 | 9395764 | 17 | 7 |
| | 8 | 8 | 9434T75 | 8 | 24 |
| | 8 | 33 | 94895A825 | 3 | 3 |
| 7125K692 | BULK | 2 | 96659A101 | 12 | 4 |
| 7125K692-AR | 8 | 5 | 97135A215 | 4 | 18 |
| | 8 | 9 | | 8 | 31 |
| | 8 | 34 | 97135A235 | 15 | 12 |
| 7125K694 | 8 | 35 | | 15 | 25 |
| 7125K696 | BULK | 3 | | 17 | 4 |
| 7125K696-AR | 8 | 6 | | 18 | 6 |
| | 8 | 10 | 97447A020 | 23 | 1 |
| | 8 | 36 | 97447A055 | 4 | 17 |
| 7125K697 | BULK | 4 | 97447A125 | 7 | 18 |
| 7125K697-AR | 8 | 7 | | 11 | 1 |
| | 8 | 11 | 97447A653 | 2 | 8 |
| | 8 | 37 | | 4 | 14 |
| 7125K71 | BULK | 7 | | 6 | 6 |
| 7125K71-AR | 8 | 13 | | 9 | 19 |
| 7127K6 | 8 | 19 | | 10 | 3 |
| 7401023 | 8 | 42 | 97447A654 | 4 | 12 |
| 807 | 22 | 4 | 97447A656 | 4 | 5 |
| 863-000399 | 2 | 2 | 97524A070 | 12 | 8 |
| 9-175 | 5 | 2 | 97525A430 | 1 | 8 |
| 90108A033 | 3 | 2 | 98480A017 | 15 | 24 |

END OF WORK PACKAGE

CHAPTER 7

SUPPORTING INFORMATION

FOR

ARMAMENT REPAIR SHOP SET

(ARSS)

FIELD MAINTENANCE REFERENCES

REFERENCES

This work package lists all Field manuals, forms, Technical Manuals (TM), supply catalogs, and miscellaneous publications referenced in this manual.

NOTE

(Applications for copies of ASTM documents should be addressed to the American Society for Testing Material, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, (online: www.astm.org) or copies of these documents are available online at <https://assist.daps.dla.mil/quicksearch/> or <https://www.dodssp.daps.mil/> or from the Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

FIELD MANUALS

| | |
|------------|----------------------------|
| FM 4-25.11 | First Aid |
| FM 4-25.12 | Unit Field Sanitation Team |

FORMS

| | |
|---------------------|---|
| DA Form 2028 | Recommended Changes to Publications and Blank Forms |
| DA Form 5988-E/2404 | Equipment Inspection and Maintenance Worksheet |
| SF 361 | Transportation Discrepancy Report |
| SF 364 | Supply Discrepancy Report |
| SF 368 | Product Quality Deficiency Report |

OTHER PUBLICATIONS

| | |
|--------------|--|
| AR 25-30 | The Army Publishing Program |
| AR 700-138 | Army Logistics Readiness and Sustainability |
| AR 735-11-2 | Reporting of Supply Discrepancies |
| AR 750-1 | Army Materiel Maintenance Policy |
| DA PAM 750-8 | The Army Maintenance Management System (TAMMS) User Manual |

TECHNICAL BULLETINS

| | |
|-------------------|--|
| TB 10-5411-224-24 | Warranty Program for Lightweight Multipurpose Shelters |
|-------------------|--|

TECHNICAL BULLETINS - Continued

| | |
|----------------------|---|
| TB 11-5400-200-14 | Loading of S-280< >/G Sized Shelters in Containers – ANSI/ ISO Type 1AA |
| TB 43-0001-62 Series | Equipment Improvement Report (EIR) and Digest Maintenance |

TECHNICAL MANUALS

| | |
|--------------------|--|
| TM 9-2330-328-14&P | Trailer: 7 1/2-Ton, 4-Wheel |
| TM 9-4120-425-14&P | Environmental Control Unit (ECU), Air Conditioner, Horizontal, Compact |
| TM 9-4120-434-13&P | Improved Environmental Control Unit (IECU), Air Conditioner, Horizontal, Compact |
| TM 9-6115-750-10 | Operator's Manual for Generator Set, Skid Mounted (AMMPS) MEP-1040 50/60 Hz (NSN: 6115-01-561-7455) MEP-1041 400 Hz (NSN: 6115-01-561-7466) |
| TM 9-6115-750-24&P | Field and Sustainment Maintenance Manual Including Repair Parts and Special Tools List For Generator Set, Skid Mounted 10kw Advanced Medium Mobile Power Sources (AMMPS) MEP-1040, 50/60 HZ (NSN: 6115-01-561-7455) (EIC: MA3) MEP-1041, 400 HZ (NSN: 6115-01-561-7466) (EIC: MA4) |
| TM 10-5411-201-14 | Shelter, Tactical, Expandable, One-Sided |
| TM 750-244-3 | Procedures for Destruction of Equipment to Prevent Enemy Use (Mobility Equipment Command) |

SUPPLY CATALOGS

| | |
|----------------|---|
| SC 4940-95-A70 | Armament Repair Shop Set (ARSS) |
| SC 4910-95-A81 | Shop Equipment, Automotive Vehicle (Standard Automotive Tool Set, SATS) |
| SC 4180-95-B48 | Tool Kit, General Mechanic's Automotive |

END OF WORK PACKAGE

FIELD MAINTENANCE MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION

The Army Maintenance System MAC

This introduction provides a general explanation of the maintenance and repair functions.

The MAC (immediately following this introduction) designates overall authority and responsibility for the performance of maintenance tasks on the identified end item or component. The application of the maintenance tasks to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels/classes, which are shown in the MAC in column (4). Column (4) is divided into two secondary columns. These columns indicate the maintenance levels/classes of 'Field' and 'Sustainment'.

Each maintenance level column is further divided into two sub-columns. These sub-columns identify the maintenance classes and are as follows:

1. Field level maintenance classes:

- a. Crew (operator) maintenance. This is the responsibility of a using organization to perform maintenance on its assigned equipment. It normally consists of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and subassemblies. Items with a "C" ("O" for joint service reporting) in the third position of the Source, Maintenance, and Recoverability (SMR) code may be replaced at the crew (operator) class. A code of "C" ("O" for joint service) in the fourth position of the SMR code indicates complete repair is authorized at the crew (operator) class.
- b. Maintainer maintenance. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion by field level units. This maintenance is performed either on the system or after it is removed. An "F" in the third position of the SMR code indicates replacement of assemblies, subassemblies, or other components is authorized at this level. An "F" in the fourth position of the SMR code indicates complete repair of the identified item is allowed at the Maintainer class. Items repaired at this level are normally returned to the user after maintenance is performed.

2. Sustainment level maintenance classes:

- a. Below depot sustainment. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The item subject to maintenance has normally been forwarded to a maintenance facility away from the field level supporting units. An "H" in the third position of the SMR code indicates replacement of assemblies, subassemblies, or other components is authorized at this class. An "H" appearing in the fourth position of the SMR code indicates complete repair is possible at this class. Items are normally returned to the supply system after maintenance is performed at this class.
- b. Depot. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. Assets to be repaired at this class are normally returned to an Army Depot or authorized contractor facility. The replace function for this class of maintenance is indicated by the letter "D" or "K" appearing in the third position of the SMR code. A "D" or "K" appearing in the fourth position of the SMR code indicates complete repair is possible at the depot sustainment maintenance level. Items are returned to the supply system after maintenance is performed at this class.

The Army Maintenance System MAC - Continued

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

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

Maintenance functions (tasks)

Maintenance functions are limited to and defined as follows:

1. **Inspect.** A function to determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).
2. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards, e.g., load testing of lift devices or hydrostatic testing of pressure hoses.
3. **Service.** Operations required periodically to keep an item in proper operating condition such as replenishing fuel, lubricants, chemical fluids, or gases.
4. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
5. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.
6. **Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. It consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
7. **Remove.** The act of taking a component off an asset to facilitate other maintenance on a different component or on the same component (except for replace and repair.)
8. **Install.** The act of placing, positioning, or otherwise locating a component to make it part of a higher level end item. The install task is authorized by the LMI/MAC and the assigned maintenance level is shown as the third position code of the SMR code.
9. **Replace.** The act of taking off an unserviceable component and putting a serviceable component in its place. The replace task is authorized by the LMI/MAC and the assigned maintenance level is shown as the third position code of the SMR code.
10. **Repair.** The act of restoring an item to a completely serviceable or fully mission capable status. The repair task is authorized by the LMI/MAC and the assigned maintenance level is shown as the fourth position code of the SMR code.
11. **Paint.** This is a function to prepare and apply coats of paint. When used with munitions, the paint is applied so the ammunition can be identified and protected.

NOTE

- The following definitions are applicable to the "repair" maintenance task: Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).
 - Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.
12. **Overhaul.** This is the maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in the appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to a like new condition.

Maintenance functions (tasks) - Continued

13. Rebuild. This consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.
14. Lubricate. The act of applying a material (e.g., oil or grease) to reduce friction and allow a component to operate in a more efficient manner.
15. Mark. The process of restoring obliterated identification on an asset.
16. Pack. To place an item into a container for either storage or shipment after service and other maintenance operations have been completed.
17. Unpack. The act of removing an asset from a storage or shipping container in preparation to perform further maintenance (e.g., repair or install).
18. Preserve. The action required to treat systems and equipment whether installed or stored, to ensure a serviceable condition.
19. Prepare for use. Those steps required to make an asset ready for other maintenance (e.g., remove preservatives, lubricate, etc.).
20. Assemble. The step-by-step instructions to join the component pieces of an asset together to make a complete serviceable asset.
21. Disassemble. The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).
22. Clean. Step-by-step instructions on how to remove dirt, corrosion or other contaminants from equipment. Refer to appropriate painting, lubrication, and preservation methods to restore original corrosion prevention and control methods when removed as a result of cleaning and/or when using cleaning to remove corrosion from the item.
23. Non destructive inspection. Step-by-step instructions on preparation and accomplishment inspections which do not destroy or damage the equipment.
24. Radio interference suppression. Step-by-step instructions to ensure installed equipment, either communication or other electronics, does not interfere with installed communication equipment.
25. Place in service. Step-by-step instructions required to place an item into service that are not covered in the service upon receipt work package.
26. Towing. The step-by-step instructions to connect one vehicle to another for the purpose of having one vehicle moved through the motive power of the other vehicle.
27. Jacking. The step-by-step instructions to mechanically raise or lift a vehicle to facilitate maintenance on the vehicle.
28. Parking. Step-by-step instructions to safely place a vehicle in a lot, ramp area or other designated location.
29. Mooring. Step-by-step instructions to secure a vehicle by chains, ropes or other means to protect the vehicle from environmental conditions or secure for transportation.
30. Covering. Step-by-step instructions to place a protective wrapping over a vehicle to protect it from environmental conditions or to hide (e.g., camouflage) it.
31. Hoisting. Step-by-step instructions to allow a vehicle to be raised by cables or ropes through attaching points.
32. Sling loading. Step-by-step instructions to place a sling around a vehicle to allow it to be raised.
33. External power. Step-by-step instructions on how to apply electrical power from any authorized power source (e.g., external generator or facility power).
34. Preparation for storage or shipment. Step-by-step instructions for preparing the equipment for placement into administrative storage or for special transportation requirements.
35. Arm. Detailed instructions on activating munitions prior to use.

Maintenance functions (tasks) - Continued

- 36. Load. This may be one of two tasks:
 - a. For transportation, the act of placing assets onto a transportation medium (e.g., pallet, truck, container).
 - b. For weapons/weapons systems, the act of placing munitions into the weapon/weapons system.
- 37. Unload. This may be one of two tasks:
 - a. For transportation, the act of removing assets from a transportation medium (e.g., pallet, truck, container).
 - b. For weapons/weapons systems, the act of removing munitions from the weapon/weapons system.
- 38. Software maintenance. Step-by-step instructions for software maintenance (e.g., installing, un-installing, etc.).

Explanation of Columns in the MAC

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

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

Column (3) Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions, refer to maintenance functions (tasks) outlined previously.)

Column (4) Maintenance Level. Column (4) specifies each level/class of maintenance authorized to perform each function listed in column (3), by indicating work time required in the appropriate sub-column. This work time figure represents the active time required to perform that maintenance task at the indicated level/class of maintenance. If the number or complexity of the tasks within the listed maintenance task varies at different maintenance classes, appropriate work time figures are to be shown for each class.

The work time figure represents the average time required to perform the prescribed task (assembly, subassembly, component, module, end item, or system) on the item under typical operating conditions for that maintenance level/class. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance tasks authorized in the MAC. The symbol designations for the various maintenance levels/classes and classes are as follows:

Field:

- C Crew maintenance
- F Maintainer maintenance

Sustainment:

- L Specialized Repair Activity (SRA)
- H Below depot maintenance
- D Depot maintenance

Explanation of Columns in the MAC - Continued**NOTE**

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

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

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

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) Maintenance Level. The lowest class of maintenance authorized to use the tool or test equipment.

Column (3) Nomenclature. Name or identification of the tool or test equipment. Column (4) National Stock Number (NSN). The NSN of the tool or test equipment. Column (5) Tool Number. The manufacturer's part number.

Explanation of Columns in the Remarks

Column (1) Remarks Code. The code recorded in column (6) of the MAC.

Column (2) Remarks. This column lists information pertinent to the maintenance task being performed as indicated in the MAC."

END OF WORK PACKAGE

**FIELD MAINTENANCE
MAINTENANCE ALLOCATION CHART (MAC)**

Table 1. Maintenance Allocation Chart (MAC).

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|---|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 00 | SHELTER REAR | | | | | | | |
| 01 | ENVIRONMENT AL CONTROL UNIT (ECU) | Replace | | 2.8 | | | 2 | |
| | ECU POWER CABLE | Inspect Replace | 0.1 | 0.4 | | | 2 | |
| | ECU DRAIN COMPONENTS | Inspect Replace | 0.1 | 0.7 | | | 1, 2 | |
| 0101 | ECU AIR DUCT | Inspect Replace | 0.1 | 3.0 | | | 1, 2 | |
| 02 | GENERATOR | Replace | | 1.6 | | | 1, 2 | |
| | GENERATOR POWER CABLE | Inspect Replace | 0.1 | 0.7 | | | 1, 2 | |
| 0201 | GENERATOR SLIDE ASSEMBLY | Inspect Service Replace | 0.1 0.1 | 2.6 | | | 2 | |
| | GENERATOR SPRING LATCH | Inspect Service Replace | 0.1 0.1 | 0.5 | | | 2 | |
| | GENERATOR SLIDE LOCKING ROD | Inspect Replace | 0.1 | 0.5 | | | 1, 2 | |
| | GENERATOR SLIDE PADS | Inspect Replace | 0.1 | 0.5 | | | 1, 2 | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|------------------------------------|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0202 | GENERATOR FLOOR PADS | Inspect Replace | 0.1 | 0.5 | | | 1, 2 | |
| | EXHAUST AND RAIN CAP | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | EXHAUST CLAMP | Inspect Replace | 0.1 | 0.4 | | | 2 | |
| 03 | STORAGE RACK | Inspect Replace | 0.1 | 0.5 | | | 2 | |
| | STORAGE RACK SPRING LATCH | Inspect Service Replace | 0.1 0.1 | 0.2 | | | 1 | |
| 04 | STORAGE RACK DOOR AND HINGE | Inspect Replace | 0.1 | 0.7 | | | 1 | |
| | SHELTER ELECTRICAL | Inspect Repair | 0.1 | 1.0 | | | 1, 2, 3 | |
| | MECHANICAL ROOM EMT CONDUIT | Inspect Replace | 0.1 | 2.2 | | | 2 | |
| | MECHANICAL ROOM LIGHT SWITCH | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | MECHANICAL ROOM OUTLET | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | MECHANICAL ROOM OUTLET BOX | Inspect Replace | 0.1 | 0.5 | | | 1, 2 | |
| | EMT CONDUIT | Inspect Replace | 0.1 | 0.8 | | | 2 | |
| | | | | | | | | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|--|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0401 | CIRCUIT BREAKER | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | SMOKE ALARM | Inspect Test Replace | 0.1 | 0.1 0.2 | | | 2 2 | |
| | SMOKE ALARM JUNCTION BOX AND CONDUIT | Inspect Replace | 0.1 | 0.4 | | | 1, 2 | |
| | SMOKE ALARM 9V BATTERY | Inspect Replace | 0.1 | 0.2 | | | | |
| | SELECTOR SWITCH ELECTRICAL | | | | | | | |
| | SELECTOR SWITCH | Inspect Test Replace | 0.1 | 0.1 0.5 | | | 2 2 | |
| | MECHANICAL ROOM ELECTRICAL BOX | Inspect Replace | 0.1 | 1.0 | | | 2 | |
| | ELECTRICAL BOX CONDUIT | Inspect Replace | 0.1 | 0.5 | | | 2 | |
| | MECHANICAL ROOM PULL BOX | Inspect Replace | 0.1 | 1.0 | | | 2 | |
| | WORK ROOM PULL BOX | Inspect Replace | 0.1 | 1.1 | | | 2 | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|---|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0402 | RACEWAY | Inspect Replace | 0.1 | 2.0 | | | 1, 2 | |
| 05 | SHELTER INTERIOR | | | | | | | |
| 0501 | MODIFIED CLOSEOUT PANEL ASSEMBLY | Inspect Repair | 0.1 | 1.0 | | | 1, 2 | |
| 0502 | MODIFIED SHELTER WALLS | | | | | | | |
| | ECU CUTOUT FRAME | Inspect Replace | 0.1 | 0.5 | | | 1, 2 | |
| | ECU WELDMENT | Inspect Replace | 0.1 | 0.4 | | | 2 | |
| 0503 | SINGLE ENTRY PANEL (SEP) ASSEMBLY | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | SINGLE ENTRY PANEL (SEP) | Inspect Repair | 0.1 | 1.0 | | | 1, 2 | |
| 0504 | RAMP ROLLER | Inspect Service Replace | 0.1 0.1 | 0.2 | | | 2 | |
| 0505 | CABINET WORKBENCH | | | | | | | |
| | CABINET WORKBENCH BRACE | Inspect Replace | 0.1 | 0.5 | | | 2 | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|------------------------------------|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0506 | CABINET WORKBENCH TOP | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | WORKBENCHE S A AND B | | | | | | | |
| | WORKBENCH TOP | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| | WORKBENCH CASTER | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| | WORKBENCH FOOT LOCK | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| 0507 | BII TOOL BOX | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | STACKBIN RACK | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | WISE | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| | GRINDER | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | TOOL CABINETS A, B, C, AND D | | | | | | | |
| | TOOL CABINET D | Inspect Replace | 0.1 | 0.9 | | | 2 | |
| | | | | | | | | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|--|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0508 | TOOL CABINET D DOORS | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | TOOL CABINETS A, B, AND C | Inspect Replace | 0.1 | 1.1 | | | 2 | |
| | TOOL CABINET DRAWER | Inspect Service Replace | 0.1 0.1 | 0.1 | | | 2 | |
| | TOOL CABINET DRAWER SLIDE | Inspect Replace | 0.1 | 0.3 | | | 2 | |
| | AMMO RACK | | | | | | | |
| | AMMO RACKCASTER | Inspect Service Replace | 0.1 0.1 | 0.5 | | | 2 | |
| | SMALL ARMS RACK | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | AMMO RACK BRACKET | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| | AMMO RACK INNER / OUTER ROD LATERAL BRACKET | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| 0509 | TOOL BOX | Inspect Replace | 0.1 | 0.3 | | | 2 | |

Table 1. Maintenance Allocation Chart (MAC) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/A SSEMBLY | (3) MAINTENANCE FUNCTION | (4) | | | | (5) TOOLS AND EQUIPMENT REFERENCE CODE | (6) REMARKS CODE |
|------------------------|--|--------------------------------|-------------------|------------|-------------|-------|--|------------------------|
| | | | MAINTENANCE LEVEL | | | | | |
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 0510 | TOOL BOX BRACKET | Inspect Replace | 0.1 | 0.4 | | | 2 | |
| | FIST CLAMP MOUNTING | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| 0511 | DRILL PRESS BRACKET | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| 0512 | COMPRESSED GAS CYLINDER MOUNTING | Inspect Replace | 0.1 | 0.2 | | | 2 | |
| 0513 | FIRE EXTINGUISHER BRACKET | Inspect Replace | 0.1 | 0.1 | | | 2 | |
| | DATA PLATES | Inspect Replace | 0.1 | 0.1 | | | 2 | |

Table 2. Tools and Test Equipment Requirements.

| TOOLS OR TEST EQUIPMENT | MAINTENANCE LEVEL | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NUMBER |
|----------------------------|----------------------|---------------------------------|--------------------------|----------------|
| 1 | O, F | Armament Repair Shop Set (ARSS) | 4940-01-619-0916 | SC 4940-95-A70 |
| 2 | F | Tool Kit, General Mechanic's | 5180-01-548-7634 | PD484 |
| 3 | F | Tool Set, SATS, Base | 4910-01-490-6453 | SC 4910-95-A81 |

Table 3. Remarks.

| REMARK CODE | REMARKS |
|-------------|---------|
| - | - |

END OF WORK PACKAGE

**FIELD MAINTENANCE
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS**

INTRODUCTION

Scope

This work package lists COEI and BII for the ARSS to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the (enter name of end item). As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the (enter name of end item) in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the (enter name of end item) during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the Table of Organization and Equipment/Modified Table of Organization and Equipment (TOE/MTOE). Illustrations are furnished to help you find and identify the items.

Column (1) Illus Number. Gives you the number of the item illustrated.

Column (2) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (3) Description, Part Number/Commercial and Government Entity Code (CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. (Add the following only as applicable. Replace Xs with appropriate codes and model numbers.) These codes are identified below:

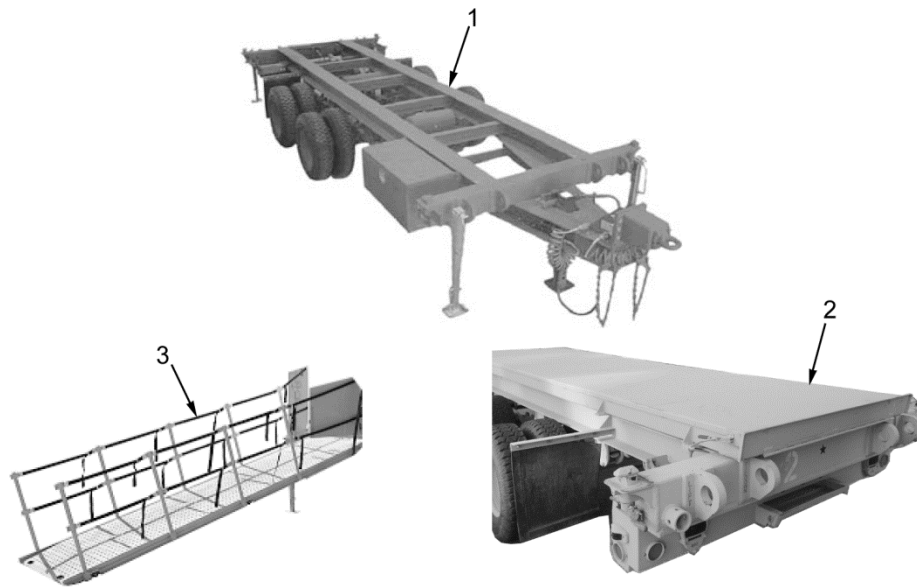
| Code | Used On |
|-------------|----------------|
|-------------|----------------|

| | |
|-----|------|
| ARS | ARSS |
|-----|------|

Column (5) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) Qty Rqr. Indicates the quantity required.

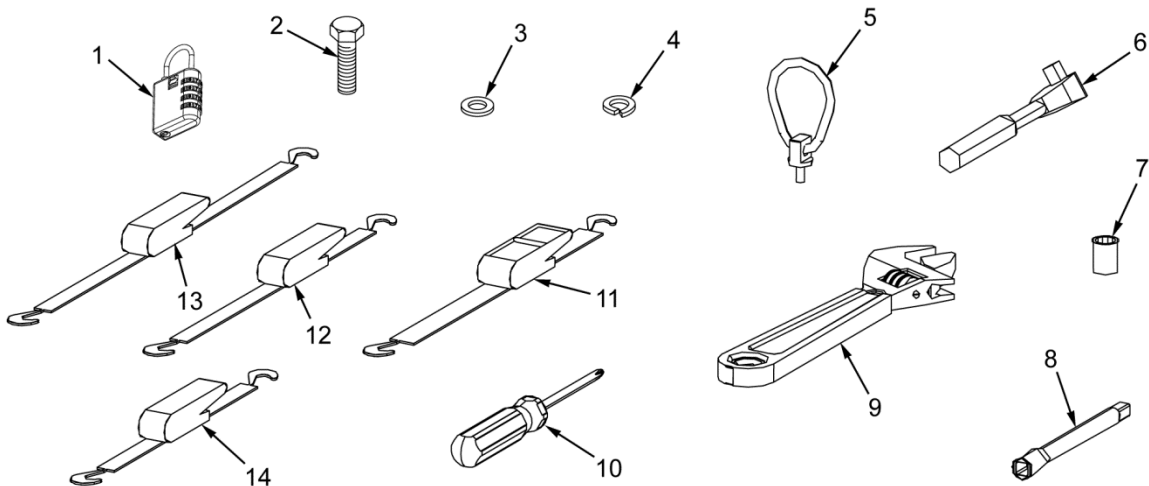
COMPONENTS OF END ITEM (COEI)



ARSS0382

Table 1. Components Of End Item List.

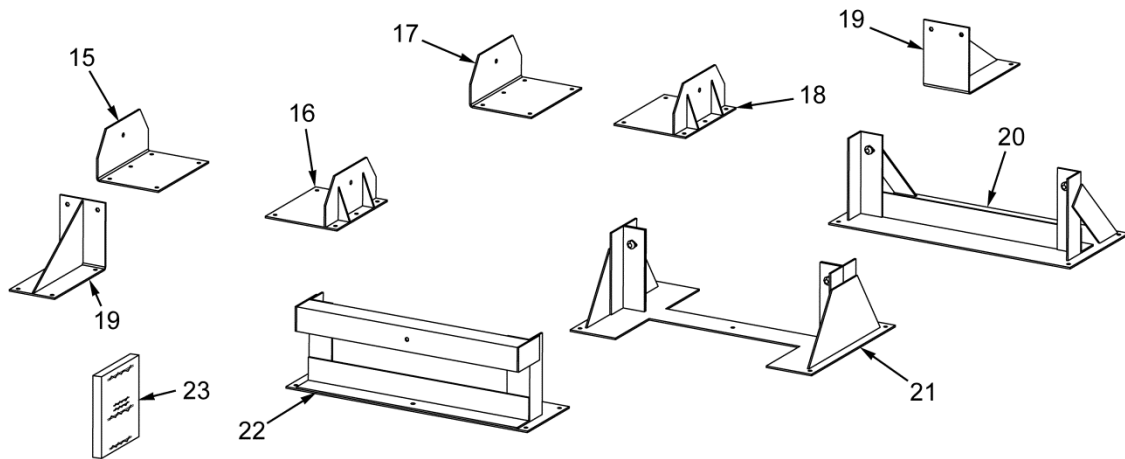
| (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|-----------------------------|---|----------------|-----|---------|
| Illus Number | National Stock Number (NSN) | Description, Part Number/CAGEC | Usable On Code | U/I | QTY Rqr |
| 1 | 2330-01-506-5979 | CHASSIS, TRAILER, (7 1/2-TON, 4-WHEEL), 1103-3000-300 (2W888), SERIAL NUMBER: XCK2000E1 | ARS | EA | 1 |
| 2 | 3990-01-603-1284 | (BOX) RAMP, MOBILE, CONTAINER LOADING, 58301405 (80298) | ARS | EA | 1 |
| 3 | 3990-01-603-1275 | RAMP, MOBILE, CONTAINER LOADING, 58301403 (80298) | ARS | EA | 1 |

BASIC ISSUE ITEMS (BII)

ARSS0380

Table 2. Basic Issue Items List.

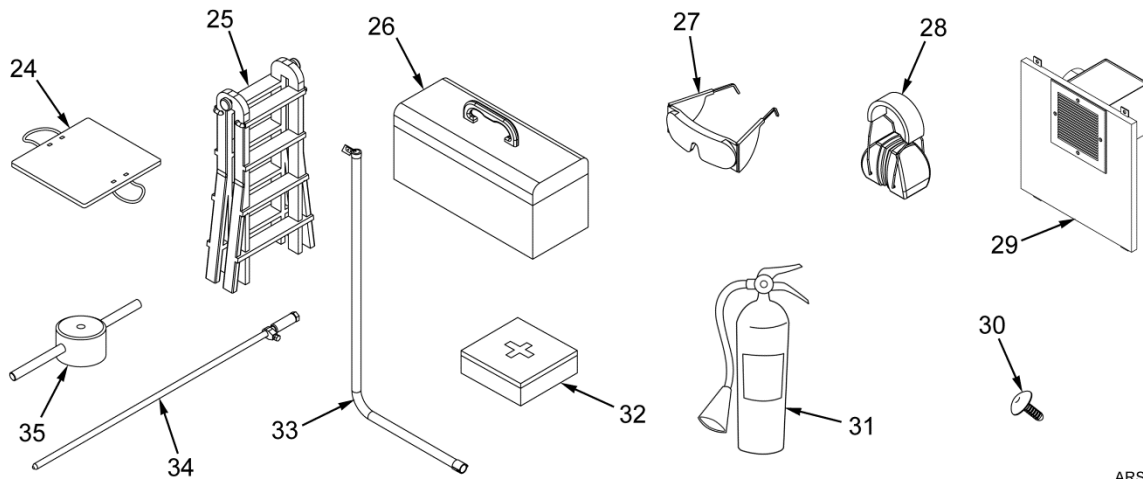
| (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|-----------------------------|--|----------------|-----|---------|
| Illus Number | National Stock Number (NSN) | Description, Part Number/CAGEC | Usable On Code | U/I | QTY Rqr |
| 1 | 5340-01-119-3981 | PADLOCK (COMBO), AA1928-2E (38797) | ARS | EA | 1 |
| 2 | 5305-01-625-8274 | SCREW,CAP,HEXAGON HEAD, AES01F375A25WA6DG1 (05047) | ARS | EA | 55 |
| 3 | 5310-01-625-6268 | WASHER, FLAT, AEW24X37N062EA1AC1 (05047) | ARS | EA | 55 |
| 4 | 5310-00-004-5033 | WASHER, LOCK, MS35338-46 (80205) | ARS | EA | 55 |
| 4 | 5310-00-004-5033 | WASHER, LOCK, MS35338-46 (80205) (*PACKAGE OF 100) | ARS | HD | 6* |
| 5 | 5306-01-225-8441 | BOLT, EYE (D-RING), 5-4-3020 (81337) | ARS | EA | 9 |
| 6 | 5120-01-573-1319 | HANDLE, SOCKET WRENCH 3/8" DRIVE, 11-972 (636D0) | ARS | EA | 1 |
| 7 | 5120-01-397-3181 | SOCKET, SOCKET, WRENCH 3/8" DRIVE, 9/16", 11-118 (08292) | ARS | EA | 1 |
| 8 | 5120-01-398-7673 | EXTENSION, SOCKET WRENCH 3/8" DRIVE, 6", 11923 (636D0) | ARS | EA | 1 |
| 9 | 5120-01-600-4304 | WRENCH, ADJUSTABLE, 8", ADHW8 (55719) | ARS | EA | 1 |
| 10 | 5120-00-234-8913 | SCREWDRIVER, CROSS TIP, 64-102 (78525) | ARS | EA | 1 |
| 11 | 3990-01-204-3009 | TIE DOWN, CARGO, VEHICLE, MIL-PRF-71224-1 (0KHZ6) (GENERATOR) | ARS | EA | 2 |
| 12 | 5340-01-625-7287 | STRAP,WEBBING RATCHET, T-R2716FSH (1X6W8) (CHAIRS) | ARS | EA | 1 |
| 13 | - | TIE DOWN, CARGO, VEHICLE, 121012K (4ZF82) (WORKBENCHES) | ARS | EA | 2 |
| 14 | 3990-01-625-2784 | TIE DOWN, CARGO, VEHICLE, T-R2706FSH (1X6W8) (NITRO INTENSIFIER) | ARS | EA | 1 |

BASIC ISSUE ITEMS (BII) - Continued

ARSS0381

Table 3. Basic Issue Items List.

| (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|-----------------------------|--|----------------|-----|---------|
| Illus Number | National Stock Number (NSN) | Description, Part Number/CAGEC | Usable On Code | U/I | QTY Rqr |
| 15 | - | BRACKET, STORAGE B5, 11A7000372-2 (5B5M3) | ARS | EA | 1 |
| 16 | - | BRACKET, STORAGE B4, 11A7000371-2 (5B5M3) | ARS | EA | 1 |
| 17 | - | BRACKET, STORAGE B3, 11A7000372-1 (5B5M3) | ARS | EA | 1 |
| 18 | - | BRACKET, STORAGE B1, 11A7000371-1 (5B5M3) | ARS | EA | 1 |
| 19 | 5340-01-624-4155 | BRACE,CORNER (STORAGE BRACKET) B2 and B6, 11A7000382 (5B5M3) | ARS | EA | 2 |
| 20 | 5340-01-625-8404 | BRACKET,MOUNTING (STORAGE BRACKET) B7, 11A7000660 (5B5M3) | ARS | EA | 1 |
| 21 | - | BRACKET, STORAGE B8, 11A7000659-1 (5B5M3) | ARS | EA | 1 |
| 22 | 5340-01-624-4775 | BRACKET,MOUNTING (STORAGE BRACKET) B9, 11A7000661 (5B5M3) | ARS | EA | 1 |
| 23 | - | TECHNICAL MANUAL (TM 9-4940-578-13&P) | ARS | EA | 1 |

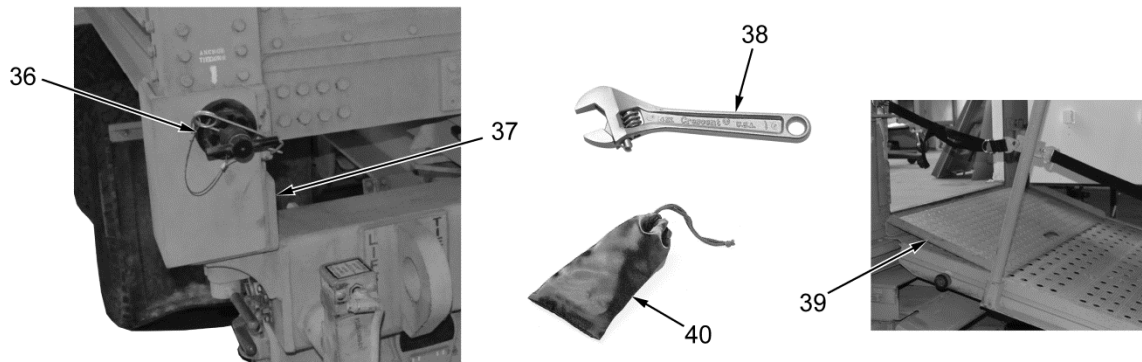
BASIC ISSUE ITEMS (BII) - Continued

ARSS0388

Table 4. Basic Issue Items List.

| (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|-----------------------------|--|----------------|-----|---------|
| Illus Number | National Stock Number (NSN) | Description, Part Number/CAGEC | Usable On Code | U/I | QTY Rqr |
| 24 | - | PAD, OUTRIGGER, MAX1001818 (1L2F2) | ARS | EA | 7 |
| 25 | - | LADDER, MT-13 (90172) | ARS | EA | 2 |
| 26 | - | TOOLBOX, 6572A13 (39428) | ARS | EA | 1 |
| 27 | 4240-01-552-4142 | GOGGLE, SAFETY, S99-S3200D-MIL (08895) | ARS | EA | 2 |
| 28 | 4240-01-505-0050 | PROTECTOR, HEARING, H10A (76381) | ARS | EA | 2 |
| 29 | 2540-01-626-5702 | VENTILATOR, AIR CIRCULATOR (MODIFIED CLOSEOUT PANEL) 1A7000624 (5B5M3) | ARS | EA | 1 |
| 30 | - | INSERT PLUG, 150153014 (3DU54) | ARS | EA | 59 |
| 31 | 4210-01-493-8159 | EXTINGUISHER, FIRE, B500 (54905) | ARS | EA | 1 |
| 32 | 6545-00-922-1200 | FIRST AID KIT, GENERAL PURPOSE, 6545-00-922-1200 (89875) | ARS | EA | 1 |
| 33 | 2990-01-625-7147 | EXHAUST SYSTEM, ENGINE, 11A7000938 (5B5M3) | ARS | EA | 1 |
| 34 | - | SET, GROUND ROD, 5975-00 (55719) | ARS | EA | 1 |
| 35 | 5120-01-013-1676 | SLIDE HAMMER, GROUND ROD, 5120010131676 (63003) | ARS | EA | 1 |

BASIC ISSUE ITEMS (BII) - Continued



ARSS0407

Table 5. Basic Issue Items List.

| (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|-----------------------------|--|----------------|-----|---------|
| Illus Number | National Stock Number (NSN) | Description, Part Number/CAGEC | Usable On Code | U/I | QTY Rqr |
| 36 | 5340-01-603-1514 | TWIST LOCK, KTC-S17180 (00NS2) | ARS | EA | 4 |
| 37 | 5340-01-603-1513 | SHELTER SPACE ASSY (RIGHT), 86079069 (80298) | ARS | EA | 2 |
| 37 | 5340-01-603-1519 | SHELTER SPACE ASSY (LEFT), 86079070 (80298) | ARS | EA | 2 |
| 38 | 5120-00-473-6476 | WRENCH,ADJUSTABLE 5120-00-473-6476 (05506) | ARS | EA | 1 |
| 30 | 5340-01-603-1286 | PLATE,MOUNTING (THRESHOLD PLATE), 68301579 (80298) | ARS | EA | 1 |
| 40 | - | CASE,GOGGLE 763-S487 (08895) | ARS | EA | 2 |

END OF WORK PACKAGE

FIELD MAINTENANCE EXPENDABLE AND DURABLE ITEMS LIST

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the ARSS. This list is for information 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), CTA 50-909, Field and Garrison Furnishings and Equipment or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) - Item No. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use wiping rag (WP 0123, Item 4)).

Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item (include as applicable: C = Crew, O = AMC, F = Maintainer or ASB, H = BelowDepot or TASMG, D = Depot).

Column (3) - National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Part Number/(CAGEC). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (5) - U/I. Unit of Issue (U/I) code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable and Durable Items List.

| (1) | (2) | (3) | (4) | (5) |
|----------|-------|-----------------------------|---|-----|
| ITEM NO. | LEVEL | NATIONAL STOCK NUMBER (NSN) | ITEM NAME, DESCRIPTION, PART NUMBER/ (CAGEC) | U/I |
| 1 | C, F | 6850-01-377-1809 | CLEANING COMPOUND,SOLVENTT AA59601-3E (58536) | GL |
| 2 | C, F | 6515-01-535-6182 | GLOVE, PATIENT EXAMINING MDS 195085 (0PMN3) | EA |
| 3 | C, F | 9150-01-197-7688 | GREASE, AUTOMOTIVE AND ARTILLERY M-10924-A (81349) | TU |
| 4 | C, F | 7920-00-205-1711 | RAG, WIPING 7920-00-205-1711 (64067) | BE |
| 5 | F | 8030-00-723-5343 | SEALING COMPOUND AC 236-A-2 (D1940) | KT |

Table 1. Expendable and Durable Items List – Continued.

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER (NSN) | (4) ITEM NAME, DESCRIPTION, PART NUMBER/ (CAGEC) | (5) U/I |
|--------------------|--------------|---------------------------------------|--|------------|
| 6 | F | 1210-00-381-5431 | TAG, WIRE 417360PC5 (10001) | EA |
| 7 | F | 5970-00-685-9059 | TAPE, INSULATION, ELECTRICAL SCOTCH 23 3/4 (75037) | RO |
| 8 | F | 5120-01-604-5566 | TERMINAL KIT, ELECTRICAL, FRS MWH30005 (55719) | KT |
| 9 | F | 3930-01-513-8761 | THREAD TAPE 8526053 (1YHH8) | EA |
| 10 | F | 6640-01-585-2943 | TIE, CABLE 6632K324 (29428) | EA |

END OF WORK PACKAGE

FIELD MAINTENANCE TOOL IDENTIFICATION LIST

INTRODUCTION

Scope

This work package lists all common tools and supplements and special tools/fixtures needed to maintain the ARSS.

Most PM-SKOT products have lifetime warranties and replacement capabilities and are supported world-wide through PM-SKOT. The PM-SKOT implemented a Web-based tool replacement and warranty program in May 2005 for tools authorized in SKO. User may access the online program by first accessing the PM-SKOT Web site at <https://pmskot.army.mil> and clicking on the Tool Replacement/Warranty banner.

Explanation of Columns in the Tool Identification List

Column (1) - Item No. This number is assigned to the entry in the list and is referenced in the initial setup to identify the item (e.g., "Extractor (WP 0124, Item 32)").

Column (2) - Item Name. This column lists the item by noun nomenclature and other descriptive features (e.g., "Gage, belt tension").

Column (3) - National Stock Number (NSN). This is the National Stock Number (NSN) assigned to the item; use it to requisition the item.

Column (4) - Part Number/(CAGEC). 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. The manufacturer's Commercial and Government Entity Code (CAGEC) is also included.

Column (5) - Reference. This column identifies the authorizing supply catalog or RPSTL for items listed in this work package.

Table 1. Tool Identification List.

| (1) | (2) | (3) | (4) | (5) |
|----------|--|--------------------------------|----------------------------|----------------|
| ITEM NO. | ITEM NAME | NATIONAL STOCK NUMBER (NSN) | PART NUMBER /(CAGEC) | REFERENCE |
| 1 | BIT, DRILL 1/4" PART OF DRILL SET, TWIST | 5133-01-477-9534 | DBTBC129 (55719) | SC 4940-95-A70 |
| 2 | BIT, DRILL 1/8" PART OF DRILL SET, TWIST | 5133-01-477-9534 | DBTBC129 (55719) | SC 4940-95-A70 |
| 3 | BIT, DRILL 3/16" PART OF DRILL SET, TWIST | 5133-01-477-9534 | DBTBC129 (55719) | SC 4940-95-A70 |
| 4 | CRIMPING TOOL, TERMINAL, HAND | - | KTC S0159 (00NS2) | SC 4910-95-A81 |

Table 1. Tool Identification List – Continued.

| (1) | (2) | (3) | (4) | (5) |
|----------|--|--------------------------------|------------------------------|--------------------|
| ITEM NO. | ITEM NAME | NATIONAL STOCK NUMBER (NSN) | PART NUMBER /(CAGEC) | REFERENCE |
| 5 | DRILL-DRIVER, ELECTRIC, PORTABLE | 5130-01-459-6055 | DCD940KX (07429) | SC 4940-95-A70 |
| 6 | EXTENSION, SOCKET WRENCH 3/8" DRIVE, 6" | 5120-01-398-7673 | 11923 (636D0) | ARSS BII (WP 0122) |
| 7 | HANDLE, SOCKET WRENCH 3/8" DRIVE | 5120-01-573-1319 | 11-972 (636D0) | ARSS BII (WP 0122) |
| 8 | HEAT GUN | - | 8988-20 (40817) | SC 4940-95-A70 |
| 9 | LADDER | - | MT-13 (90172) | ARSS BII (WP 0122) |
| 10 | RIVETER, BLIND, HAND | 5120-01-430-5070 | 200F (1DJ82) | SC 4940-95-A70 |
| 11 | SCREWDRIVER, CROSS TIP | 5120-00-234-8913 | 64-102 (78525) | ARSS BII (WP 0122) |
| 12 | SCREWDRIVER, FLAT TIP | - | ASME B107.5 | TM 10-5411-201-14 |
| 13 | SOCKET, SOCKET, WRENCH 3/8" DRIVE, 9/16" | 5120-01-397-3181 | 11-118 (08292) | ARSS BII (WP 0122) |
| 14 | TOOL KIT, GENERAL MECHANIC'S | 5180-01-548-7634 | PD484 (19200) | SC 5180-95-B48 |
| 15 | WRENCH, ADJUSTABLE, 8" | 5120-01-600-4304 | ADHW8 (55719) | ARSS BII (WP 0122) |
| 16 | WRENCH, BOX (TERMINAL) | 5120-01-373-8976 | 88-21146 (30554) | TM 9-6115-750-24P |
| 17 | WRENCH, TORQUE 3/8" DRIVE (0-150 FT-LB) | 5120-01-426-7560 | 7502MRMH (08194) | SC 4940-95-A70 |
| 18 | WRENCH (TRAILER BII BOX) | 5120-00-473-6476 | 5120-00-473- 6476 (05506) | ARSS BII (WP 122) |

END OF WORK PACKAGE

**FIELD MAINTENANCE
SCHEMATICS**

SCHEMATICS

Foldout 1 (FO-1)

Foldout 2 (FO-2)

Foldout 3 (FO-3)

END OF WORK PACKAGE

| | | | | | | | |
|--|--------|------------|------|------------|-------|--|---|
| RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA. | | | | | | Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM). | DATE <i>Date you filled out this form.</i> |
| TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IM/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000 | | | | | | FROM (Activity and location) (Include ZIP Code) <i>Your mailing address</i> | |
| PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS | | | | | | | |
| PUBLICATION/FORM NUMBER <i>TM Number</i> | | | | | | DATE <i>Date of the TM</i> | TITLE <i>Title of the TM</i> |
| ITEM | PAGE | PARA-GRAPH | LINE | FIGURE NO. | TABLE | RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given) | |
| | 0007-3 | | | | | <i>Figure 2, Item 9 should show a lockwasher. Currently shows a flat washer.</i> | |
| | 0018-2 | | | | | <i>Cleaning and inspection, Step 6, reference to governor support pin (14) is wrong reference. Reference should be change to (12).</i> | |
| <h1>SAMPLE</h1> | | | | | | | |
| TYPED NAME, GRADE OR TITLE <i>Your Name</i> | | | | | | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION <i>Your Phone Number</i> | |
| | | | | | | SIGNATURE <i>Your Signature</i> | |

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|---|----------|----------|-----------------------|---|------------|------------------------------------|------------------------------------|---|--|
| TO (Forward direct to addressee listed in publication) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IM/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000 | | | | FROM (Activity and location) (Include ZIP Code) <i>Your Address</i> | | | | DATE <i>Date you filled out this form</i> | |
| PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS | | | | | | | | | |
| PUBLICATION NUMBER <i>TM Number</i> | | | | DATE <i>Date of the TM</i> | | TITLE <i>Title of the TM</i> | | | |
| PAGE NO. | COLM NO. | LINE NO. | NATIONAL STOCK NUMBER | REFERENCE NO. | FIGURE NO. | ITEM NO. | TOTAL NO. OF MAJOR ITEMS SUPPORTED | RECOMMENDED ACTION | |
| <div>SAMPLE</div> | | | | | | | | | |
| PART III – REMARKS (Any general remarks, or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.) | | | | | | | | | |
| TYPED NAME, GRADE OR TITLE <i>Your Name</i> | | | | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION <i>Your Phone Number</i> | | SIGNATURE <i>Your Signature</i> | | | |

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|--|------|------------|------|------------|--|---|-----------|--|--|
| RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA | | | | | | Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM). | | DATE | |
| TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IM/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000 | | | | | | FROM (Activity and location) (Include ZIP Code) | | | |
| PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS | | | | | | | | | |
| PUBLICATION/FORM NUMBER TM 9-4940-578-13&P | | | | | | DATE 15 June 2014 | | TITLE ARMAMENT REPAIR SHOP SET (ARSS) | |
| | PAGE | PARA-GRAPH | LINE | FIGURE NO. | TABLE | RECOMMENDED CHANGES AND REASON | | | |
| | | | | | | | | | |
| TYPED NAME, GRADE OR TITLE | | | | | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | | SIGNATURE | | |

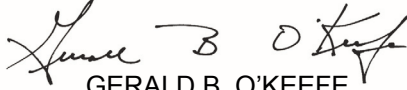
| | | | | | | | | |
|--|----------|----------|-----------------------|---|------------|--|------------------------------------|--------------------|
| TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IM/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000 | | | | FROM <i>(Activity and location) (Include ZIP Code)</i> | | | DATE | |
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| TYPED NAME, GRADE OR TITLE | | | | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | | SIGNATURE | | |

By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink, appearing to read "Gerald B. O'Keefe", written over a horizontal line.

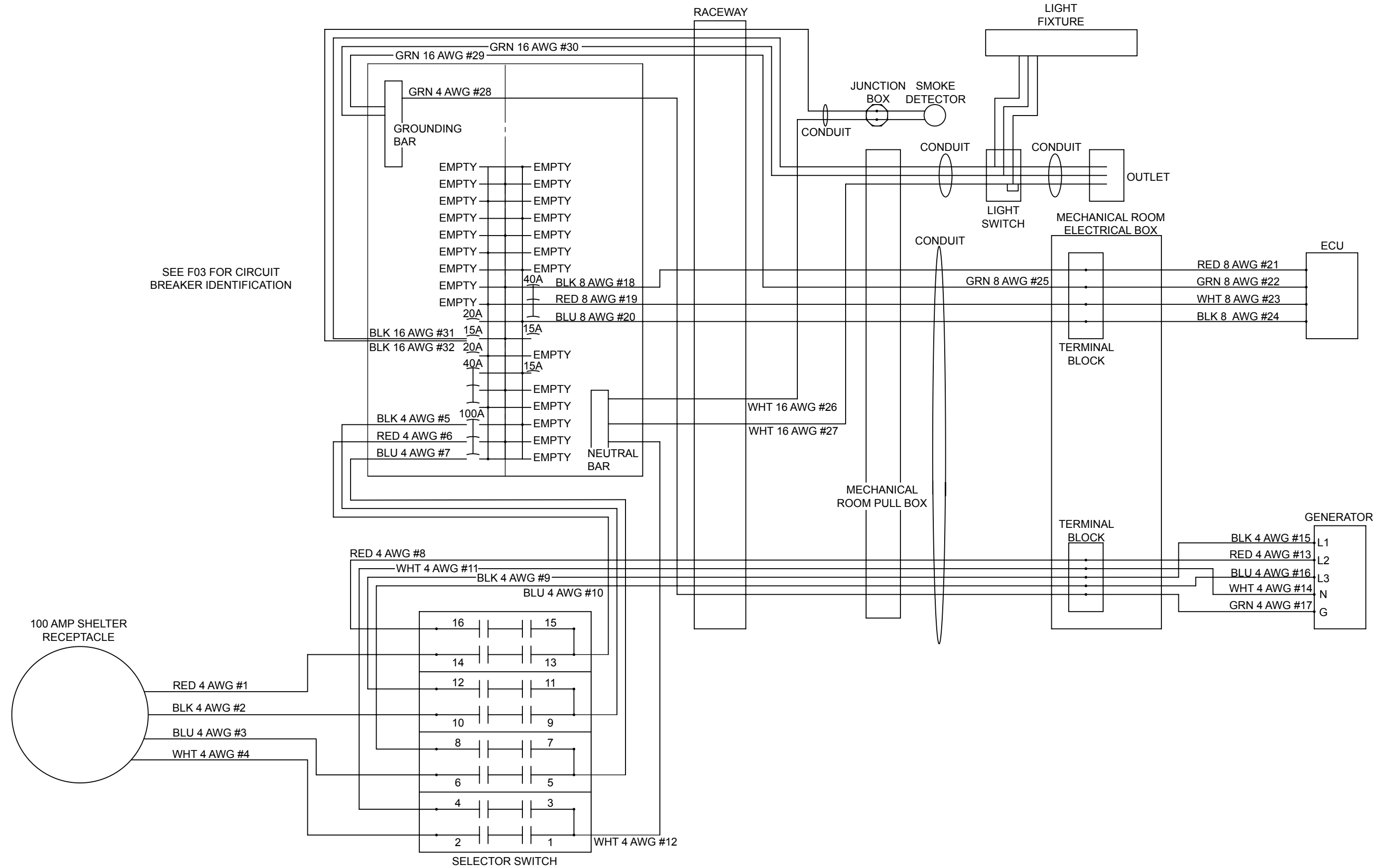
GERALD B. O'KEEFE
*Administrative Assistant to the
Secretary of the Army*

1413401

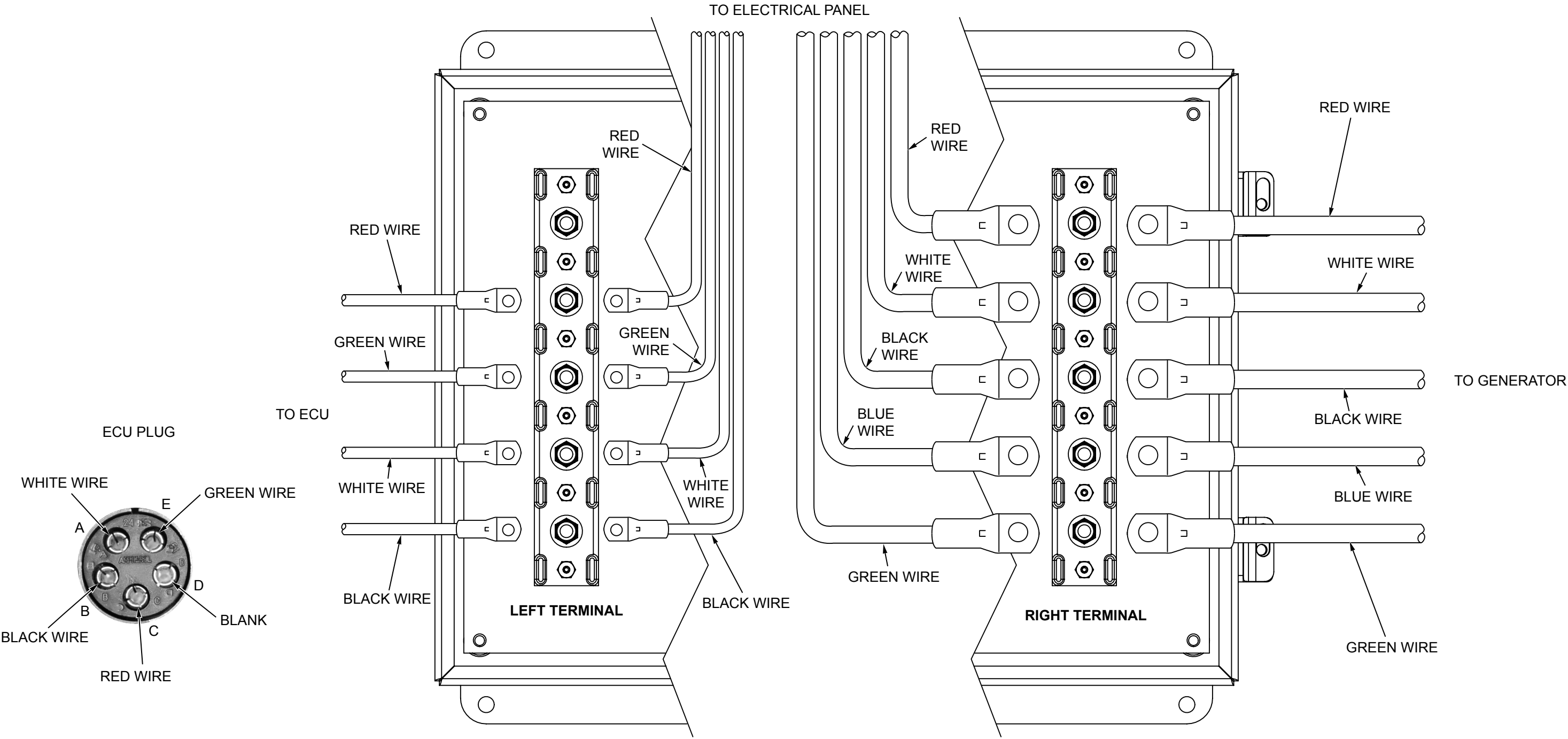
RAYMOND T. ODIERNO
*General, United States Army
Chief of Staff*

Distribution:

Initially published in electronic media only. When funds become available, this publication will be distributed in accordance with the initial distribution number (IDN) 258042 requirements for TM 9-4940-578-13&P.

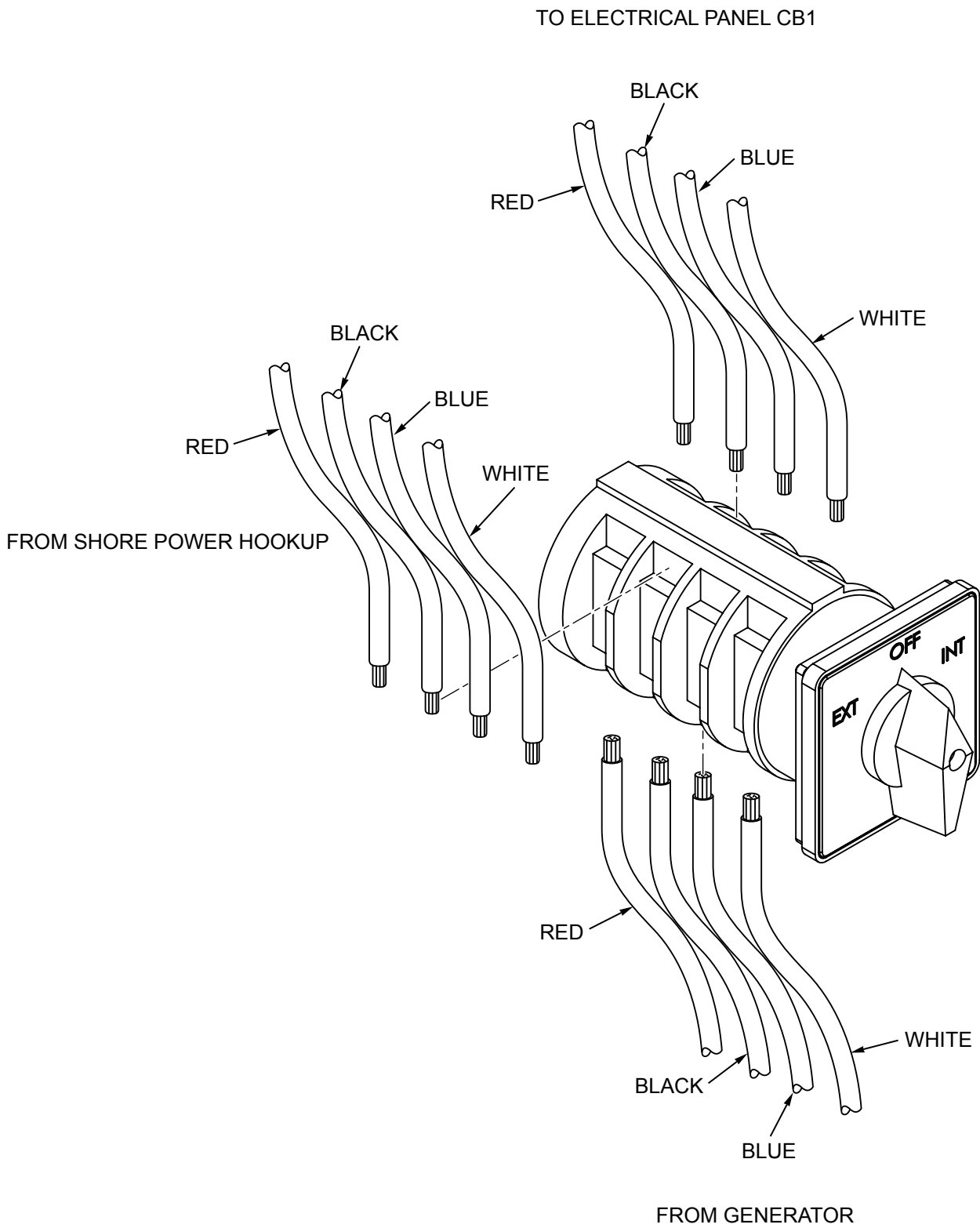


MECHANICAL ROOM ELECTRICAL BOX



SELECTOR SWITCH

ELECTRICAL PANEL



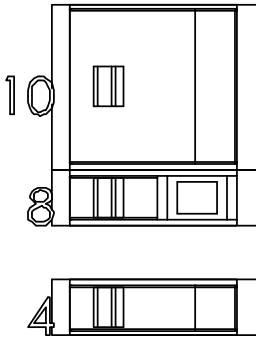
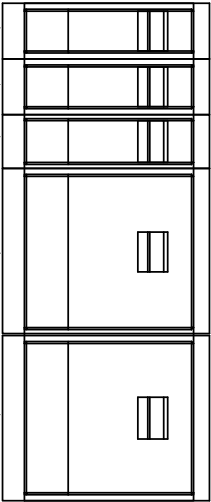
CB9 - WORK ROOM LIGHT FIXTURES
AND BLACKOUT LIGHT

CB7 - MECHANICAL ROOM
LIGHT, LIGHT SWITCH, AND OUTLET

CB5 - SMOKE ALARM

CB3 - HEATER/AC POWER SUPPLY

CB1 - MAIN



CB10 - ECU

CB8 - EXTRA

CB4 - WORK ROOM
120V OUTLETS

THE METRIC SYSTEM AND EQUIVALENTS

| | |
|--|--|
| <p>Linear Measure</p> <p>1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches 1 Kilometer = 1000 Meters = 0.621 Miles</p> <p>Weights</p> <p>1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces 1 Kilogram = 1000 Grams = 2.2 Pounds 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons</p> <p>Liquid Measure</p> <p>1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces</p> | <p>Square Measure</p> <p>1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet 1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles</p> <p>Cubic Measure</p> <p>1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet</p> <p>Temperature</p> <p>$9/5\text{ }^{\circ}\text{C} + 32 = ^{\circ}\text{F}$ $5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$ 212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius</p> |
|--|--|

APPROXIMATE CONVERSION FACTORS

| To Change | To | Multiply By |
|--------------------|----------------------|-------------|
| Inches | Centimeters | 2.540 |
| Feet | Meters | 0.305 |
| Yards | Meters | 0.914 |
| Miles | Kilometers | 1.609 |
| Sq Inches | Sq Centimeters | 6.451 |
| Sq Feet | Sq Meters | 0.093 |
| Sq Yards | Sq Meters | 0.836 |
| Sq Miles | Sq Kilometers | 2.590 |
| Acres | Sq Hectometers | 0.405 |
| Cubic Feet | Cubic Meters | 0.028 |
| Cubic Yards | Cubic Meters | 0.765 |
| Fluid Ounces | Milliliters | 29.573 |
| Pints | Liters | 0.473 |
| Quarts | Liters | 0.946 |
| Gallons | Liters | 3.785 |
| Ounces | Grams | 28.349 |
| Pounds | Kilograms | 0.454 |
| Short Tons | Metric Tons | 0.907 |
| Pound-Feet | Newton-Meters | 1.356 |
| Pounds per Sq Inch | Kilopascals | 6.895 |
| Miles per Gallon | Kilometers per Liter | 0.425 |
| Miles per Hour | Kilometers per Hour | 1.609 |

| To Change | To | Multiply By |
|----------------------|--------------------|-------------|
| Centimeters | Inches | 0.394 |
| Meters | Feet | 3.280 |
| Meters | Yards | 1.094 |
| Kilometers | Miles | 0.621 |
| Sq Centimeters | Sq Inches | 0.155 |
| Sq Meters | Sq Feet | 10.764 |
| Sq Meters | Sq Yards | 1.196 |
| Sq Kilometers | Sq Miles | 0.386 |
| Sq Hectometers | Acres | 2.471 |
| Cubic Meters | Cubic Feet | 35.315 |
| Cubic Meters | Cubic Yards | 1.308 |
| Milliliters | Fluid Ounces | 0.034 |
| Liters | Pints | 2.113 |
| Liters | Quarts | 1.057 |
| Liters | Gallons | 0.264 |
| Grams | Ounces | 0.035 |
| Kilograms | Pounds | 2.205 |
| Metric Tons | Short Tons | 1.102 |
| Newton-Meters | Pound-Feet | 0.738 |
| Kilopascals | Pounds per Sq Inch | 0.145 |
| Kilometers per Liter | Miles per Gallon | 2.354 |
| Kilometers per Hour | Miles per Hour | 0.621 |

