

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

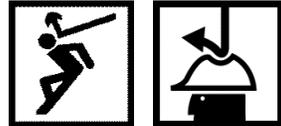
GENERAL SAFETY WARNING DESCRIPTIONS - Continued

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



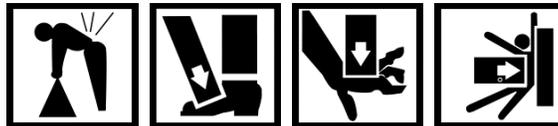
Ensure inner tubes of support struts are supported when disengaging from stowage brackets. Wear head protection at all times to prevent head injury. Inner tubes could extend out unexpectedly and injure personnel. Failure to follow this warning may cause injury.

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

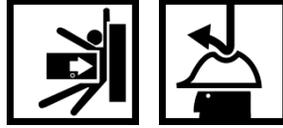


The drill press weighs 160 lb (73 kg). Do not attempt to lift drill press without the aid of another person or suitable lifting device. All personnel must stand clear during lifting operation. The drill press could swing or shift during removal. Failure to follow this warning may cause injury or death.

WARNING SUMMARY - CONTINUED

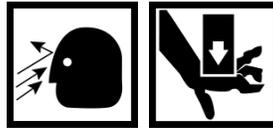
GENERAL SAFETY WARNING DESCRIPTIONS - Continued

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

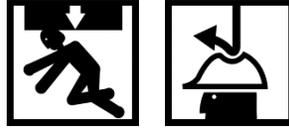


In extreme cold, wear protective cold weather clothing to prevent cold stress injury. Ensure necessary provisions are taken for keeping hands warm for fine work. Failure to follow this warning may cause injury or death.

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



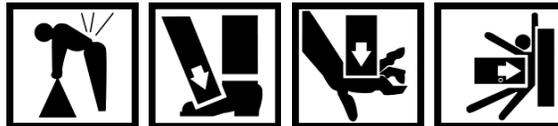
The workbench weighs 275 lb (125 kg) and can tip when not supported on all four casters. Ensure workbench is supported on side where caster is being replaced. Workbench could tip and crush or pinch personnel. Failure to follow this warning may result in injury or death.

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

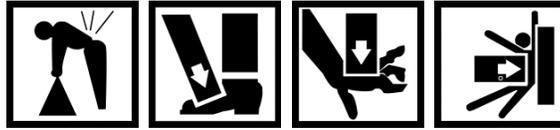


The generator slide weighs 120 lb (54 kg). Do not attempt to lift generator without the aid of two other people or suitable lifting device. All personnel must stand clear during lifting operation. The generator slide could swing or shift during removal. Failure to follow this warning may cause injury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

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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

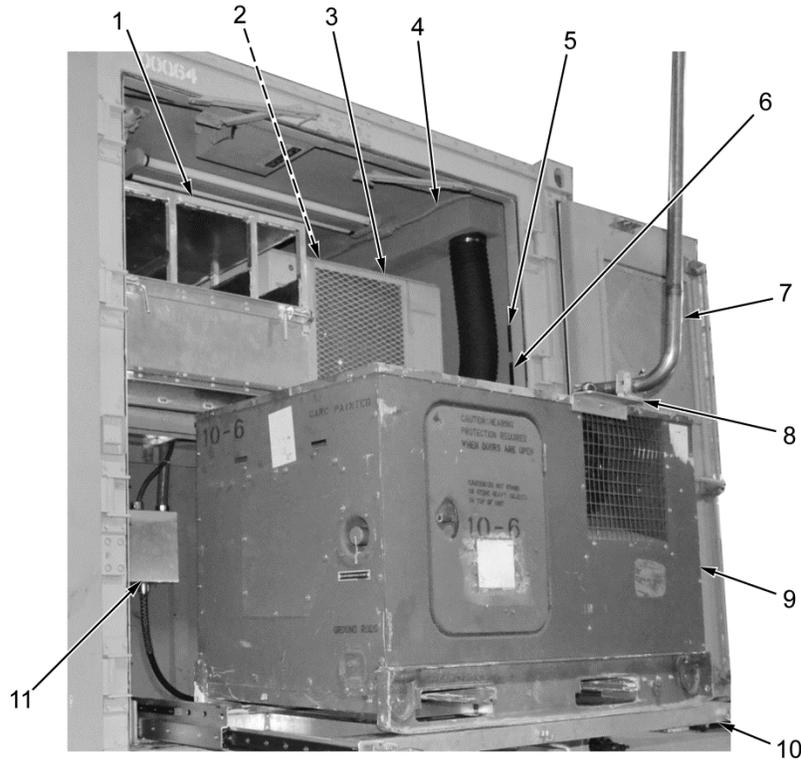
EQUIPMENT DESCRIPTION

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



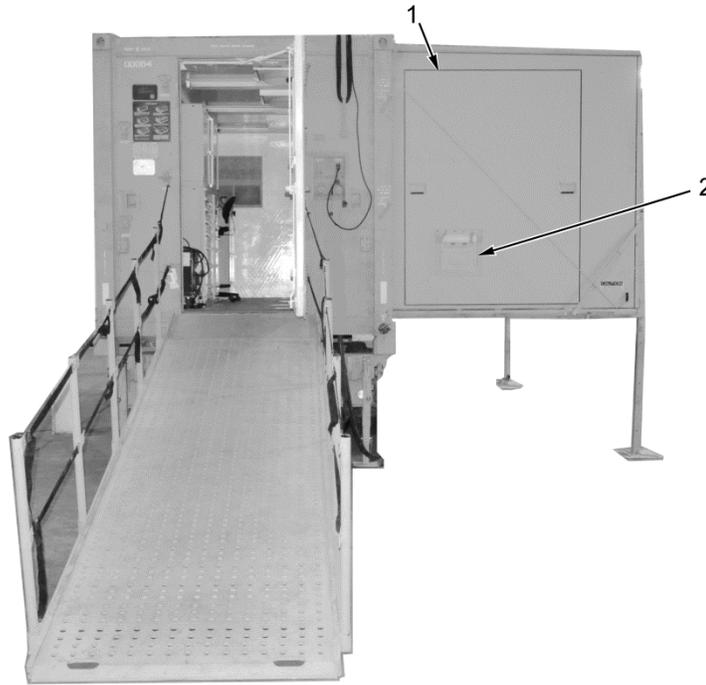
ARSS0080

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



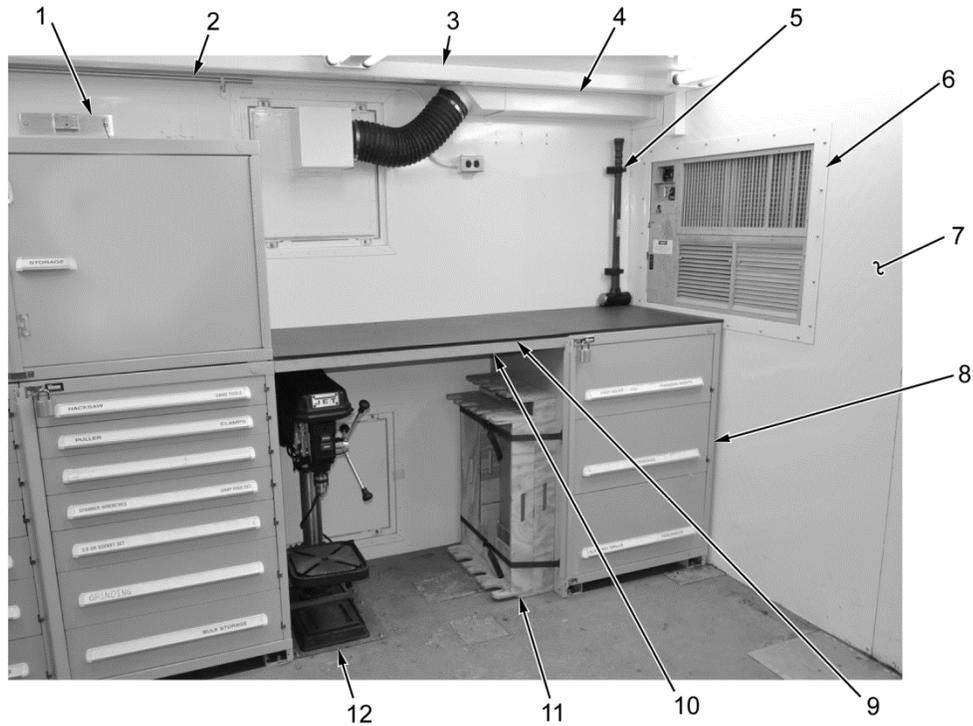
ARSS0081

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).

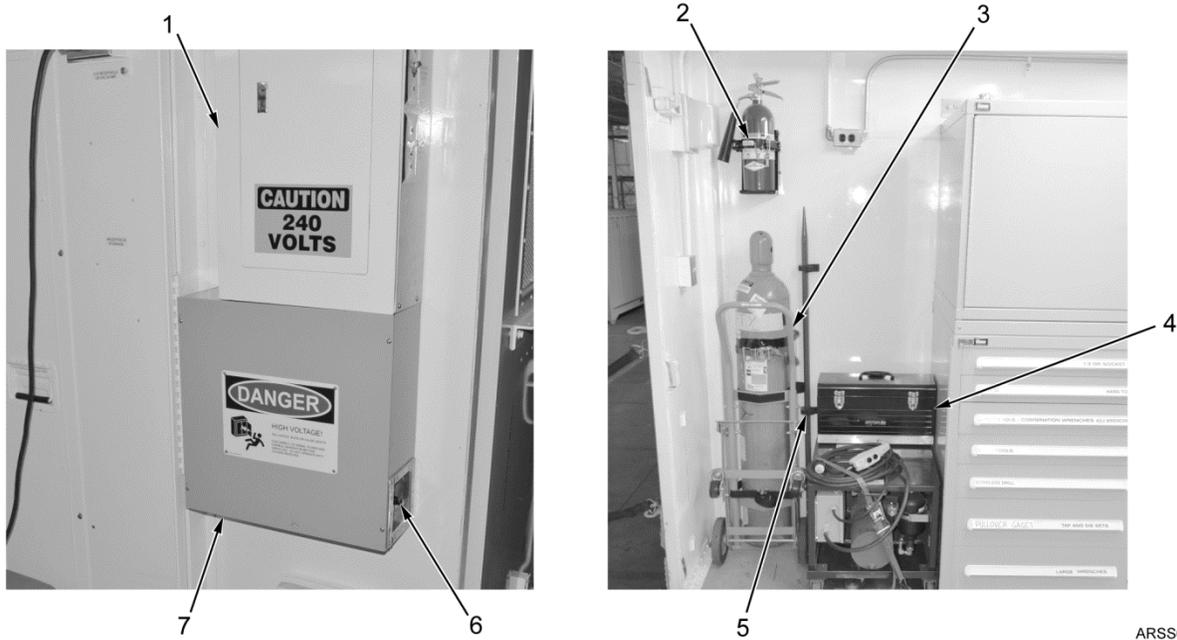
Item	Component	Description
1	Ammo Cabinet Bracket	Mounted on shelter sidewall and when attached to the Ammo Cabinet inner/outer lateral bracket is used to assist in securing Ammo Cabinet during transportation mode.
2	Electrical Metallic Tubing (EMT) Conduit	A protective cover, tube or piping system used 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

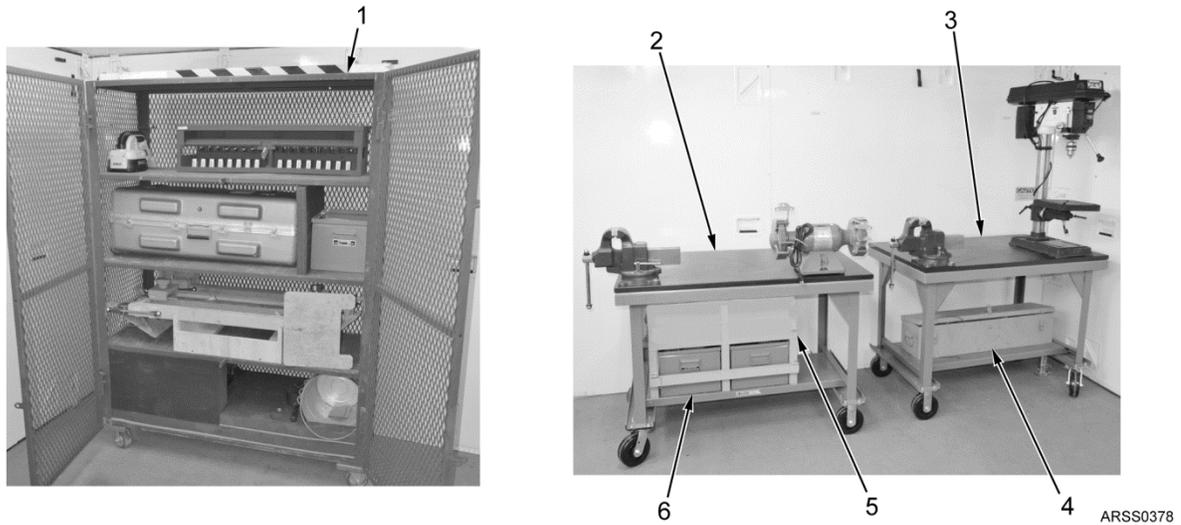


Figure 7. ARSS Ammo Cabinets and Workbenches.

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

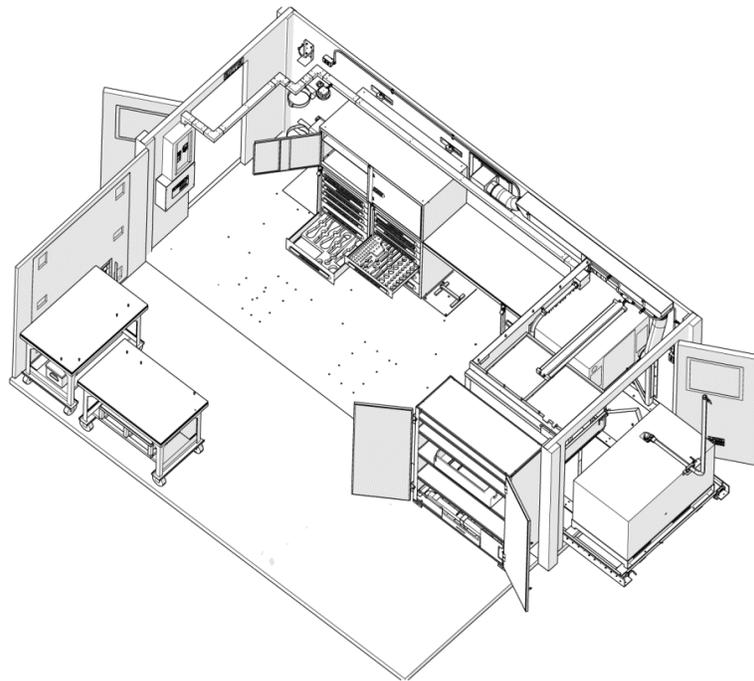
For Improved Environmental Control Unit (IECU) Equipment Data refer to TM 9-4120-434-13&P

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



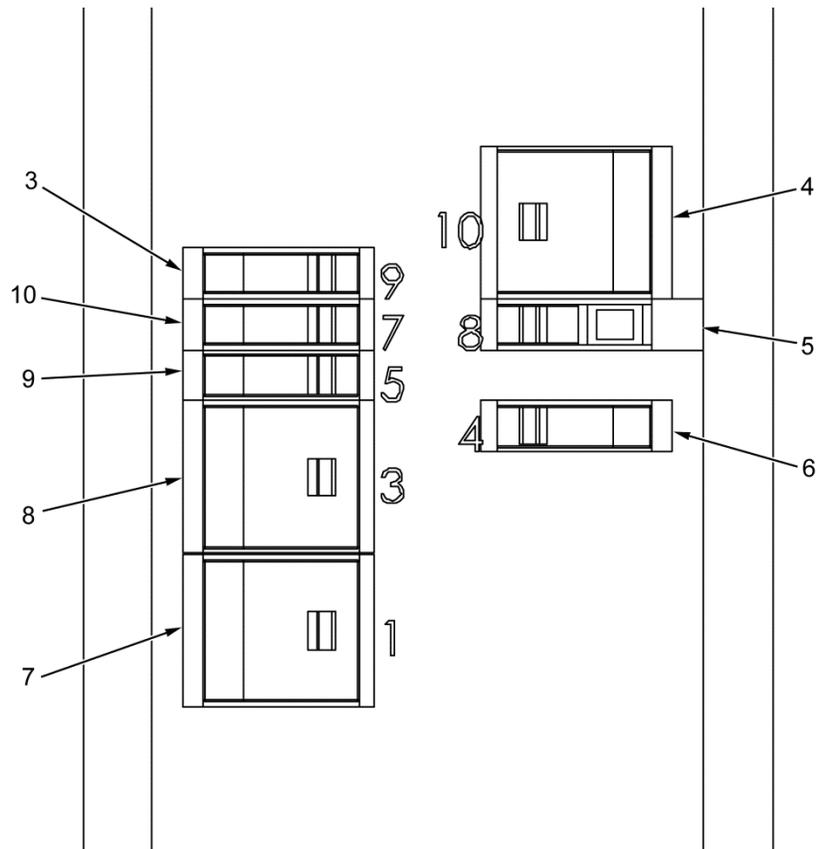
ARSS0379

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

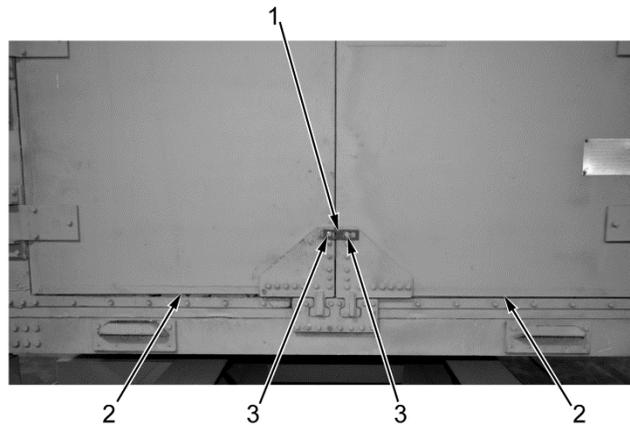
Small Arms/Artillery Repairer - 91F
Non-Specific MOS (3)

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.

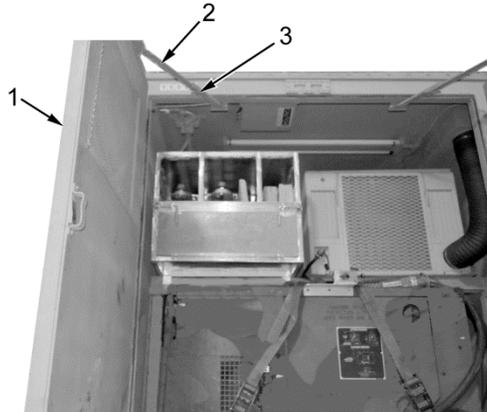


ARSS0321

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

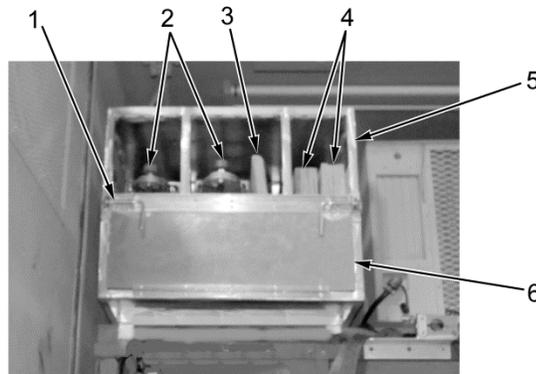
Figure 2. Mechanical Room Doors.

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).

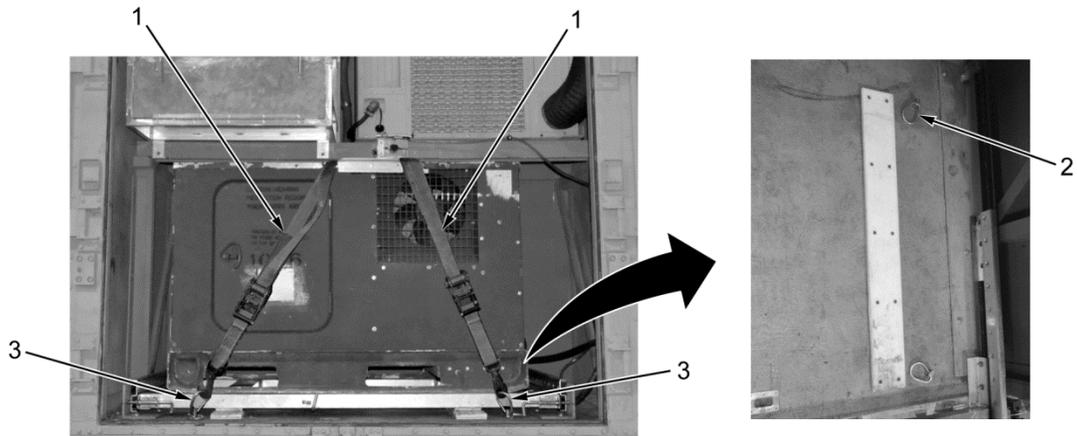


ARSS0390

Figure 3. Storage Rack Contents.

EXPAND ARSS SHELTER - Continued

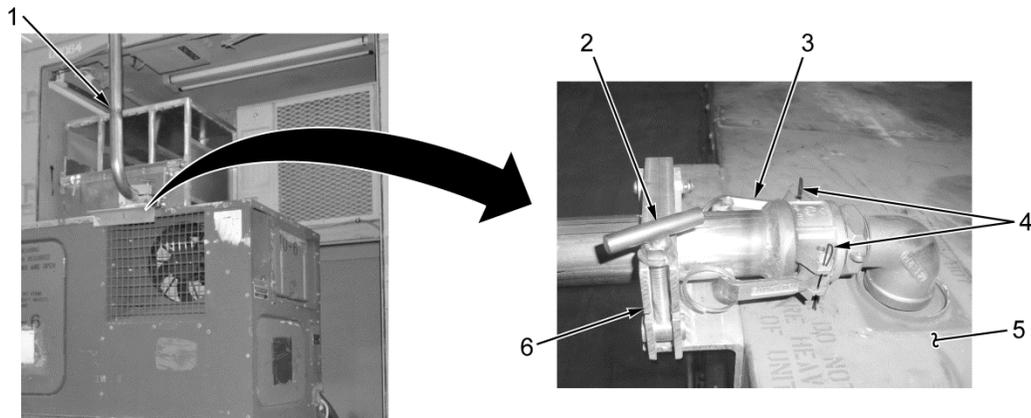
5. Remove two ratchet straps (Figure 4, Item 1) from front two d-rings (Figure 4, Item 3).
6. Extend generator (WP 0010) and remove ratchet straps (Figure 4, Item 1) from rear d-rings (Figure 4, Item 2).
7. Remove d-rings (Figure 4, Items 2 and 3) from shelter floor if necessary.



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.

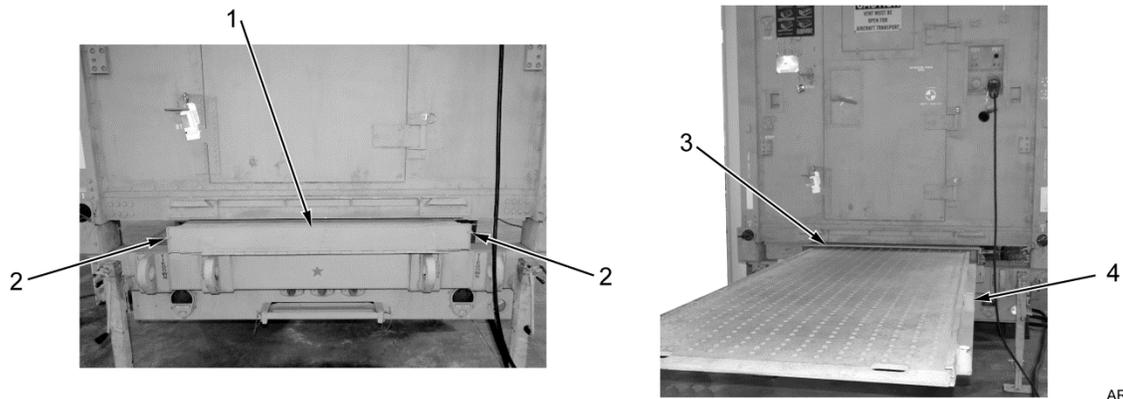
EXPAND ARSS SHELTER - Continued

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).

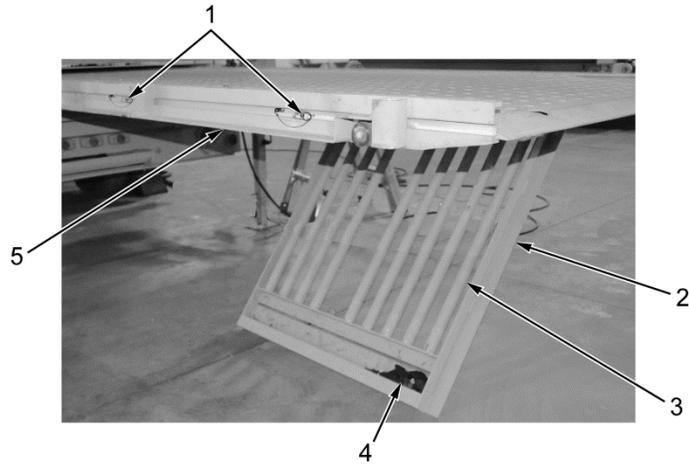


ARSS0331

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).

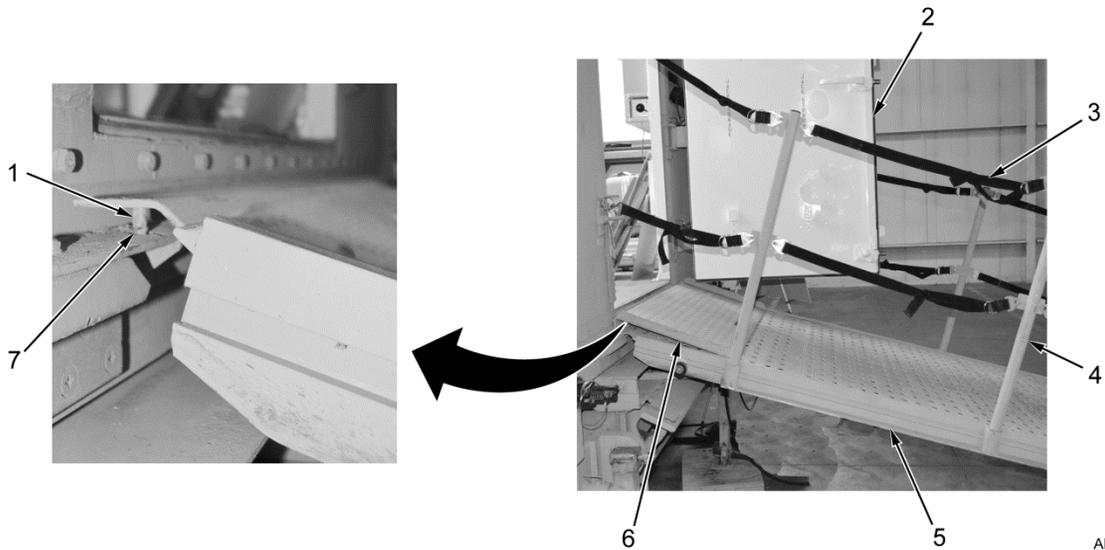
EXPAND ARSS SHELTER - Continued



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.



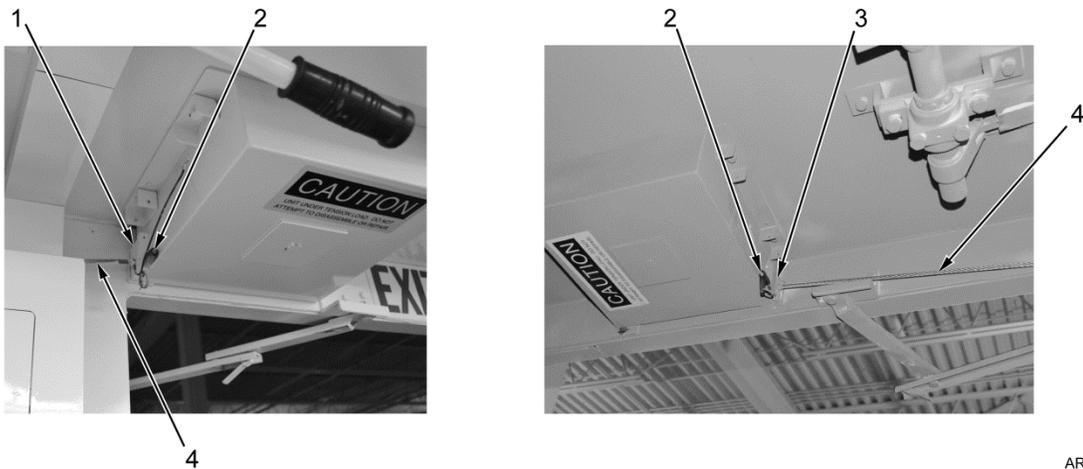
ARSS0335

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).



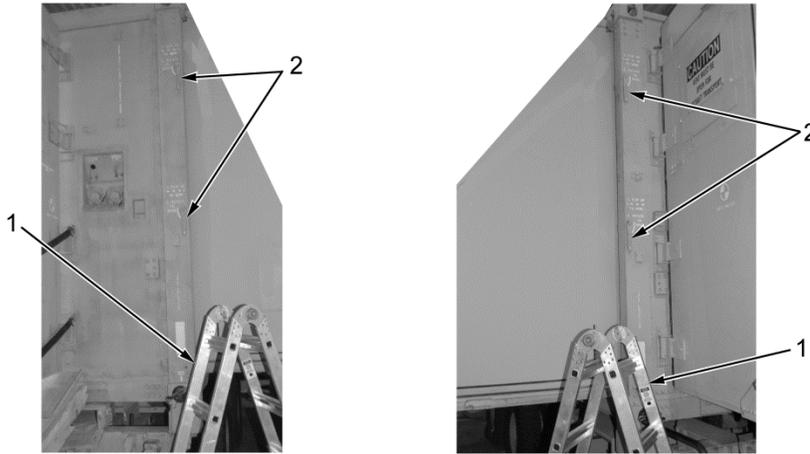
ARSS0337

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).

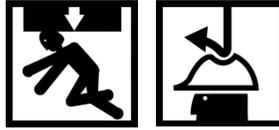


ARSS0340

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).

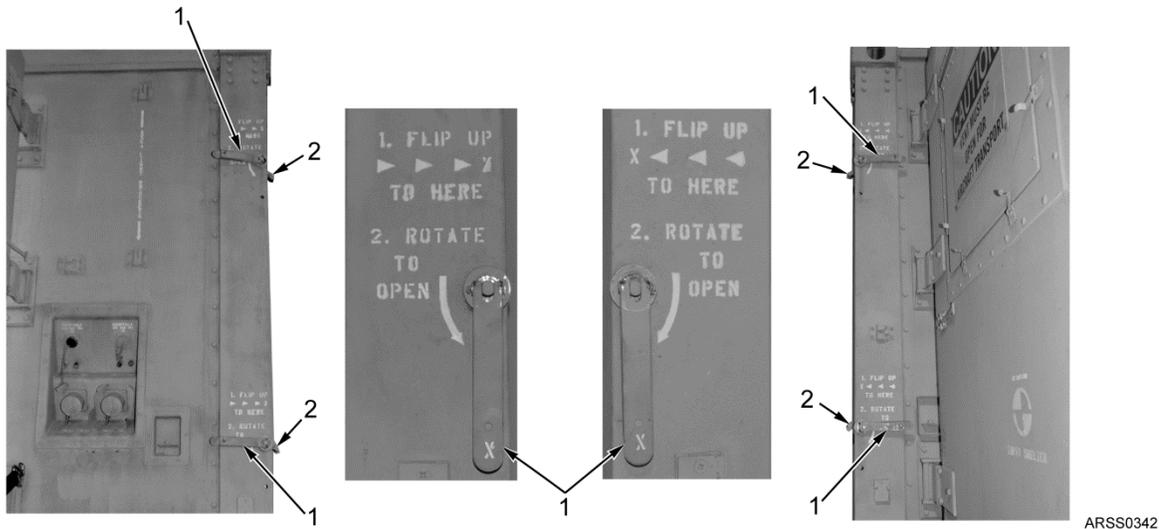


Figure 11. Cam Lock Handle Release.

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).



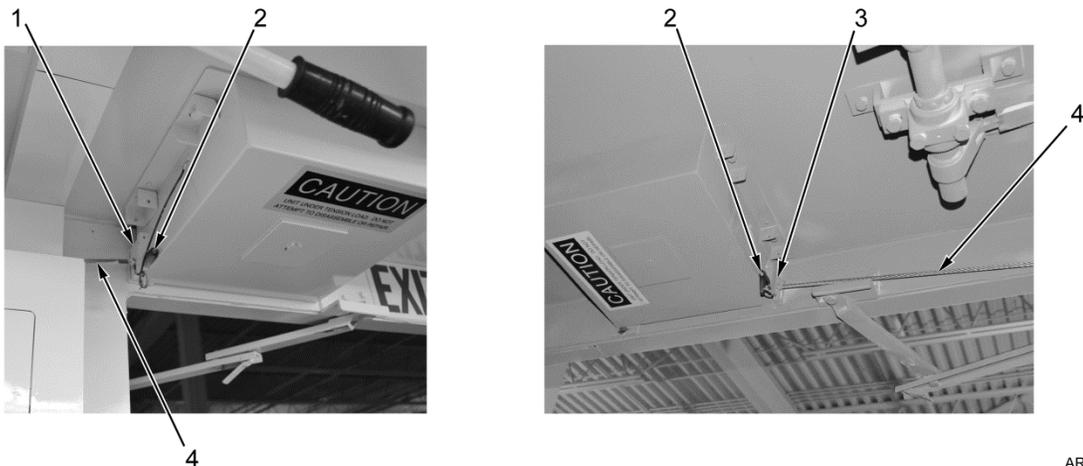
ARSS0344

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).

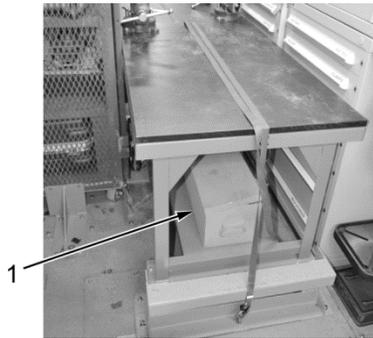


ARSS0346

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).



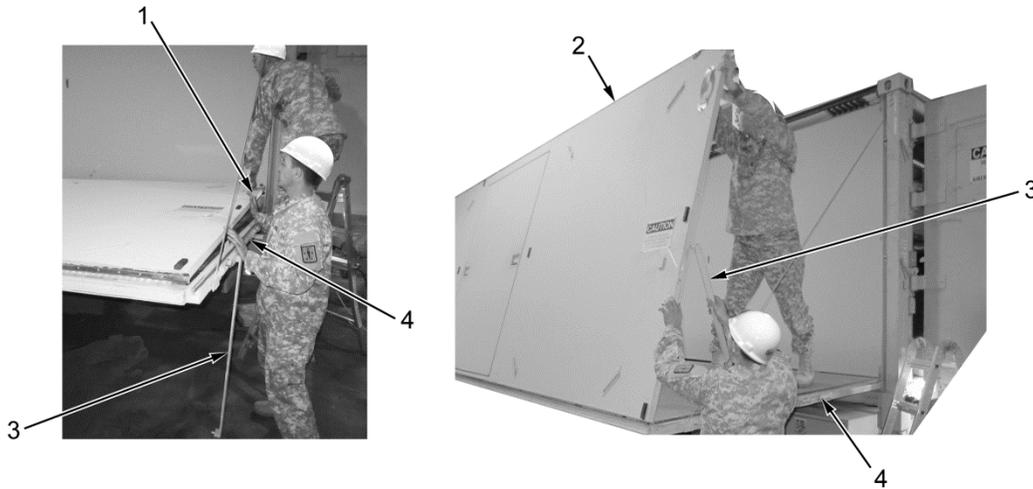
ARSS0397

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).

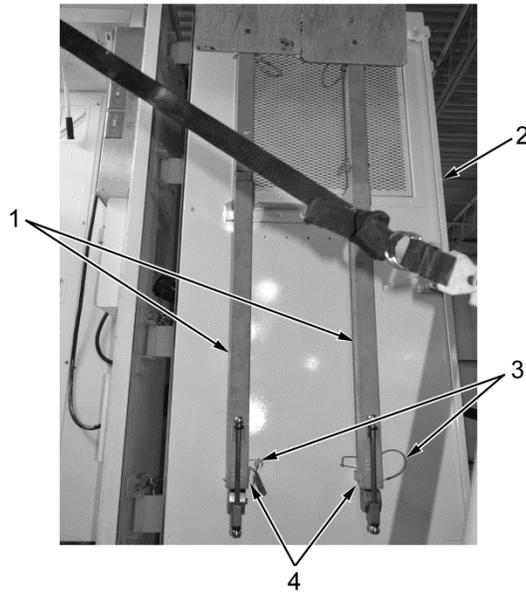


ARSS0398

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**

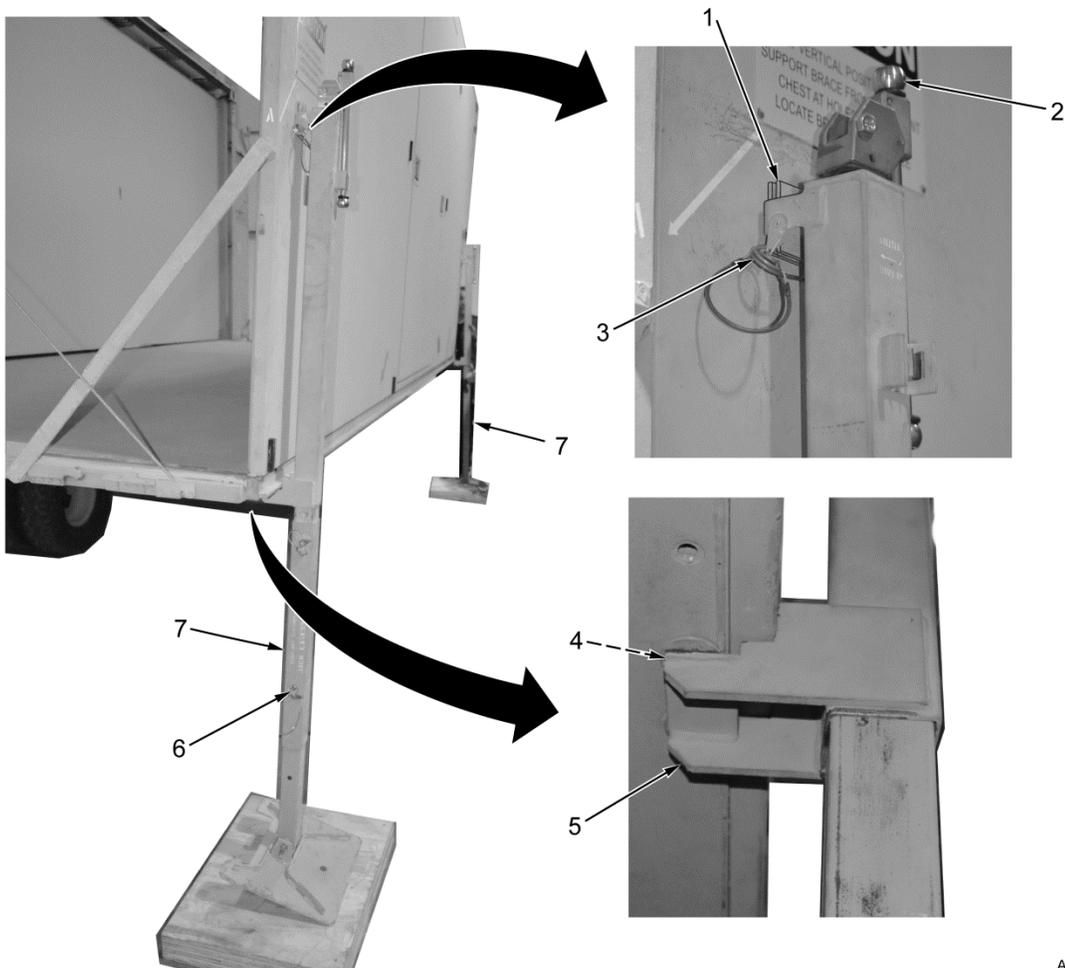
If ground is soft, place cribbing underneath jack stands on each corner of shelter.
Failure to follow this caution may cause damage to equipment.

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

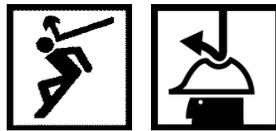
34. Push solar bar handle (Figure 18, Item 1) counterclockwise to release tension on shelter ceiling/roof.



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).

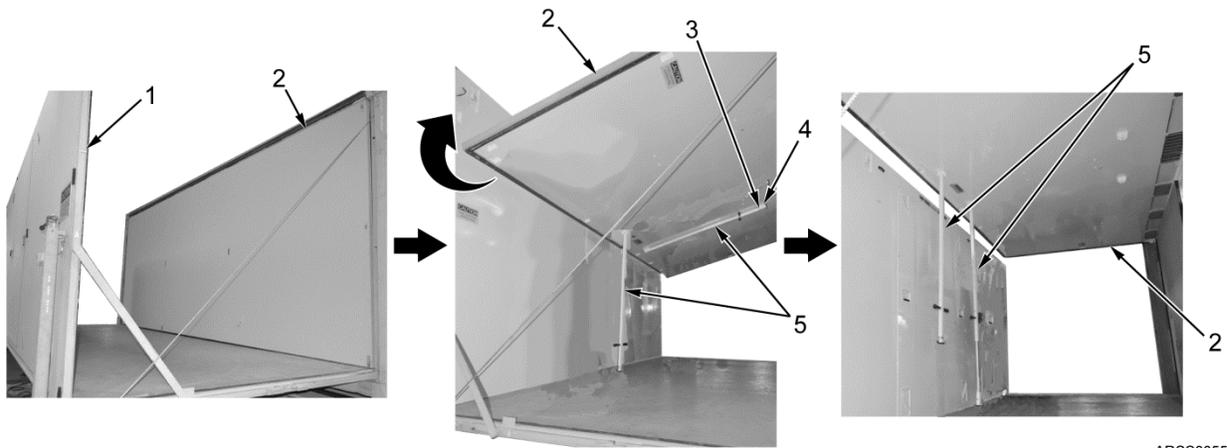
CAUTION

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.



ARSS0355

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.

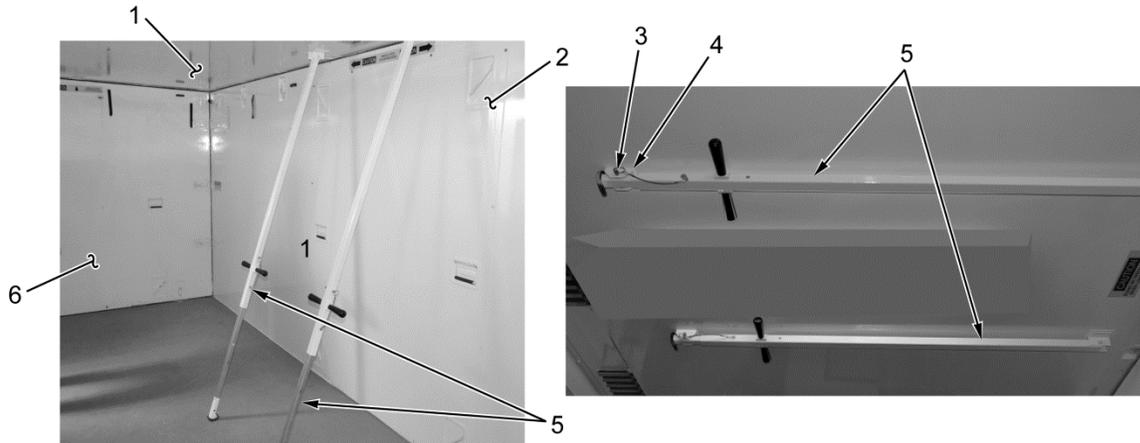


ARSS0359

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).



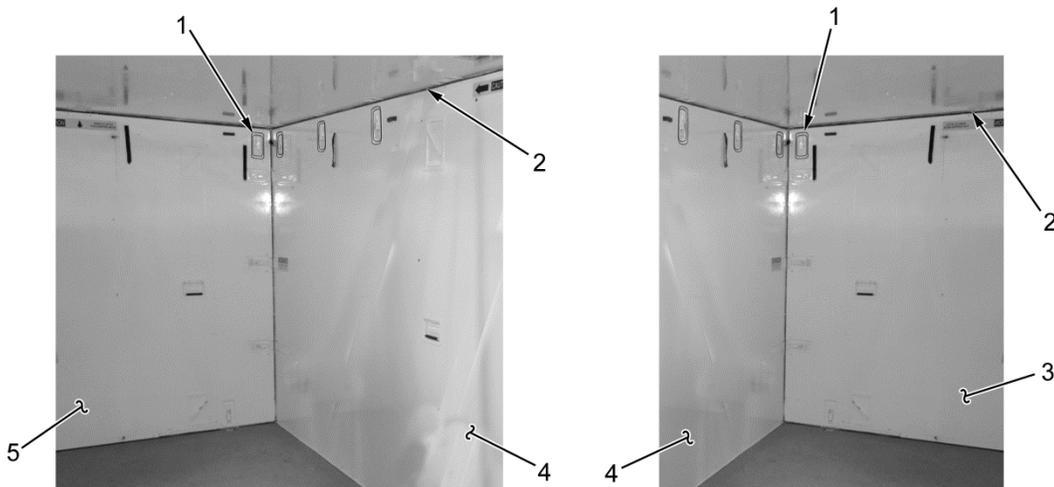
ARSS0361

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).



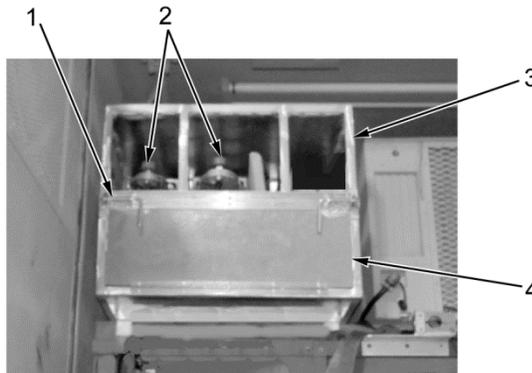
ARSS0364

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

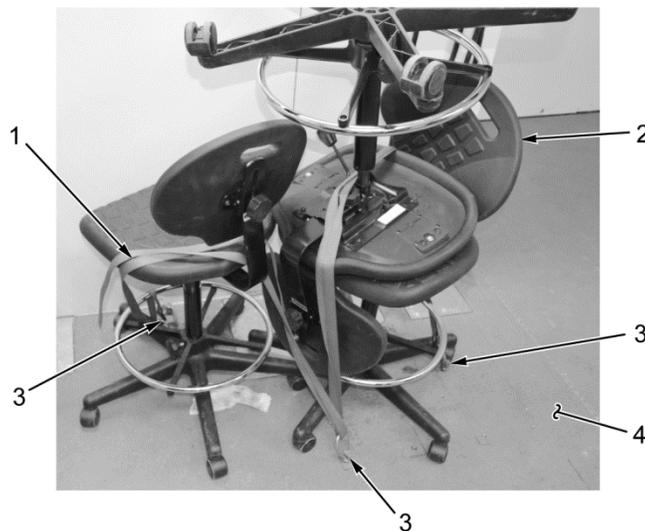
Equipment Condition

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).

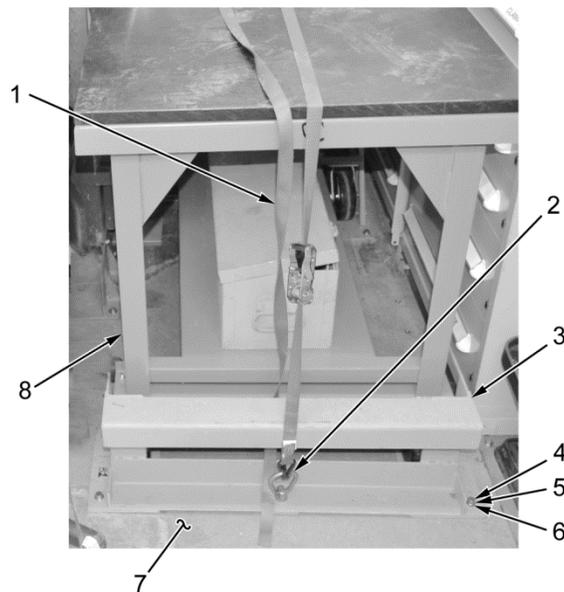
WARNING

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.

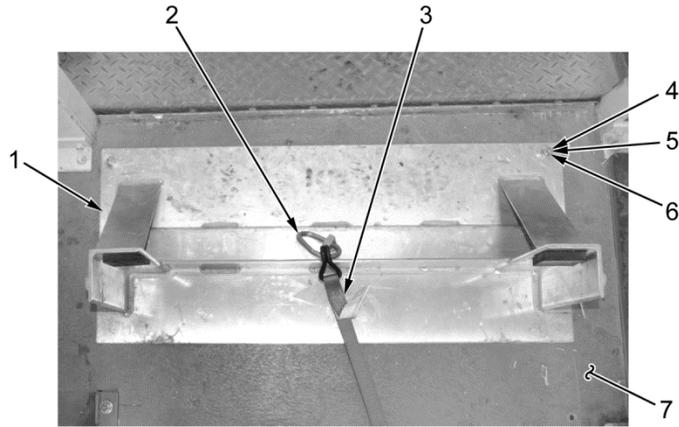


ARSS0414

Figure 2. Workbench A and Bracket B9 Removal.

SETUP - Continued

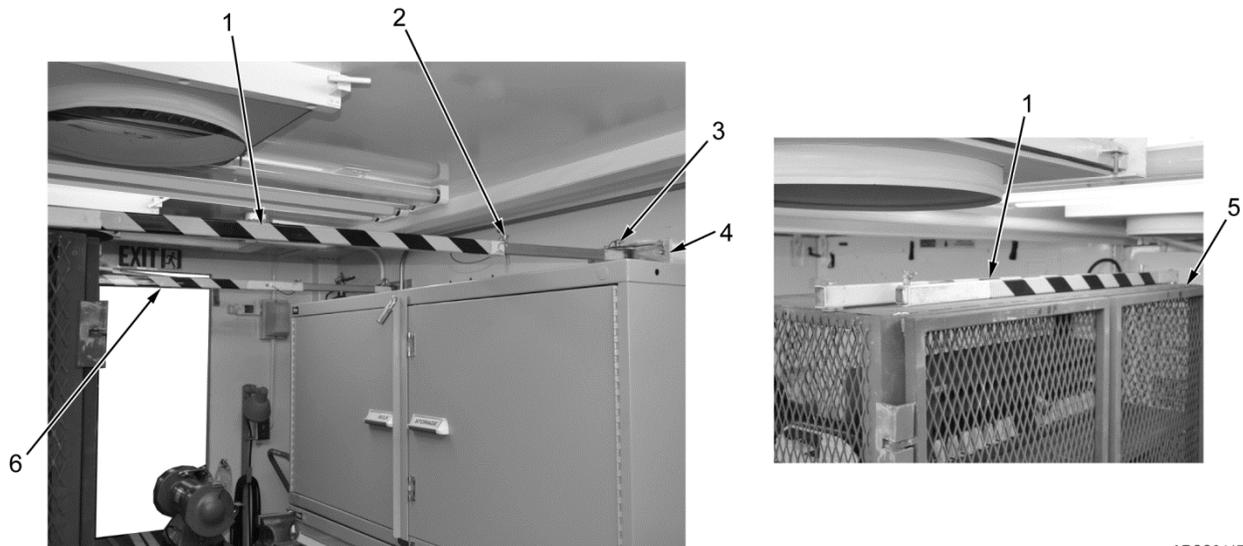
9. Remove ratchet strap (Figure 4, Item 3) from d-ring (Figure 4, Item 2).
10. Remove four bolts (Figure 3, Item 4), lockwashers (Figure 3, Item 5), flat washers (Figure 3, Item 6), d-ring (Figure 3, Item 2), and bracket B7 (Figure 3, Item 1) from floor (Figure 3, Item 7). Discard lockwashers.



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).

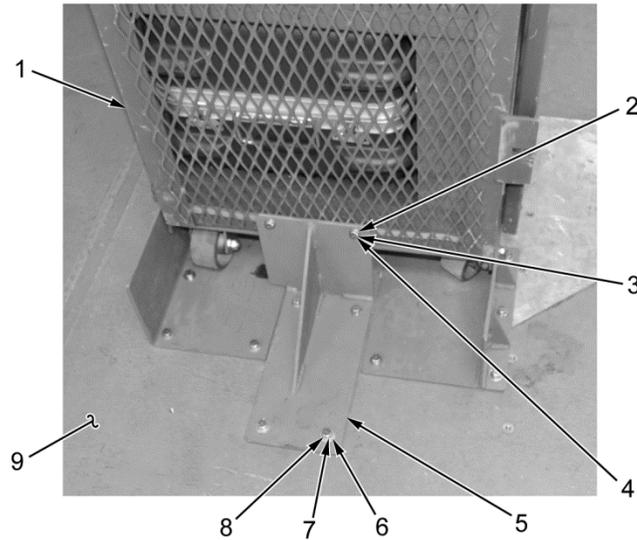


ARSS0417

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

SETUP - Continued

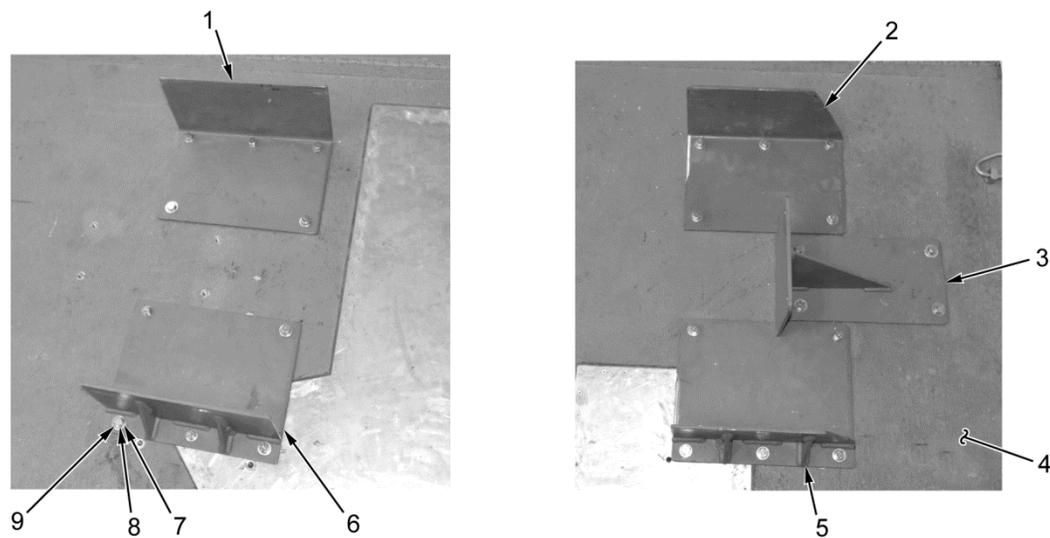
15. Remove eight bolts (Figure 6, Item 2), lockwashers (Figure 6, Item 3), flat washers (Figure 6, Item 4) from sides of ammo cabinet (Figure 6, Item 1). Discard lockwashers.
16. Remove four bolts (Figure 6, Item 8), lockwashers (Figure 6, Item 7), flat washers (Figure 6, Item 6), and bracket B6 (Figure 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.

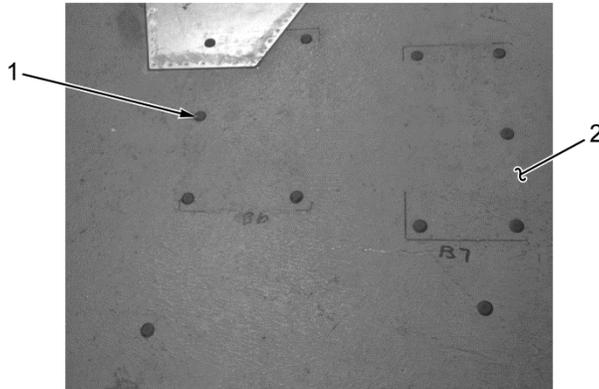


ARSS0419

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

SETUP - Continued

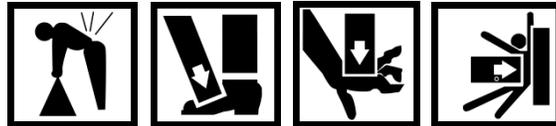
19. Install 46 insert plugs (Figure 8, Item 1) in floor (Figure 8, Item 2) in bracket B1 through B9 and d-ring mounting holes.



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

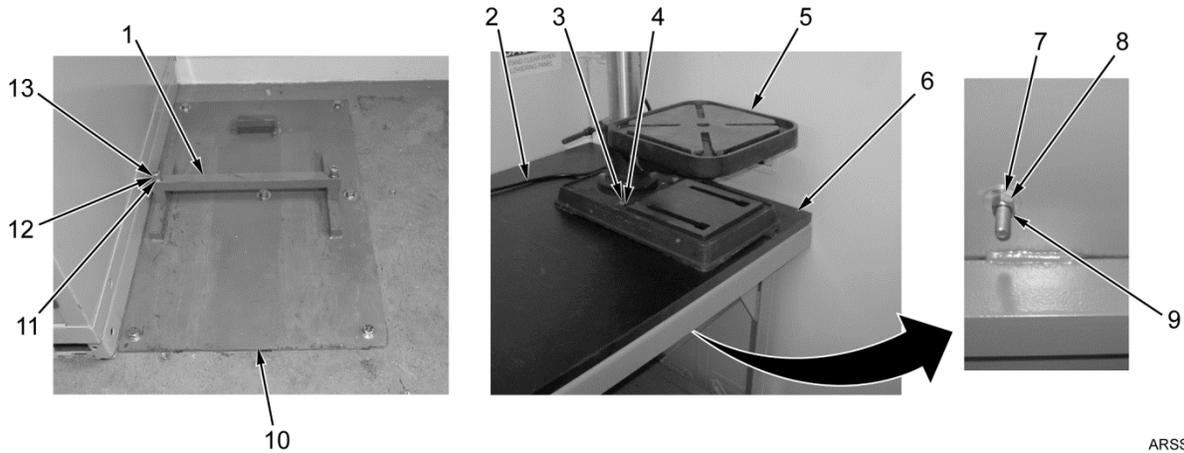


Figure 9. Drill Press Removal/Installation.

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

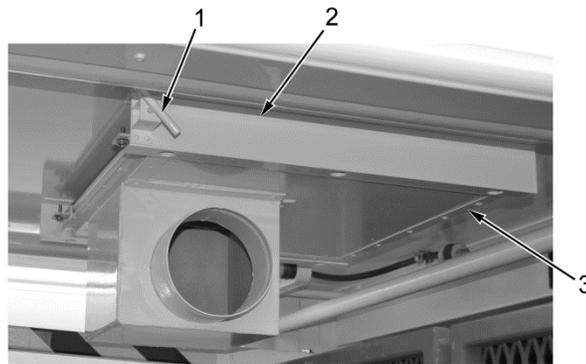


Figure 10. Modified Closeout Panel Removal.

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

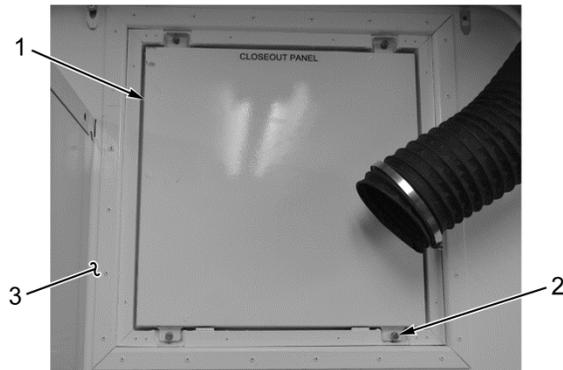
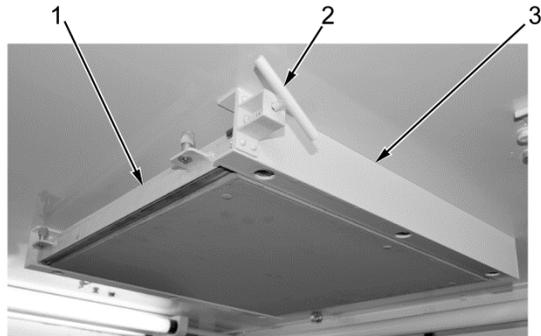


Figure 11. Closeout Panel Removal.

SETUP - Continued

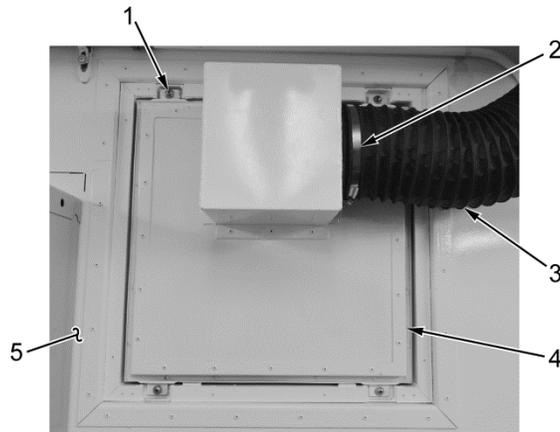
25. Pull retaining pin (Figure 12, Item 2) and secure closeout panel (Figure 12, Item 1) in panel mount (Figure 12, Item 3).



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).



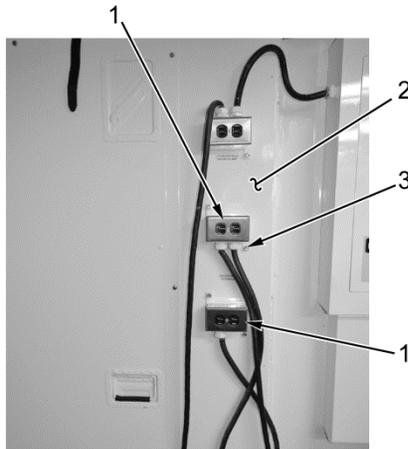
ARSS0287

Figure 13. Modified Closeout Panel Installation.

SETUP - Continued**NOTE**

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

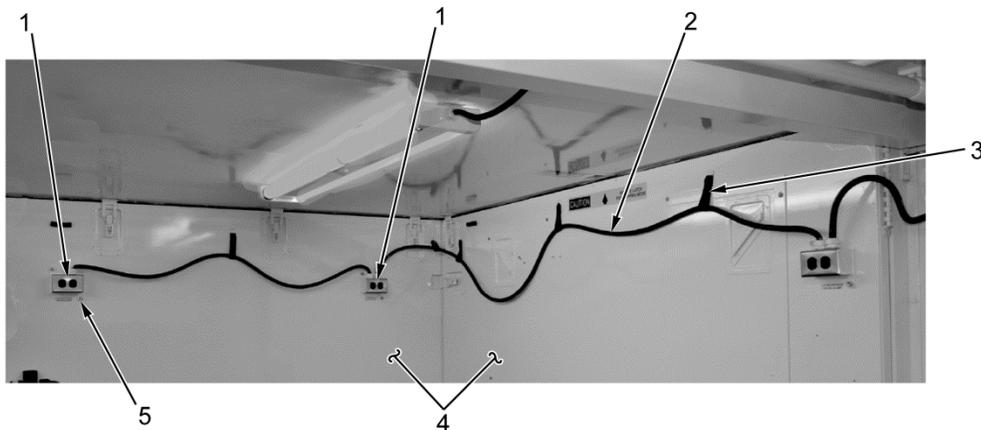
28. Loosen four thumbscrews (Figure 14, Item 3) and remove two 120V receptacles (Figure 14, Item 1) from shelter wall (Figure 14, Item 2).



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.

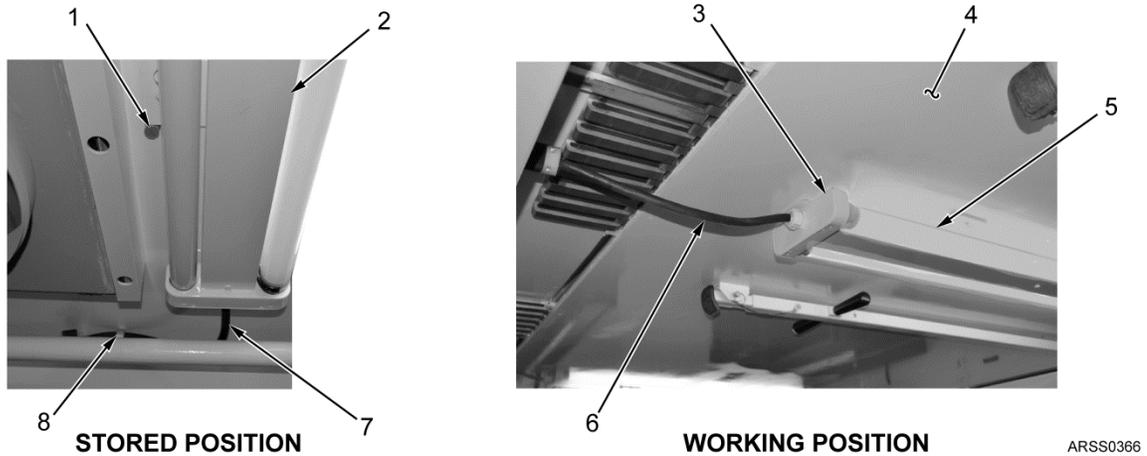


Figure 16. Light Assembly Installation.

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).

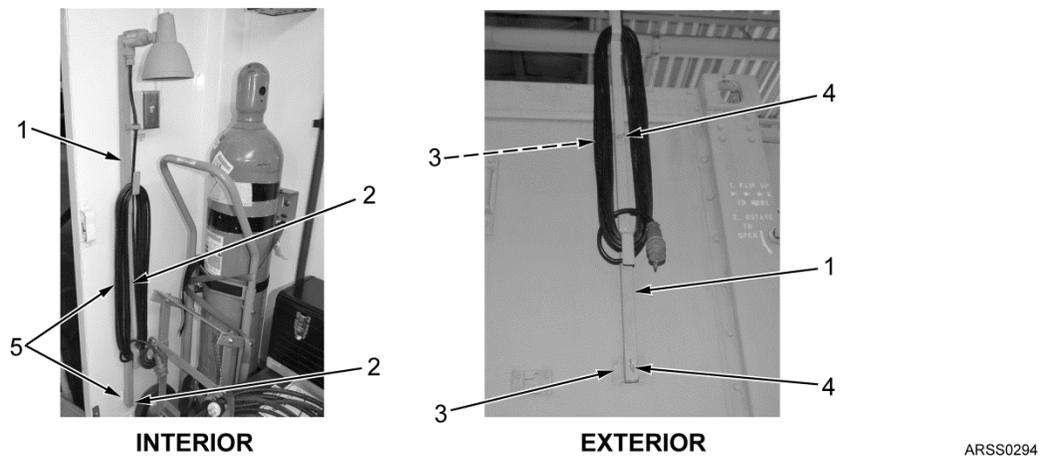
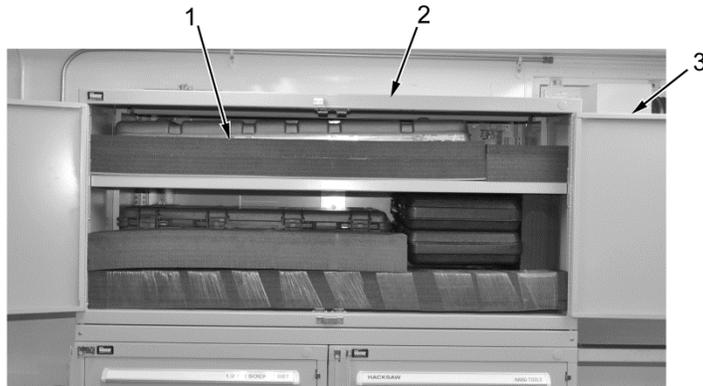


Figure 17. Exterior Door Lamp Installation.

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.

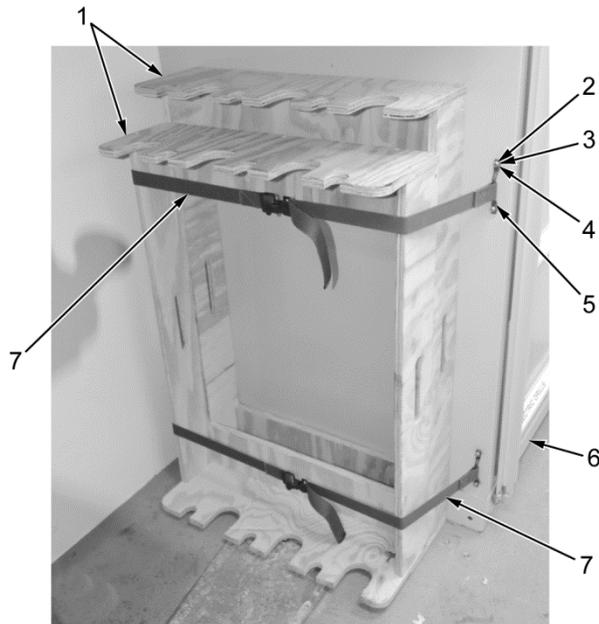
SETUP - Continued

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

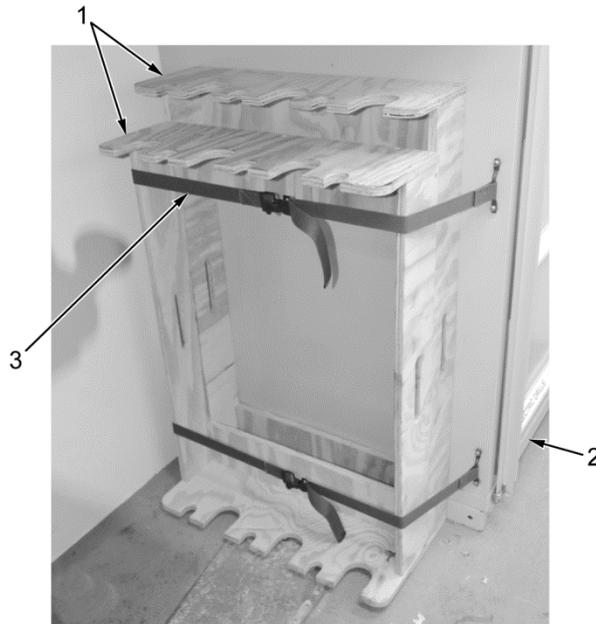
ARSS setup for operation (WP 0006)

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.

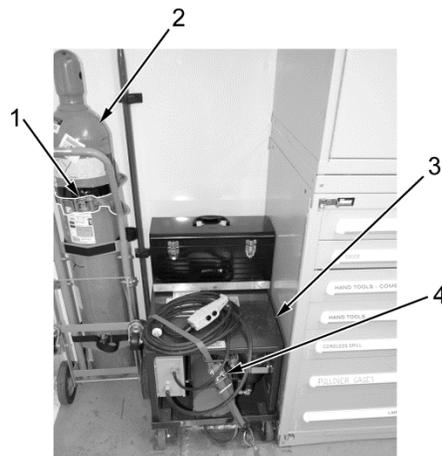
4. Return all tools and equipment to their proper locations in tool cabinets (Figure 2, Item 2) and drawers (Figure 2, Item 4).
5. Brace tool cases in tool cabinet D (Figure 2, Item 2) with five pieces of packing foam (Figure 2, Item 1).
6. Close two tool cabinet doors (Figure 2, Item 3) on tool cabinet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

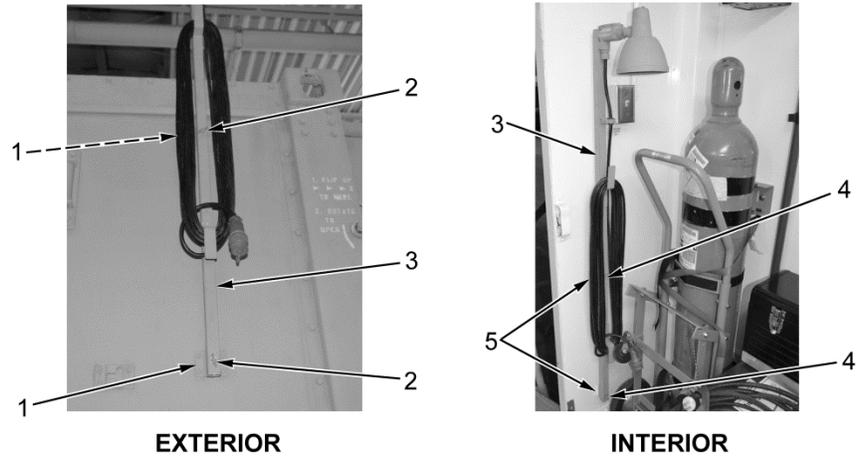


ARSS0296

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).



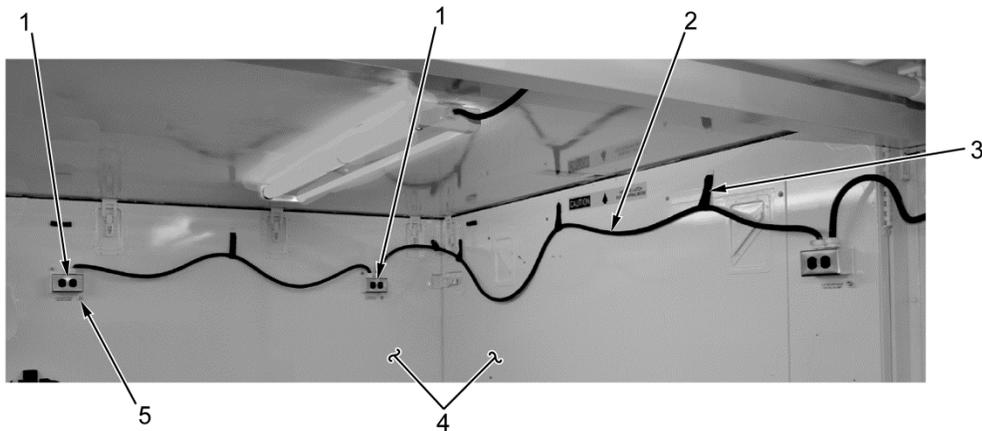
ARSS0401

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).

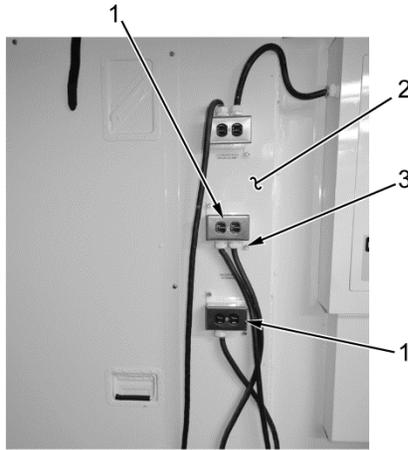


ARSS0292

Figure 5. 120V Receptacle Removal.

SECURE - Continued

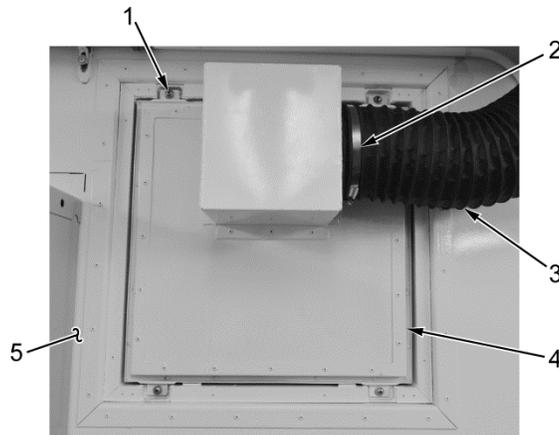
13. Install two 120V receptacles (Figure 6, Item 1) on shelter wall (Figure 6, Item 2) and tighten four thumbscrews (Figure 6, Item 3).



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.

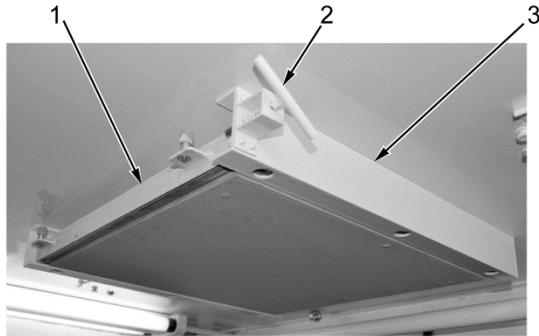


ARSS0288

Figure 7. Modified Closeout Panel Removal.

SECURE - Continued

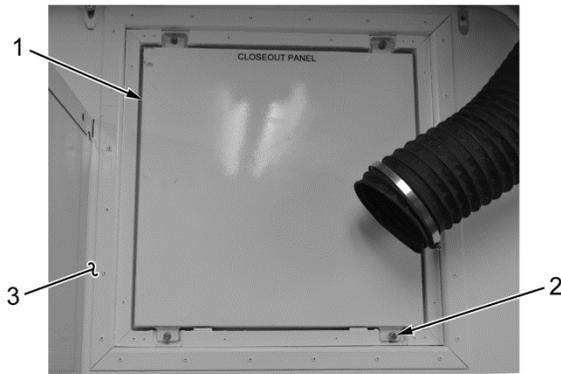
16. Pull retaining pin (Figure 8, Item 2) and remove closeout panel (Figure 8, Item 1) from panel mount (Figure 8, Item 3).



ARSS0286

Figure 8. Closeout Panel.

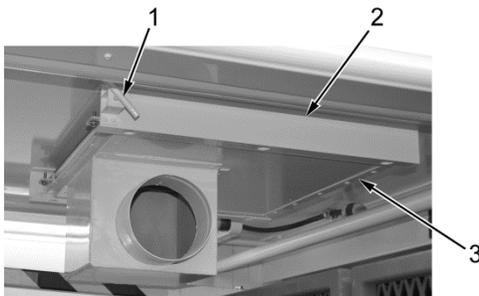
17. Install closeout panel (Figure 9, Item 1) in shelter wall (Figure 9, Item 3) and tighten four screws (Figure 9, Item 2).



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).

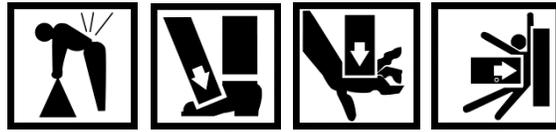


ARSS0367

Figure 10. Modified Closeout Panel Installation.

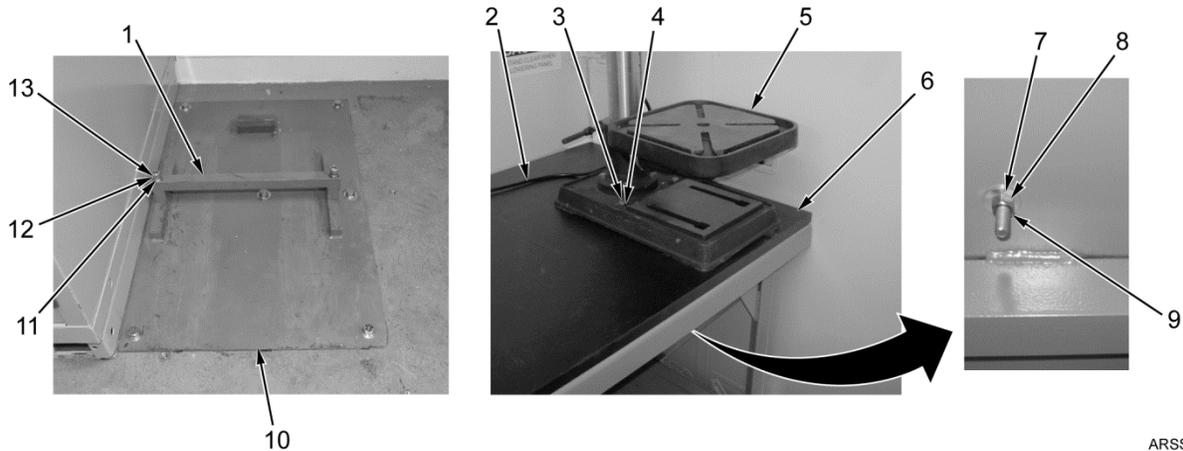
SECURE - Continued

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).

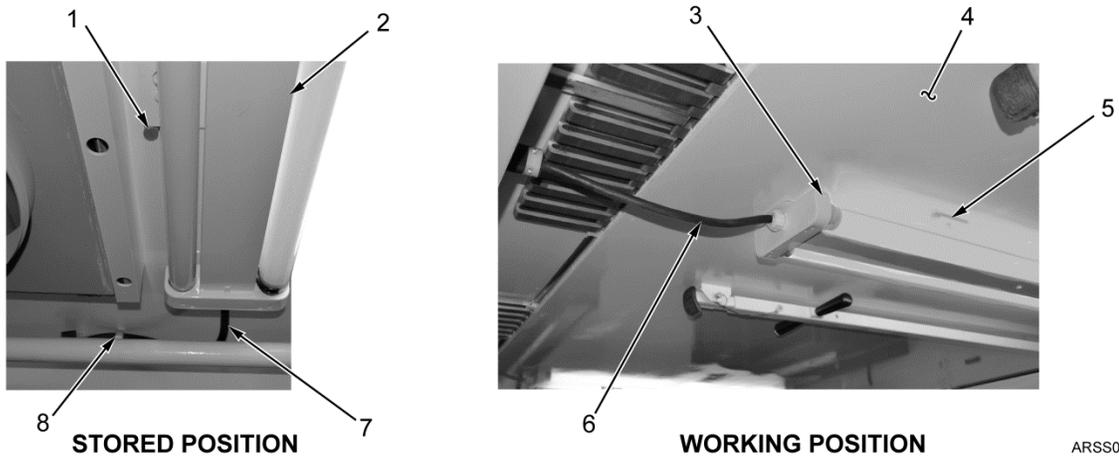


ARSS0402

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).



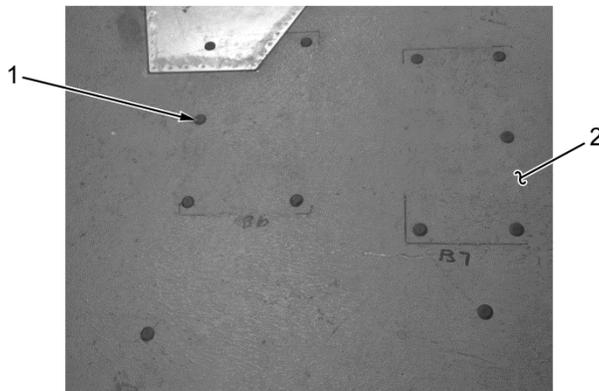
ARSS0365

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).

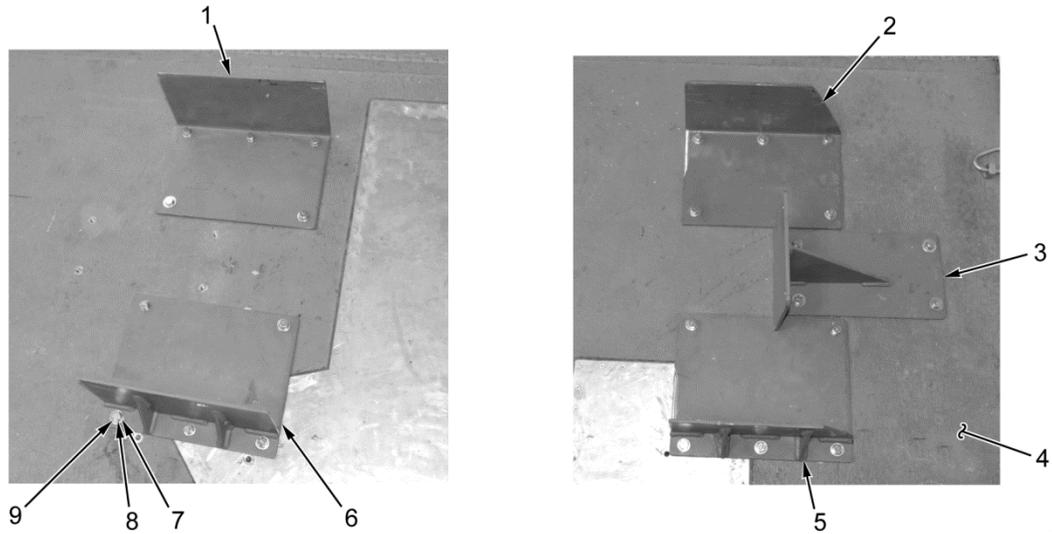


ARSS0392

Figure 13. Insert Plug Removal.

SECURE - Continued

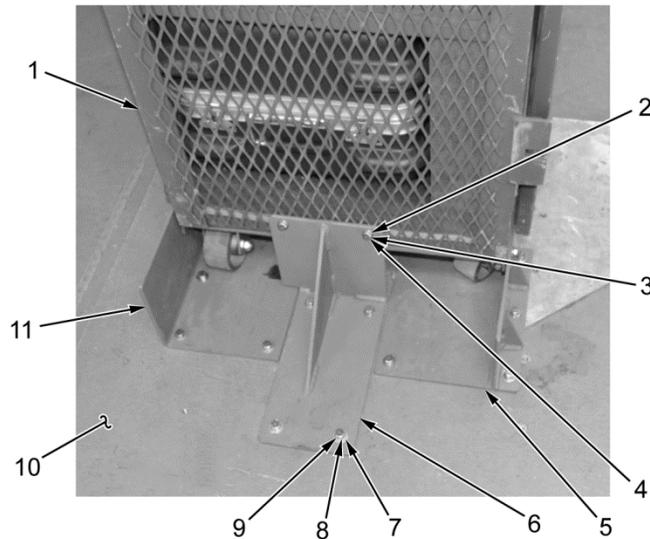
27. Install bracket B1 (Figure 14, Item 5), bracket B2 (Figure 14, Item 3), bracket B3 (Figure 14, Item 2), bracket B4 (Figure 14, Item 6), bracket B5 (Figure 14, Item 1), 24 flat washers (Figure 14, Item 7), new lockwashers (Figure 14, Item 8), and bolts (Figure 14, Item 9) on floor (Figure 14, Item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

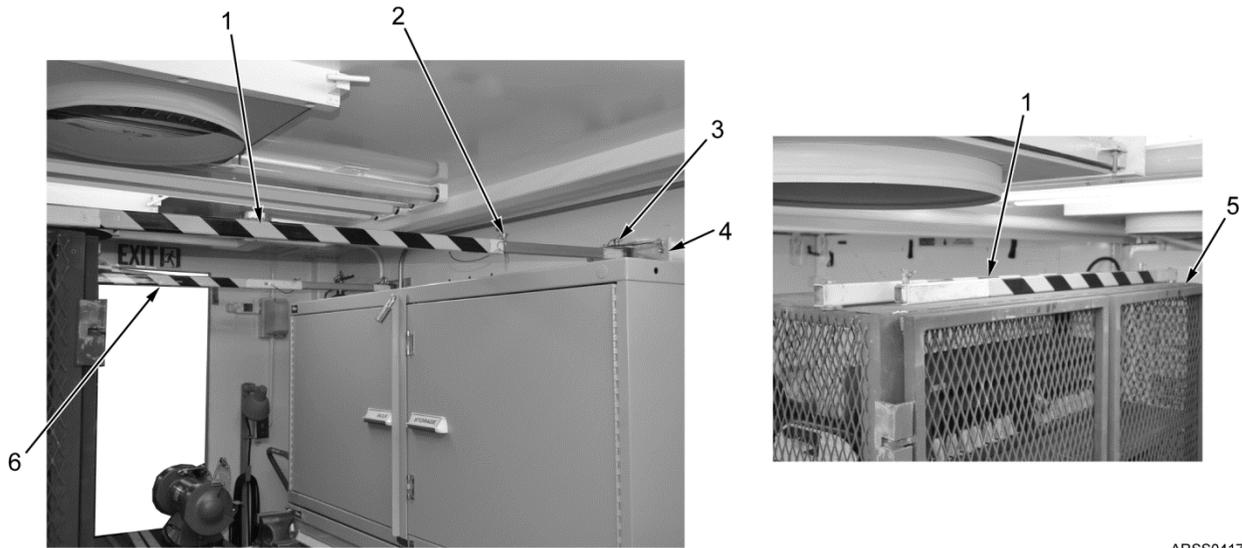
Figure 15. Ammo Cabinet and Bracket B6 Installation.

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.

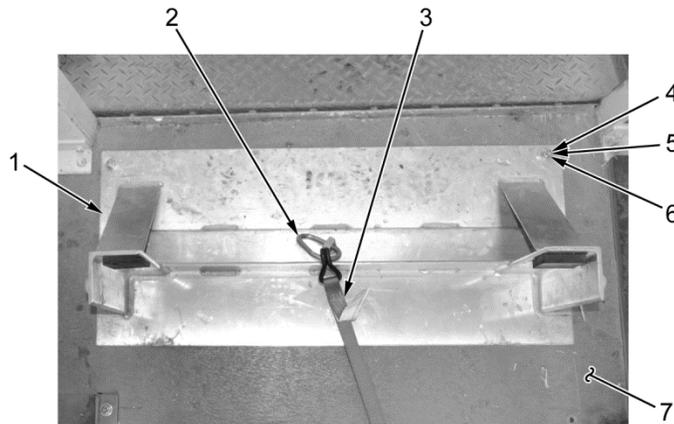
31. Remove retaining pin (Figure 16, Item 2) securing inner/outer rod lateral bracket (Figure 16, Item 1) to ammo cabinet (Figure 16, Item 5) and rotate out to wall.
32. Extend inner/outer rod lateral bracket (Figure 16, Item 1) and install retaining pin (Figure 16, Item 2).
33. Install inner/outer rod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

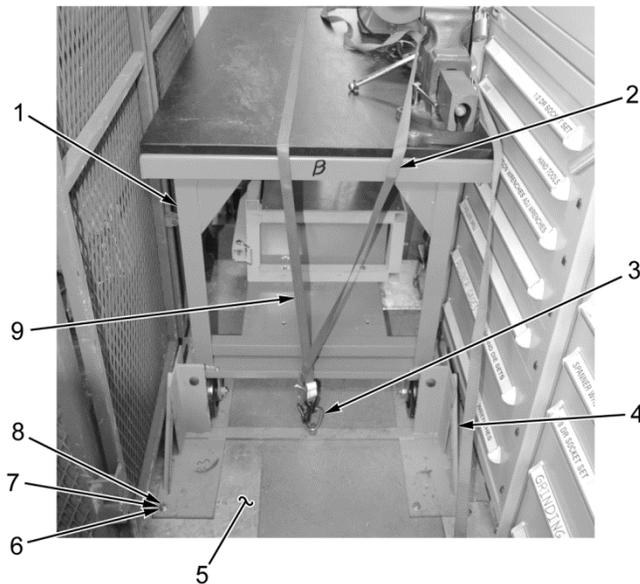
SECURE - Continued**WARNING**

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.

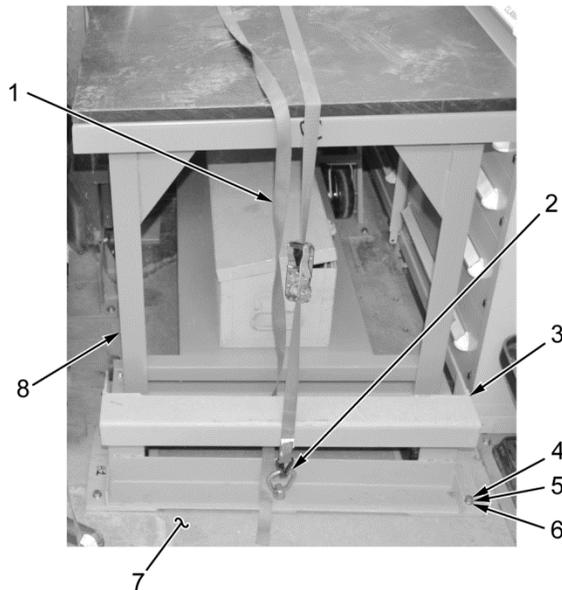
SECURE - Continued**WARNING**

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).

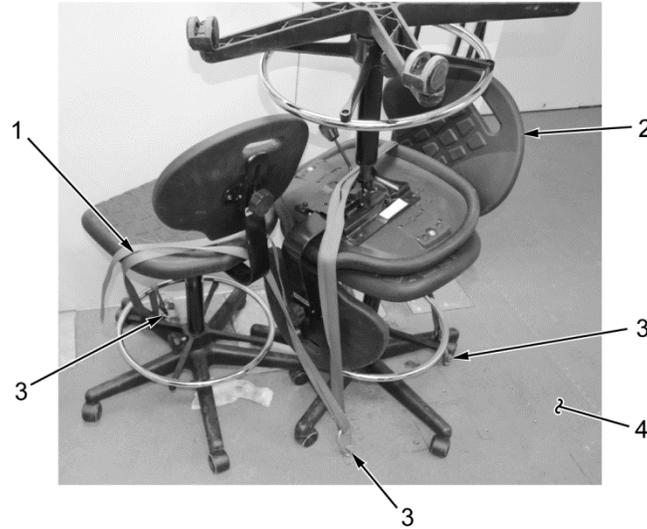


ARSS0414

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)

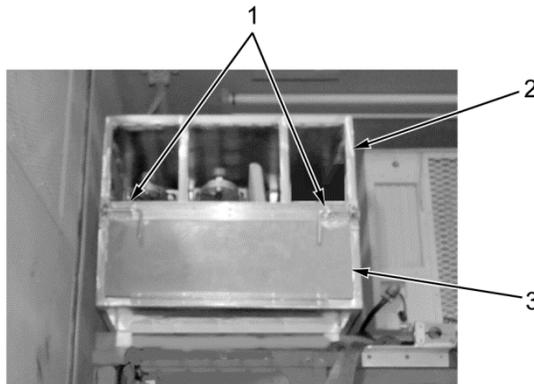
Equipment Condition

ARSS shelter secure (WP 0007)

SECURE ARSS SHELTER**WARNING**

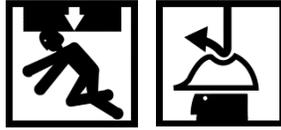
To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

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**

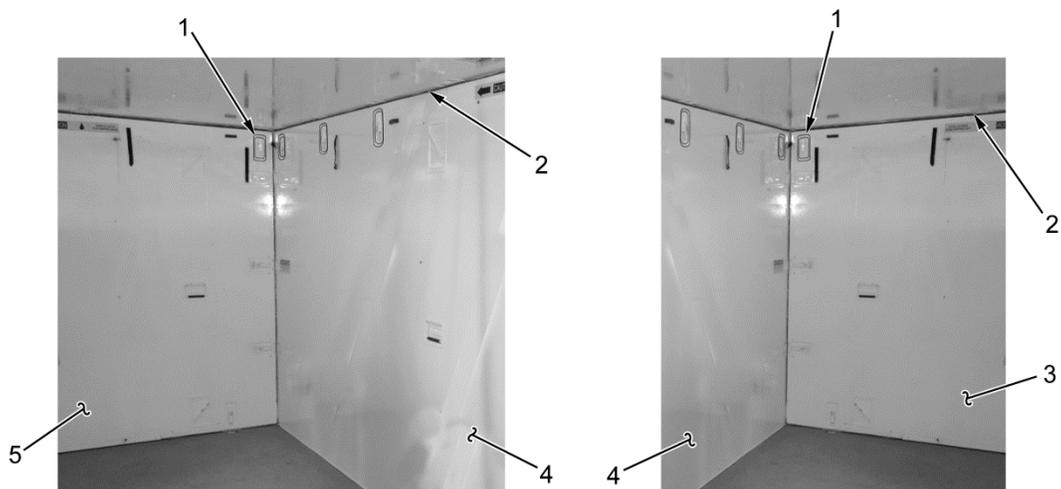
Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Ensure personnel stand clear of front of expandable sections. Wear head protection at all times to prevent head injury. Expandable sections could come loose and crush personnel. Failure to follow this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

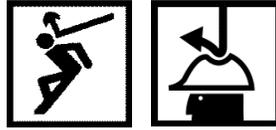
NOTE

- 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.

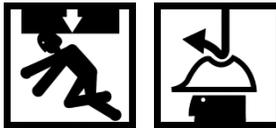
CAUTION

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

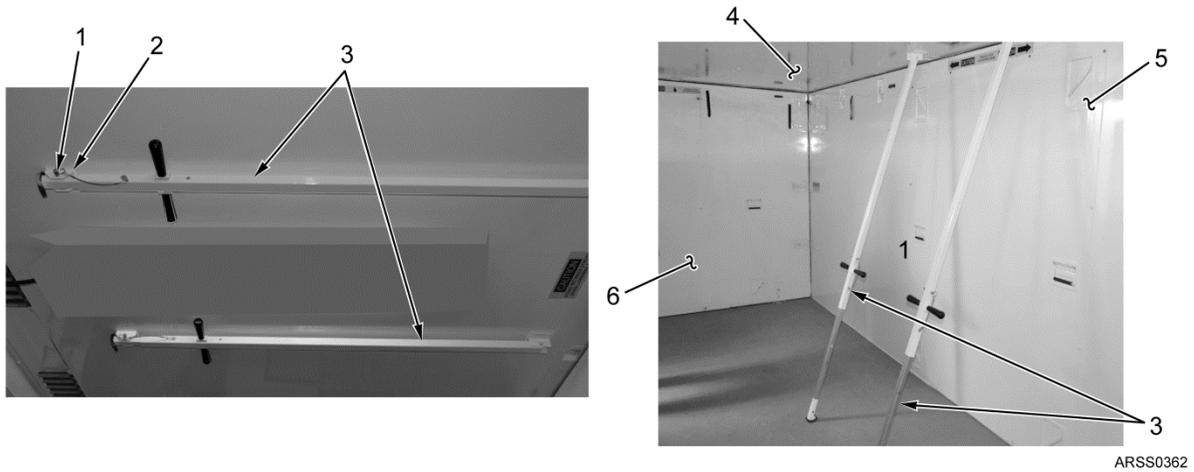


Figure 3. Shelter Ceiling/Roof Removal.

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

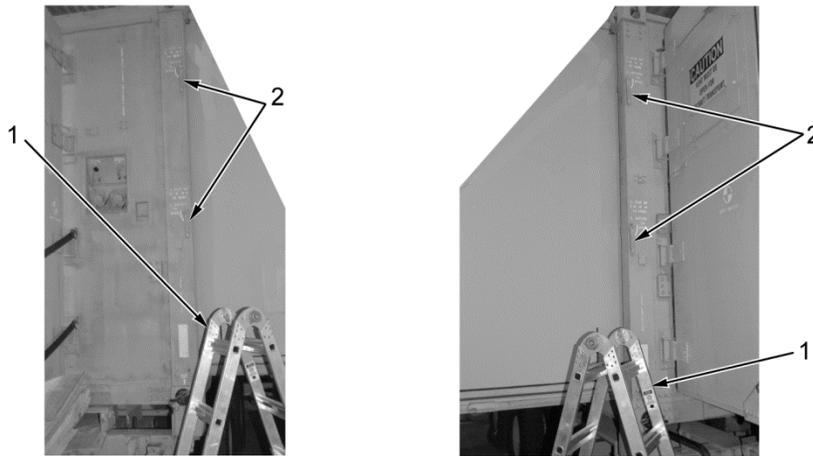
WARNING

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

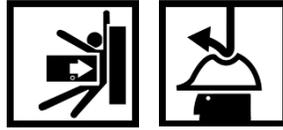
Figure 5. Ladder Placement.

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



ARSS0357

Figure 6. Securing End Wall.

SECURE ARSS SHELTER - Continued**WARNING**

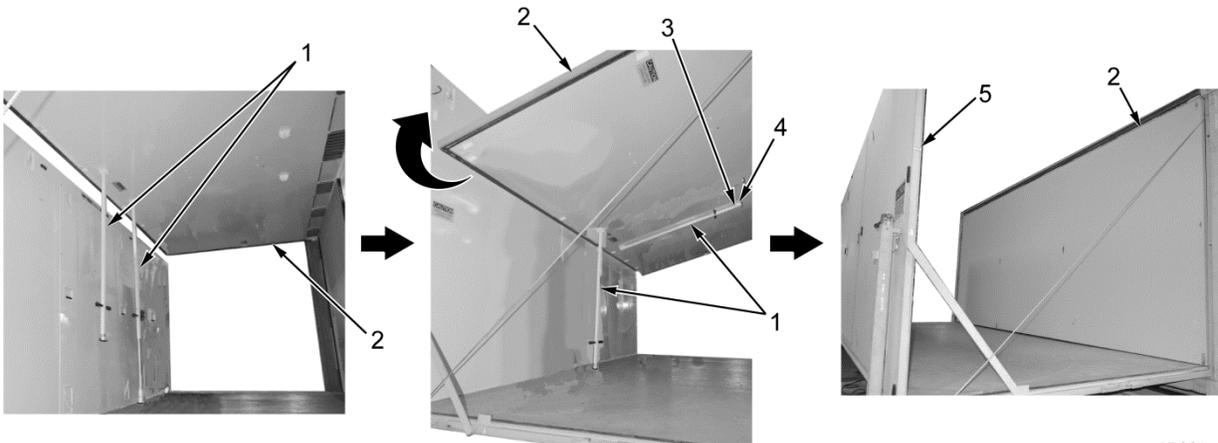
Ensure proper care is taken when lowering shelter ceiling/roof. Expandable sections of shelter, including hinged floors and hinged sidewall, weigh 700 lb (318 kg). Wear head protection at all times to prevent head injury. Personnel may get caught between shelter ceiling/roof. Failure to follow this warning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

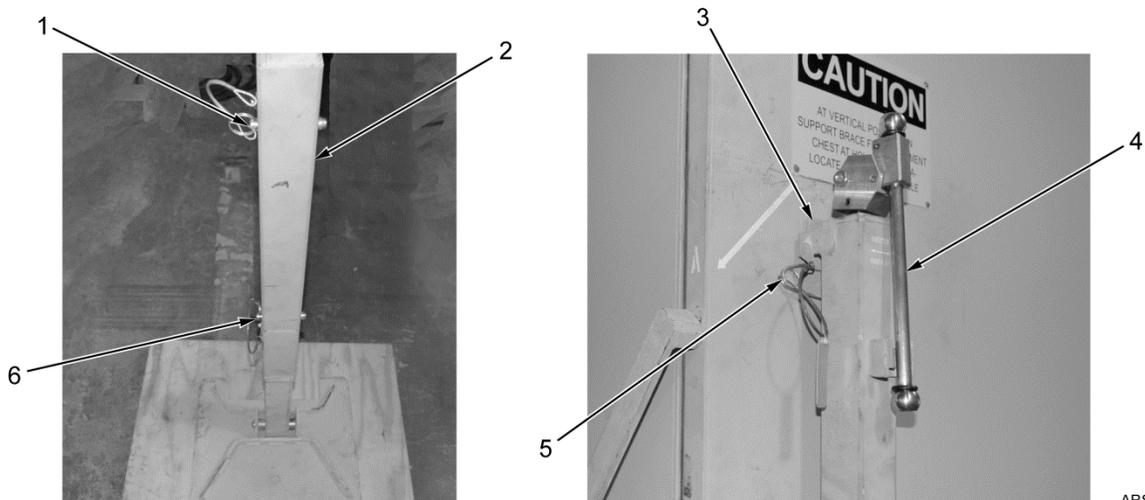
16. Pull solar bar handle (Figure 8, Item 1) clockwise to engage tension on shelter ceiling/roof.



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).

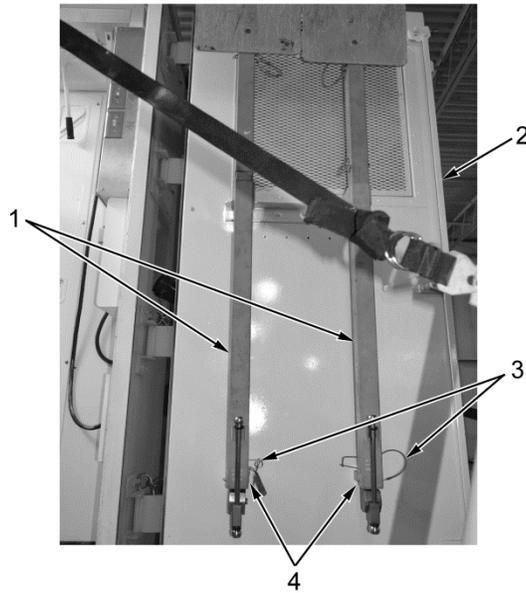
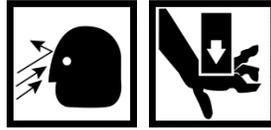


Figure 10. Securing Leveling Jacks

ARSS0349

SECURE ARSS SHELTER - Continued**WARNING**

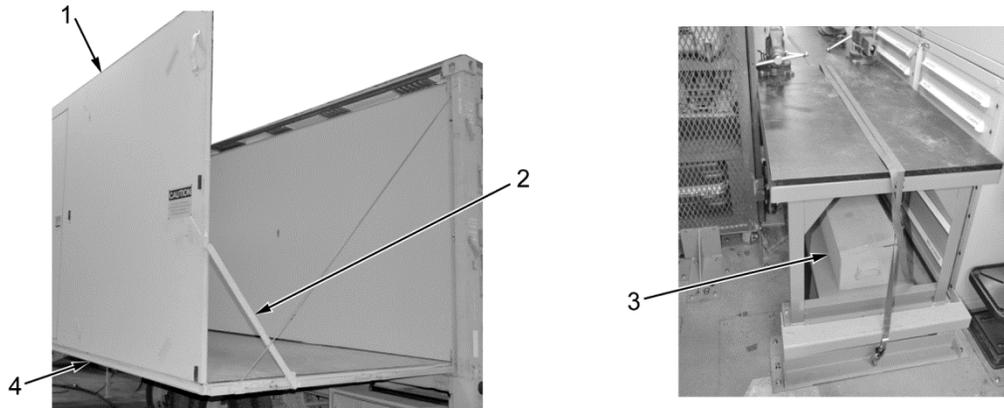
Steer clear of sides of hinged floor during sidewall placement. Dirt and debris could become airborne and cause injury to personnel. Keep all hands and fingers off hinge floor when dropping sidewall. Sidewall could come down and pinch hands and fingers. Failure to follow this warning may cause injury.

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

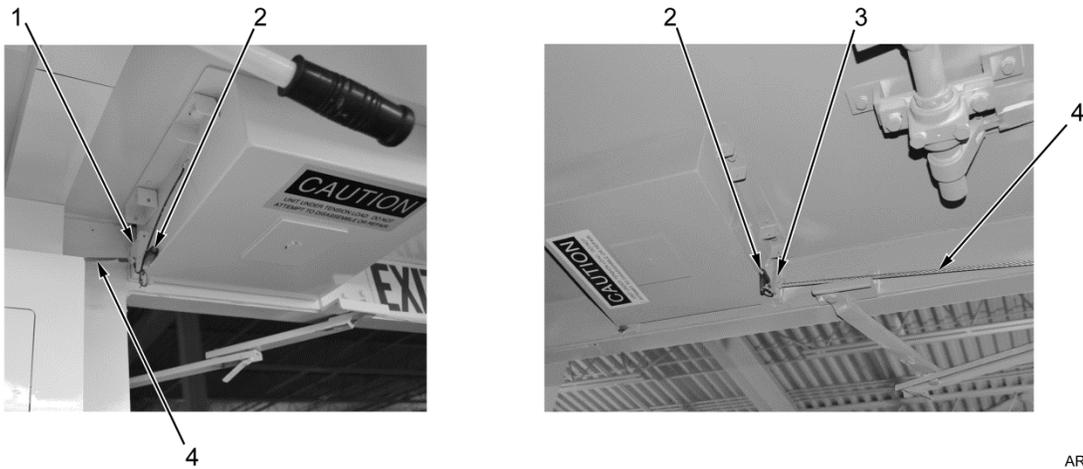
Figure 11. Folding Down Sidewall.

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).

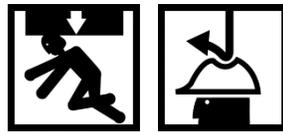
SECURE ARSS SHELTER - Continued



ARSS0345

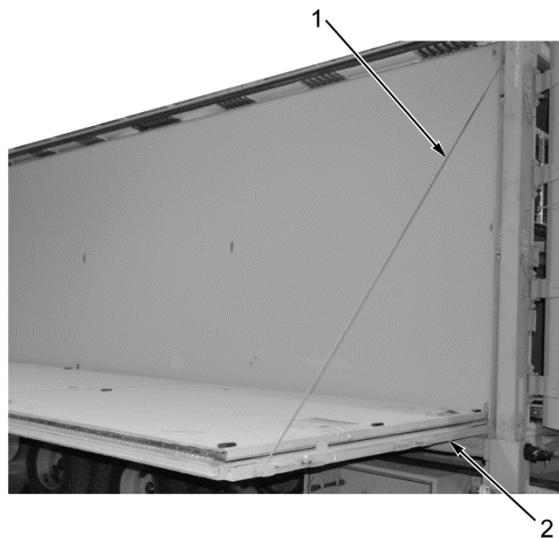
Figure 12. Releasing Support Cable.

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.

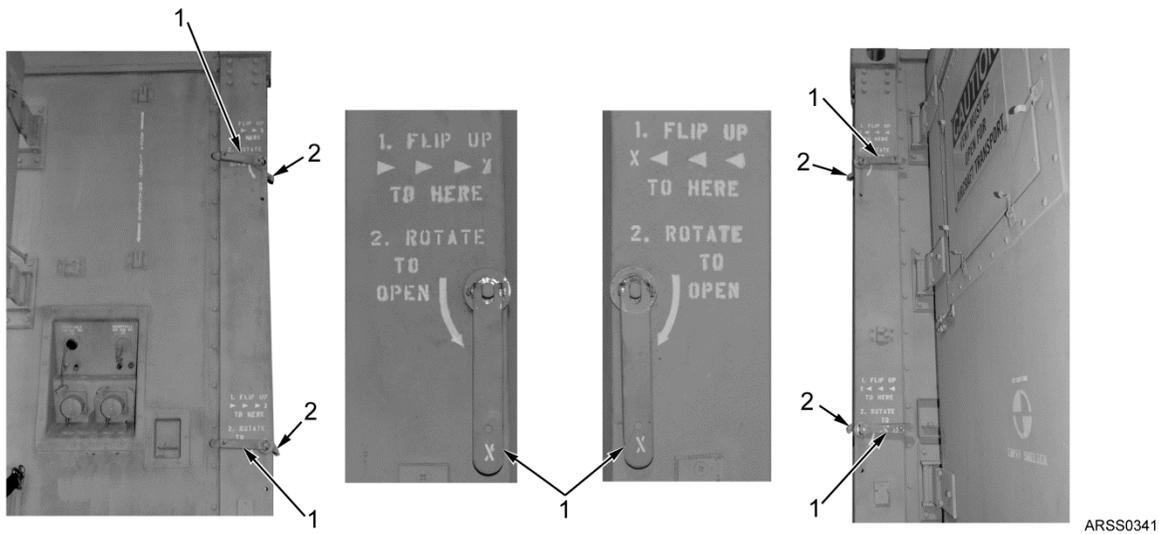
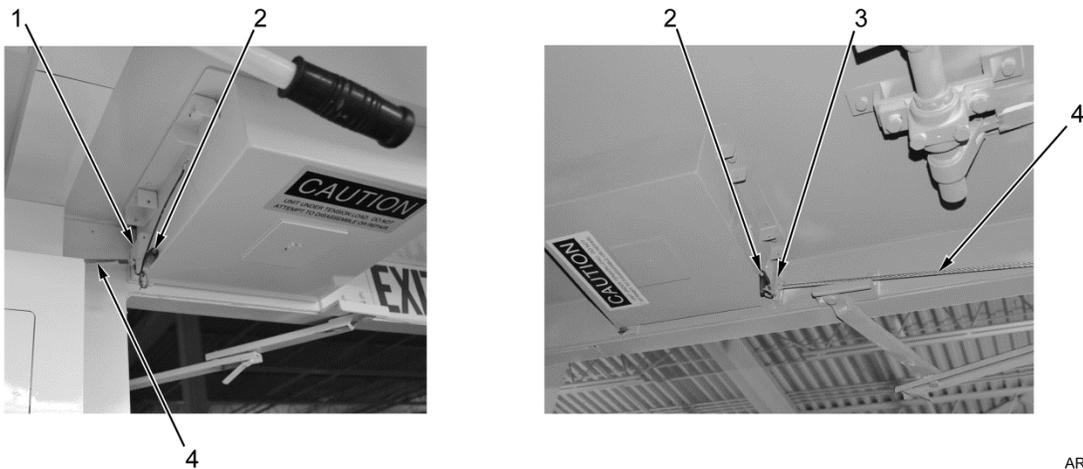


Figure 14. Securing Hinged Floor.

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

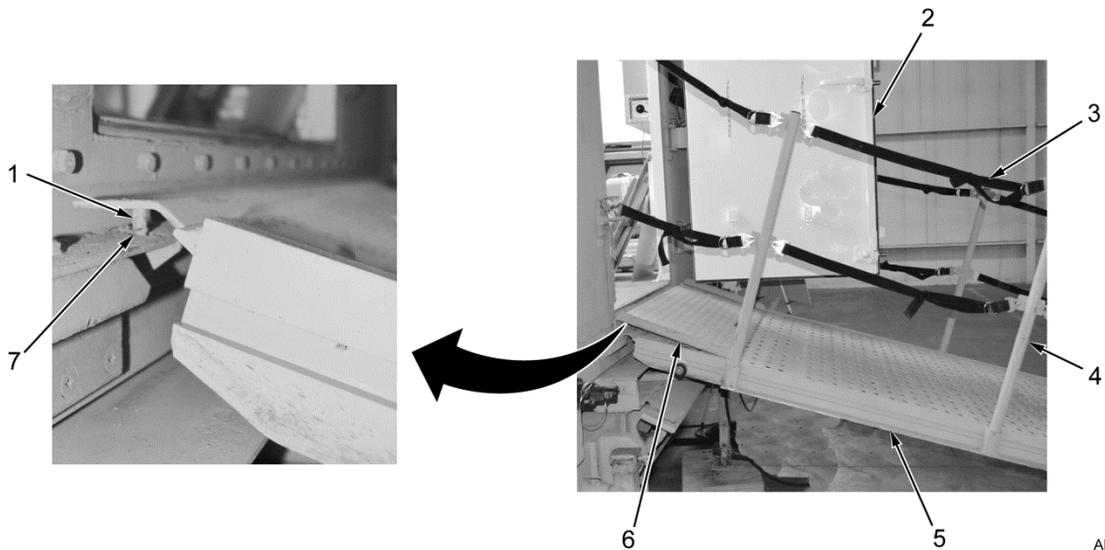
31. Depress door brace and close personnel door (Figure 16, Item 2).
32. Remove threshold plate (Figure 16, Item 6) from ramp (Figure 16, Item 5). Set threshold plate aside.
33. Remove 18 straps (Figure 16, Item 3) and nine posts (Figure 16, Item 4) from ramp (Figure 16, Item 5).

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.

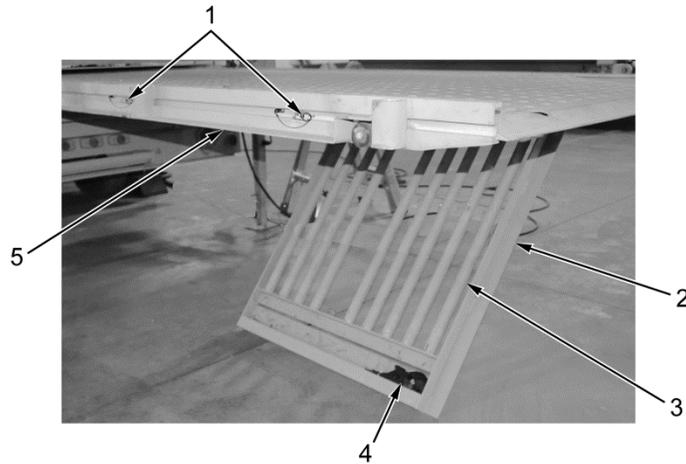


ARSS0336

Figure 16. Ramp Strap and Post Removal.

SECURE ARSS SHELTER - Continued

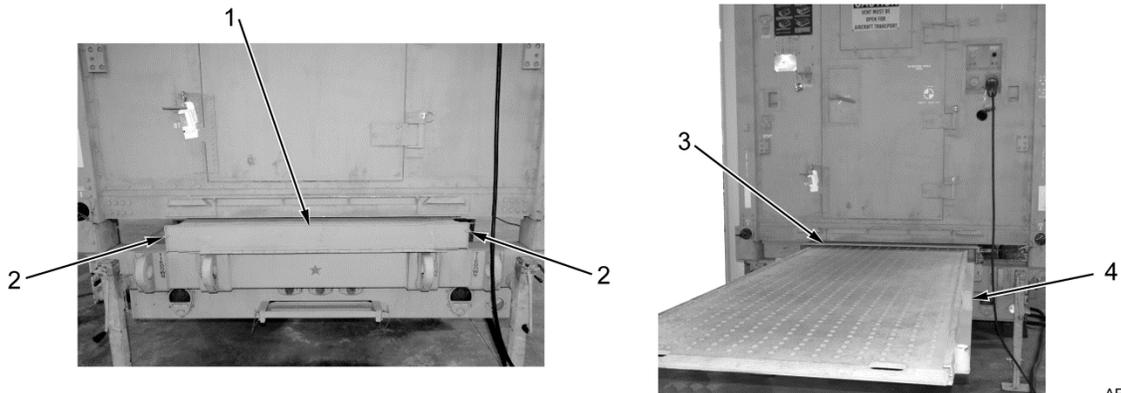
35. Remove two storage pins (Figure 17, Item 1) from ramp (Figure 17, Item 5) and lower storage rack (Figure 17, Item 2).
36. Install nine posts (Figure 17, Item 3) and 18 straps (Figure 17, Item 4) in storage rack (Figure 17, Item 2).
37. Raise storage rack (Figure 17, Item 2) back into position on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

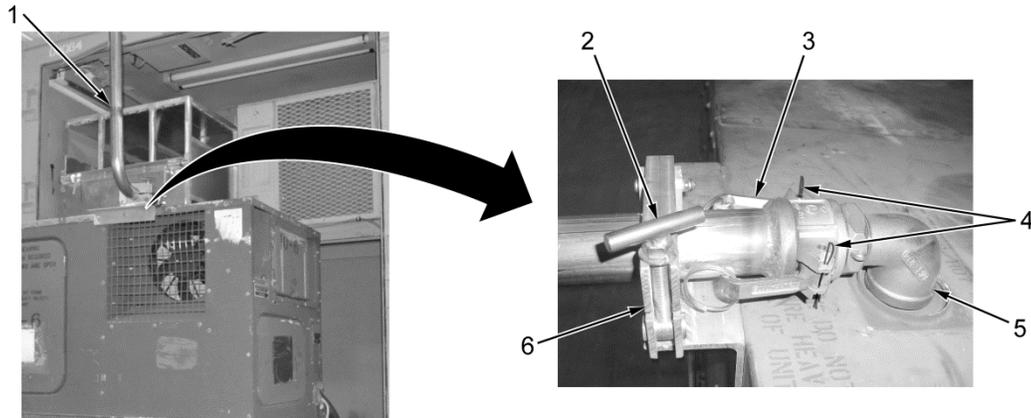
Allow generator to cool before operating or performing maintenance on exhaust pipe.
Hot components may burn personnel. Failure to follow this warning may cause injury.

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.

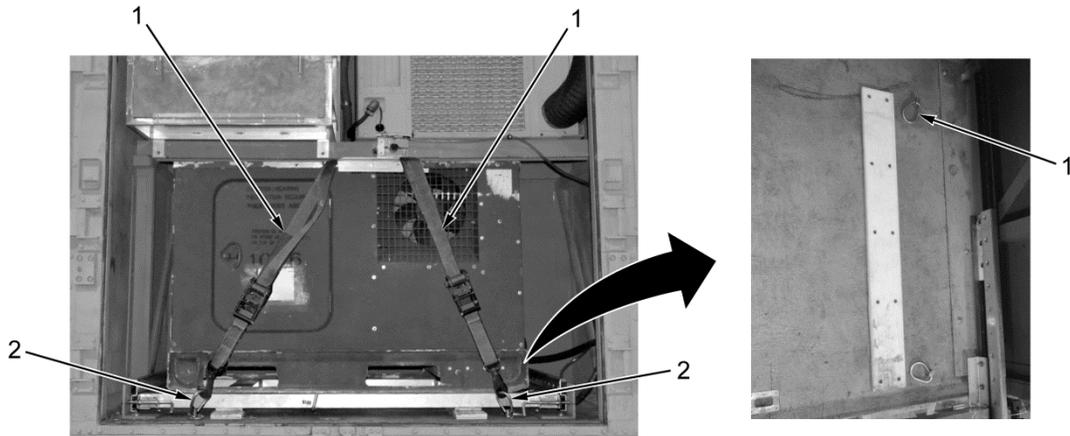
45. Install d-rings (Figure 20, Item 2) if removed during setup.
46. Install two ratchet straps (Figure 20, Item 1) on two d-rings (Figure 20, Item 2) behind generator.

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

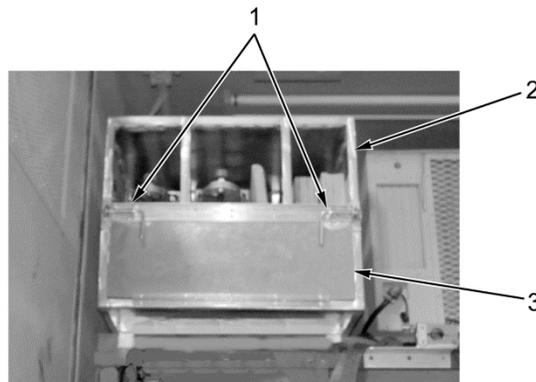


To avoid personal injury, get assistance when lifting components that weigh more than 50 lb (23 kg). Ensure lifting is done with the knees and not lower back. Incorrect heavy lifting could result in lower back injury or crushed extremities. Failure to follow this warning may cause injury.

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).

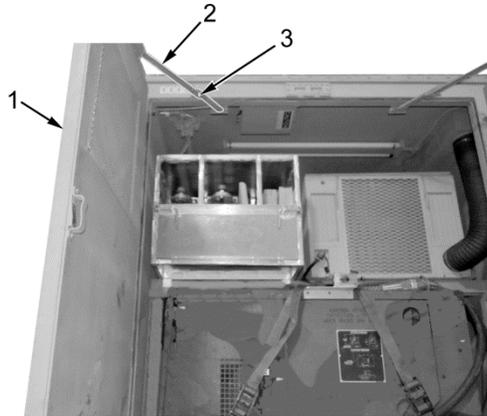


ARSS0326

Figure 21. Re-fill Storage Rack Contents.

SECURE ARSS SHELTER - Continued

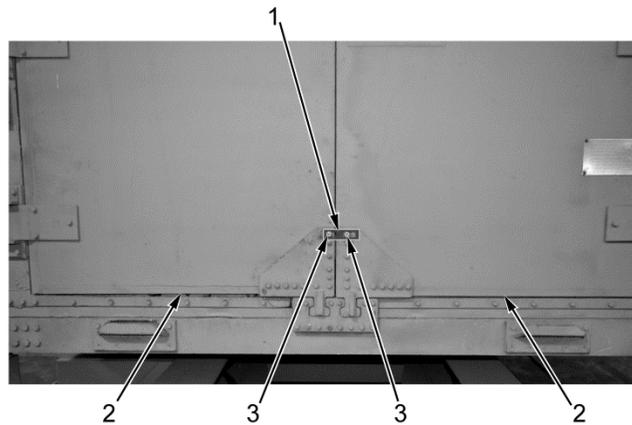
- 51. Depress two tabs (Figure 22, Item 3) on two door braces (Figure 22, Item 2) and close two mechanical room doors (Figure 22, Item 1).



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.

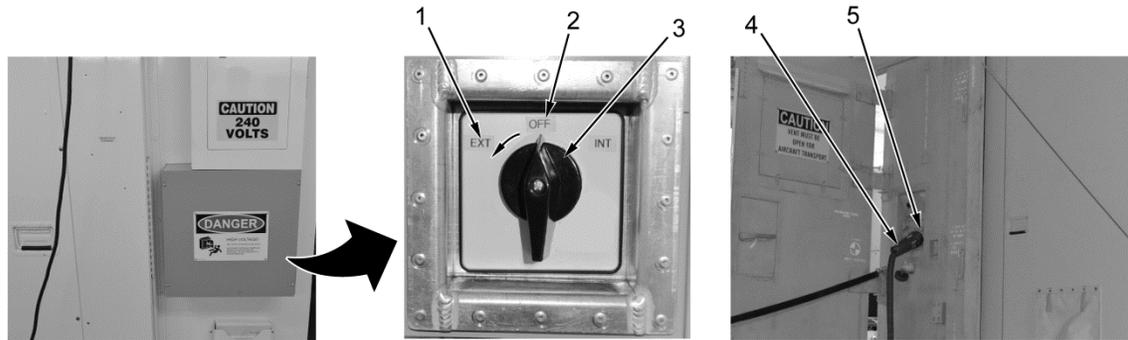
ARSS POWER ON - Continued

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).



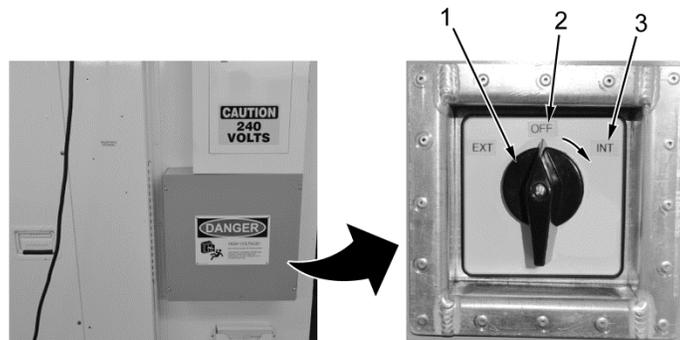
ARSS0373

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

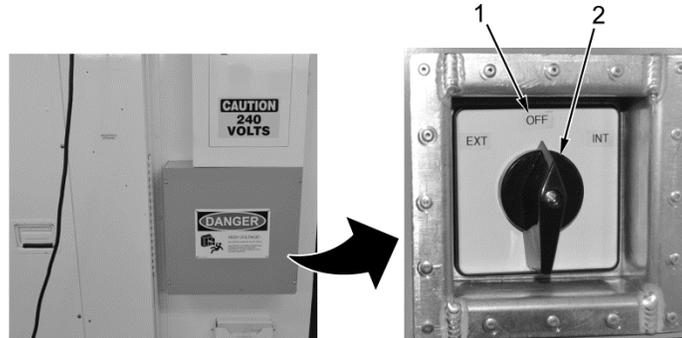
Figure 4. Circuit Breakers.

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.

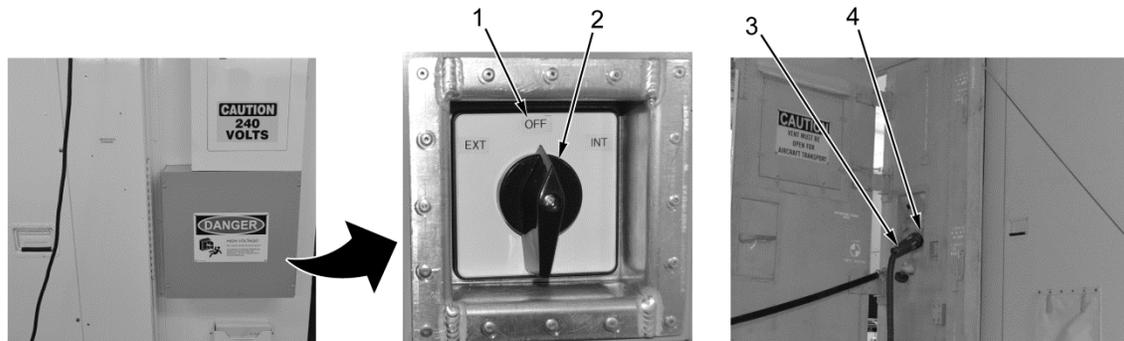
2. Turn selector switch (Figure 5, Item 2) to OFF position (Figure 5, Item 1).
3. Turn generator OFF (TM 9-6115-750-10).



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.

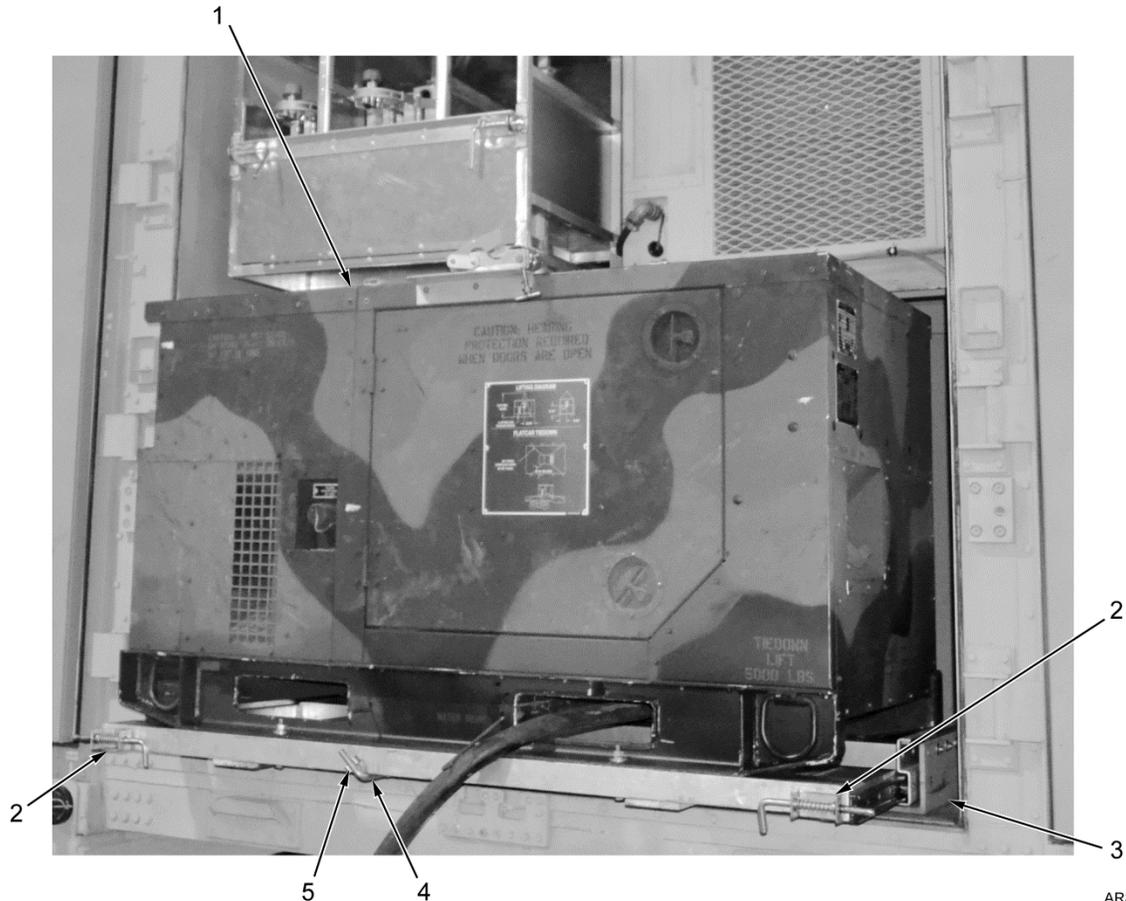


Figure 1. Generator Extend.

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).

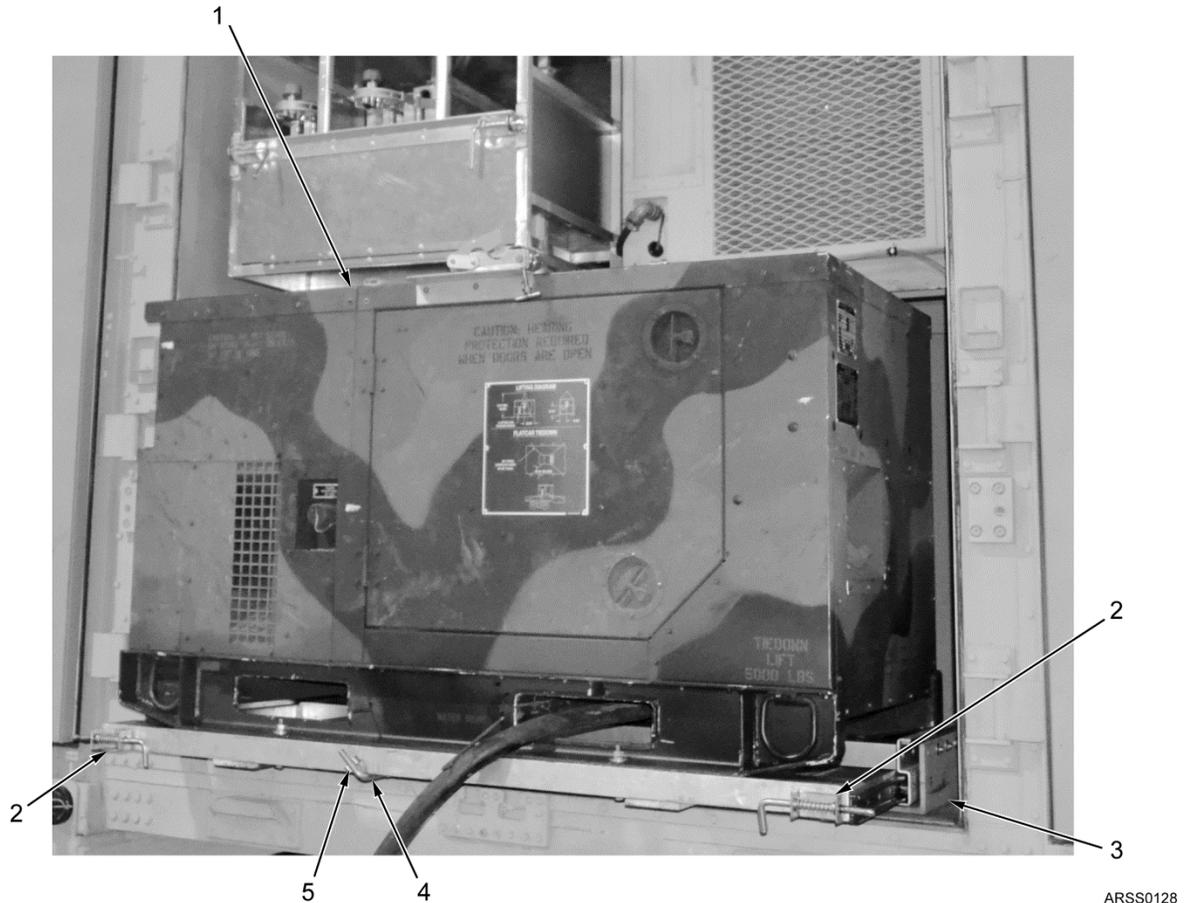


Figure 2. Generator Retract.

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).

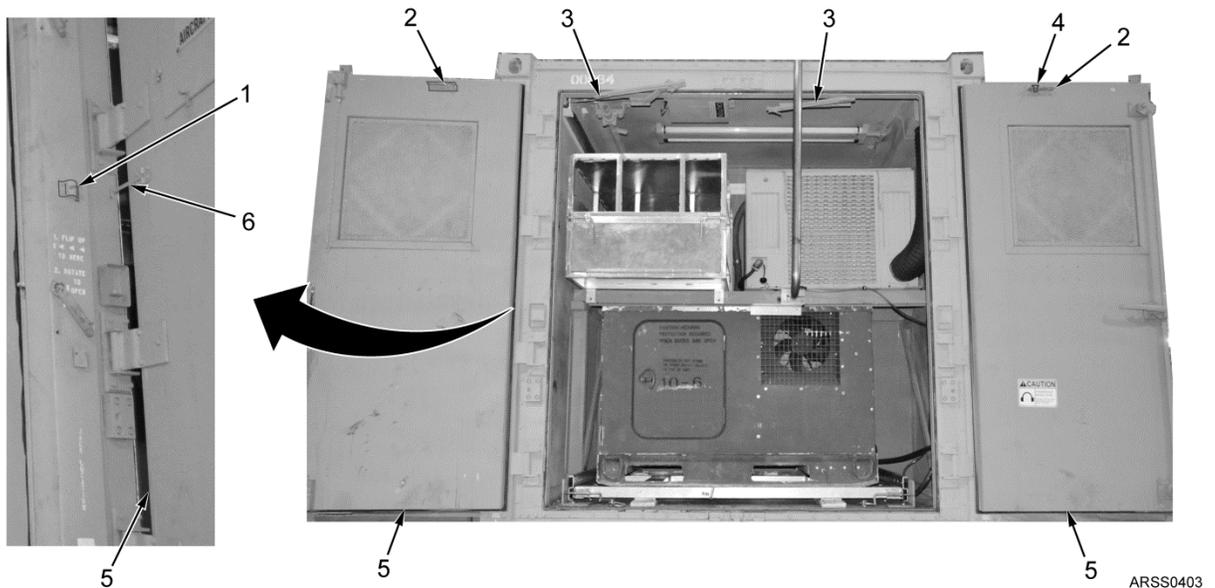


Figure 1. Open Mechanical Room Doors.

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).

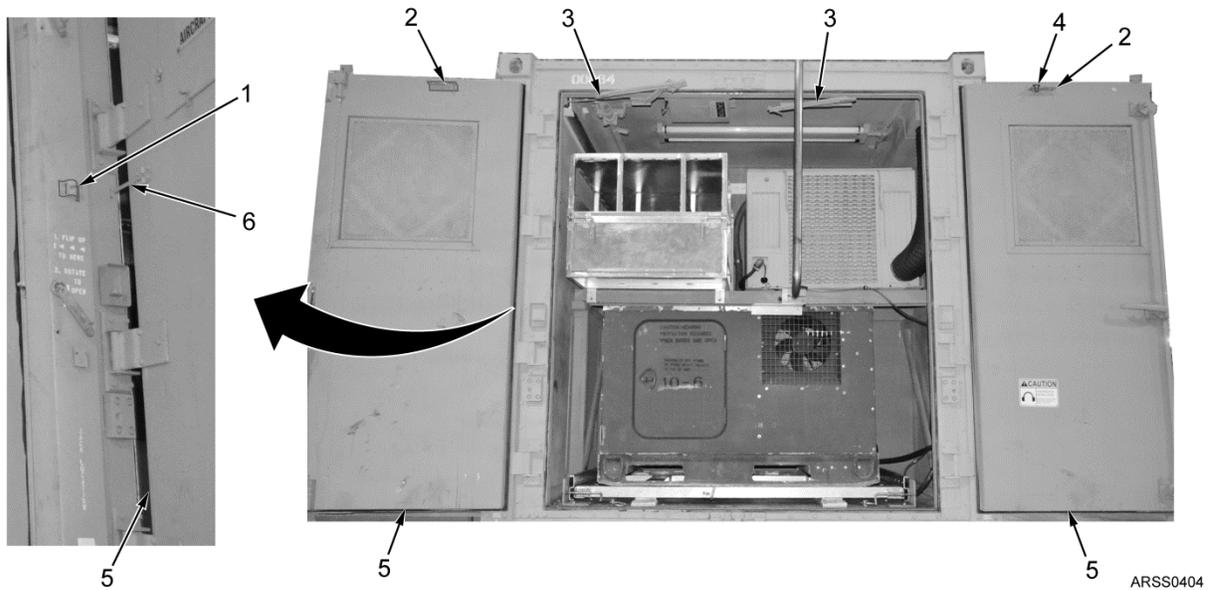


Figure 2. Secure Mechanical Room Doors.

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

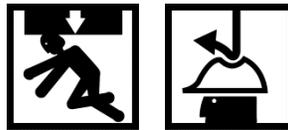
Fluorescent lights have a delay time in coming on at temperatures of 0°F and below.

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 operate 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

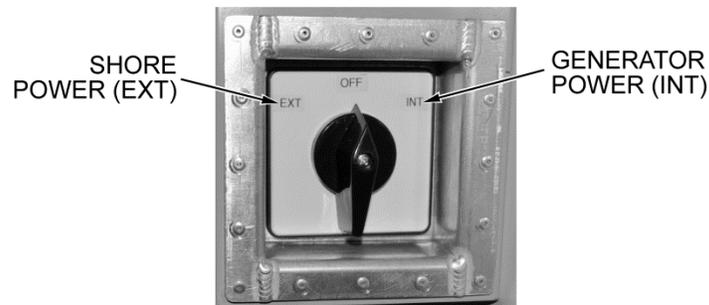
CORRECTIVE ACTION**WARNING**

- 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 Condition

ARSS 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

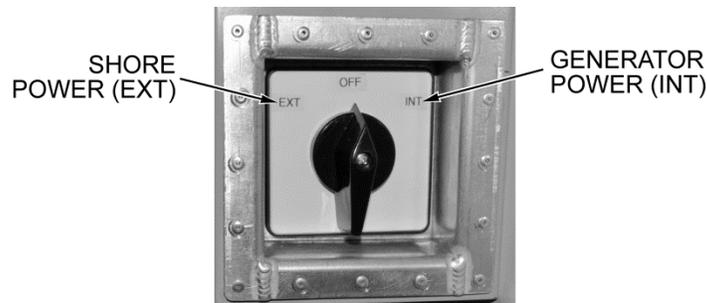
SMOKE ALARM NONFUNCTIONAL

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

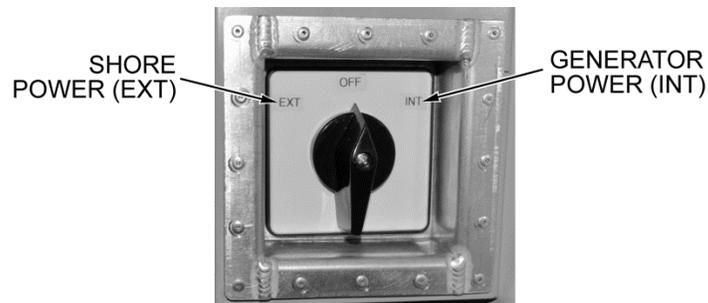
NO POWER TO MECHANICAL ROOM OUTLET OR LIGHT SWITCH

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

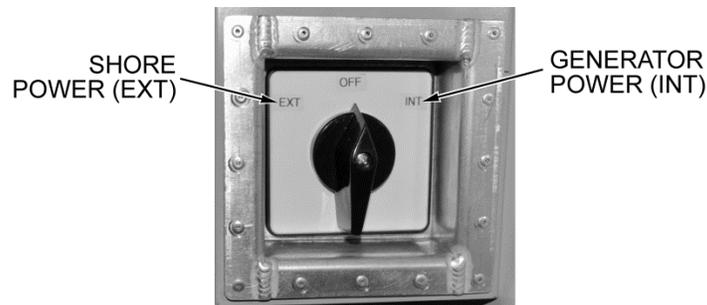
NO POWER TO WORK ROOM OUTLETS OR LIGHT FIXTURES

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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

References (cont.)

WP 0009
WP 0042
WP 0049
WP 0051

Equipment Condition

ARSS power ON (WP 0009)

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.

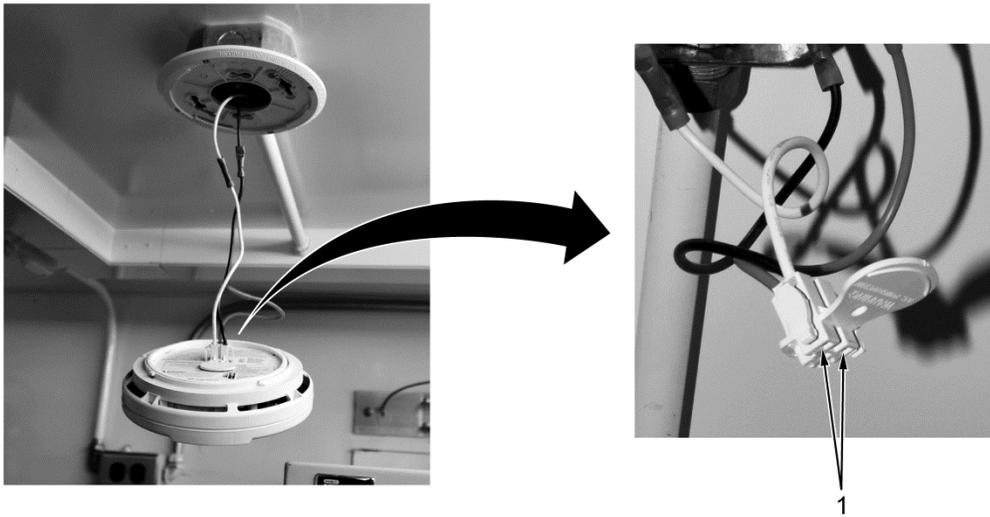
TROUBLESHOOTING PROCEDURE - Continued

Figure 1. Smoke Alarm.

ARSS0309

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. BIENNIALLY - 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>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>TM 9-2330-328-14&P Trailer: 7 1/2-Ton, 4-Wheel</p> <p>TM 10-5411-201-14 Shelter, Tactical, Expandable, One-Sided</p> <p>TM 9-6115-750-10 Generator Set, Skid Mounted, 10 kW</p> <p>TM 9-4120-425-14&P Environmental Control Unit (ECU), Air Conditioner, Horizontal, Compact</p> <p>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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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 style="text-align: center;">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



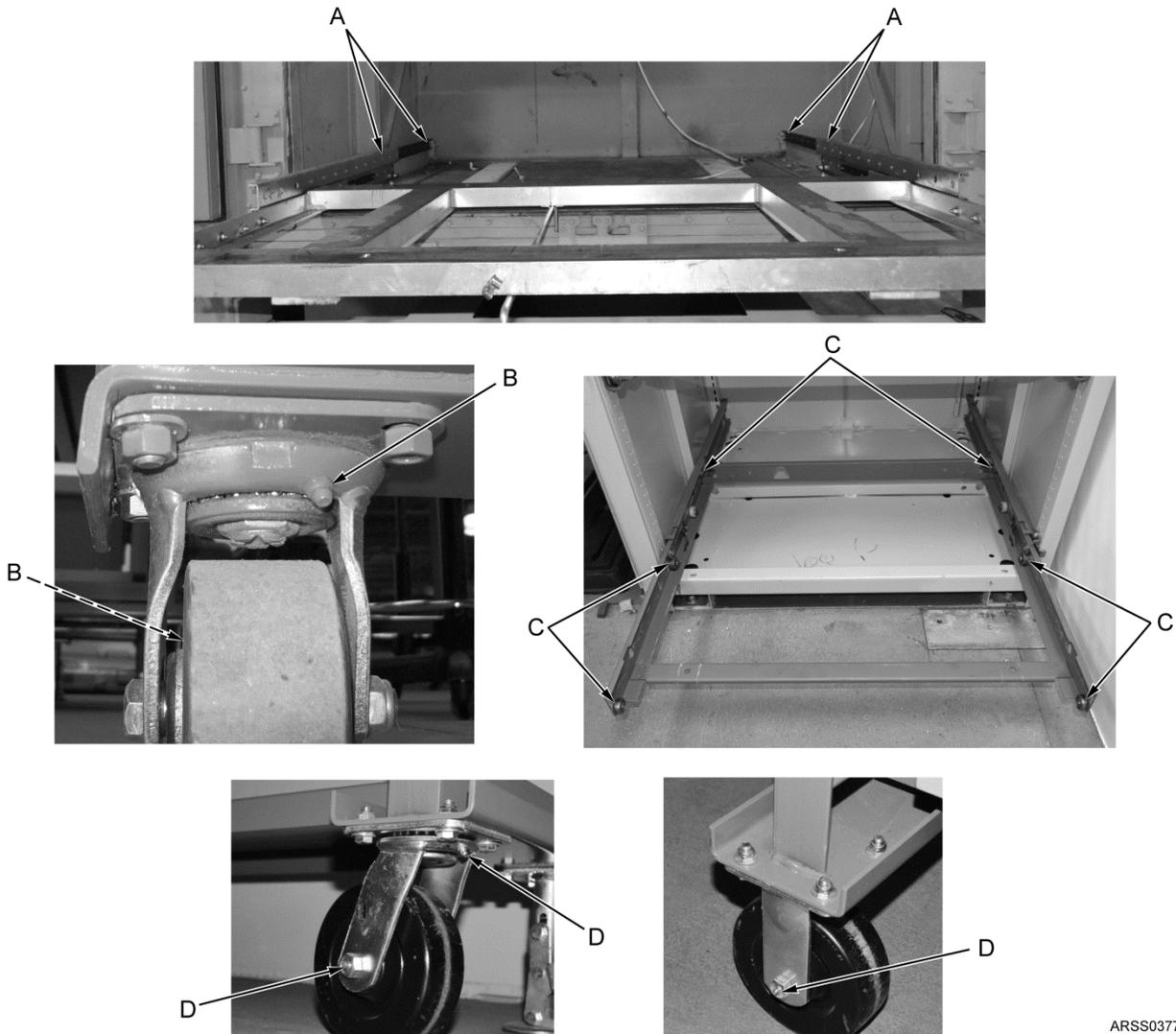
When performing lubrication, remove any excess lubricant to prevent personnel from slipping or falling while stepping on or off the equipment. Failure to follow this warning may cause injury.

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)

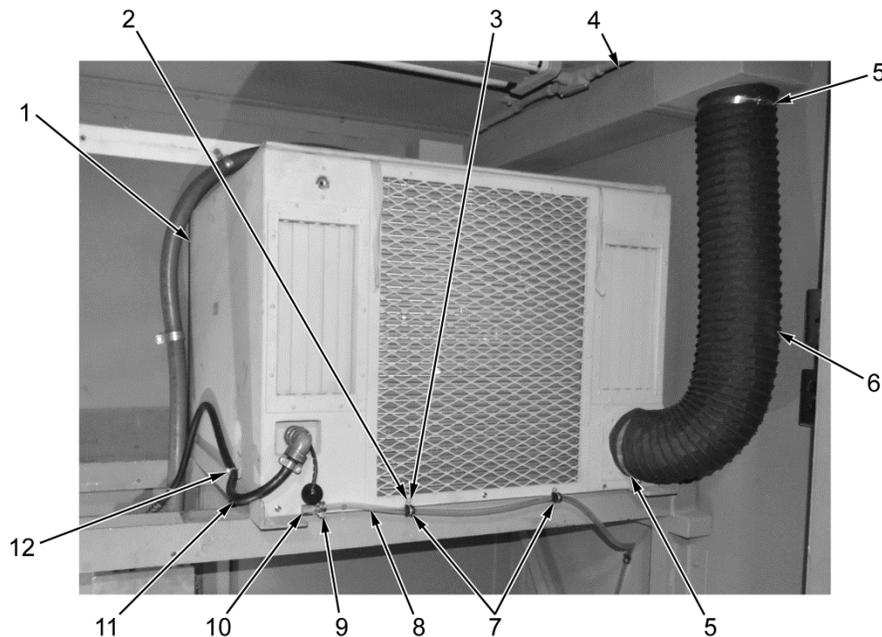
Equipment Condition

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.



ARSS0172

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.

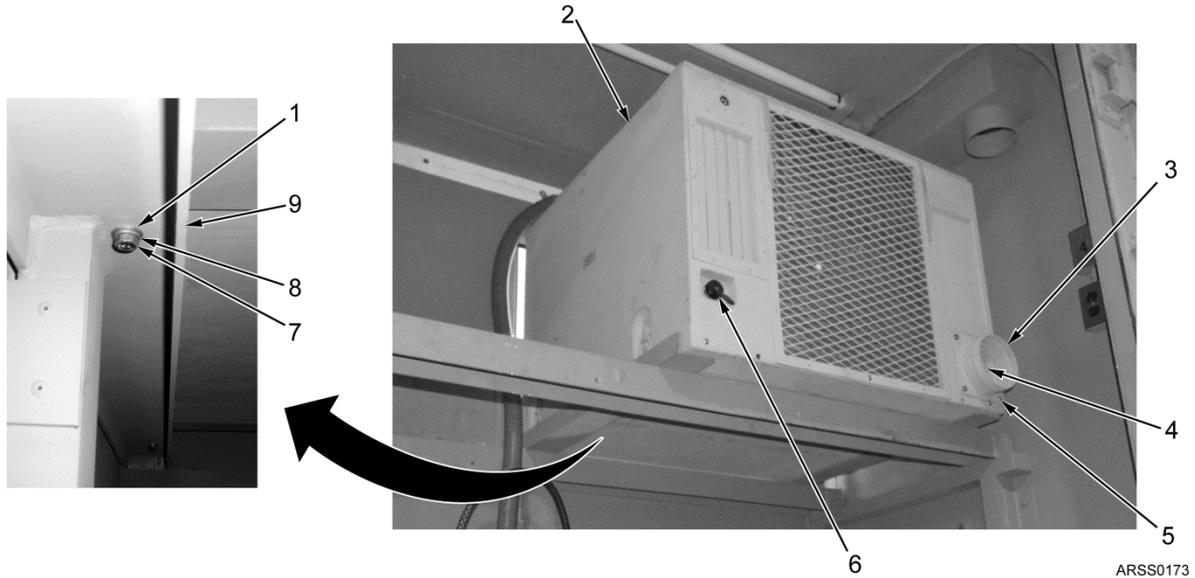
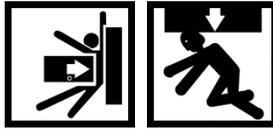


Figure 2. ECU Vent Fitting and Mounting Hardware Removal.

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).



Figure 3. ECU Removal.

ARSS0174

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.

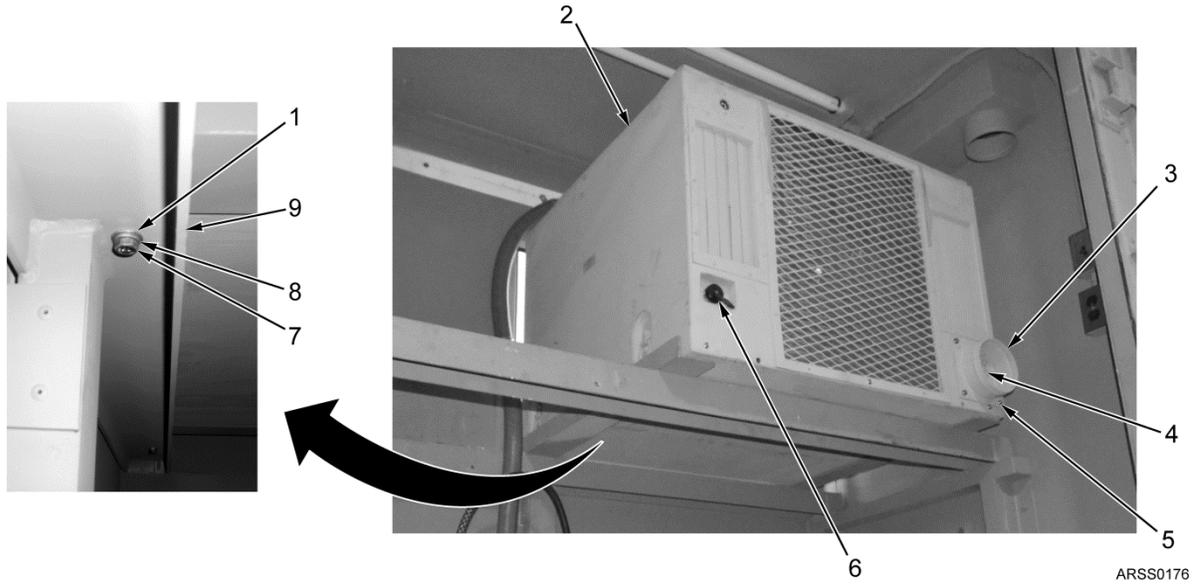


ARSS0175

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).



ARSS0176

Figure 5. ECU Vent Fitting and Mounting Hardware Installation.

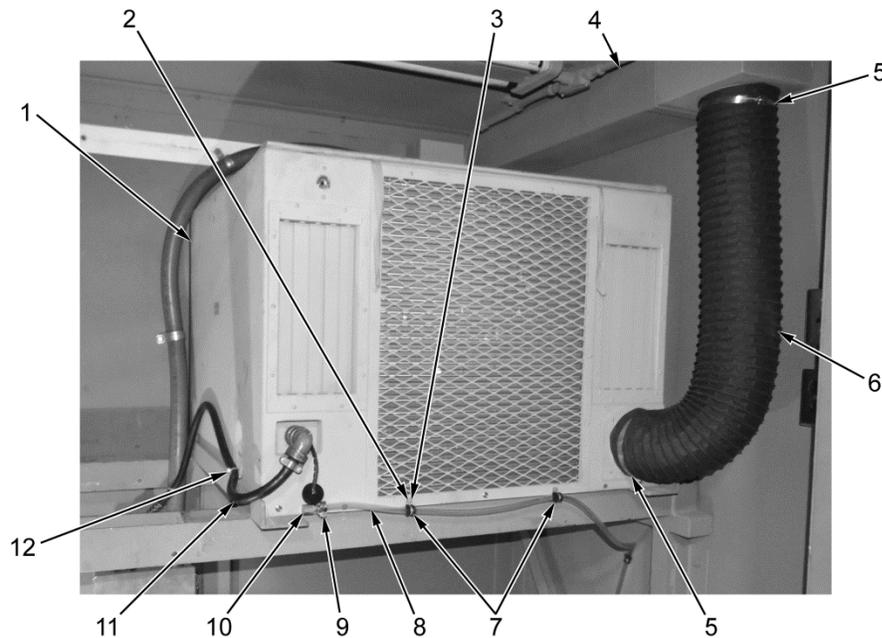
INSTALLATION - Continued

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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

Personnel Required (cont.)

Non-Specific MOS

References

FO-1
FO-2

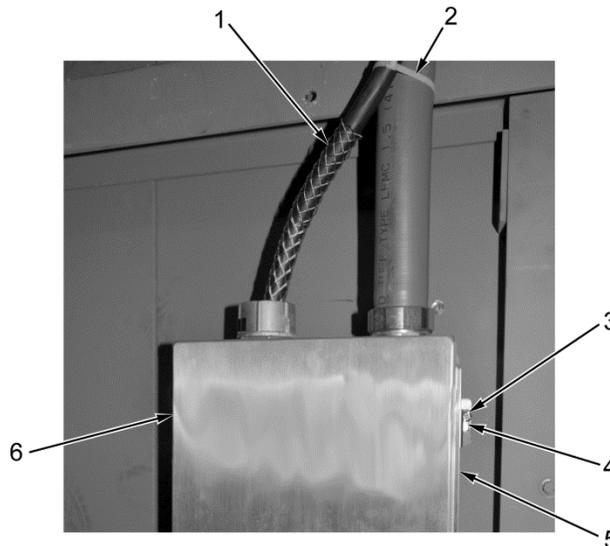
Equipment Condition

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. 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).



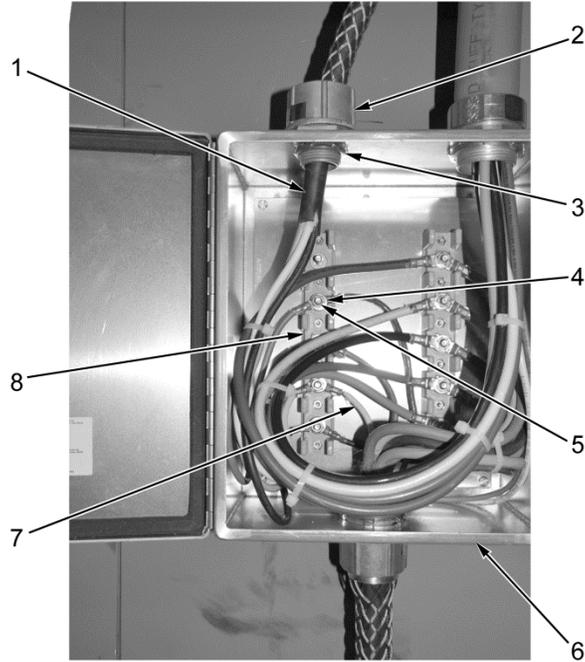
ARSS0219

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).

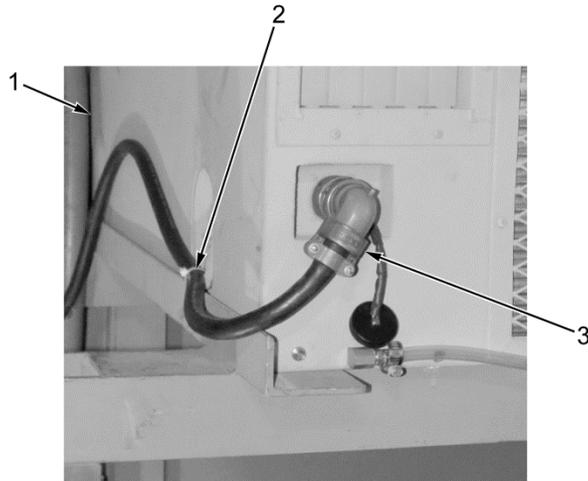
REMOVAL - Continued



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.



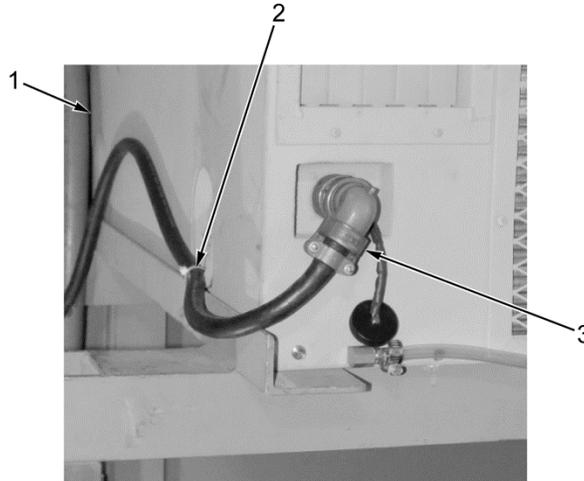
ARSS0221

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

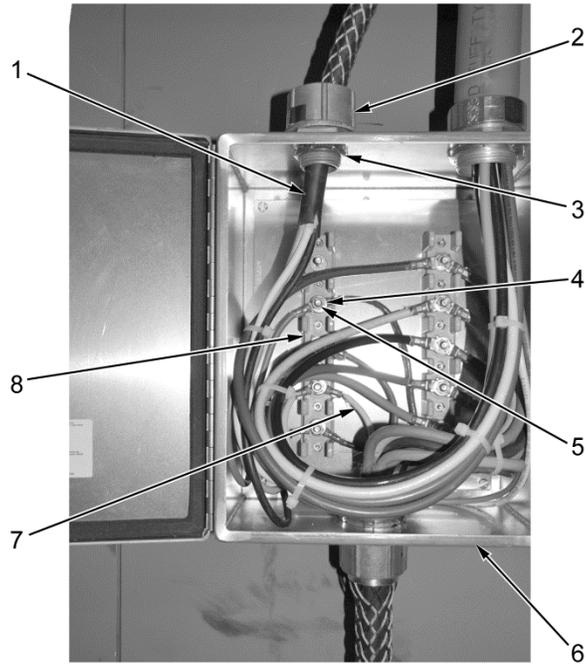
Figure 4. ECU Power Cable Installation.

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).

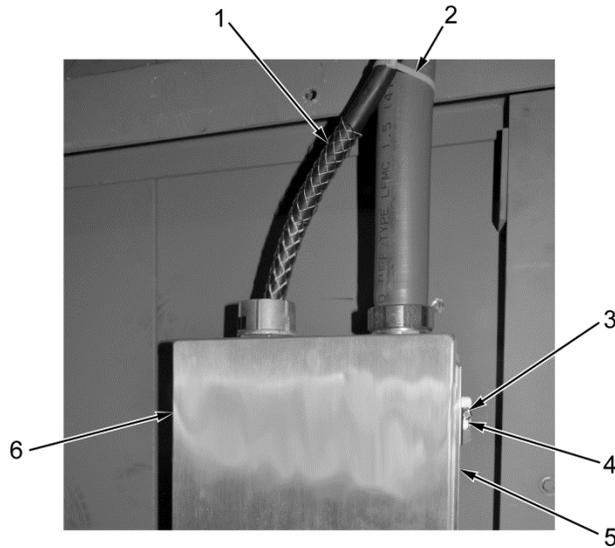
INSTALLATION - Continued



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

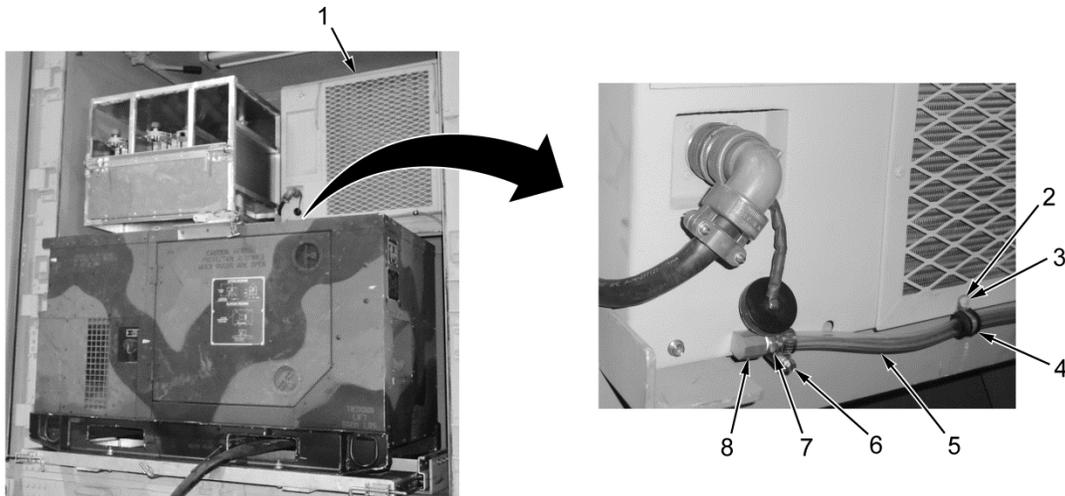
- WP 0090

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.

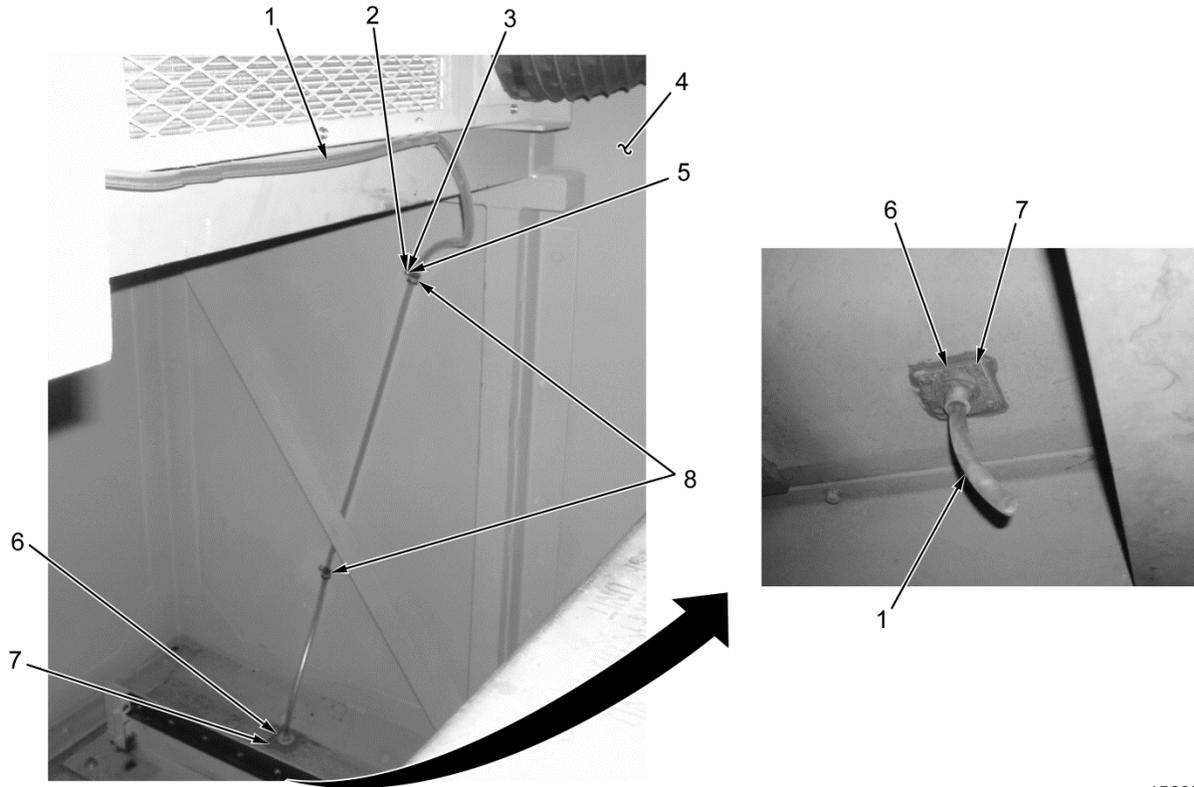
1. Apply sealing compound to two drain fitting (Figure 2, Item 4) mounting surfaces.

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

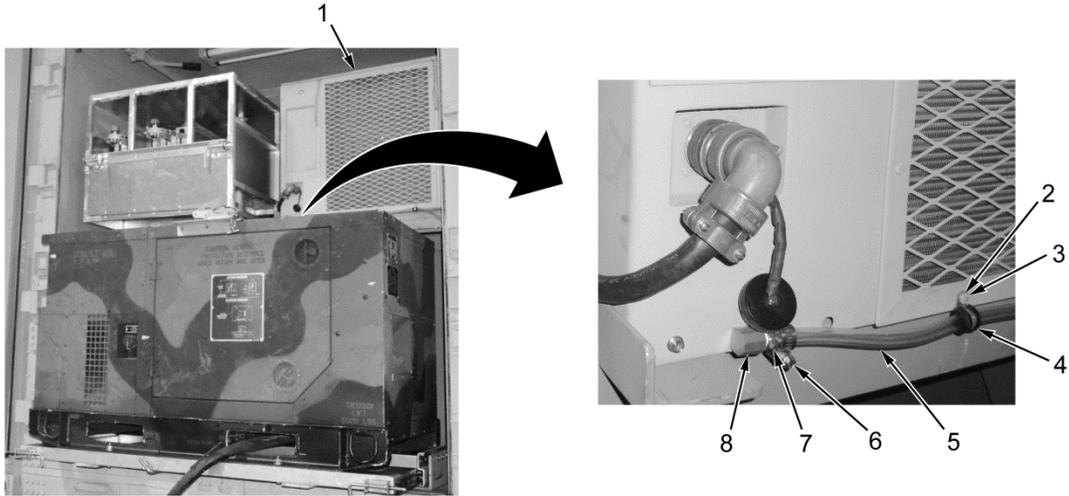


ARSS0048

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)

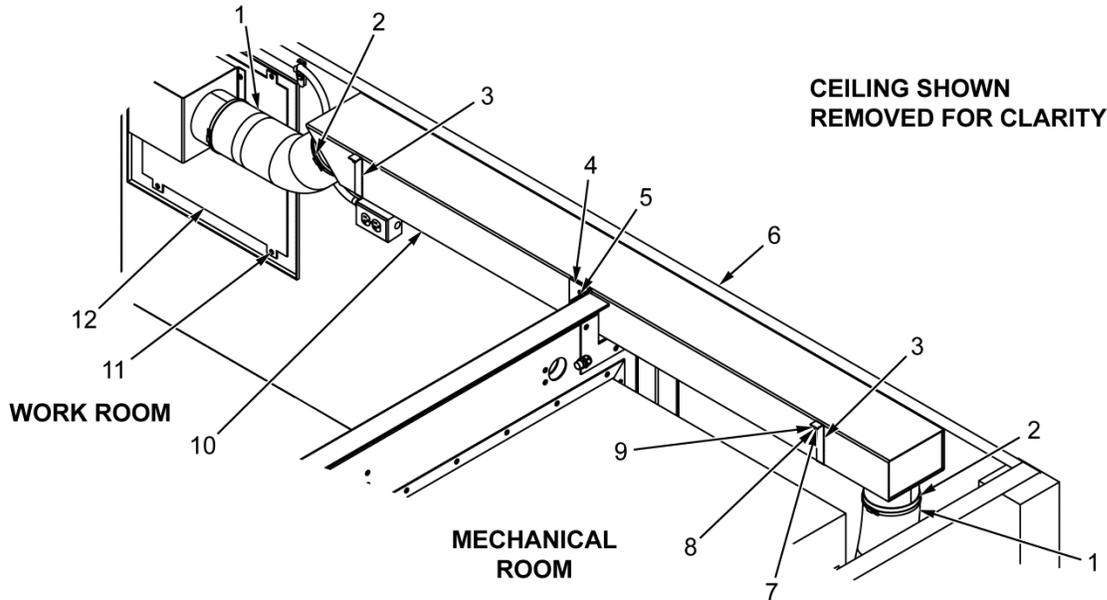
REMOVAL

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).

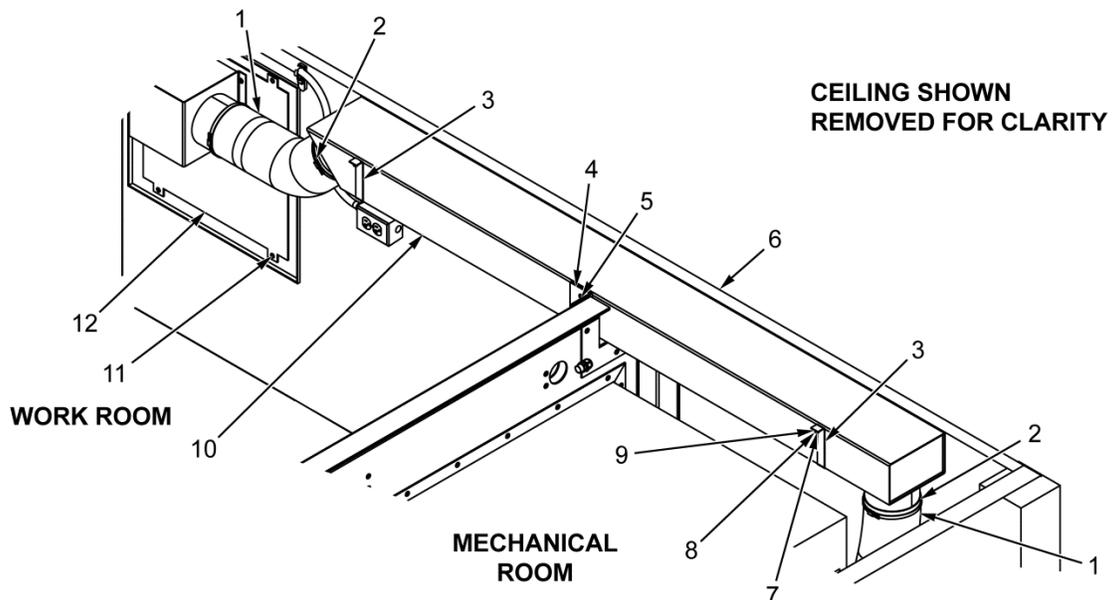


Figure 2. Air Duct Installation.

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.

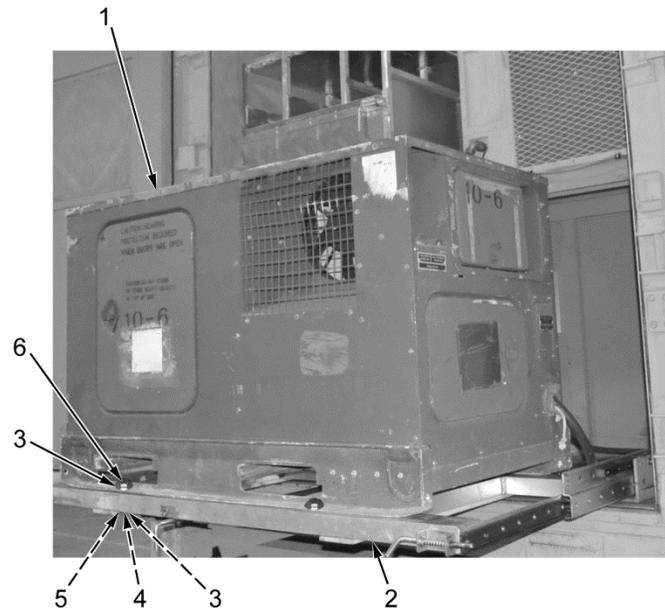


Figure 1. Generator Removal.

ARSS0023

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.

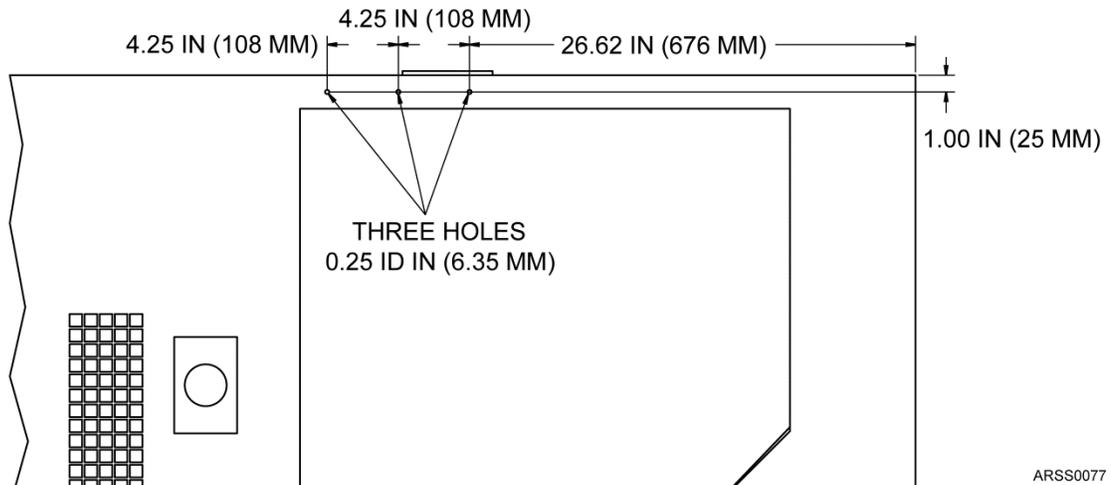
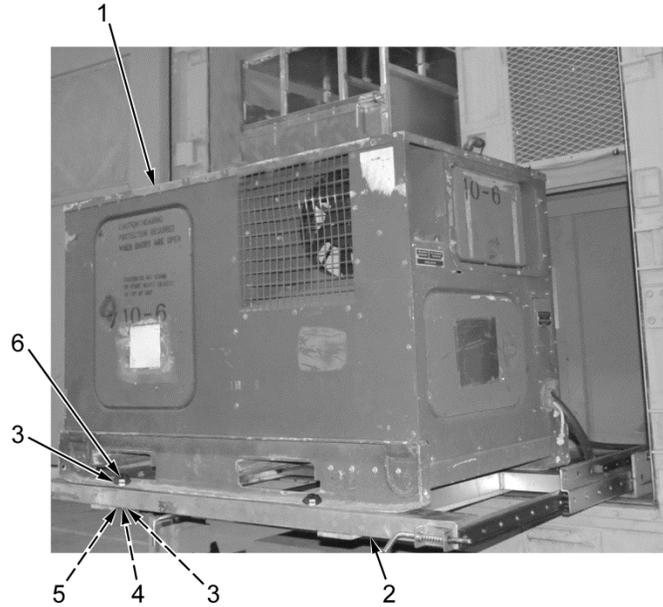


Figure 2. New Generator Preparation.

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)

Personnel Required (cont.)

Non-Specific MOS

Materials/Parts

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

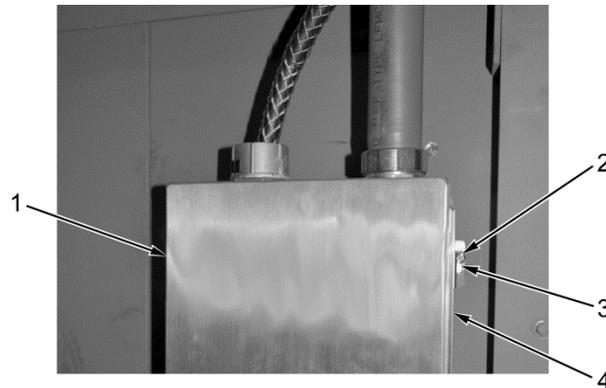
REMOVAL

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. 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).

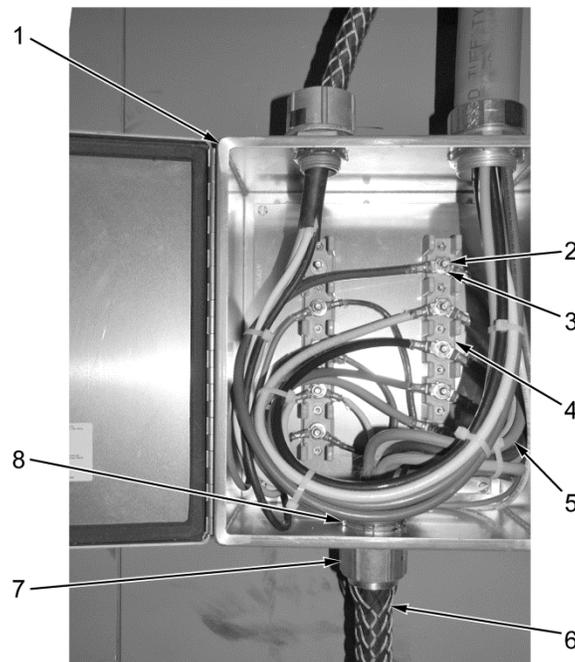


ARSS0225

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).

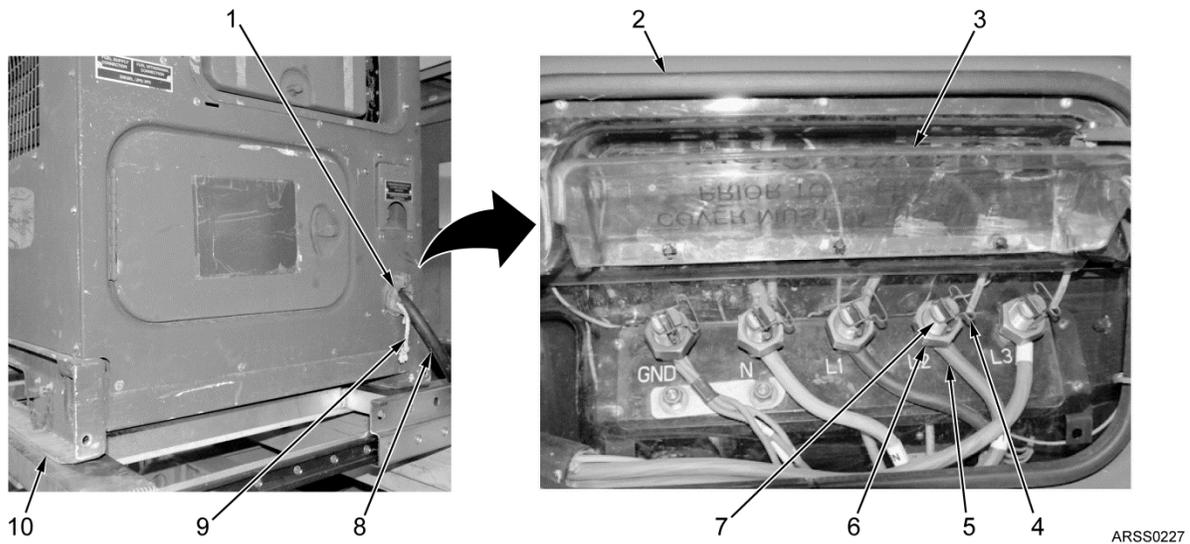


Figure 3. Generator Power Cable Removal.

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).

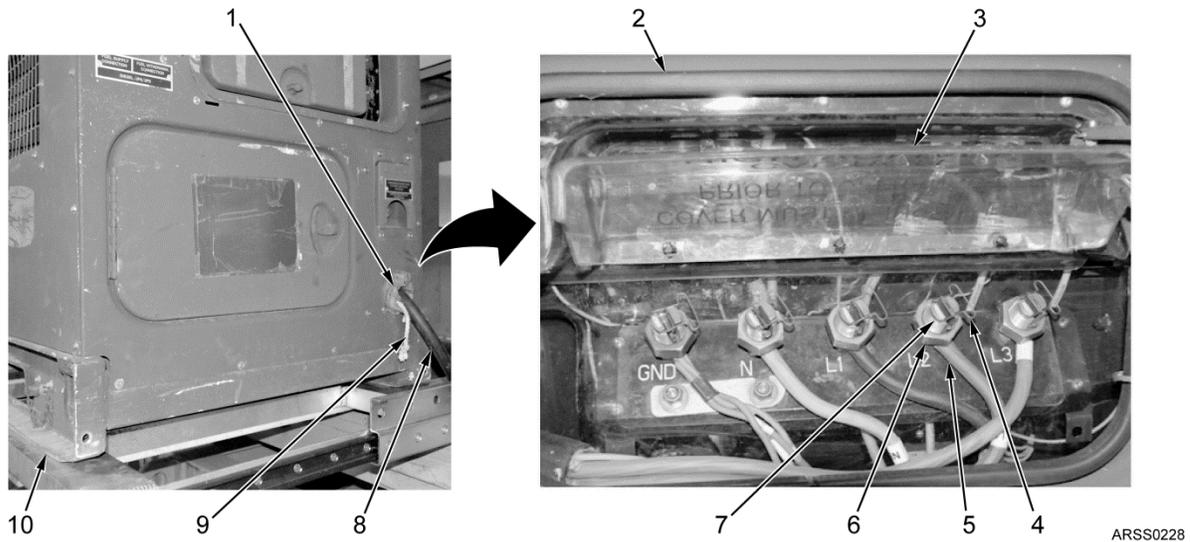


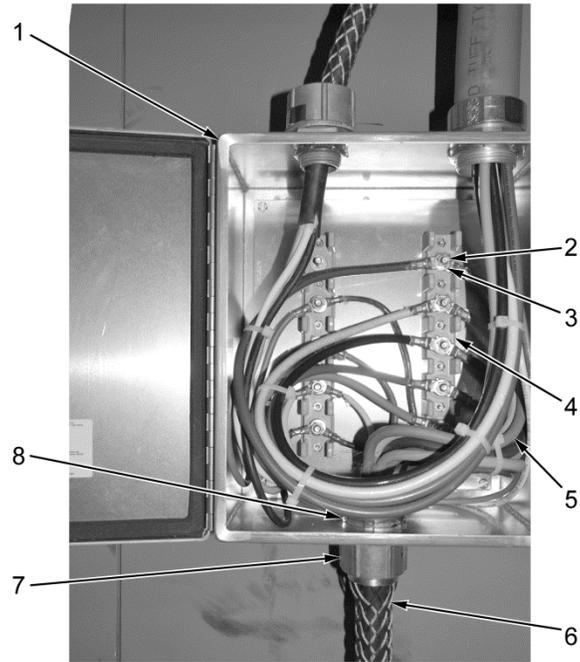
Figure 4. ECU Power Cable Installation.

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)

Materials/Parts

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

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

Personnel Required (cont.)

Non-Specific MOS (2)

References

WP 0010

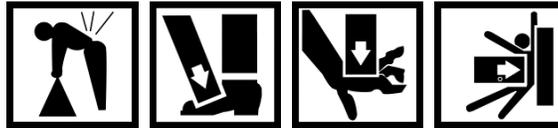
Equipment Condition

Generator removed (WP 0030)

REMOVAL

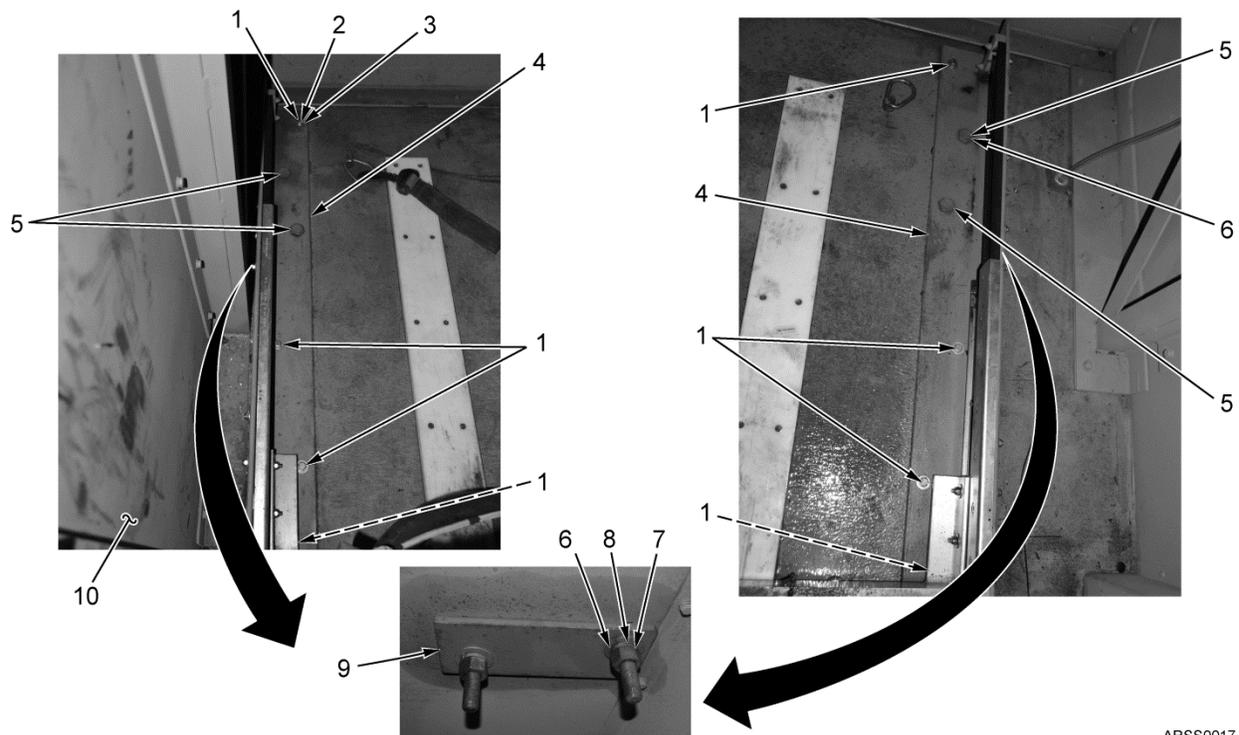
1. Remove four nuts (Figure 1, Item 7), lockwashers (Figure 1, Item 8), eight flat washers (Figure 1, Item 6), two plates (Figure 1, Item 9), and four bolts (Figure 1, Item 5) from generator slide (Figure 1, Item 4). Discard lockwashers.

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.



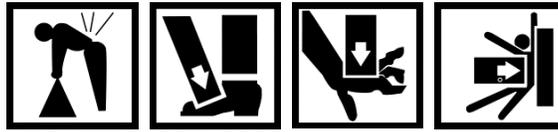
ARSS0017

Figure 1. Generator Slide Removal.

END OF TASK

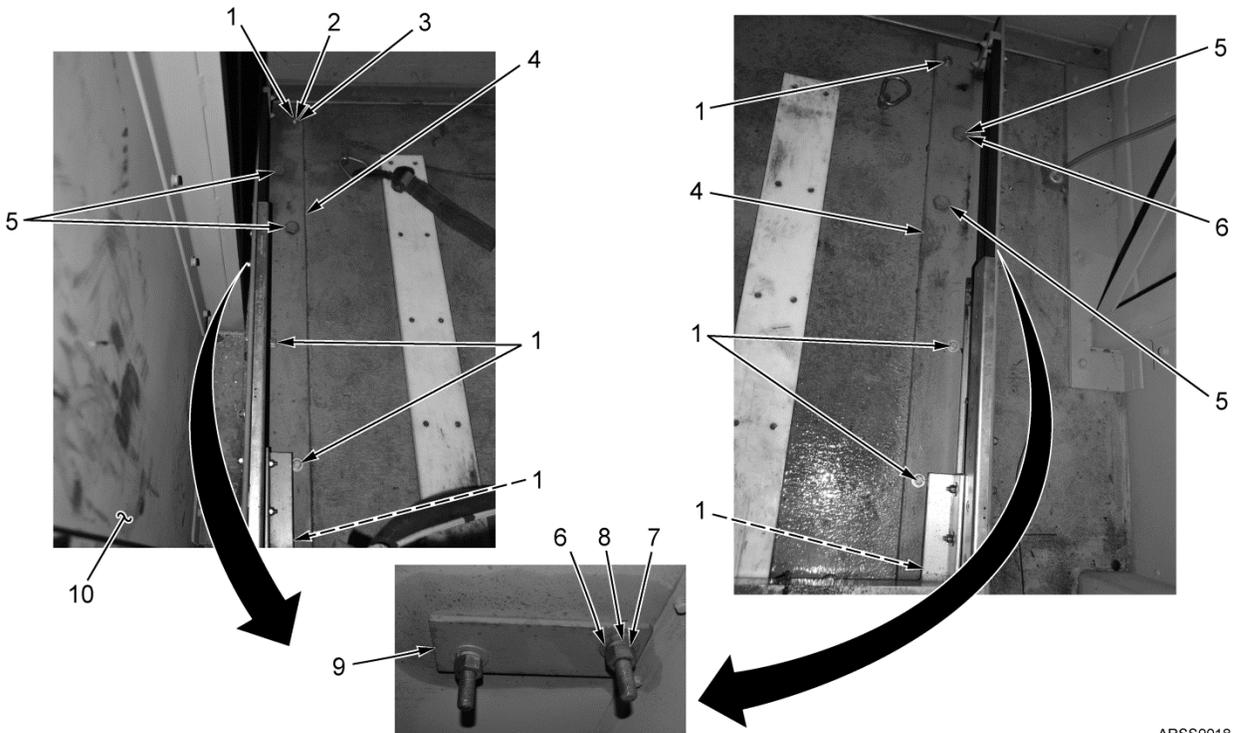
INSTALLATION

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

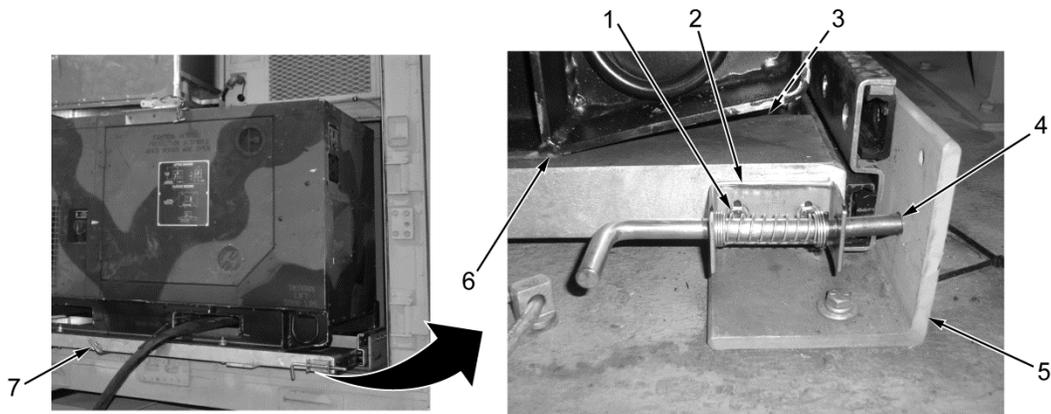
Figure 1. Generator Slide Latch Replacement.

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

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

Materials/Parts (cont.)

Rivet, Blind (WP 0096, Item 17)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

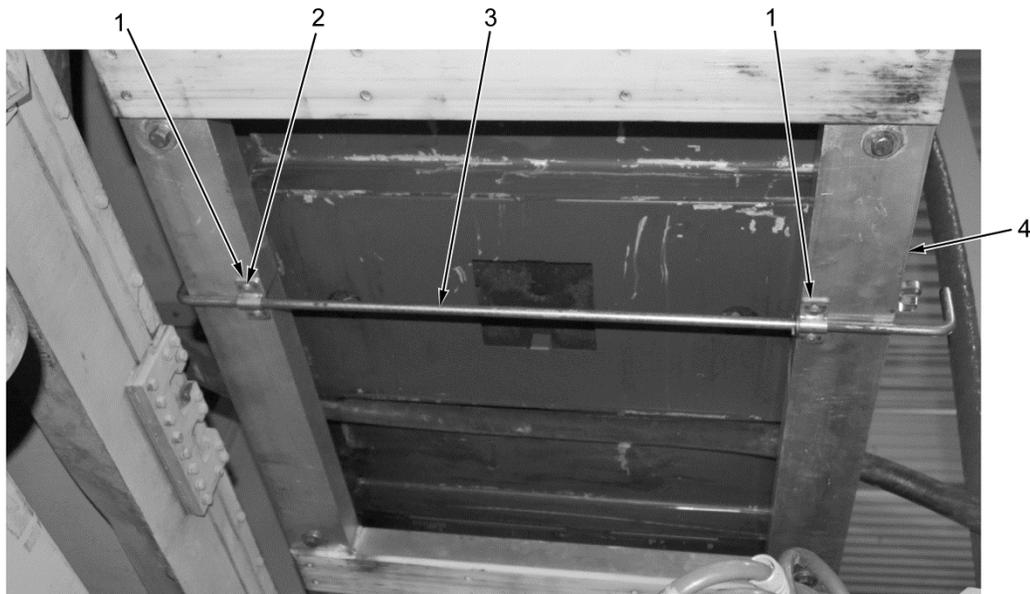
Equipment Condition

Generator extended (WP 0010)

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**

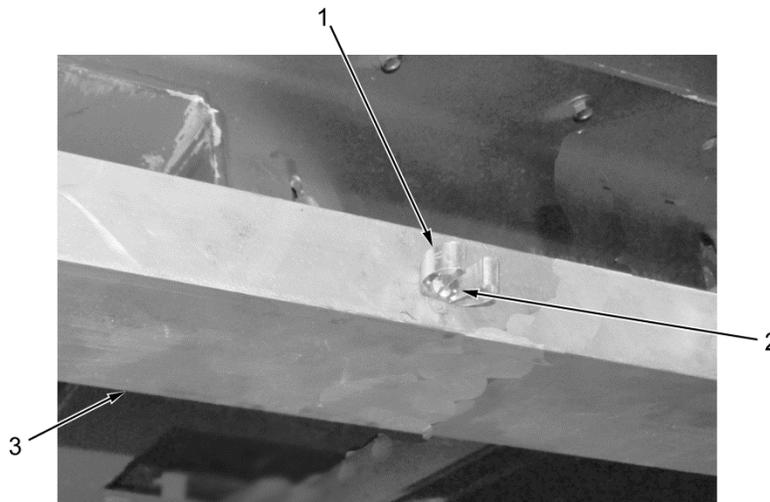
If storage clip is damaged, perform Step 2.

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).

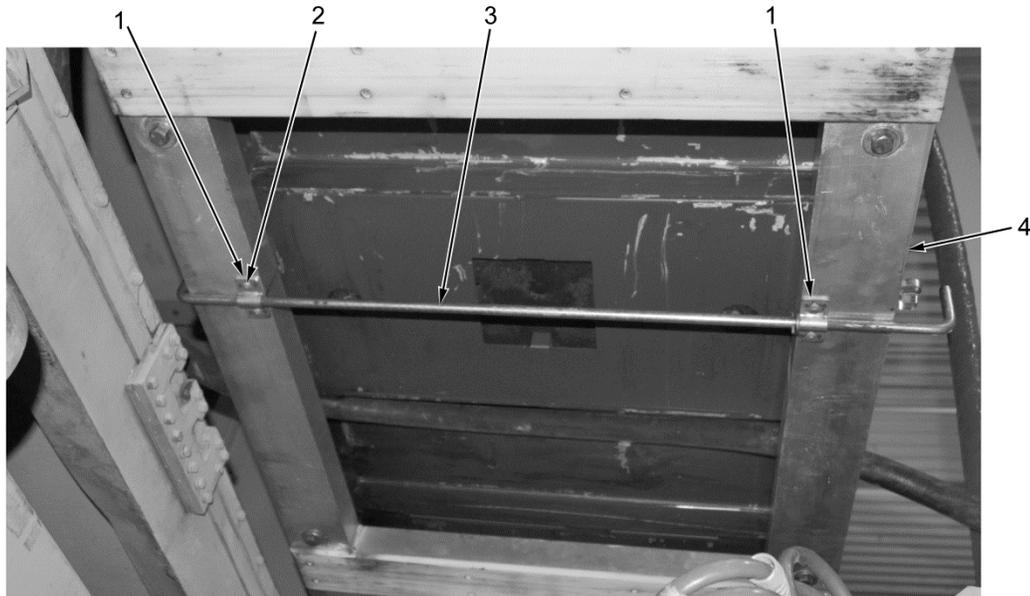


ARSS0125

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)

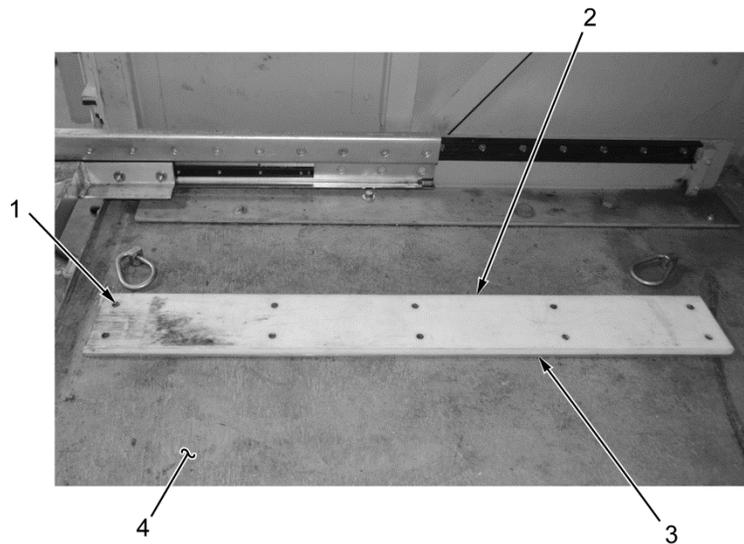
REMOVAL**NOTE**

- 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



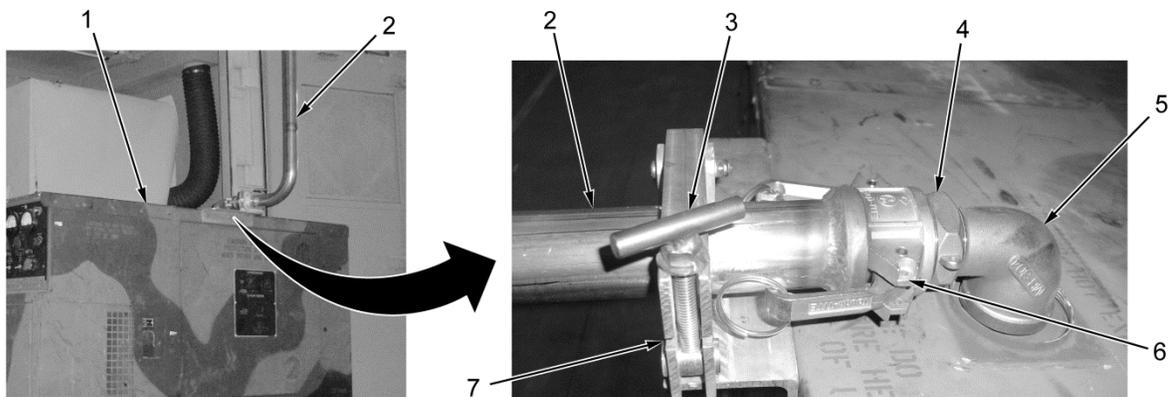
Allow generator to cool before operating or performing maintenance on exhaust pipe. Hot components may burn personnel. Failure to follow this warning may cause injury.

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).



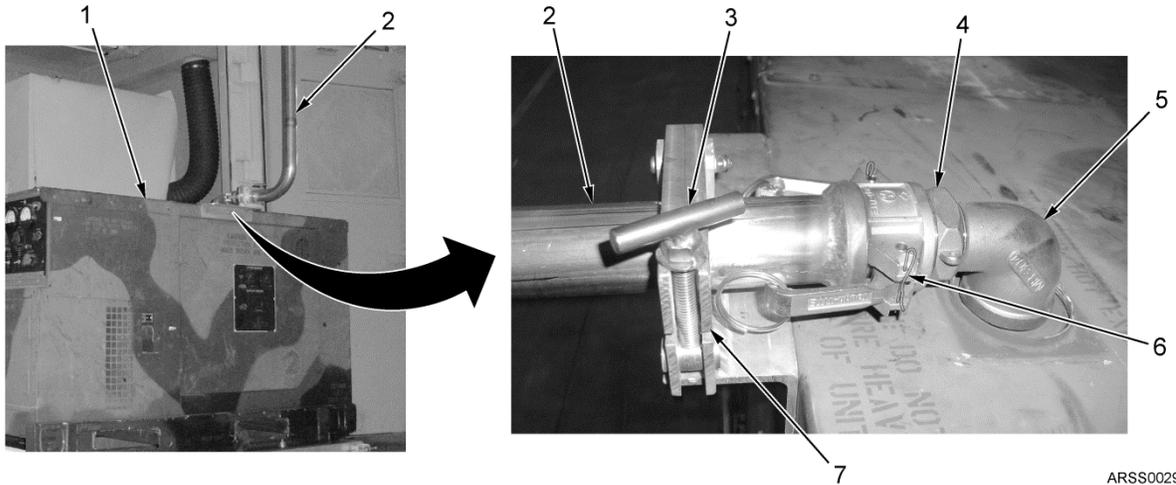
ARSS0028

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).



ARSS0029

Figure 2. Exhaust Clamp Installation.

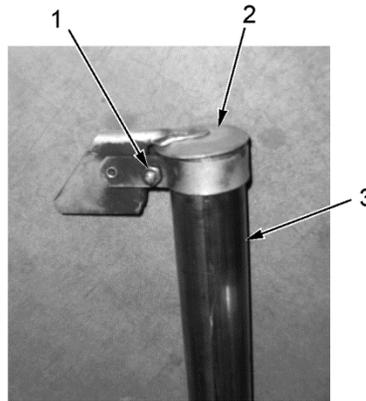
END OF TASK

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

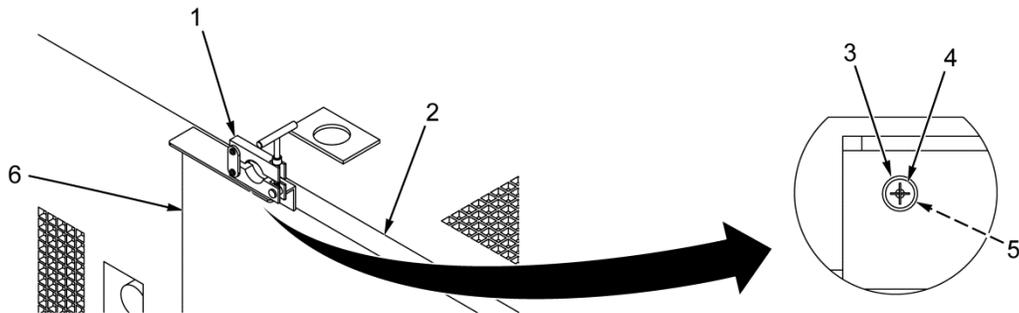
REMOVAL

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

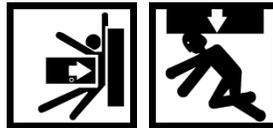
WARNING



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.

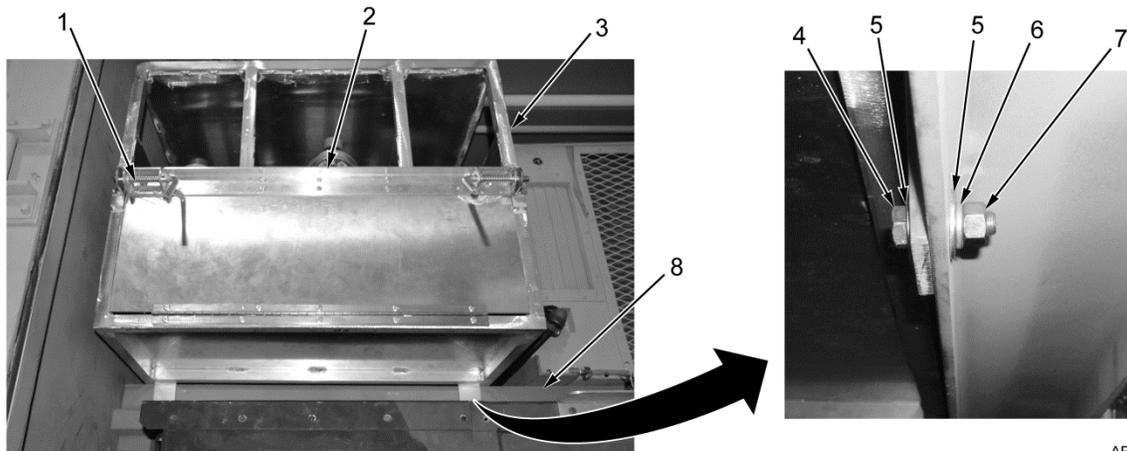
1. Release two spring latches (Figure 1, Item 1), open panel (Figure 1, Item 2) and empty contents from storage rack (Figure 1, Item 3).
2. Close panel (Figure 1, Item 2) and secure two spring latches (Figure 1, Item 1).
3. Extend generator (WP 0010).

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).



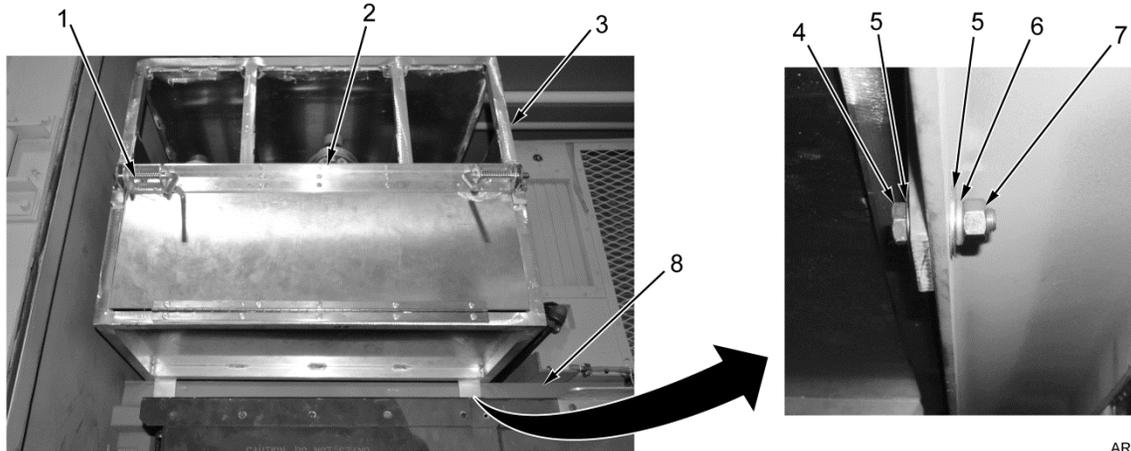
ARSS0057

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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0090

Equipment Condition

ARSS shelter expanded (WP 0005)

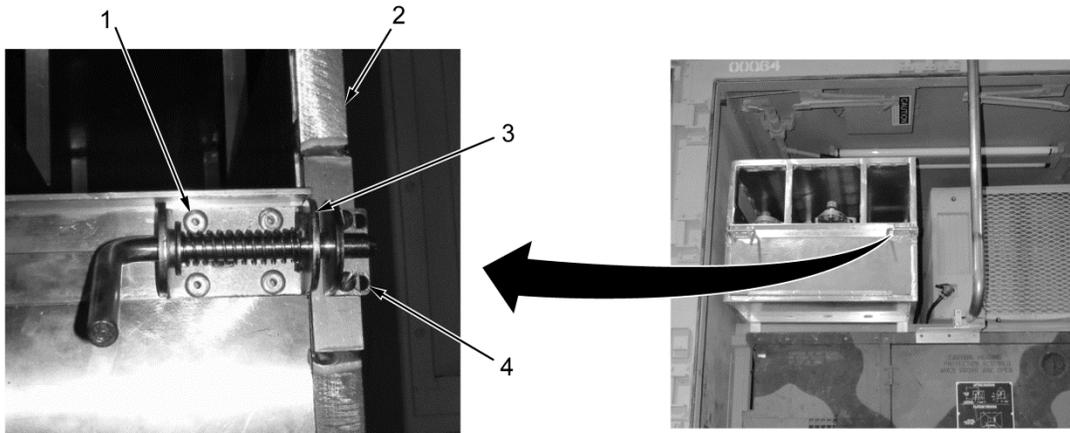
REMOVAL**NOTE**

- 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)

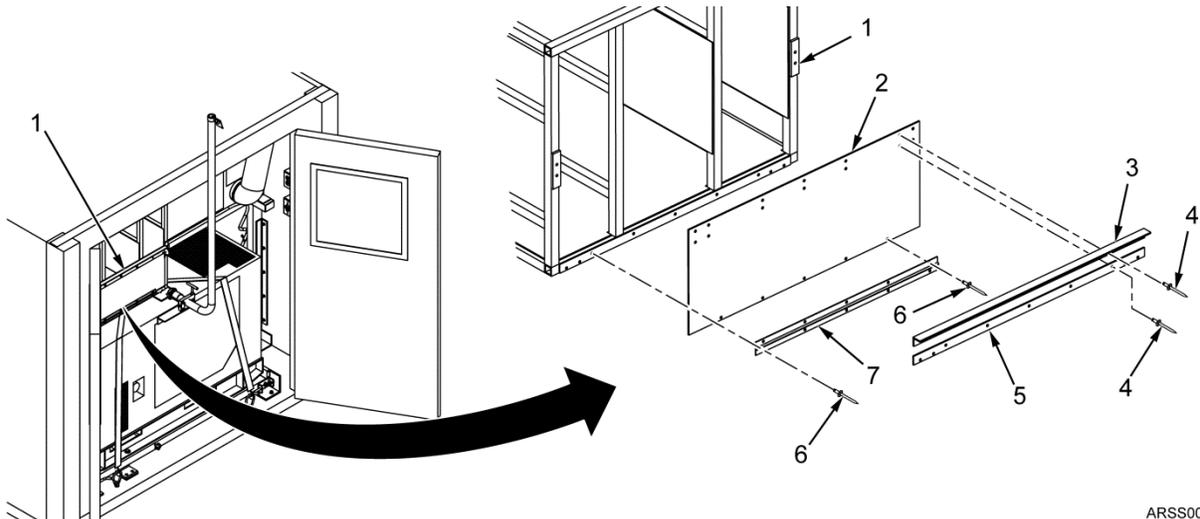
Materials/Parts

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

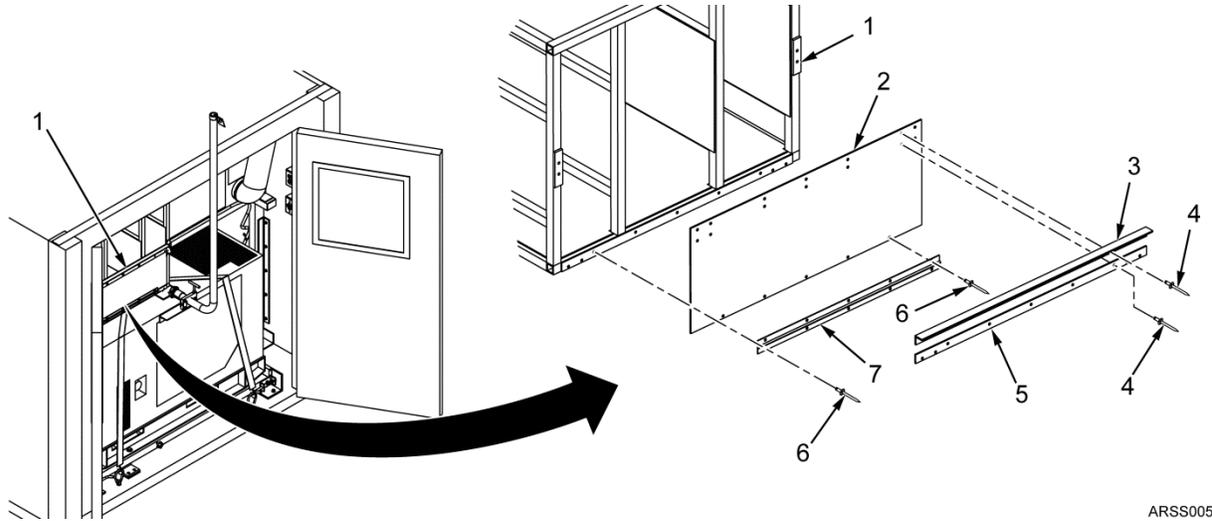
Figure 1. Storage Rack Door and Hinge Removal.

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)

Materials/Parts

Terminal Kit, Electrical (WP 0123, Item 8)

Personnel Required

Wheeled Vehicle Mechanic - 91B

References

WP 0091

Equipment Condition

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

WARNING

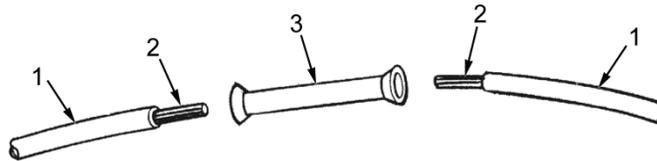
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning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

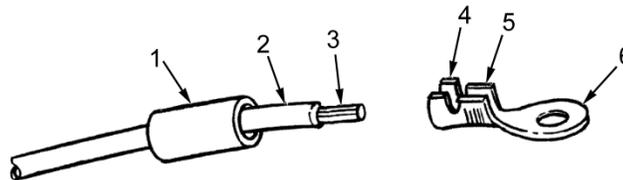
DO NOT touch heat-shrinkable tubing for at least 30 seconds after heating. Heat-shrinkable tubing is hot and may cause burns. Failure to follow this warning may result in injury.

- 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.

- 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.
- 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).
- Slide tubing (Figure 2, Item 1) back on wire (Figure 2, Item 2).
- Using wire stripping tool, strip insulation from wire (Figure 2, Item 2) to expose proper length of metal strands (Figure 2, Item 3).
- 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).
- Using crimping tool, crimp tabs (Figure 2, Item 4) of ring terminal (Figure 2, Item 6) over insulation of wire (Figure 2, Item 2).
- Slide tubing (Figure 2, Item 1) over tabs (Figure 2, Items 4 and 5) of ring terminal (Figure 2, Item 6).
- 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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

Personnel Required (cont.)

Non-Specific MOS

References

FO-1

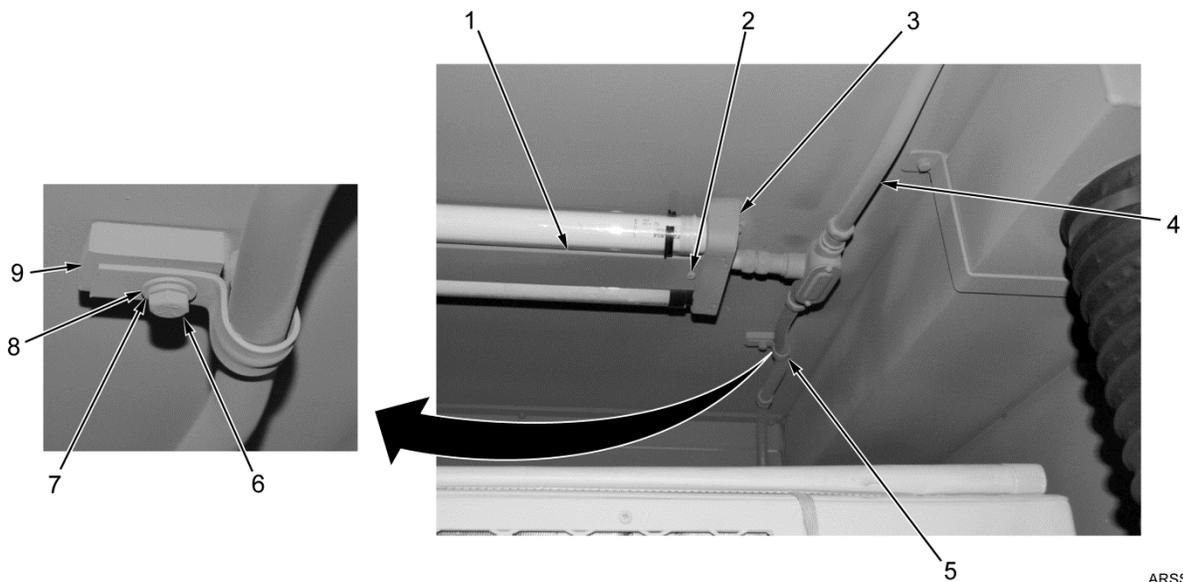
Equipment Condition

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.

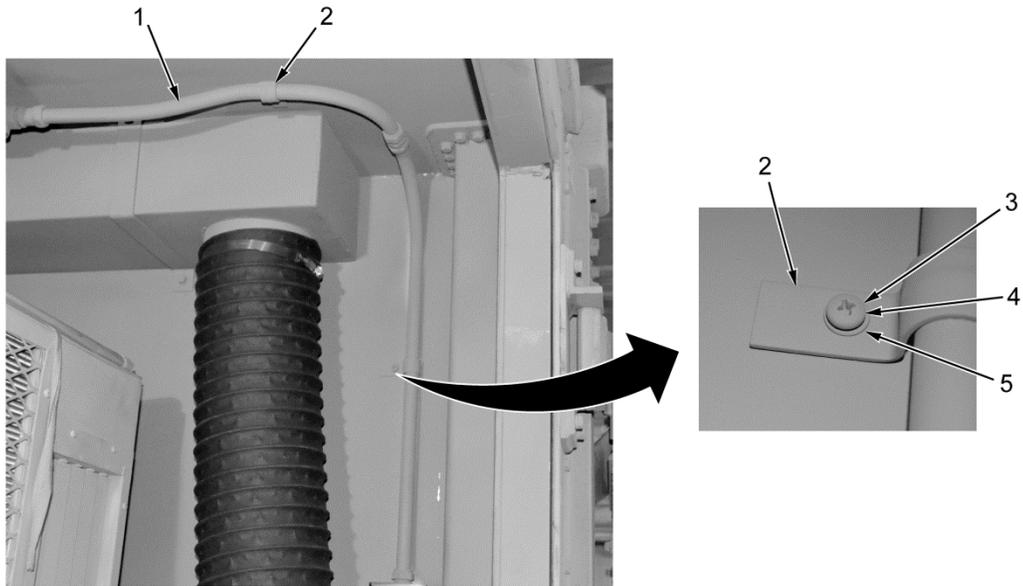


ARSS0178

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).

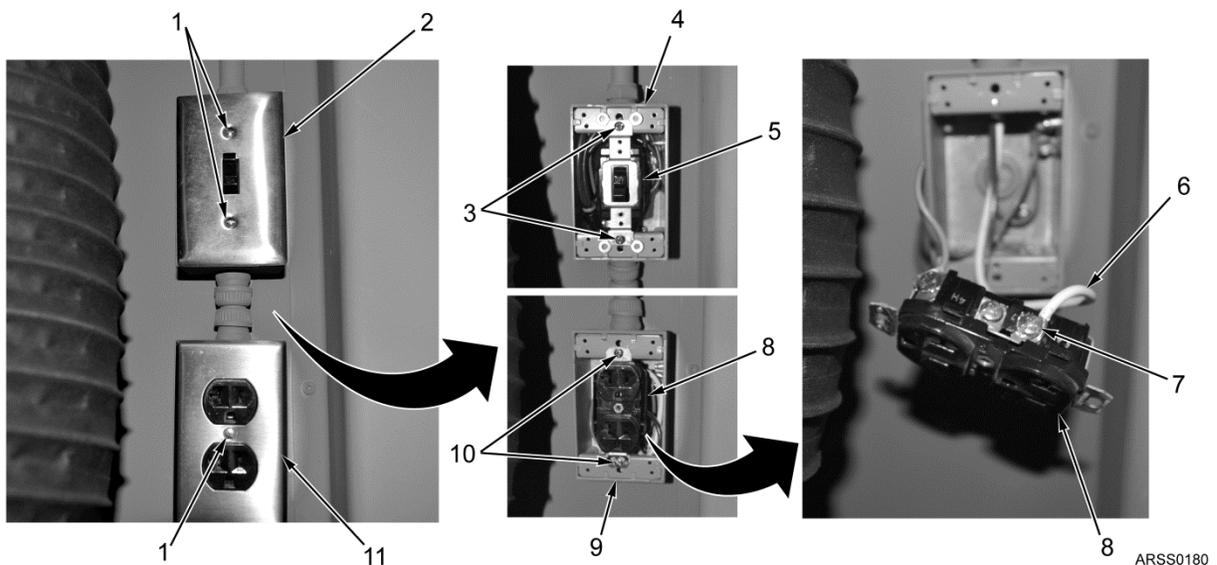
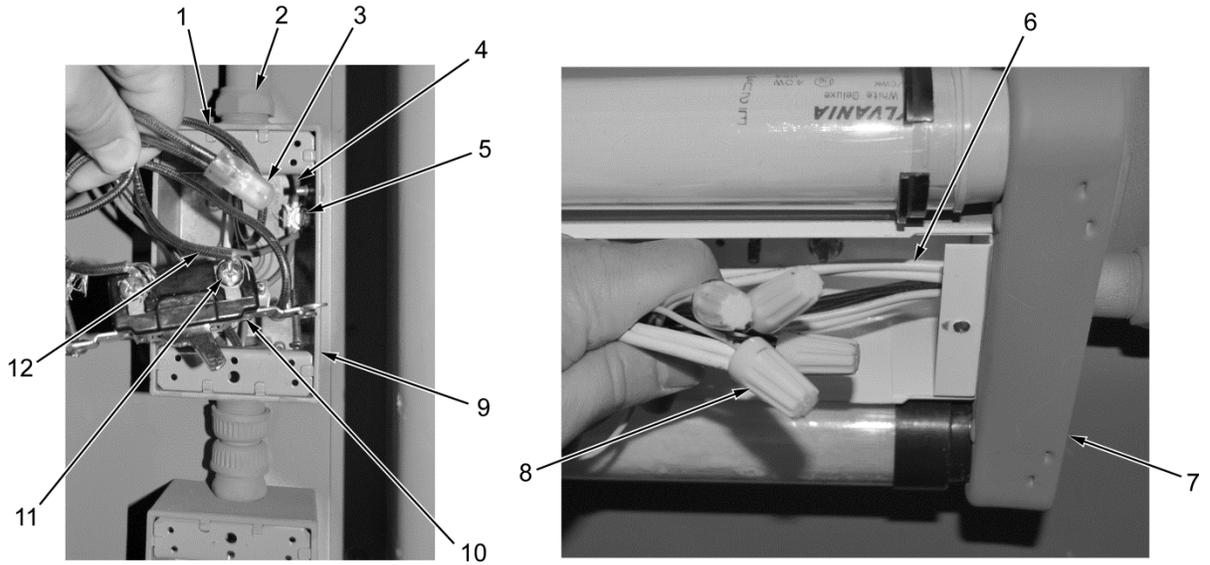


Figure 3. Light Switch and Outlet Cover Removal.

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).

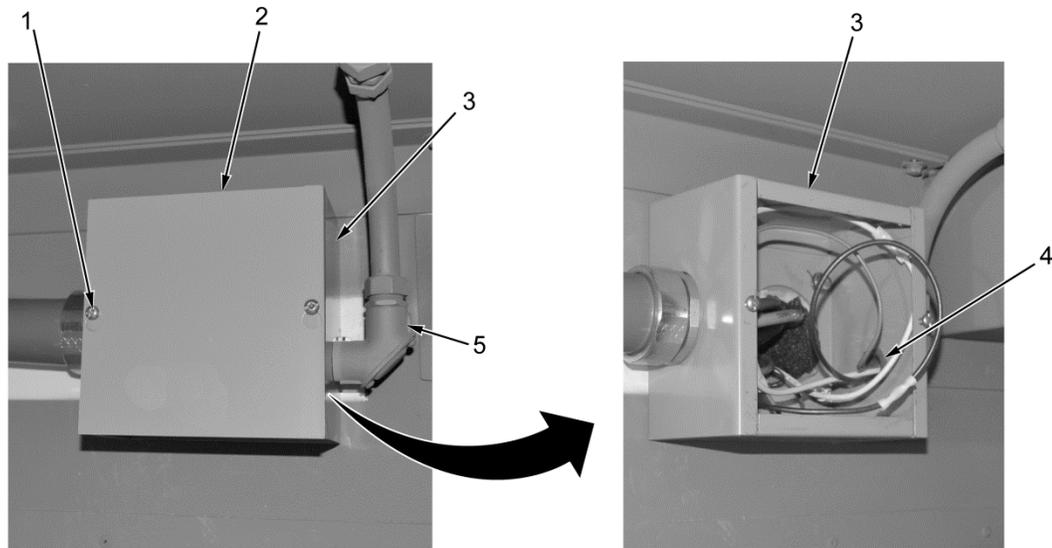
REMOVAL - Continued



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).



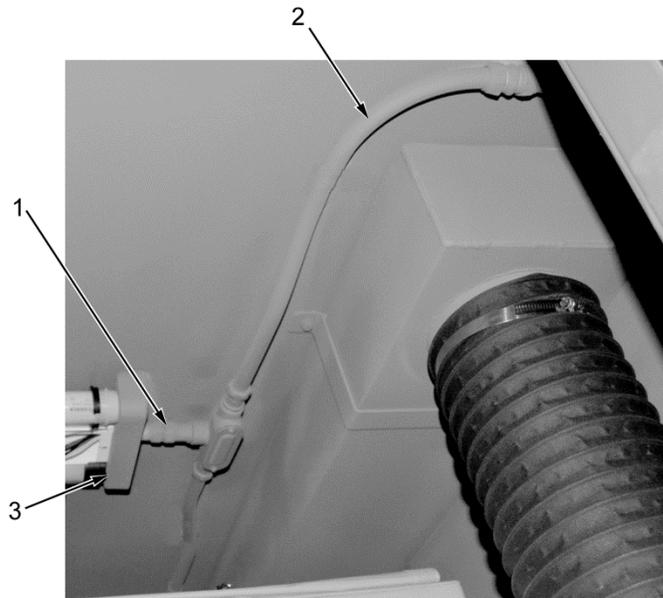
ARSS0182

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

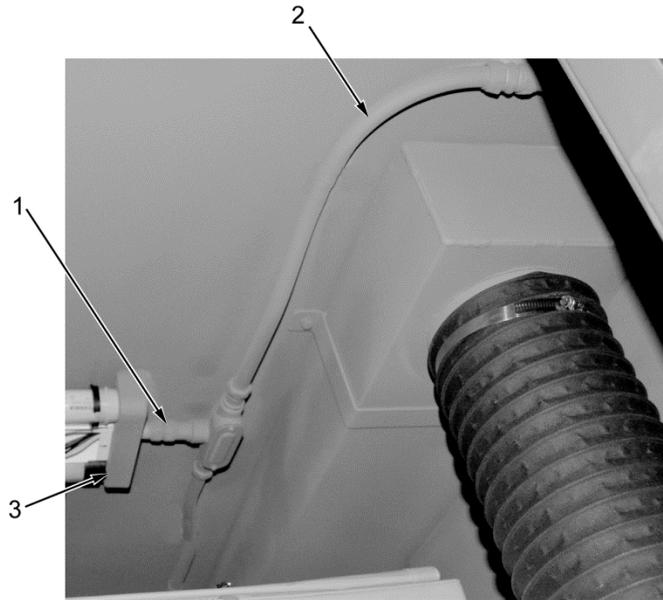
Figure 6. EMT Conduit Removal.

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).

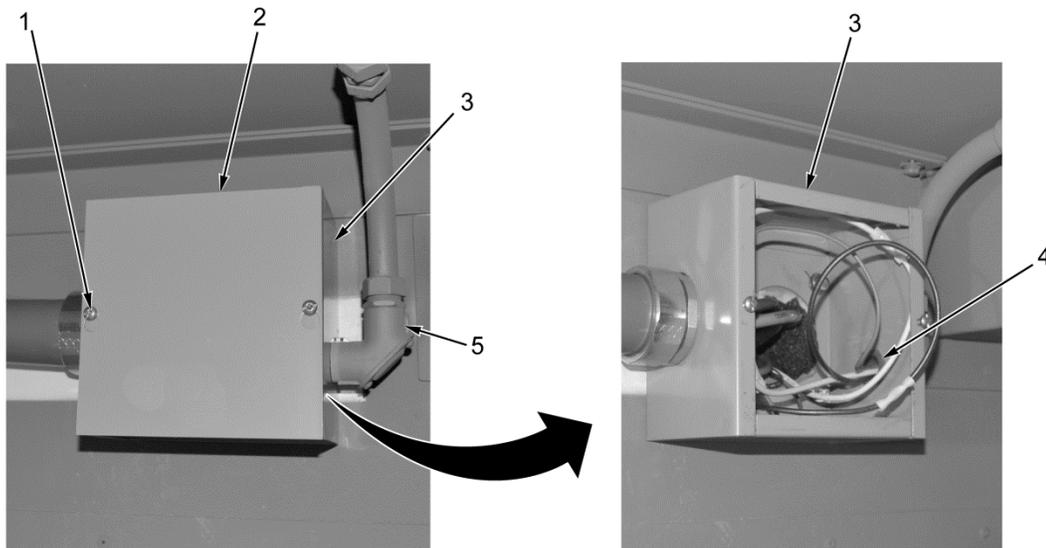
INSTALLATION - Continued



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).

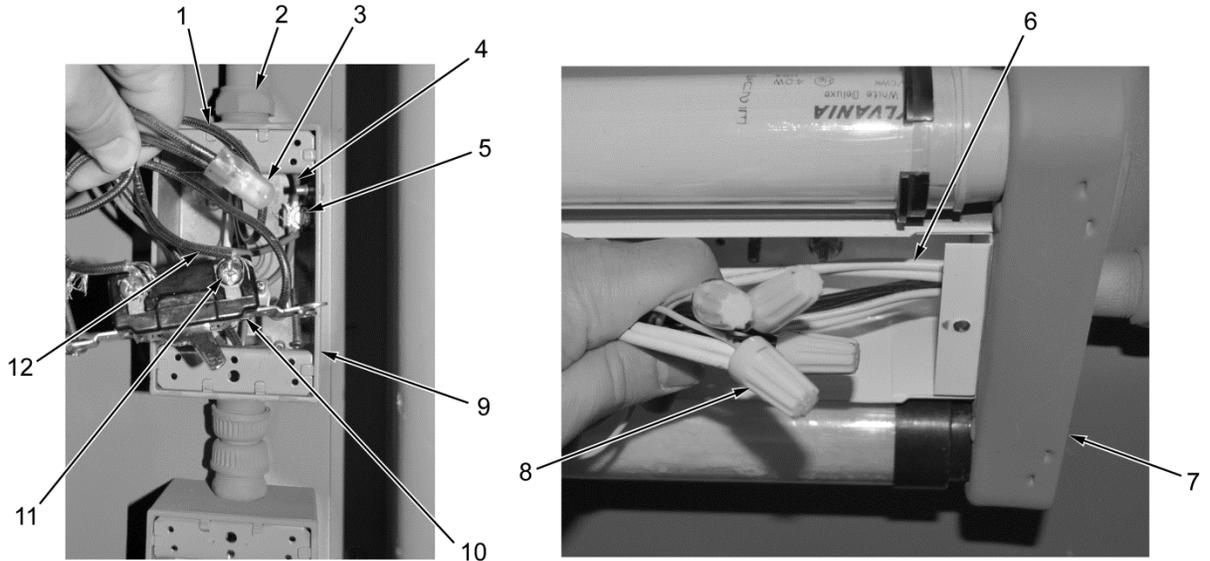


ARSS0185

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

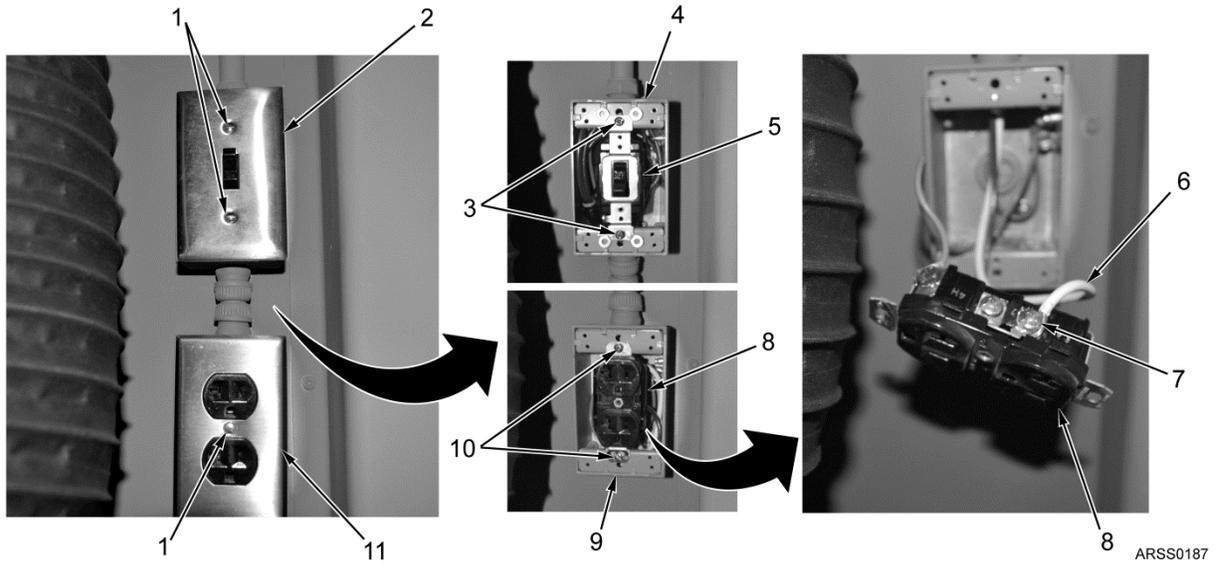


Figure 10. Light Switch and Outlet Cover Installation.

- 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).

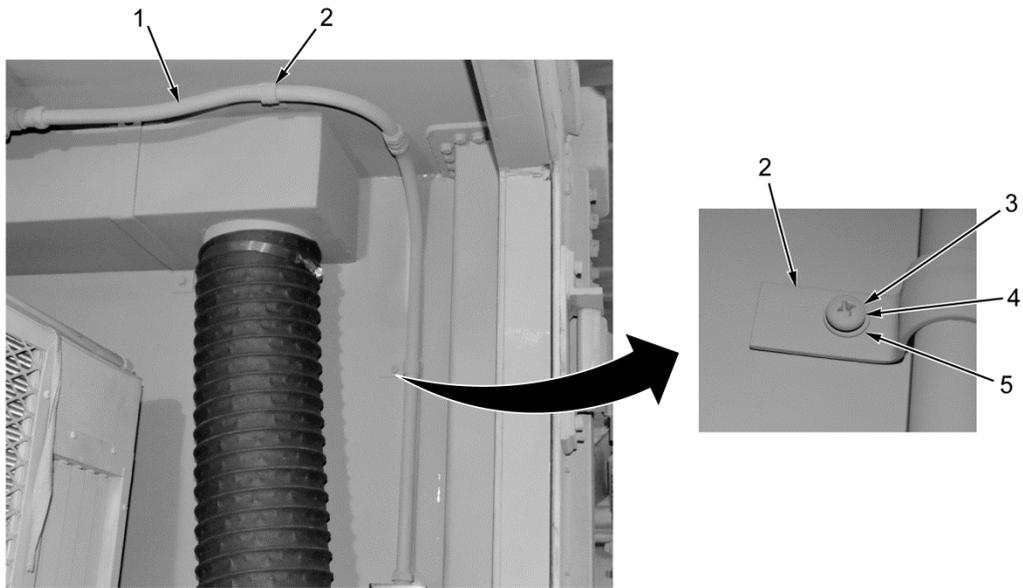
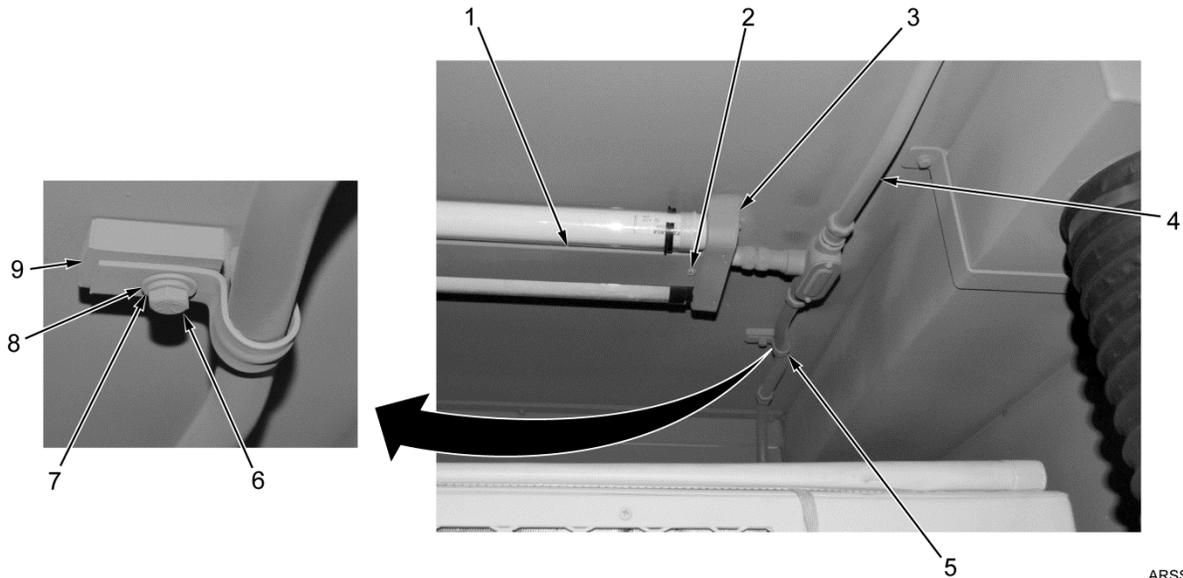


Figure 11. EMT Conduit Clamps Installation.

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).



ARSS0178

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)

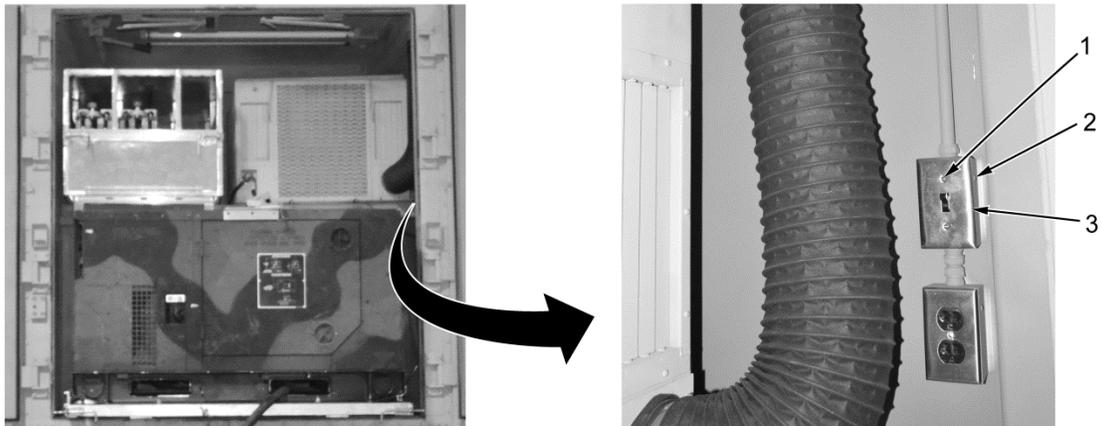
REMOVAL

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.

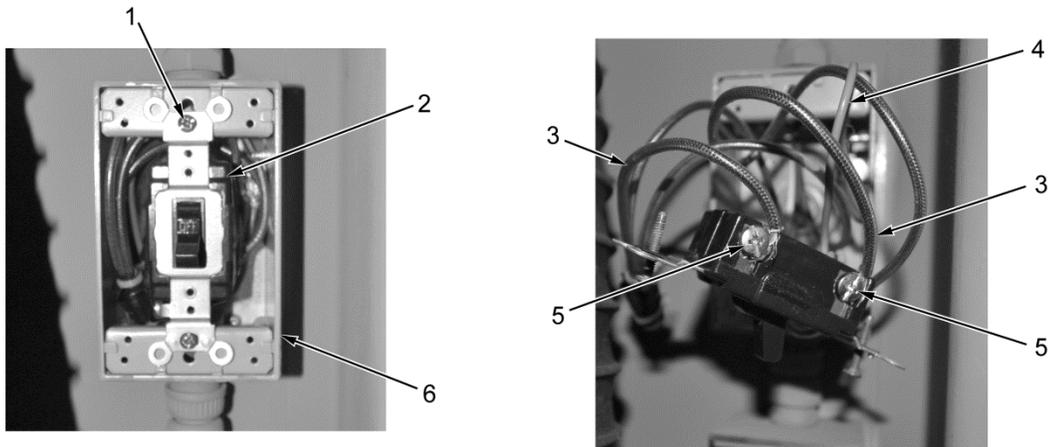
REMOVAL - Continued

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).



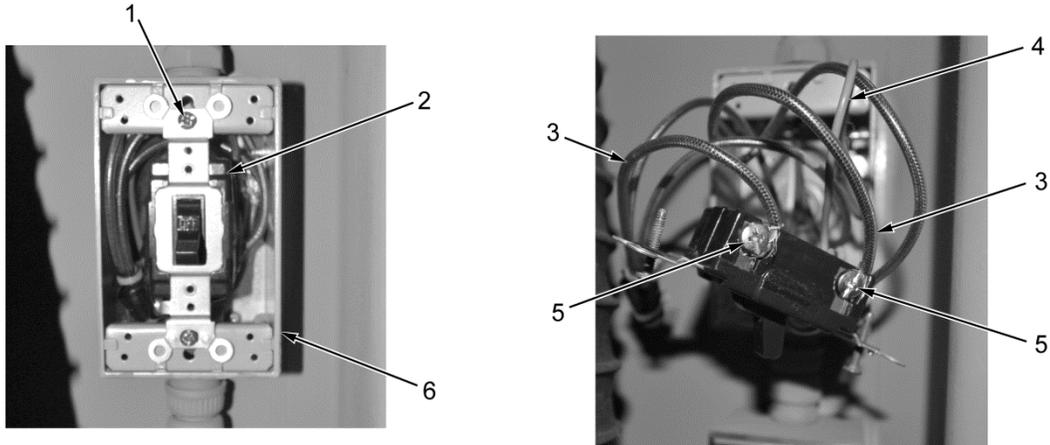
ARSS0165

Figure 2. Light Switch Removal.

END OF TASK

INSTALLATION

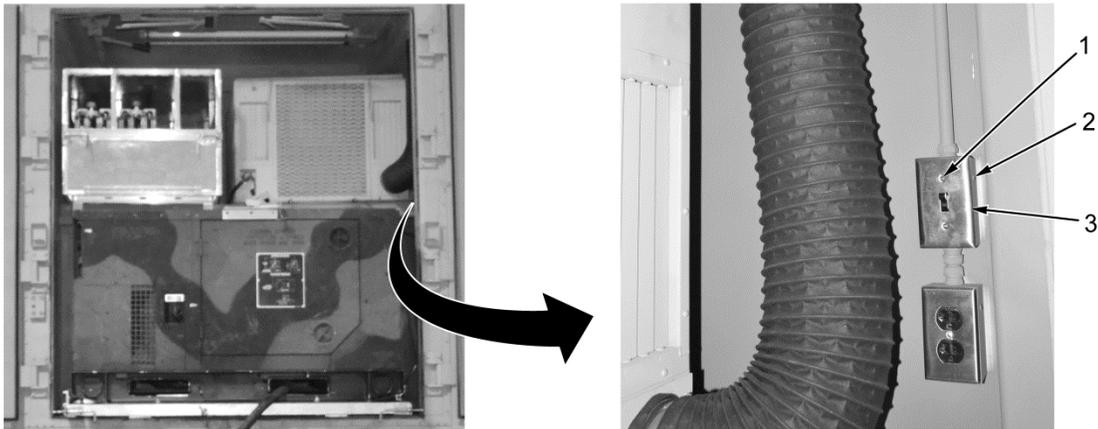
1. Install two wires (Figure 3, Item 3), ground wire (Figure 3, Item 4), and tighten three screws (Figure 3, Item 5) on light switch (Figure 3, Item 2).
2. Install light switch (Figure 3, Item 2) and two screws (Figure 3, Item 1) on outlet box (Figure 3, Item 6).



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)

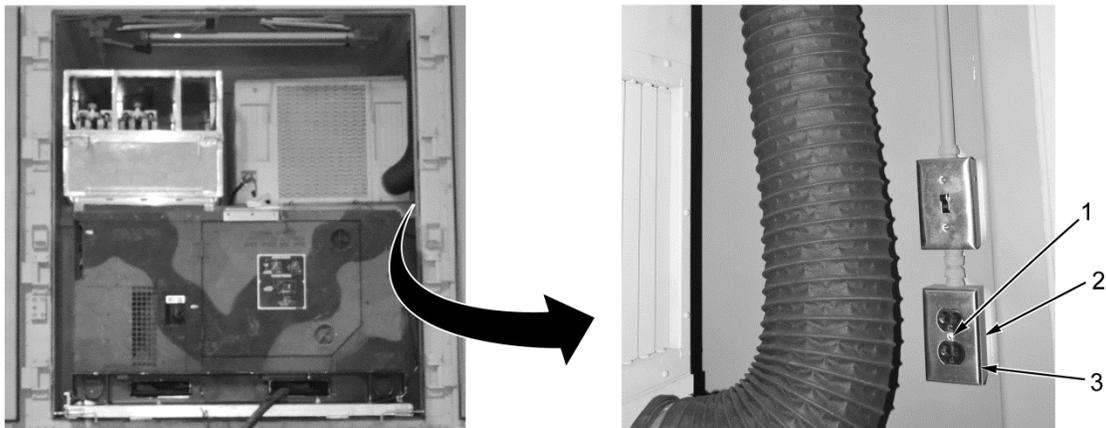
REMOVAL

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.

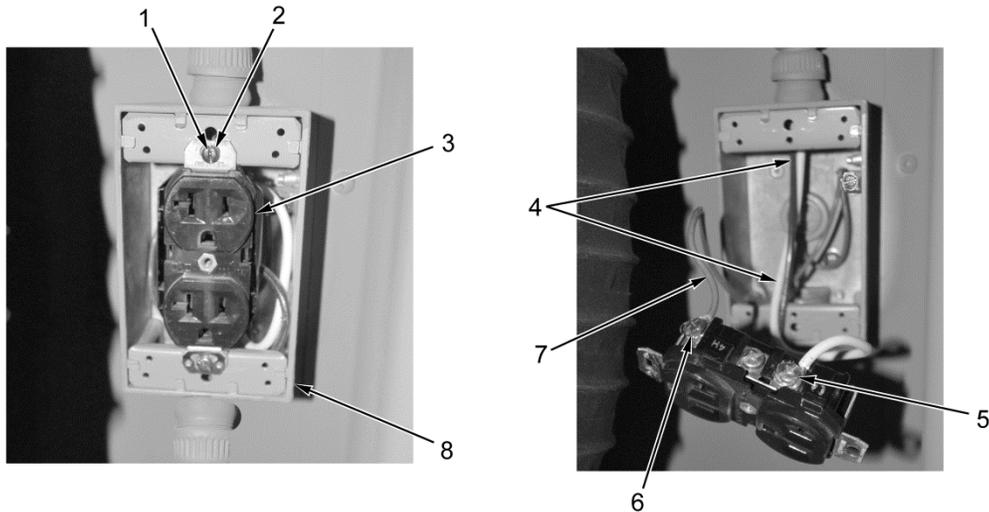
REMOVAL - Continued

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).



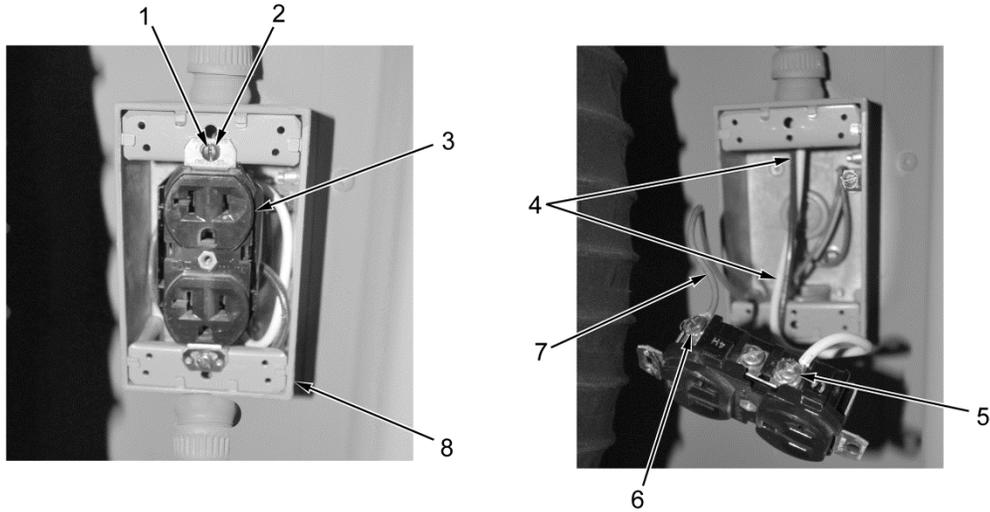
ARSS0160

Figure 2. Outlet Removal.

END OF TASK

INSTALLATION

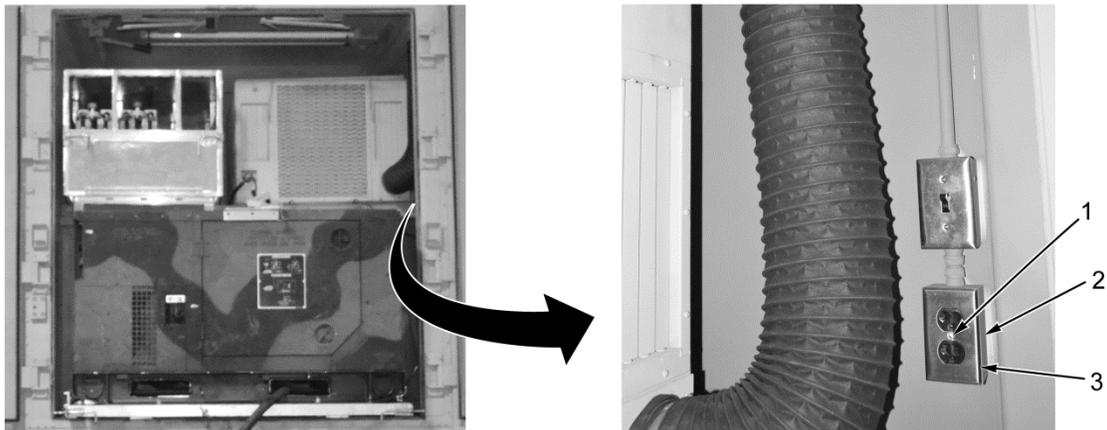
1. Install two wires (Figure 3, Item 4) and tighten screws (Figure 3, Item 5) on outlet (Figure 3, Item 3).
2. Install ground wire (Figure 3, Item 7) and tighten screw (Figure 3, Item 6) on outlet (Figure 3, Item 3).
3. Install outlet (Figure 3, Item 3), two flat washers (Figure 3, Item 2), and screws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

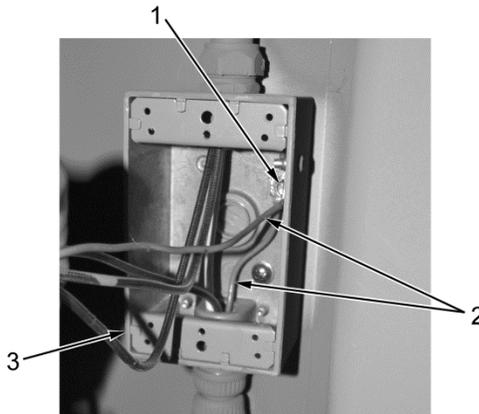
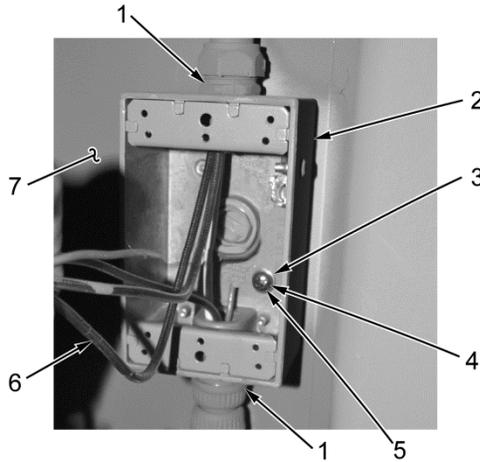


Figure 1. Ground Wires Removal.

ARSS0166

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.

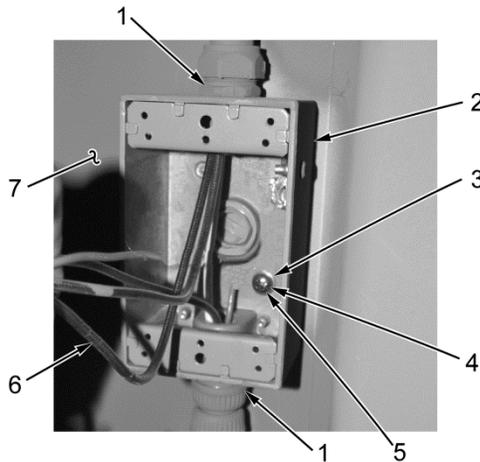


ARSS0169

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).

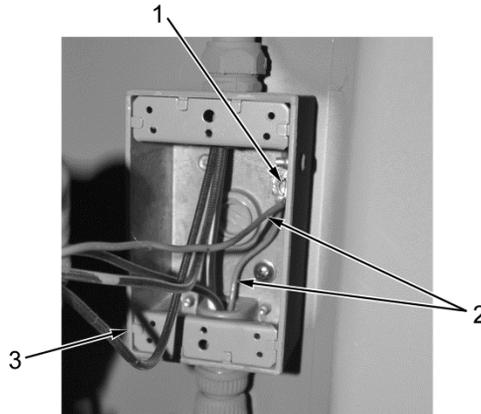


ARSS0170

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).

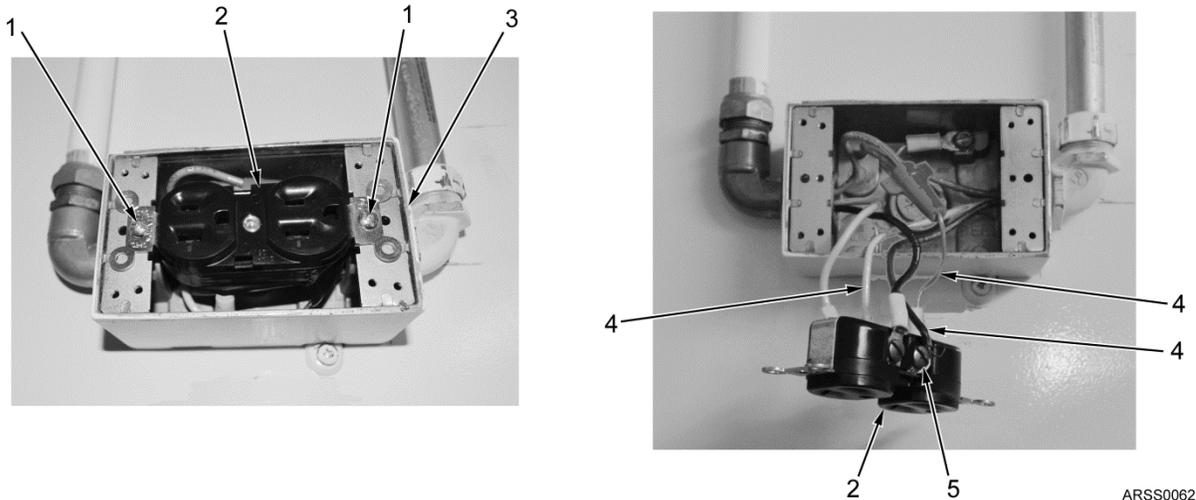


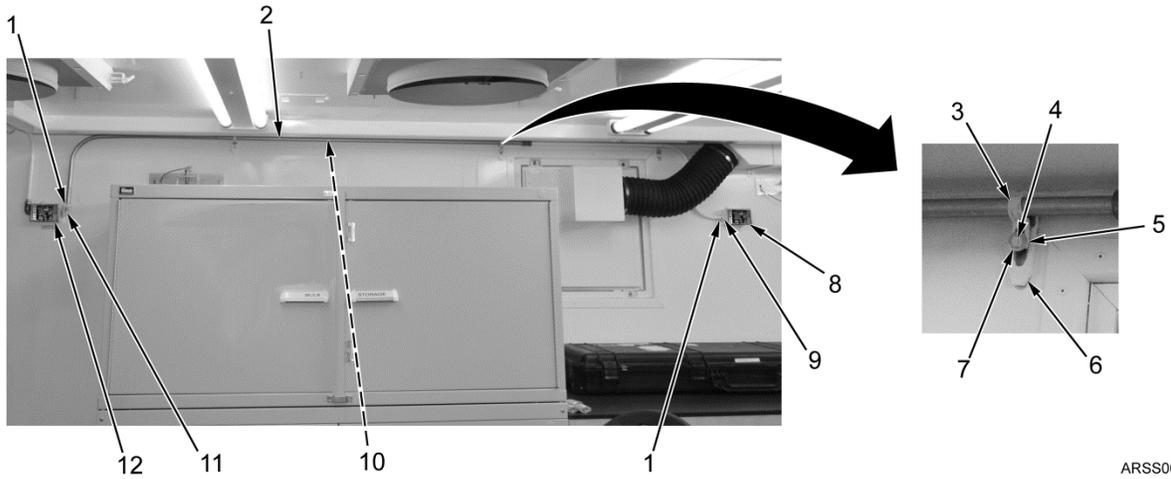
Figure 2. Outlet Removal.

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



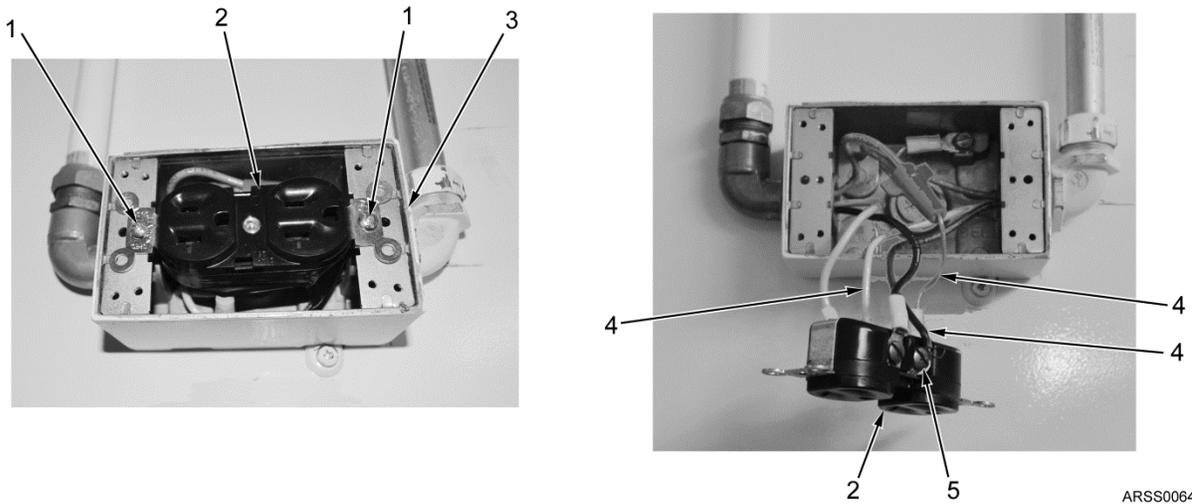
ARSS0063

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)

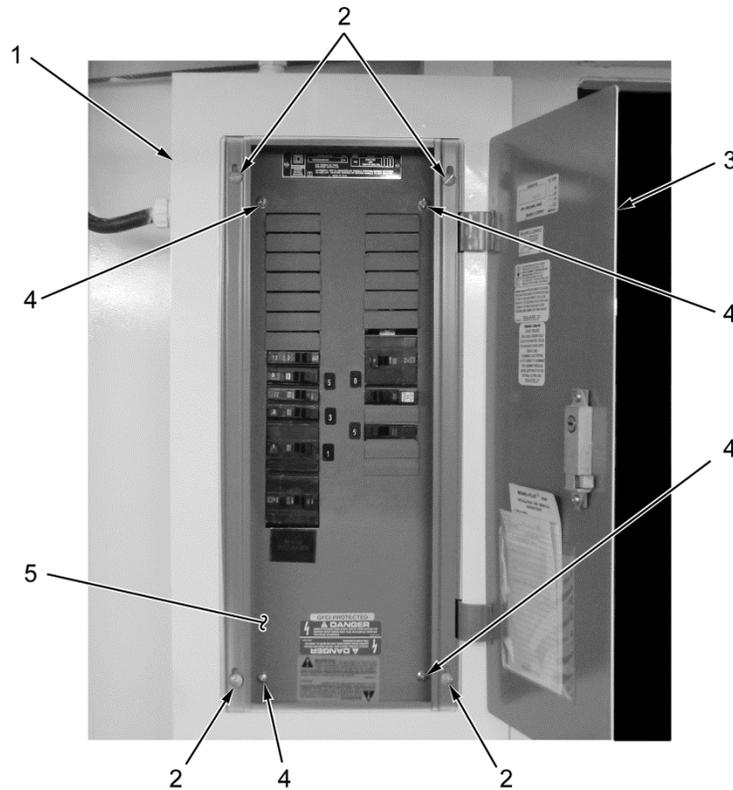
Personnel Required

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).



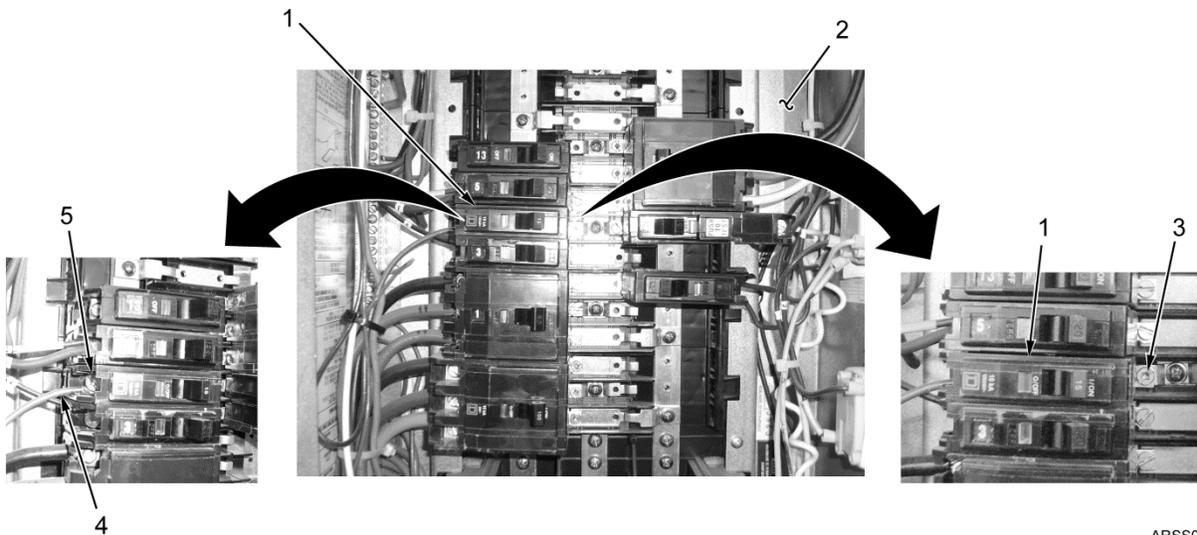
ARSS0001

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).

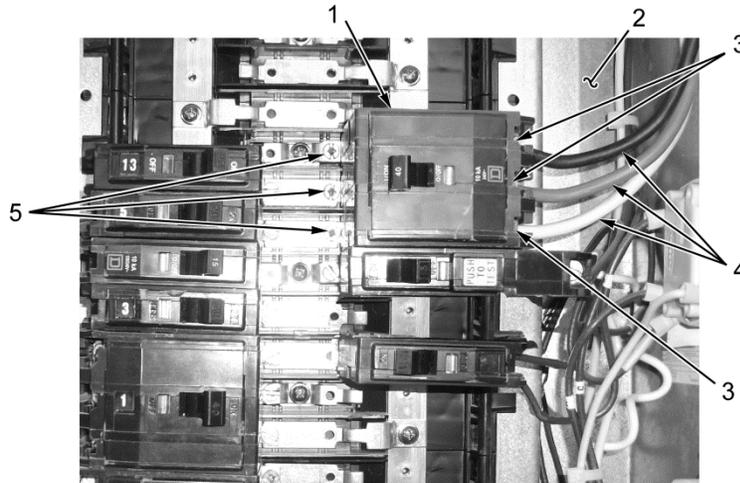


ARSS0002

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).



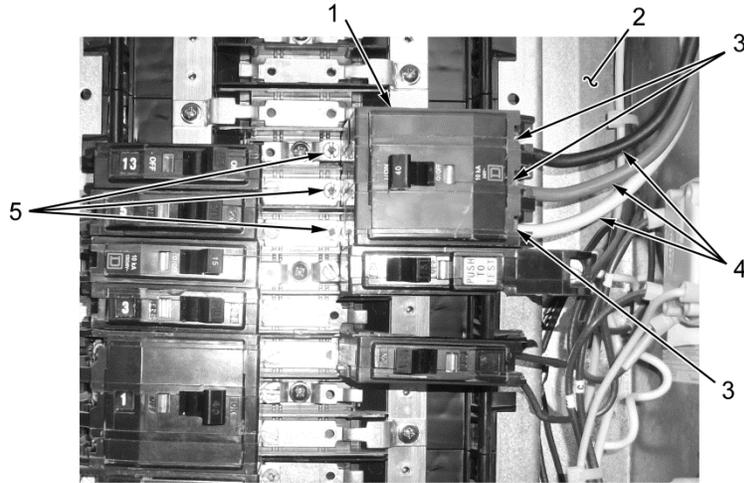
ARSS0005

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).

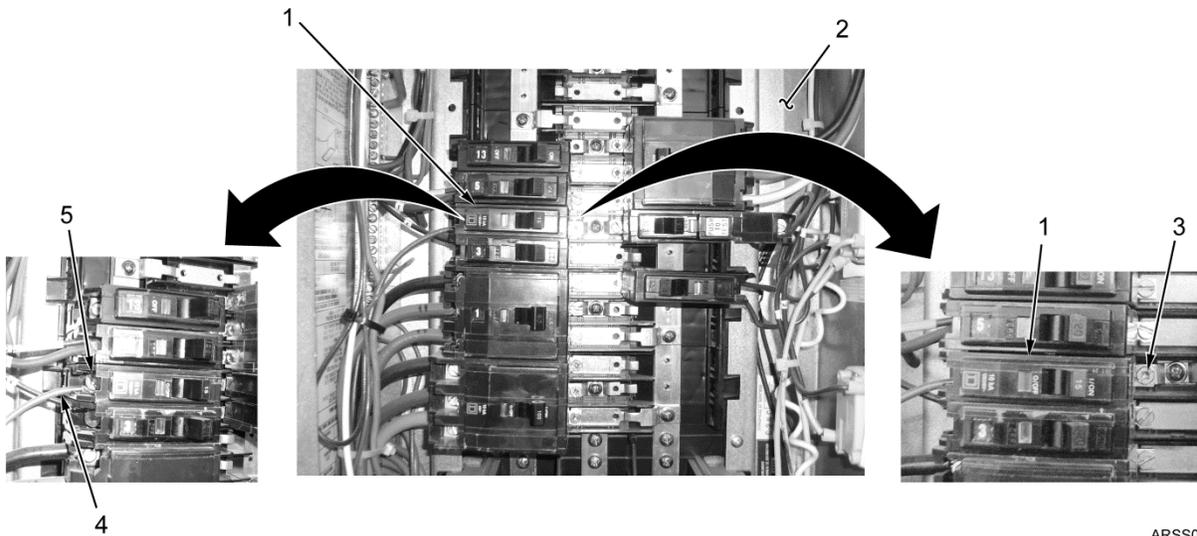
INSTALLATION - Continued



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).

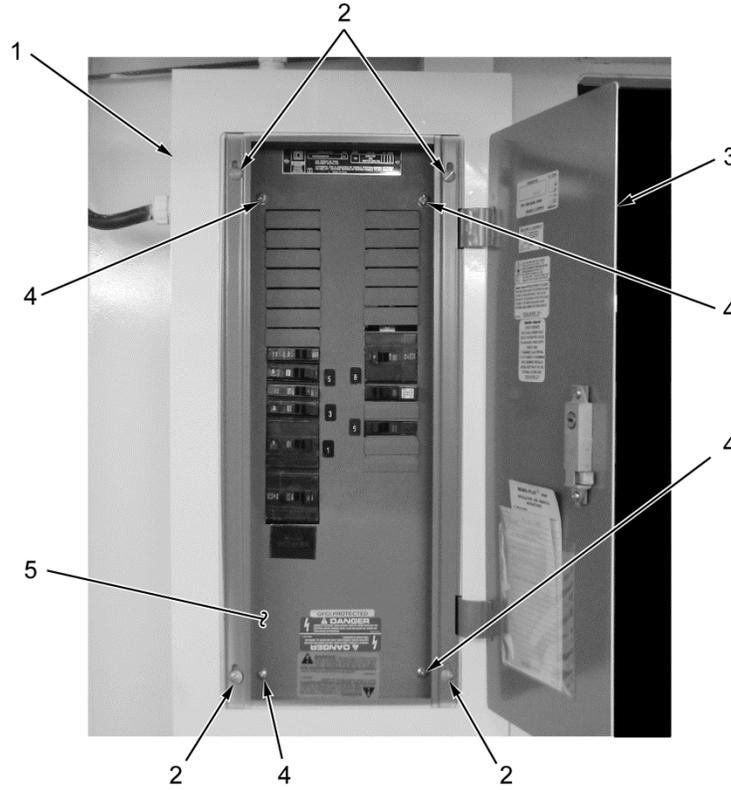


ARSS0003

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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

Personnel Required (cont.)

Non-Specific MOS

Equipment Condition

ARSS shelter expanded (WP 0005)

ARSS power OFF (WP 0009)

REMOVAL**WARNING**

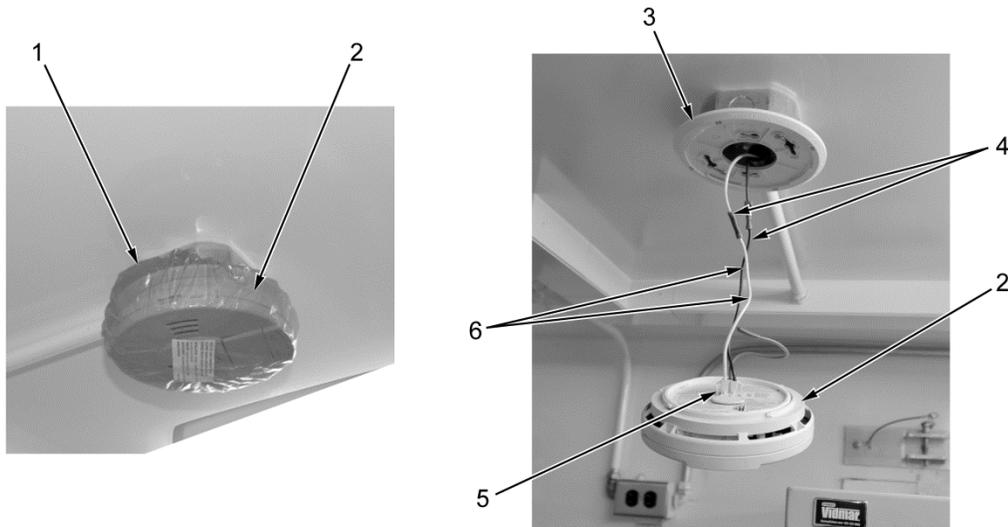
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning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

1. Remove 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

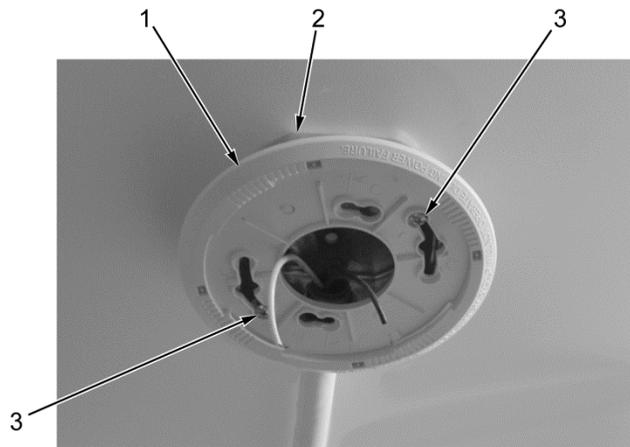
Figure 1. Dust Cover and Smoke Alarm Removal.

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).

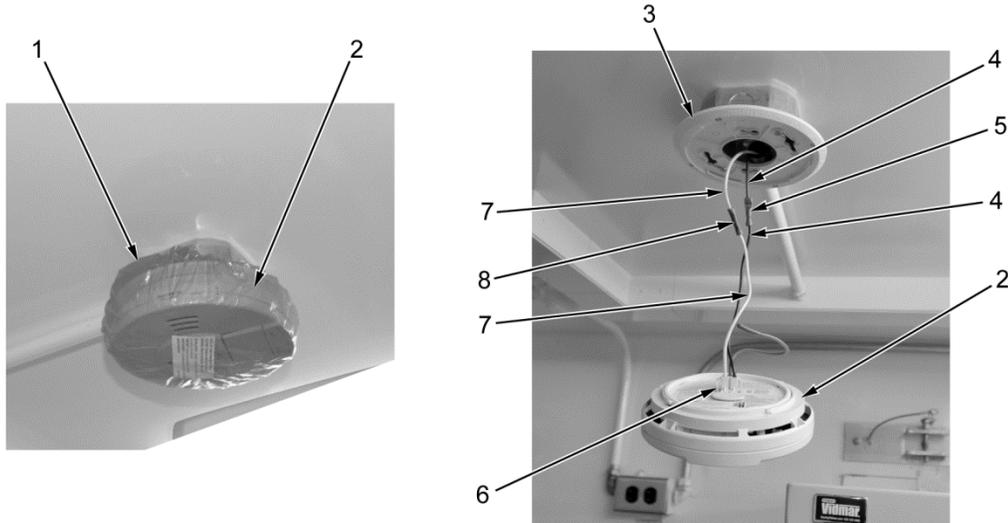


ARSS0199

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)

Materials/Parts

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

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

WP 0090

Equipment Condition

Smoke alarm removed (WP 0049)

REMOVAL**WARNING**

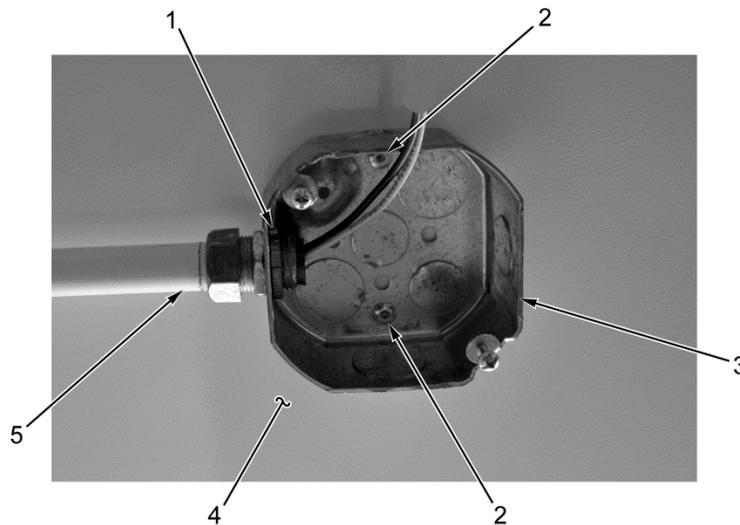
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning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

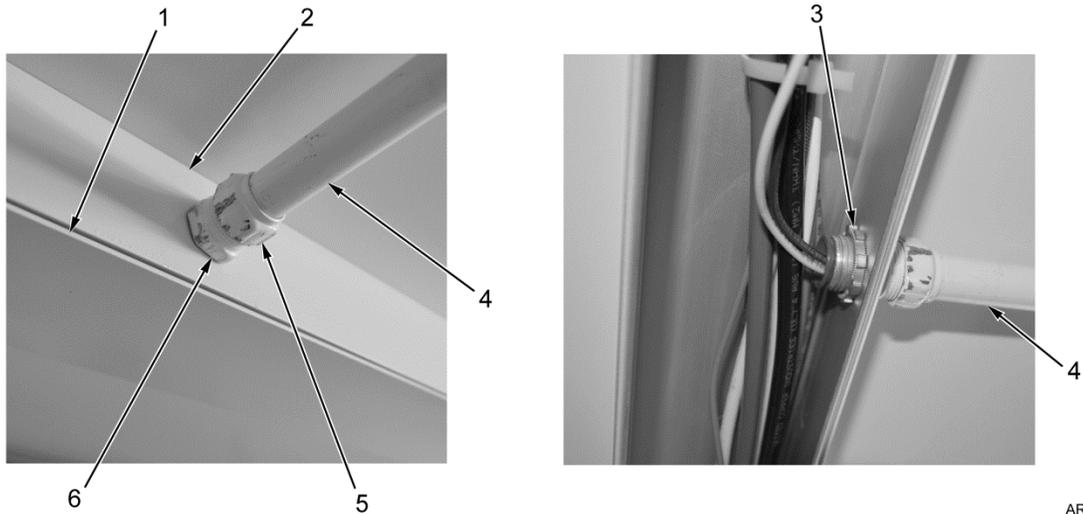
2. Remove two rivets (Figure 1, Item 2) and smoke alarm junction box (Figure 1, Item 3) from shelter ceiling (Figure 1, Item 4). Discard rivets.



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).

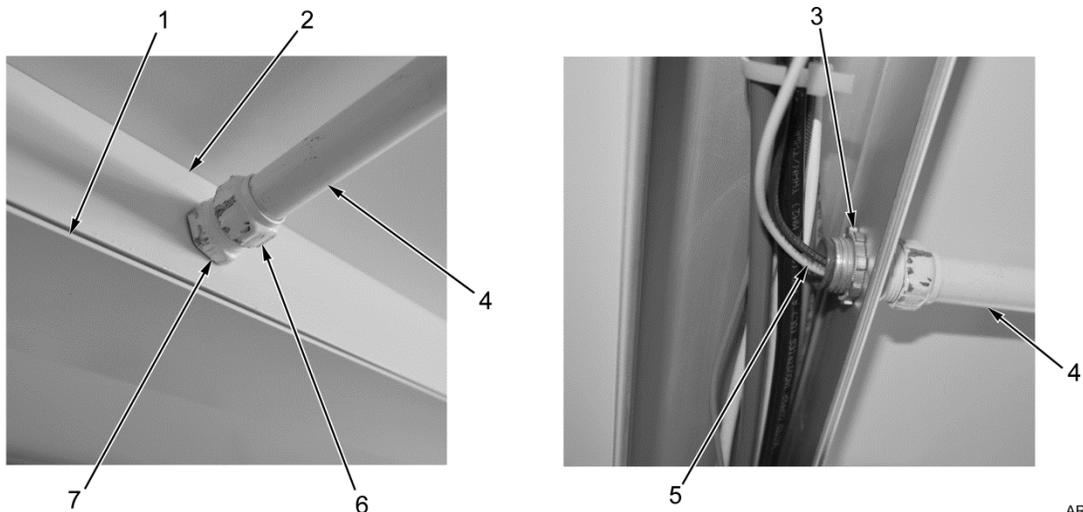
REMOVAL - Continued

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).



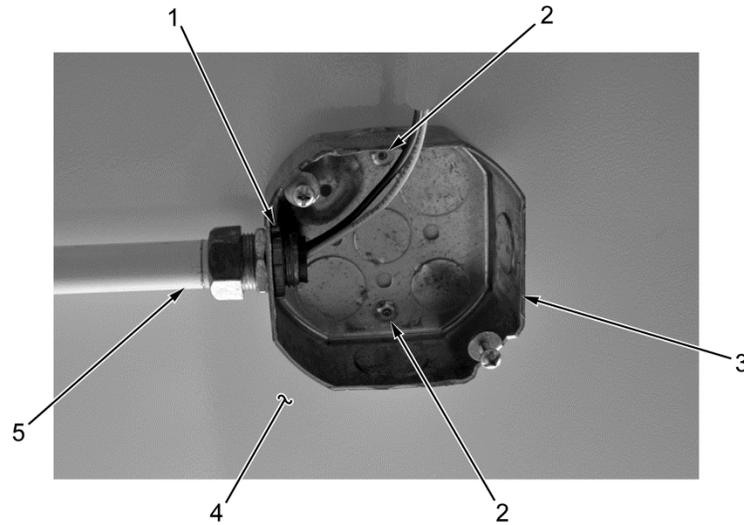
ARSS0203

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).

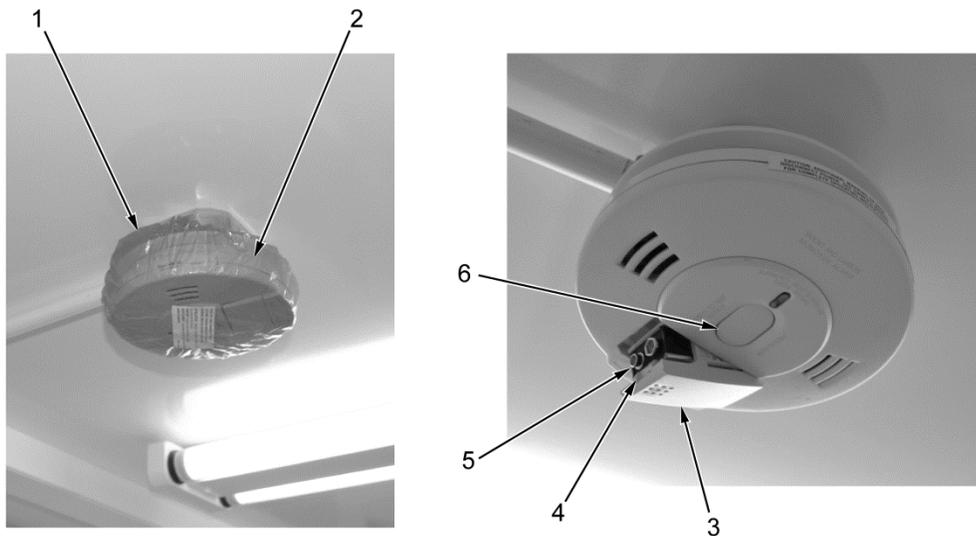
NOTE

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

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.

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).

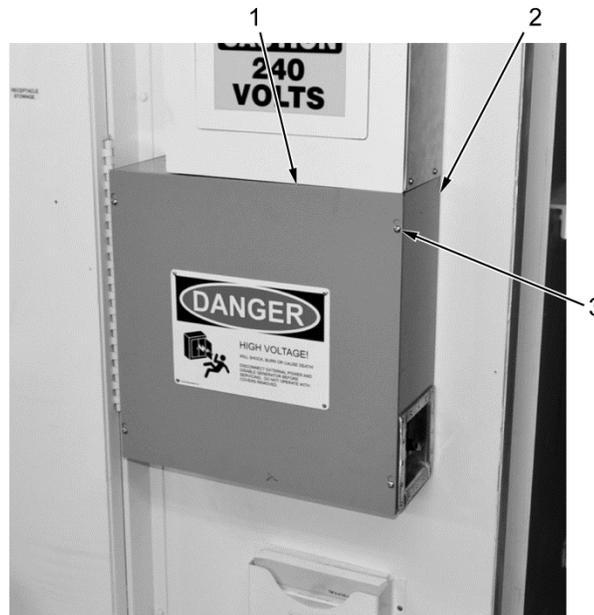


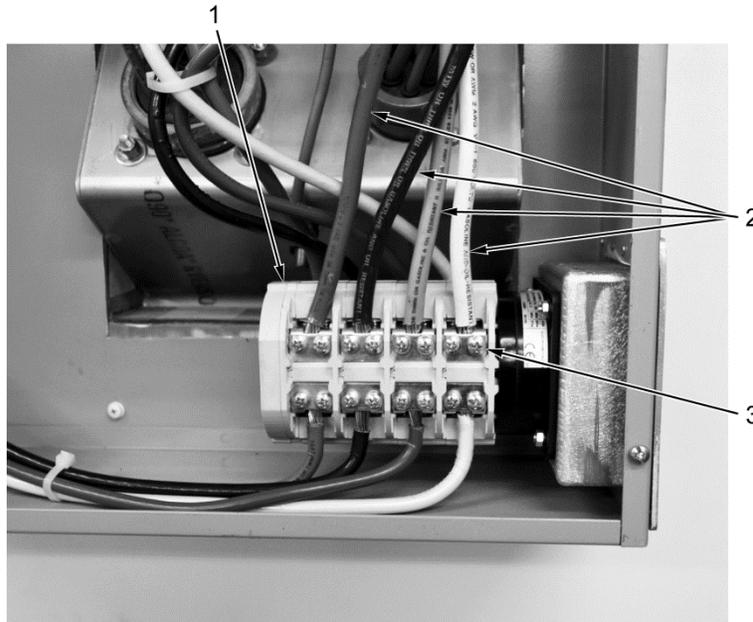
Figure 1. Work Room Pull Box Cover Removal.

ARSS0301

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.

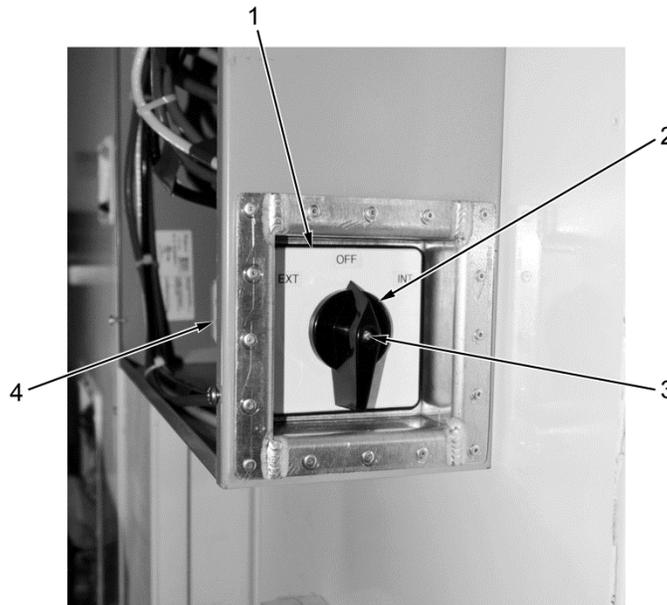
REMOVAL - Continued



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).

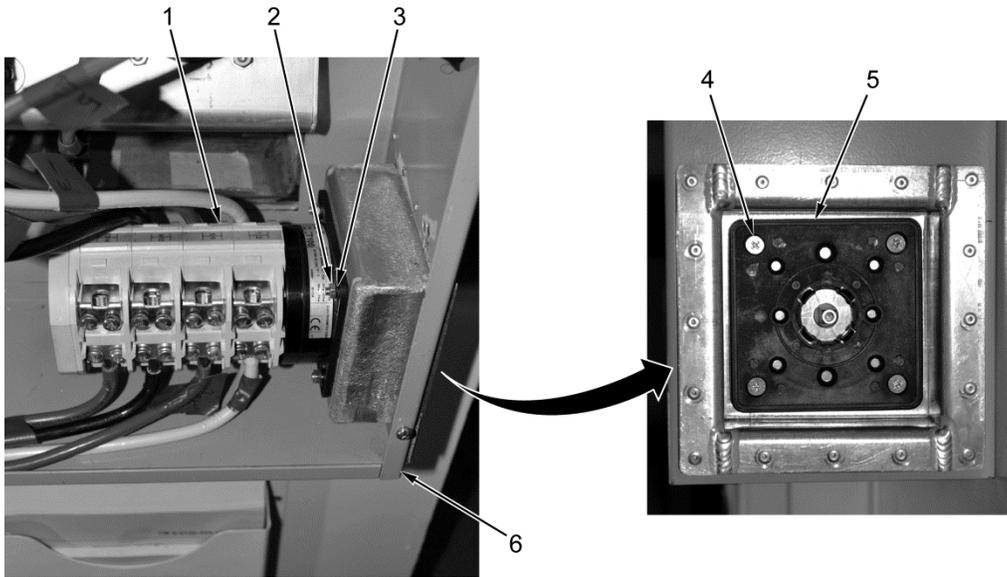


Figure 4. Selector Switch Removal.

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).

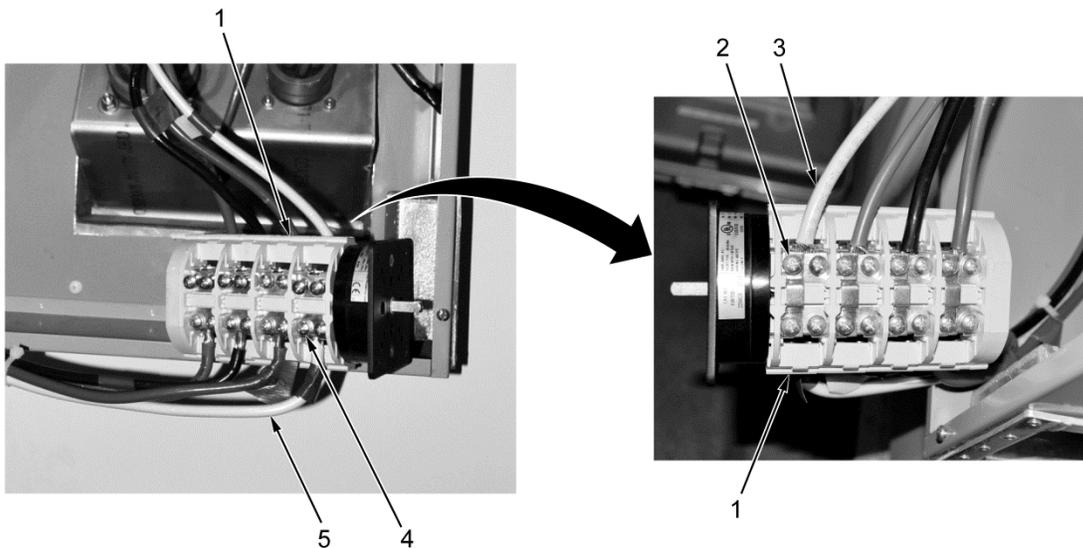


Figure 5. Wire Disconnection.

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).

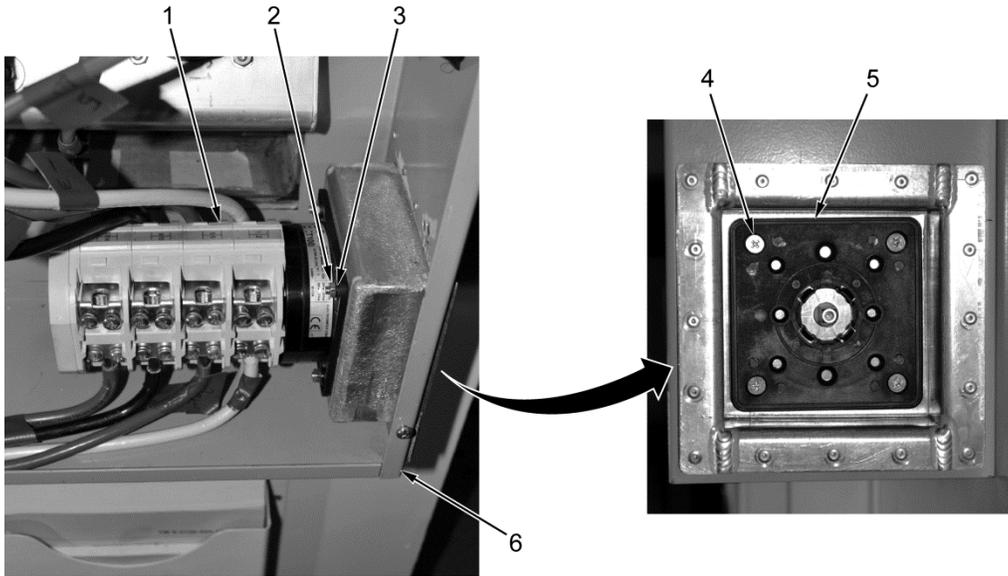
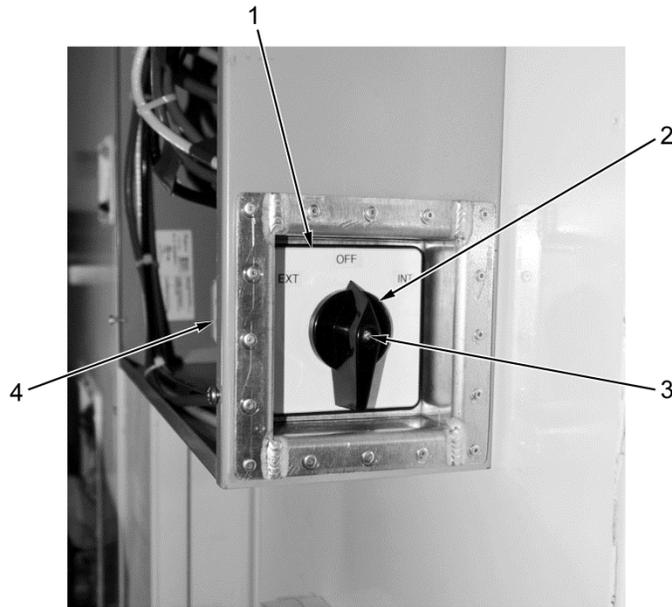


Figure 6. Selector Switch Installation.

ARSS0304

INSTALLATION - Continued

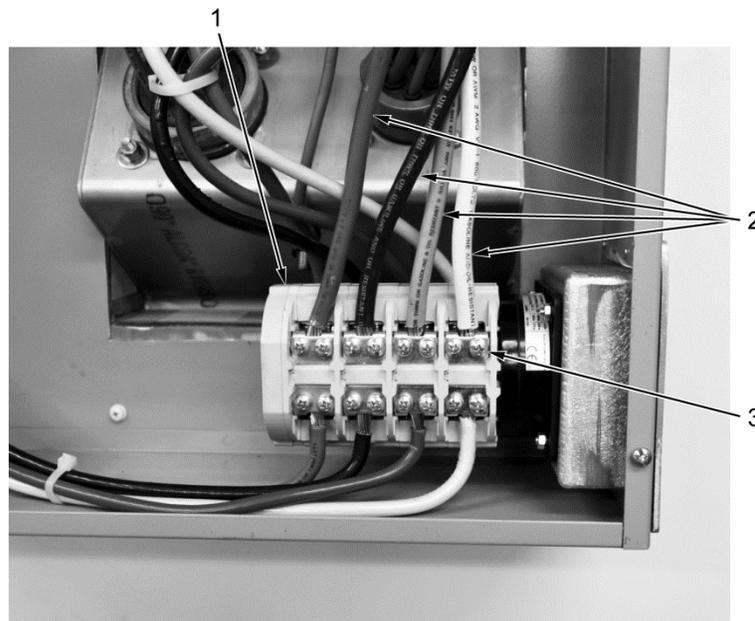
5. Install plate (Figure 7, Item 1) on selector switch (Figure 7, Item 4).
6. Install knob (Figure 7, Item 2) and screw (Figure 7, Item 3) on selector switch (Figure 7, Item 4).



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

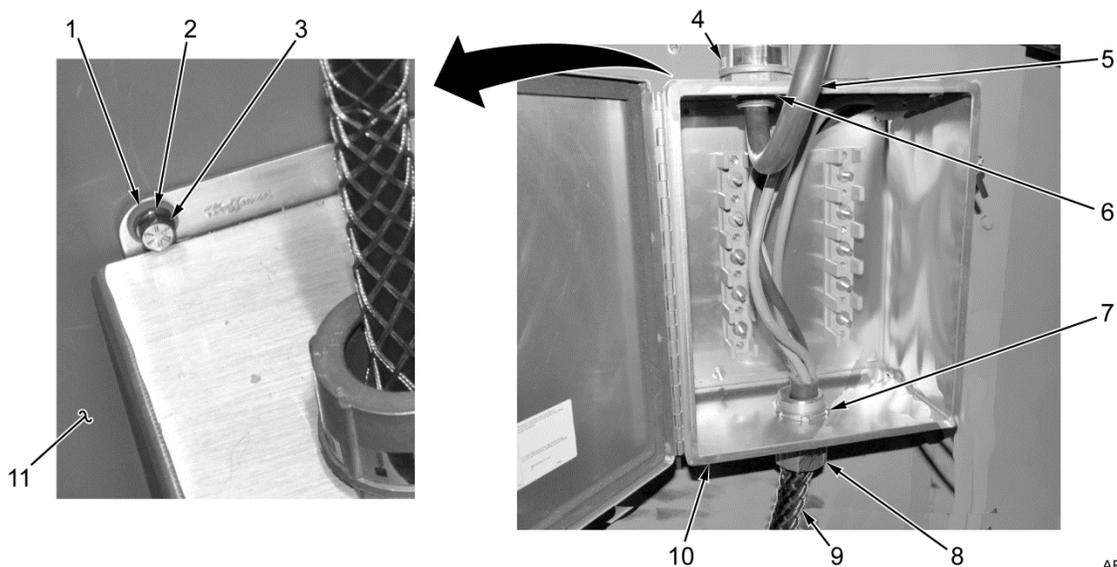
Equipment Condition

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).

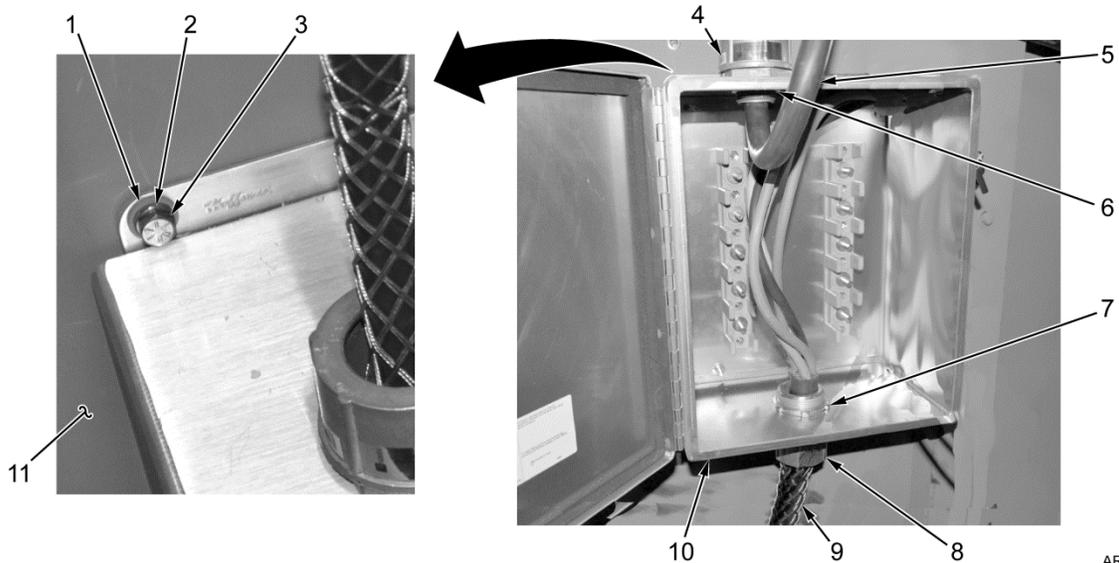


Figure 2. Mechanical Room Electrical Box Installation.

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

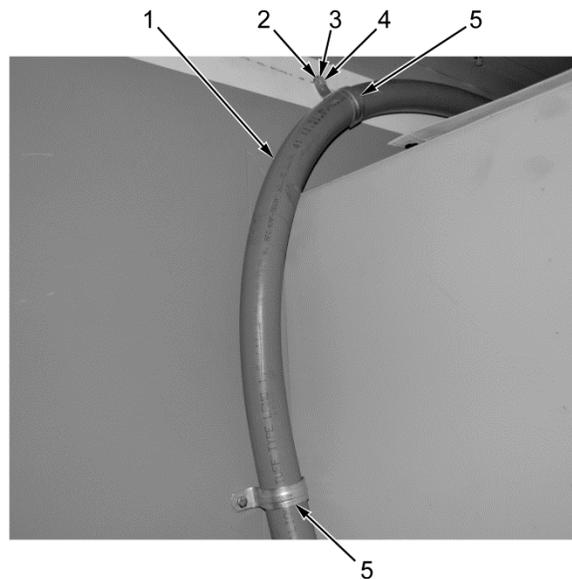
Wheeled Vehicle Mechanic - 91B

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.



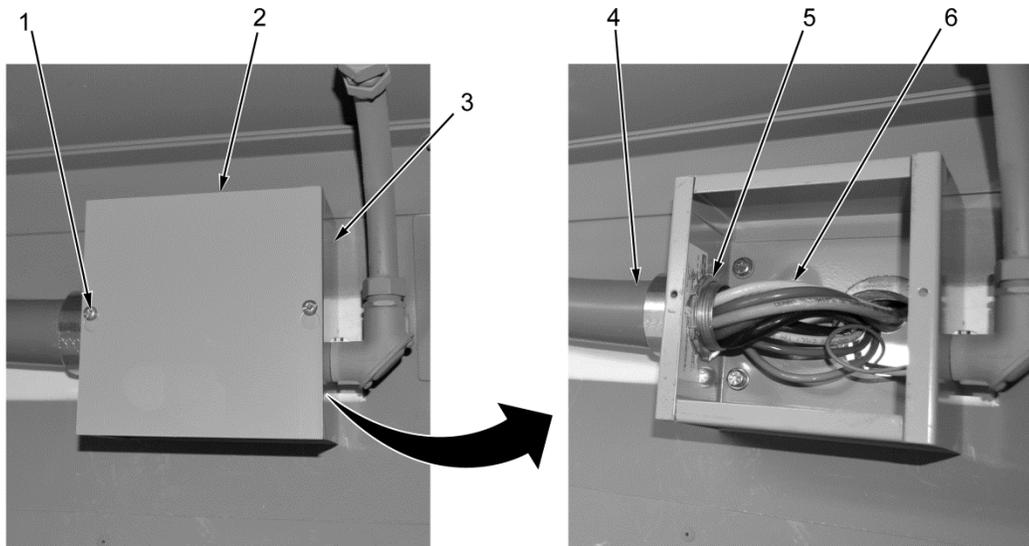
ARSS0206

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).

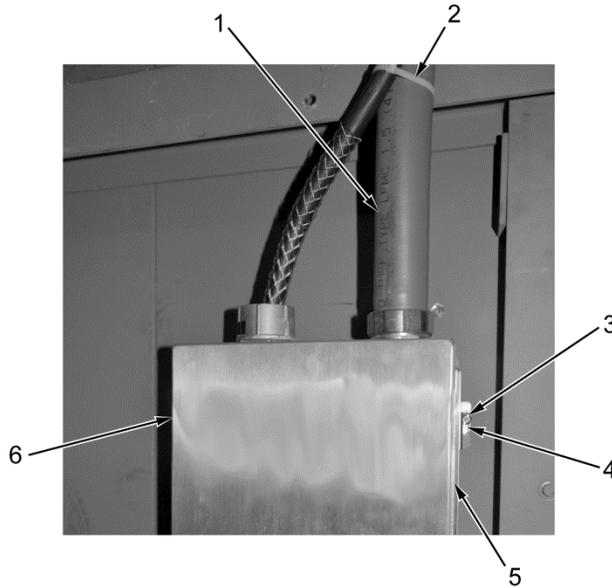


ARSS0207

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



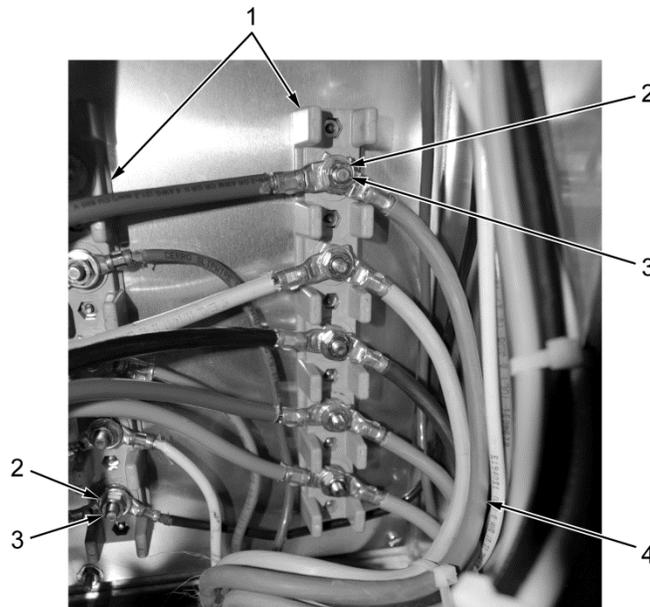
ARSS0208

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).

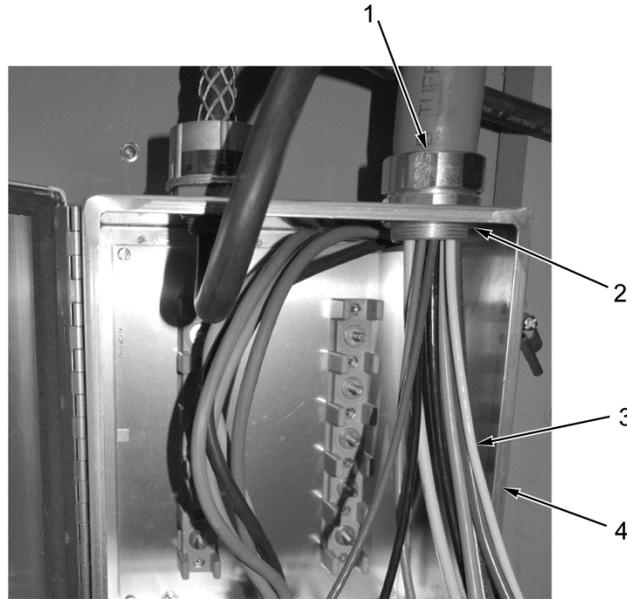


ARSS0209

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).



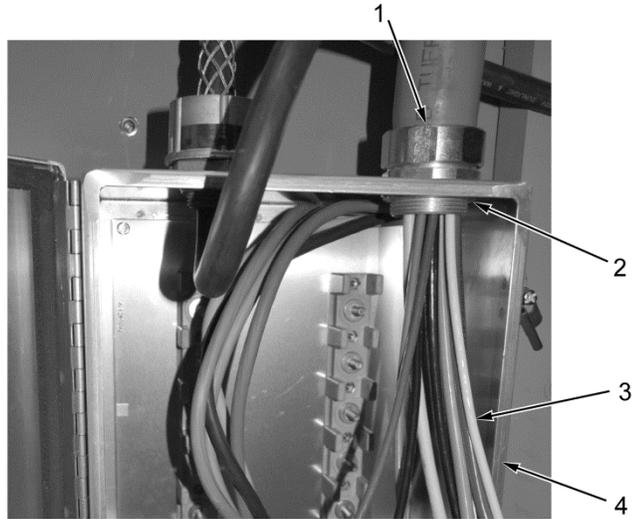
ARSS0210

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



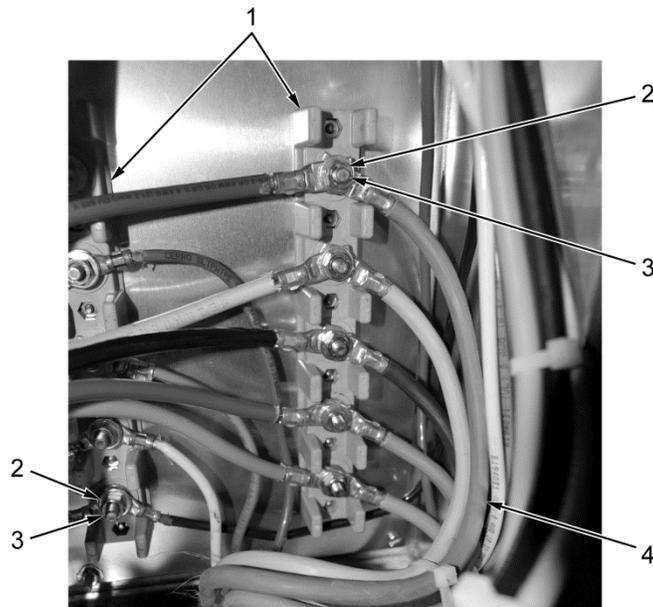
ARSS0211

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).

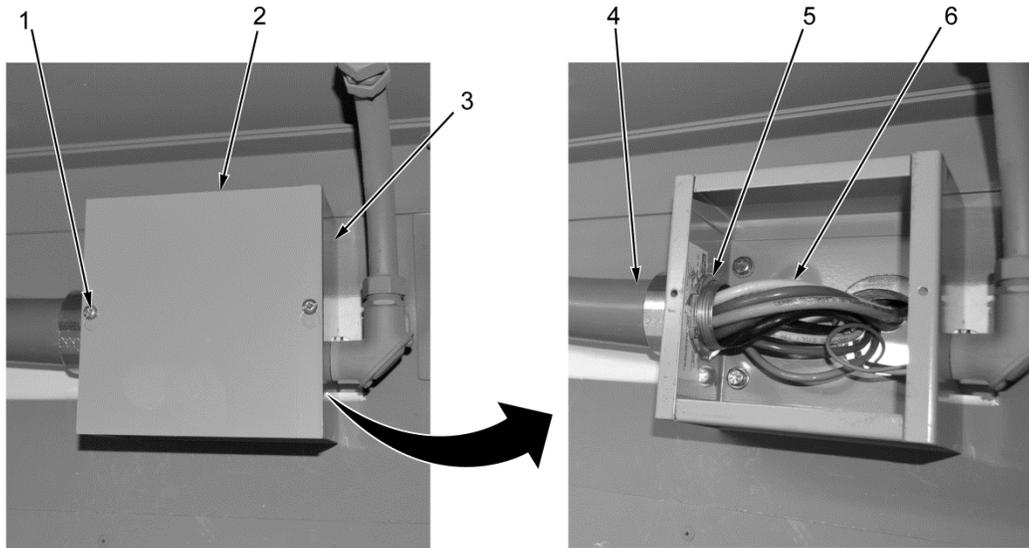


ARSS0213

Figure 7. Electrical Box Wiring Installation.

INSTALLATION - Continued

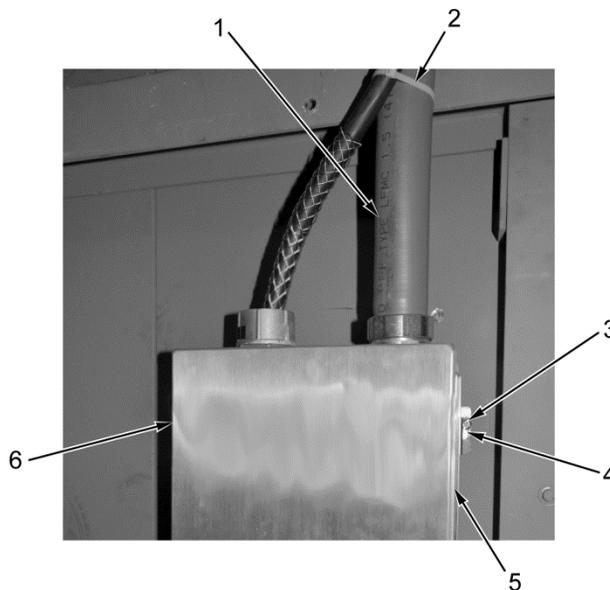
4. Install electrical box conduit (Figure 8, Item 4) in mechanical room pull box (Figure 8, Item 2) and install retaining nut (Figure 8, Item 5) over wires (Figure 8, Item 6) and on electrical box conduit.
5. Install mechanical room pull box cover (Figure 8, Item 2) on mechanical room pull box (Figure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

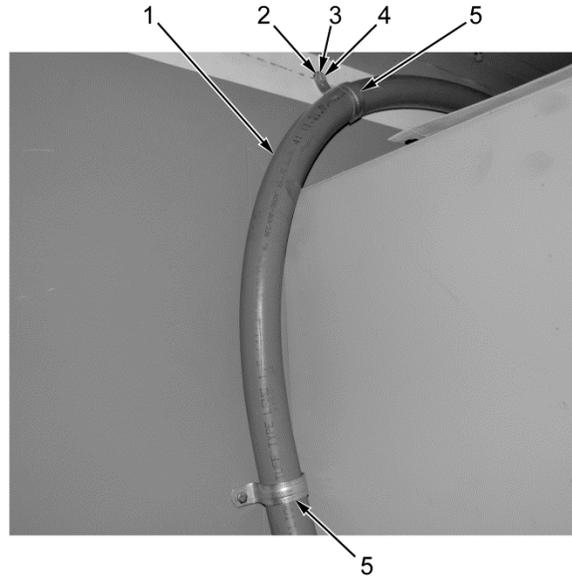


ARSS0214

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.

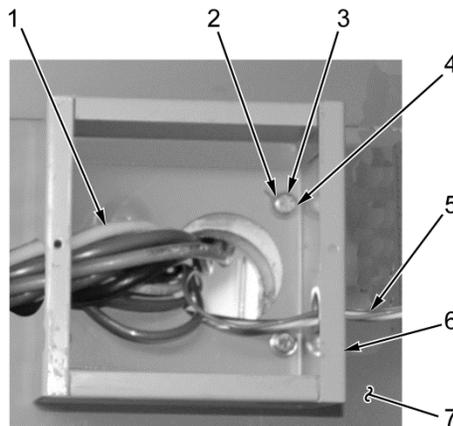
NOTE

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

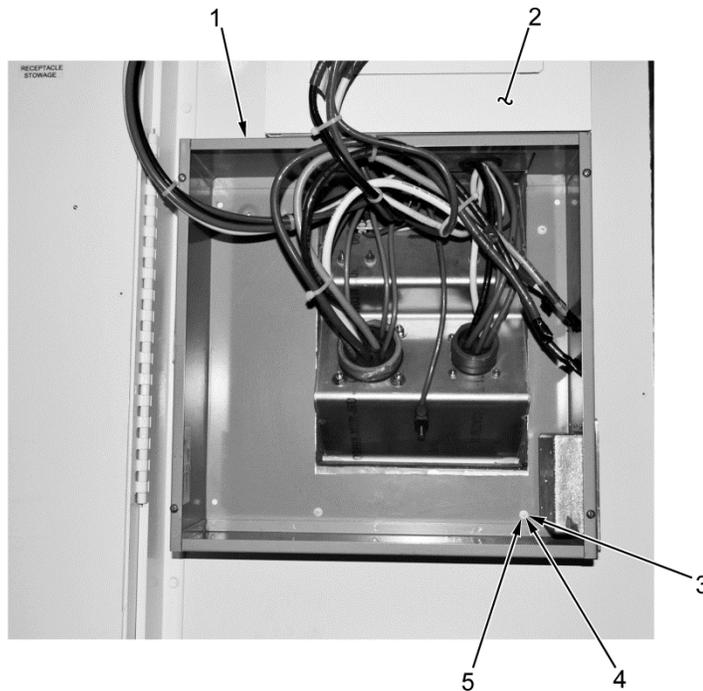
Ensure power supply to equipment is off and grounded before beginning work. Never work on electrical equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be competent in giving first aid. Failure to follow this warning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

Materials/Parts

Blind, Rivet Qty: 40 (WP 0101, Item 19)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

References

WP 0050

WP 0090

Equipment Condition

ARSS setup for operation (WP 0006)

ARSS power OFF (WP 0009)

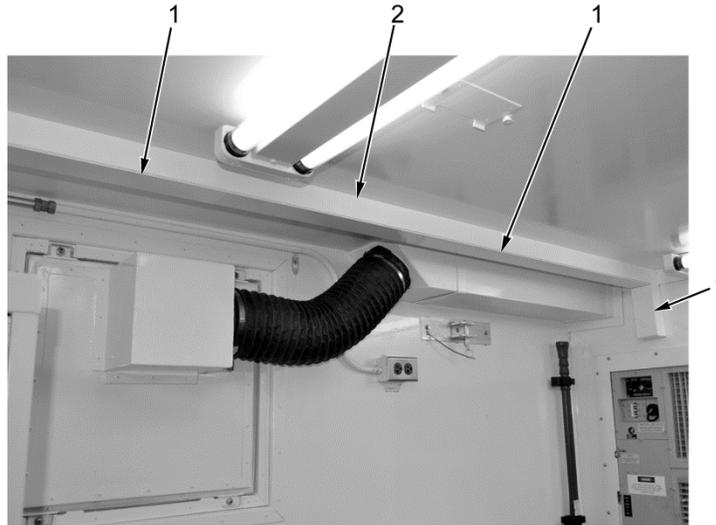
WARNING

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

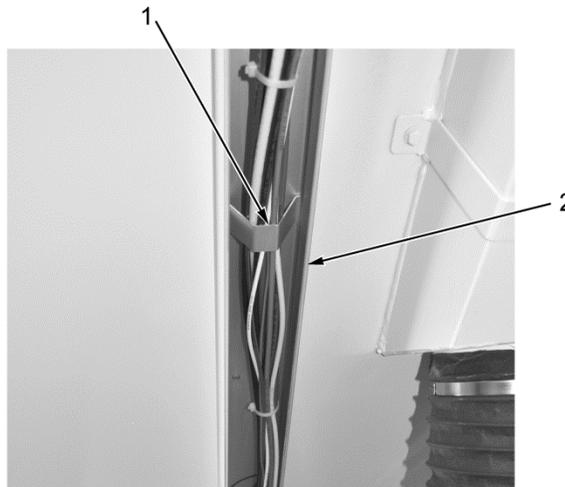
1. Remove smoke alarm junction box and conduit (WP 0050).
2. Remove three raceway covers (Figure 1, Item 1) from raceway base (Figure 1, Item 2).



ARSS0231

Figure 1. Raceway Covers Removal.

3. Remove four wire clips (Figure 2, Item 1) from raceway base (Figure 2, Item 2).



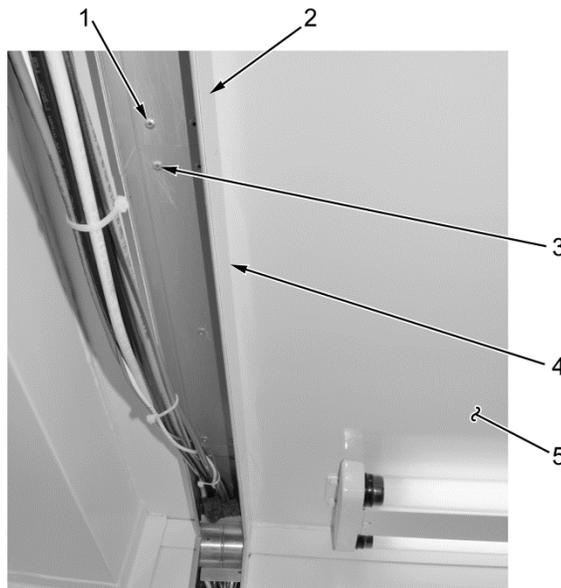
ARSS0232

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.



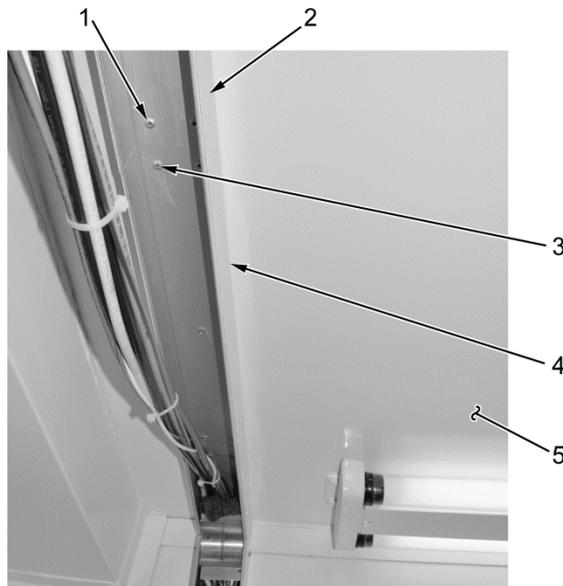
ARSS0233

Figure 3. Raceway Base Removal.

END OF TASK

MAIN RACEWAY BASE REPLACEMENT - Continued**Installation**

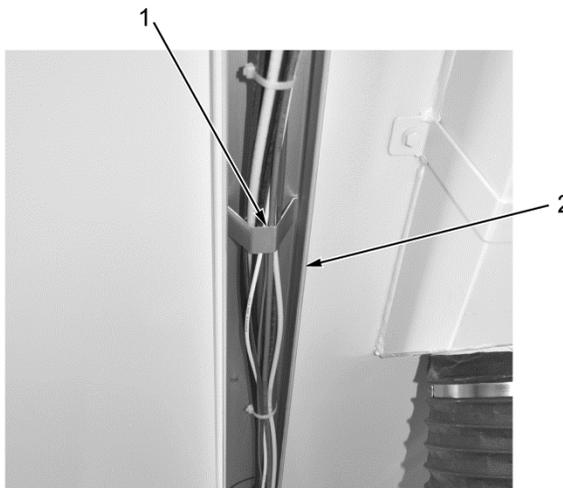
1. With assistance, install long raceway base (Figure 4, Item 2) and 16 new rivets (Figure 4, Item 1) on shelter ceiling (Figure 4, Item 5).
2. Install short raceway base (Figure 4, Item 4) and five new rivets (Figure 4, Item 3) on shelter ceiling (Figure 4, Item 5).



ARSS0234

Figure 4. Raceway Base Installation.

3. Install four wire clips (Figure 5, Item 1) on raceway base (Figure 5, Item 2).



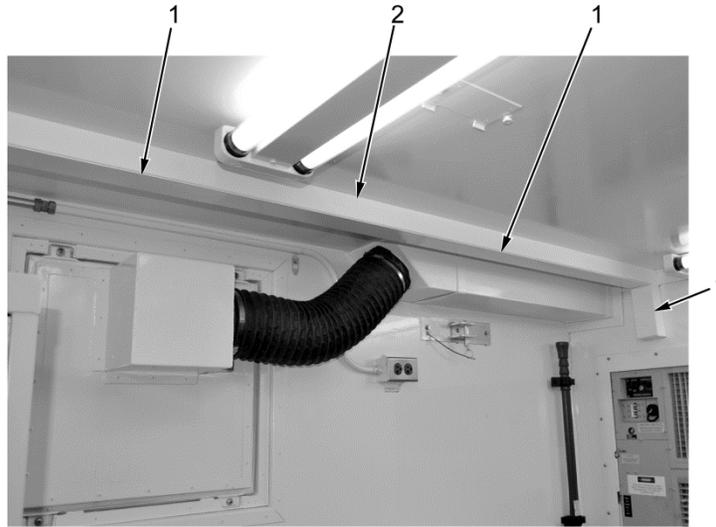
ARSS0235

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.

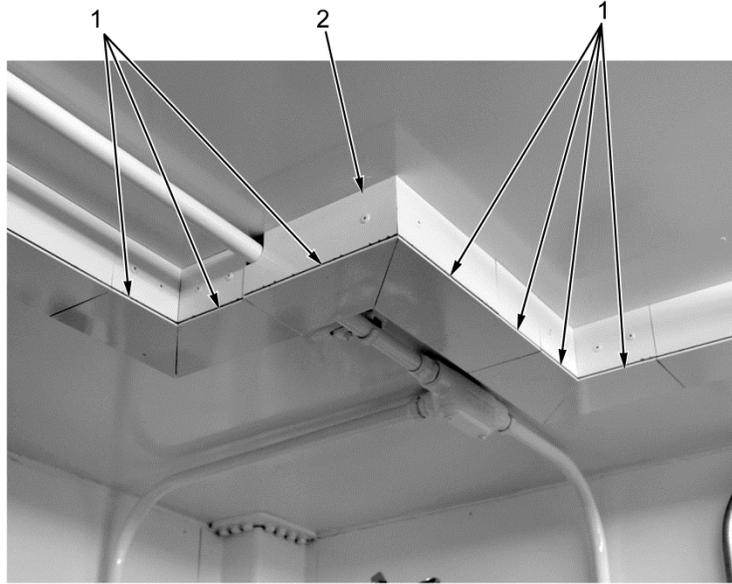
5. Install smoke alarm junction box and conduit (WP 0050).

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.

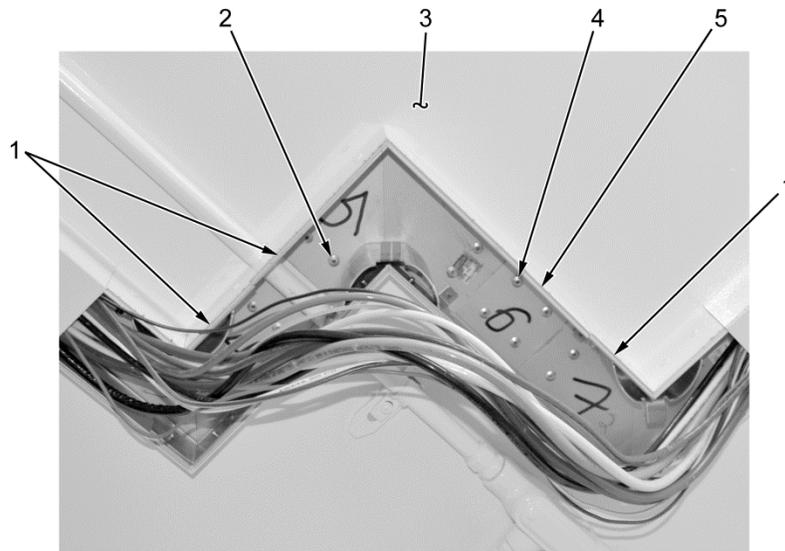
NOTE

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



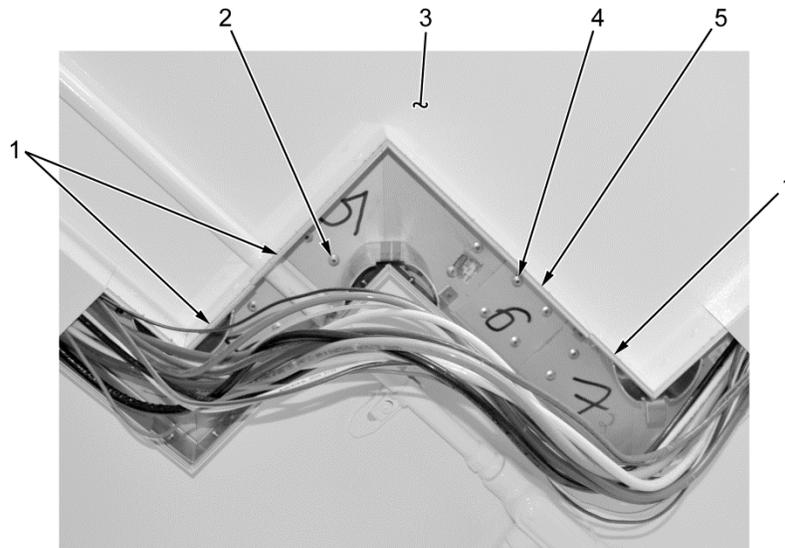
ARSS0238

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).



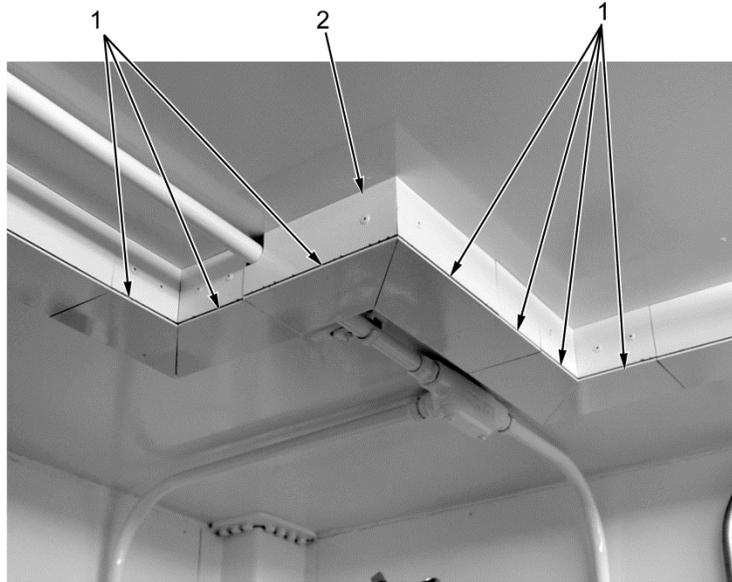
ARSS0239

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

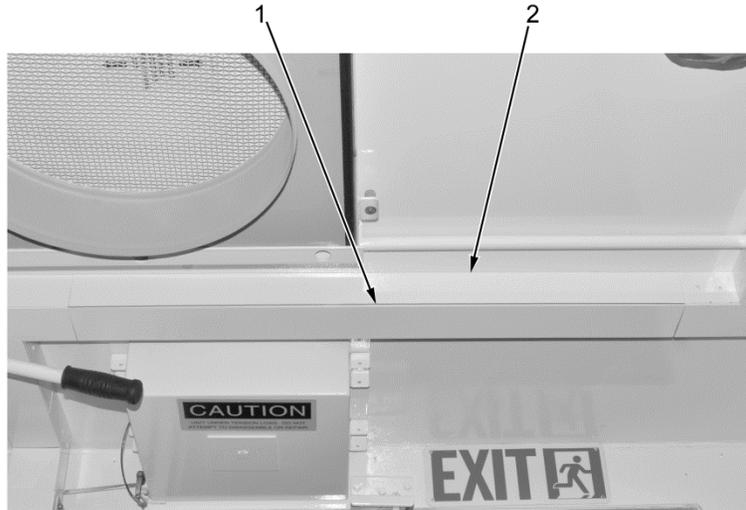
Figure 10. Raceway Covers Installation.

END OF TASK

MIDDLE RACEWAY BASE REPLACEMENT

Removal

1. Remove raceway cover (Figure 11, Item 1) from raceway base (Figure 11, Item 2).



ARSS0241

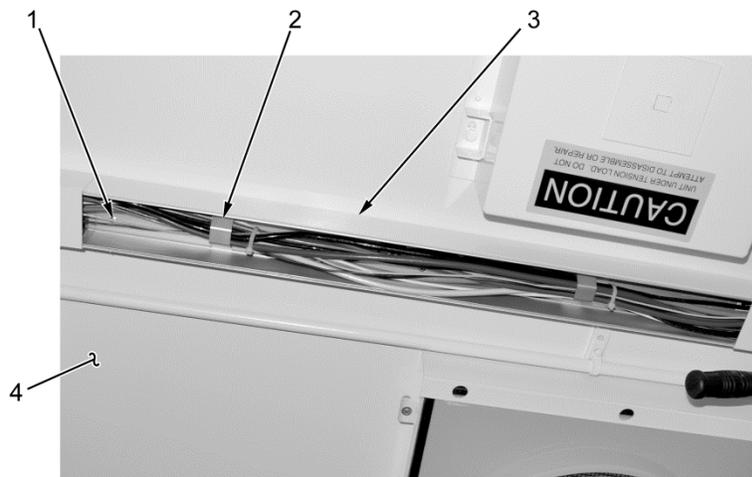
Figure 11. Middle Raceway Cover Removal.

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.



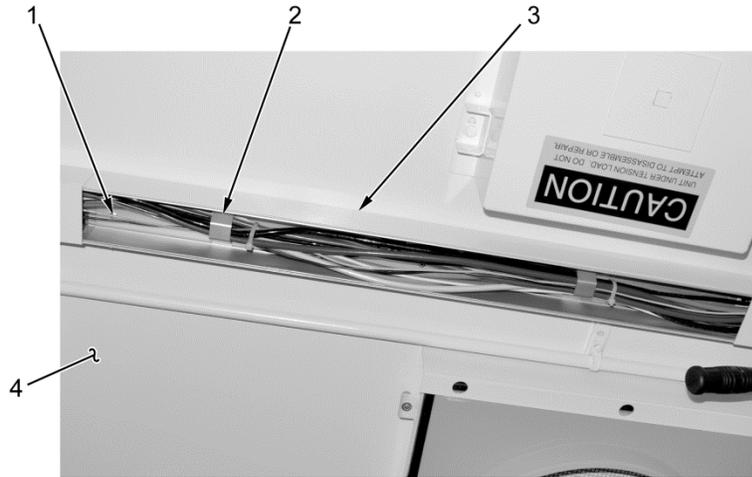
ARSS0242

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).



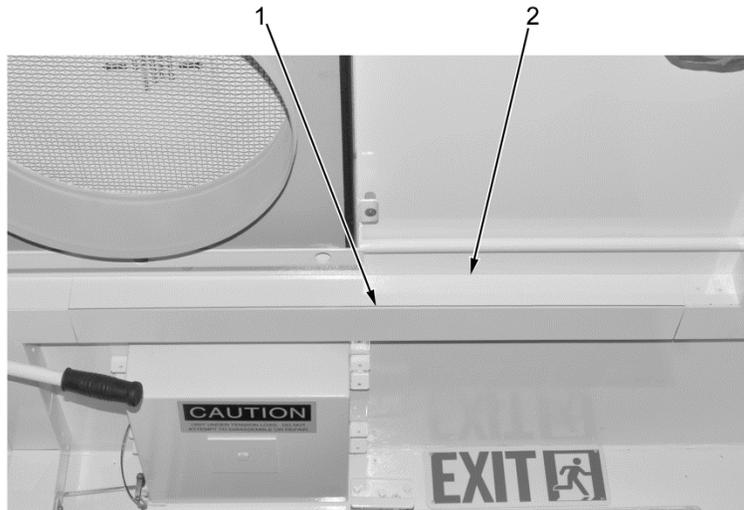
ARSS0243

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

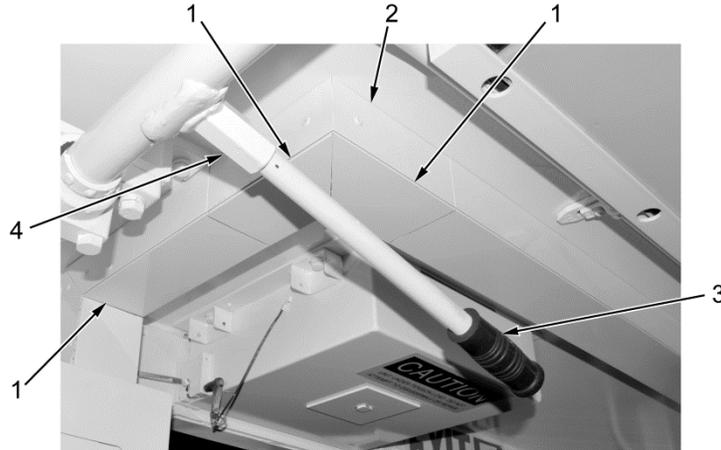
Figure 14. Middle Raceway Cover Installation.

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).



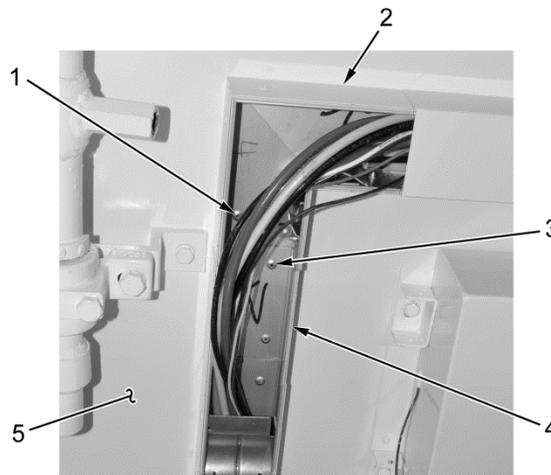
ARSS0245

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.



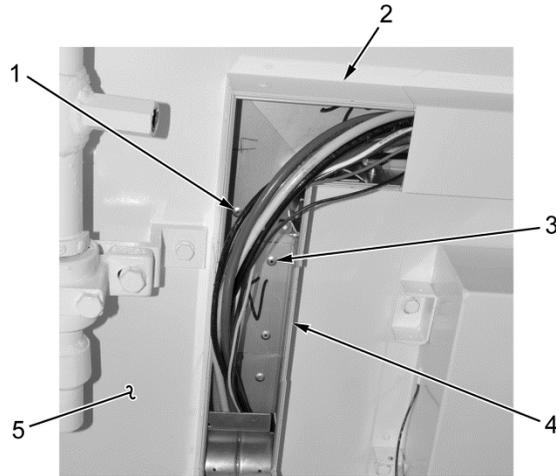
ARSS0246

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).



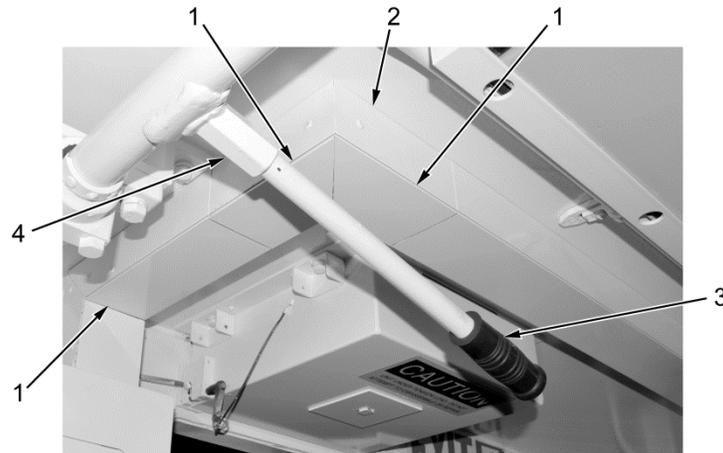
ARSS0247

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

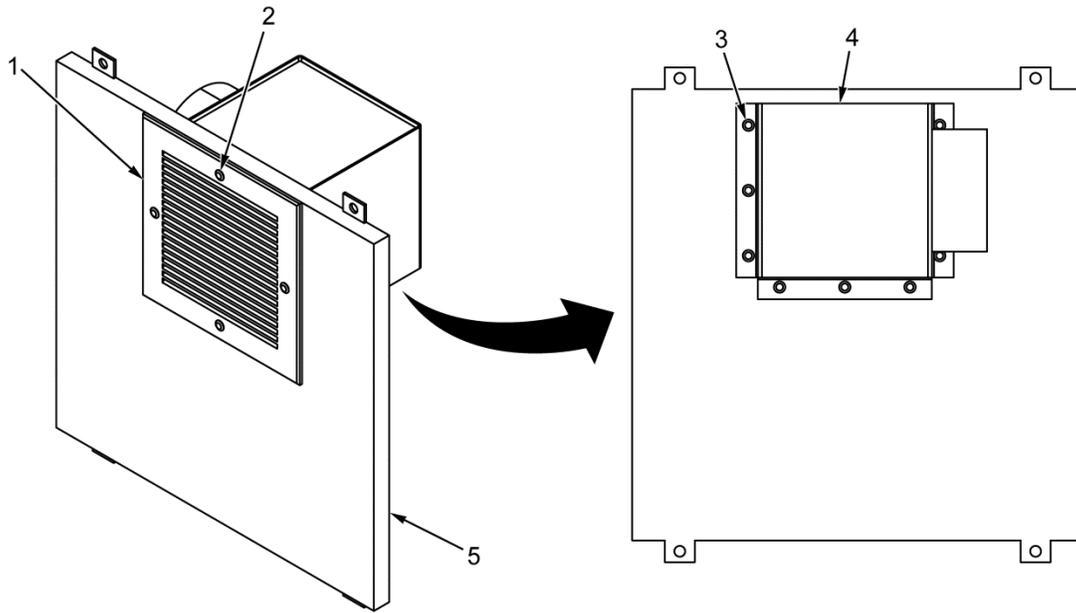
Equipment Condition

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).

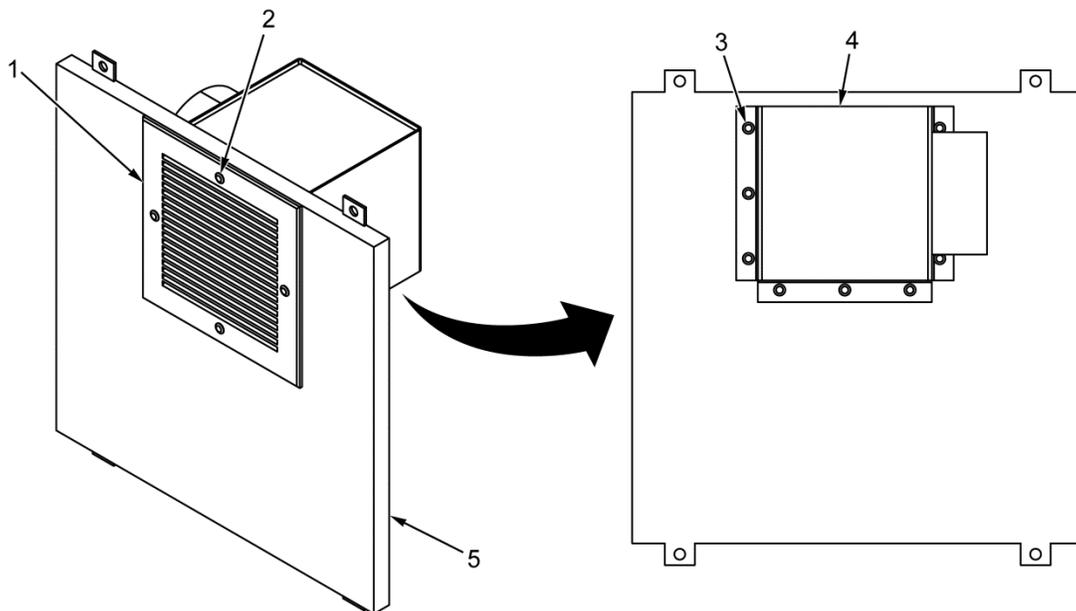
WARNING

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 CUTOFF 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)

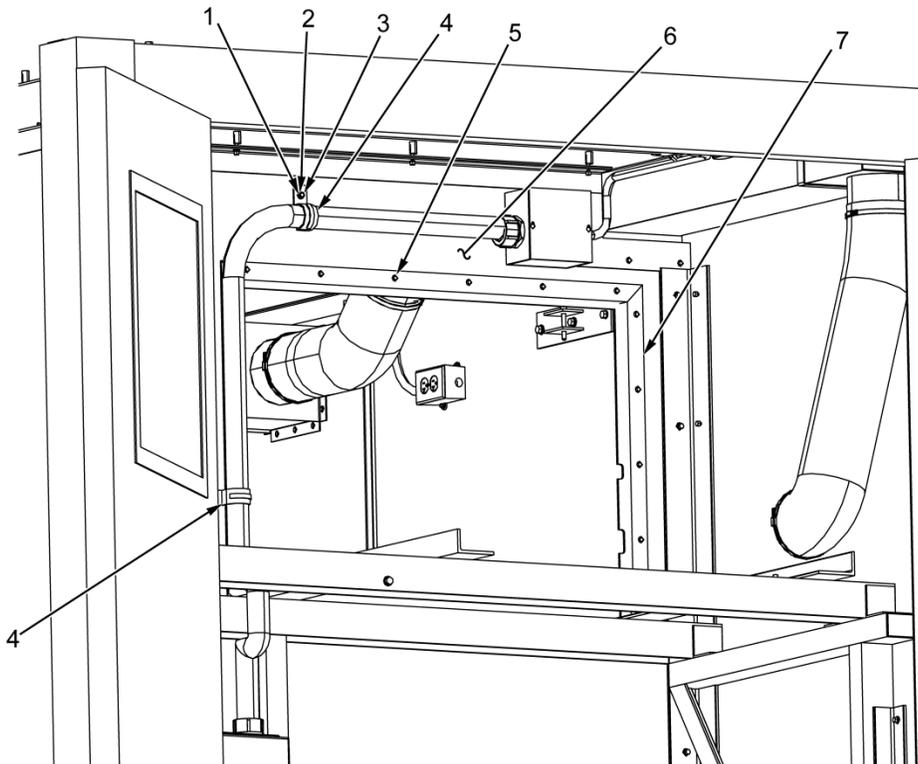
REMOVAL

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.



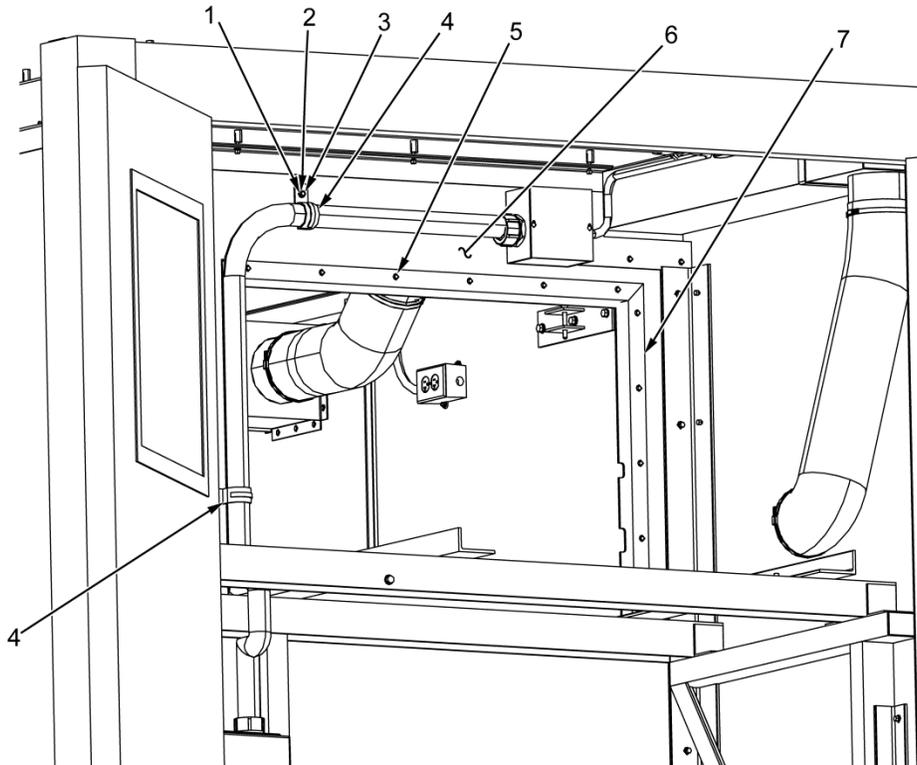
ARSS0130

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

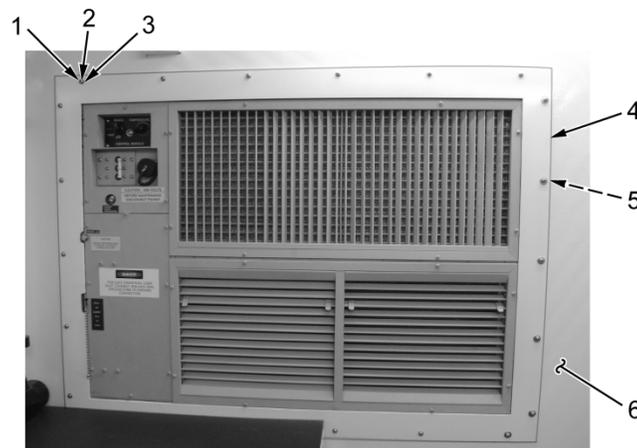
ARSS setup for operation (WP 0006)

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

Personnel Required

Wheeled Vehicle Mechanic - 91B

Equipment Condition

ARSS setup for operation (WP 0006)

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 (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

Materials/Parts

- Rivet, Blind Qty: 18 (WP 0104, Item 8)
- Rivet, Blind Qty: 6 (WP 0104, Item 11)

Equipment Condition

ARSS setup for operation (WP 0006)

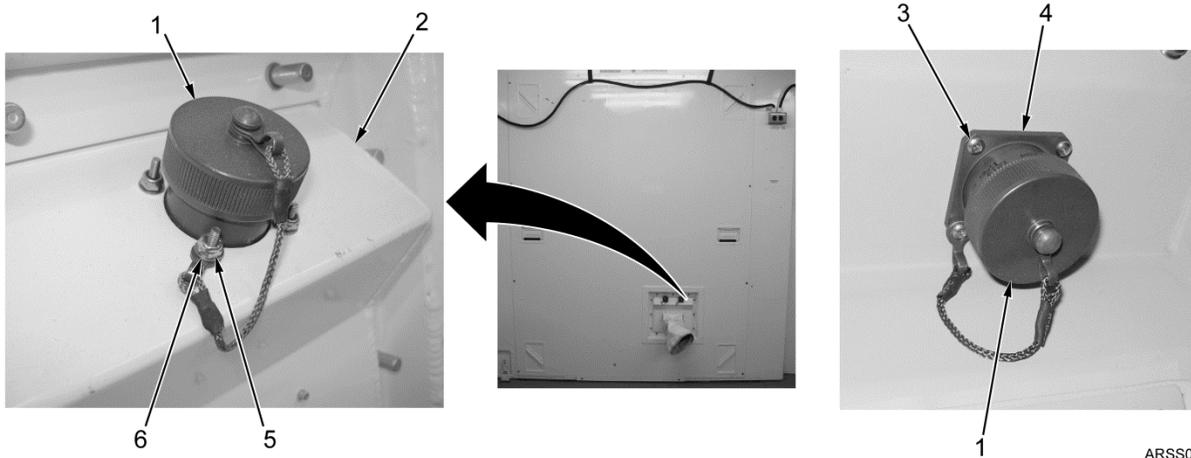
RJ45 POWER CONNECTION

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).

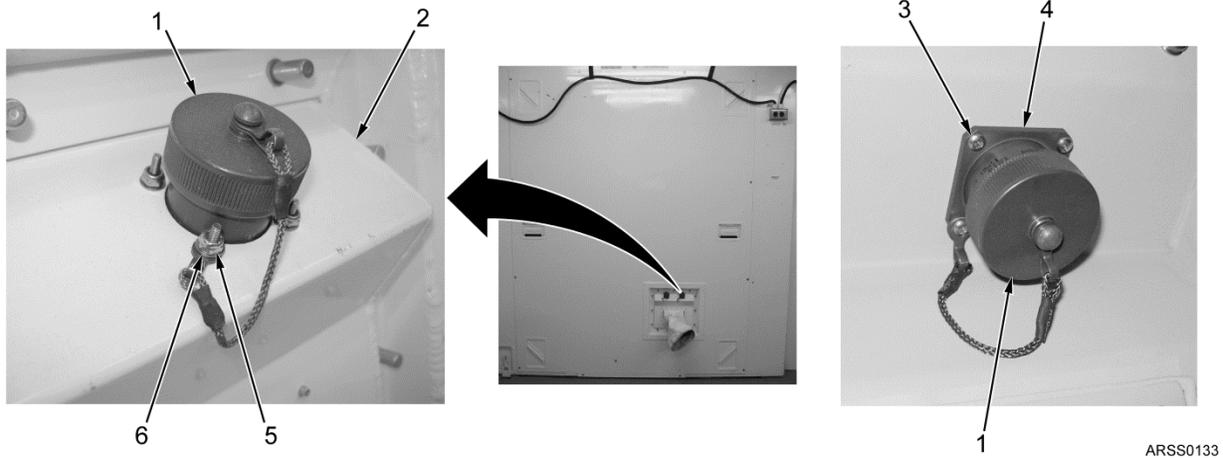


Figure 2. RJ45 Power Connection Installation.

END OF TASK

INTERIOR FABRIC SLEEVE

Removal

NOTE

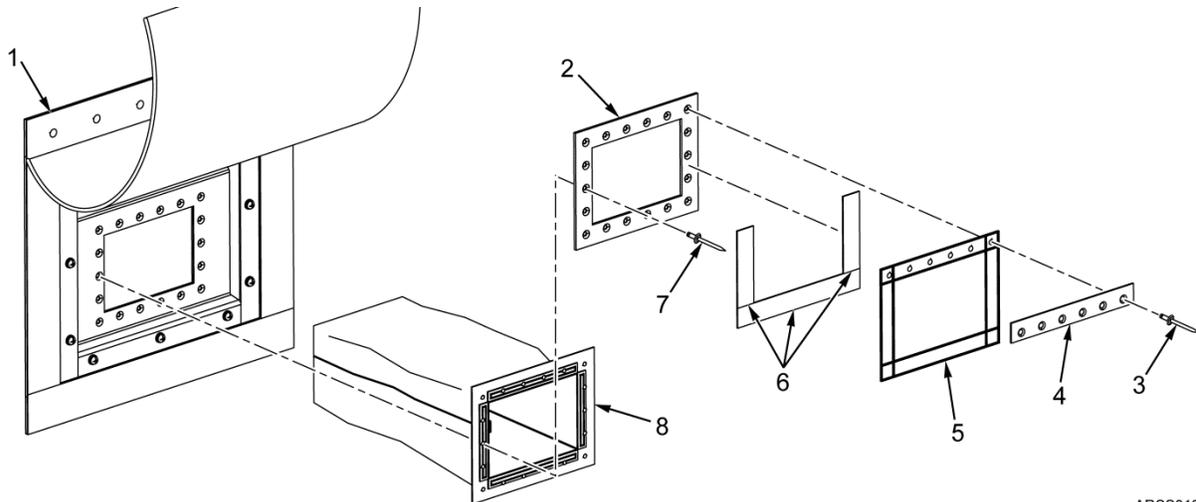
For detailed riveting instructions, refer to General Maintenance (WP 0090).

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.

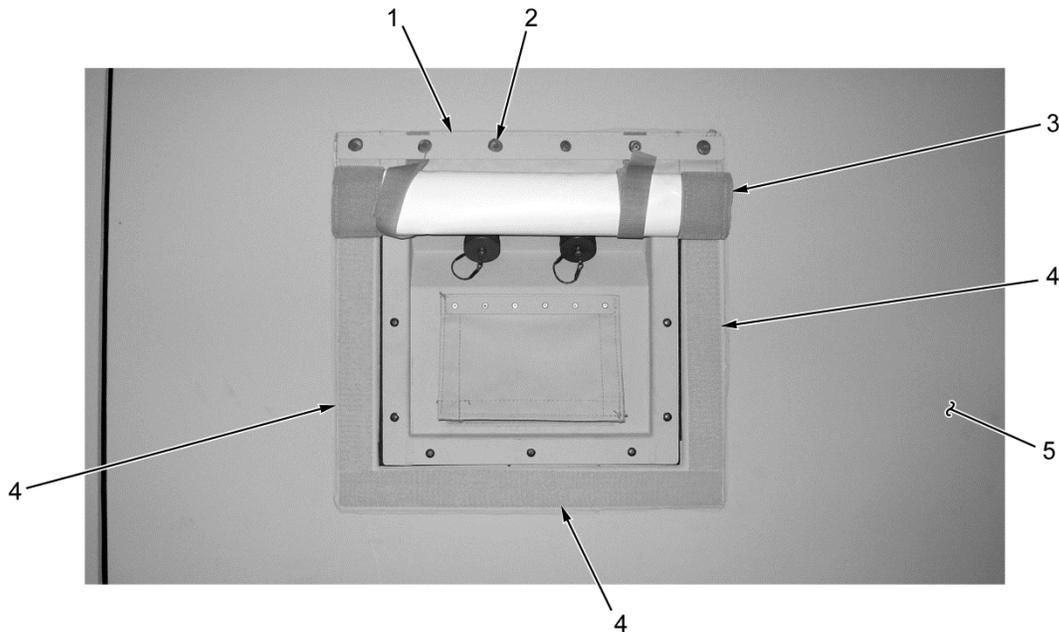
NOTE

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)

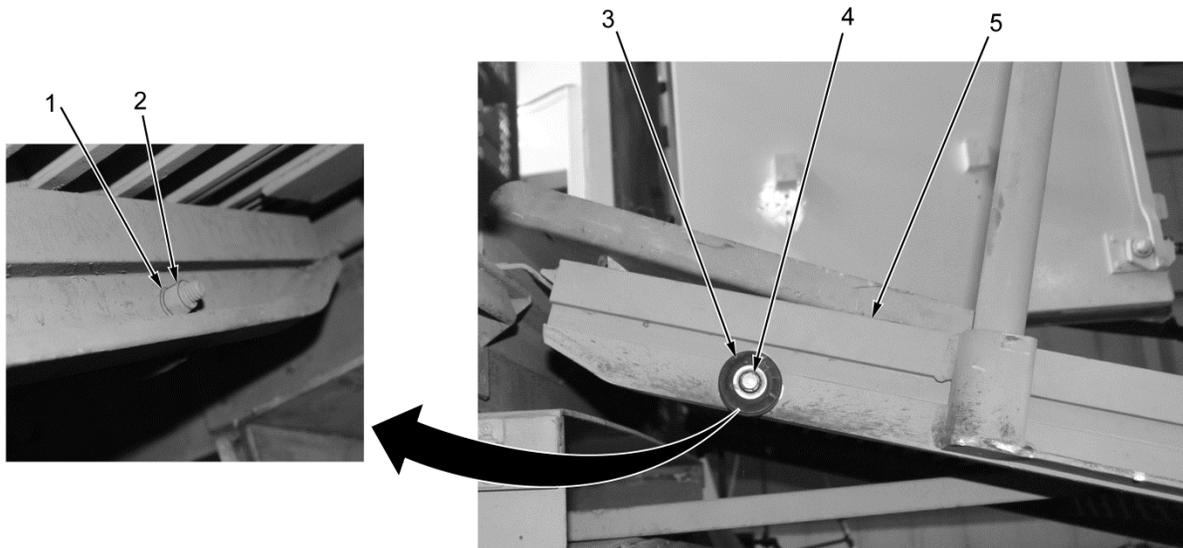
Equipment Condition

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.



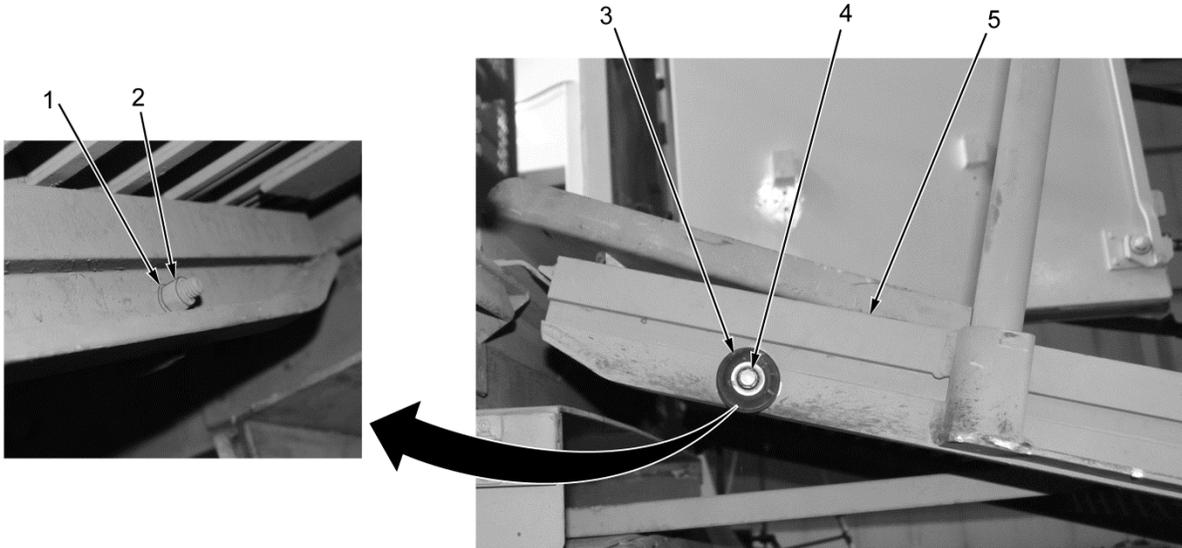
ARSS0150

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)

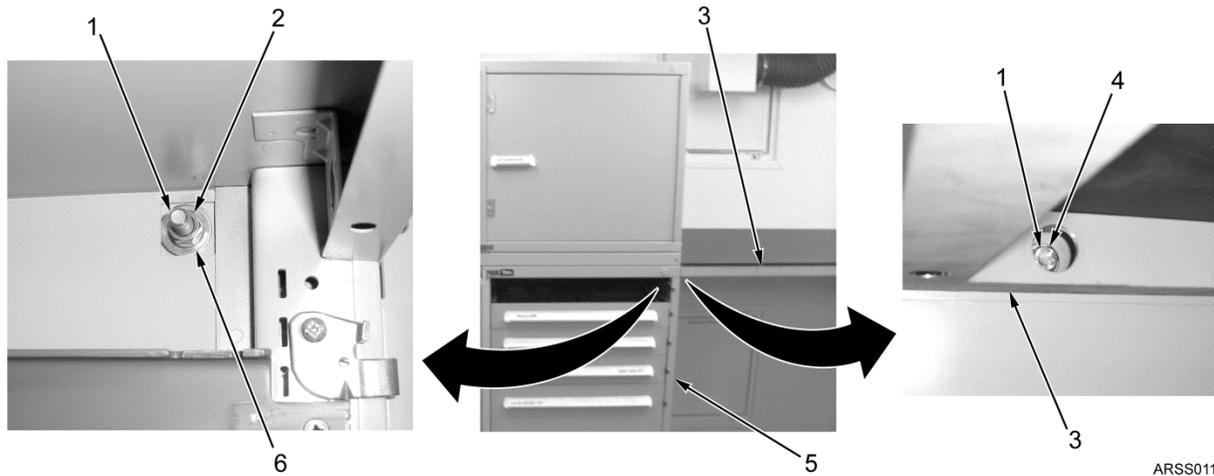
Tool cabinet drawers (top two of tool cabinet A and B) removed (WP 0076)

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.

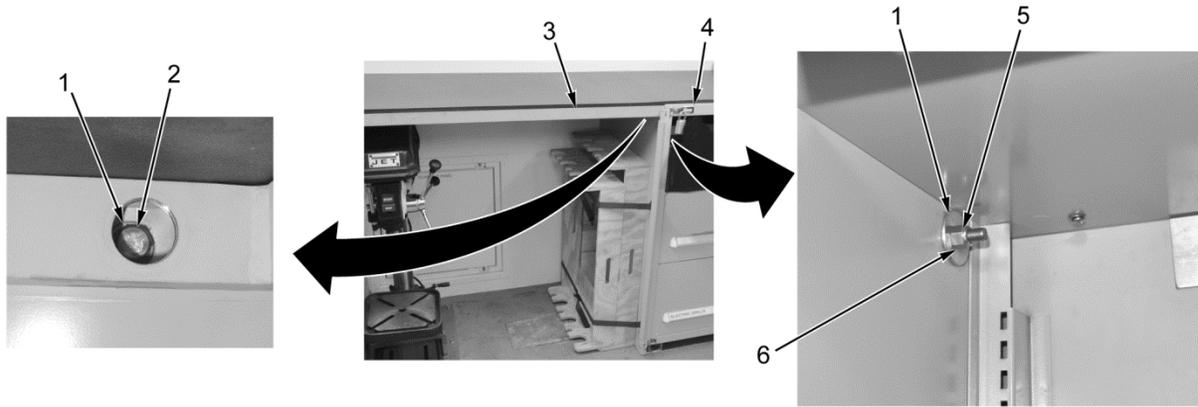


ARSS0117

Figure 1. Cabinet Workbench Brace Cabinet B Attaching Hardware Removal.

REMOVAL - Continued

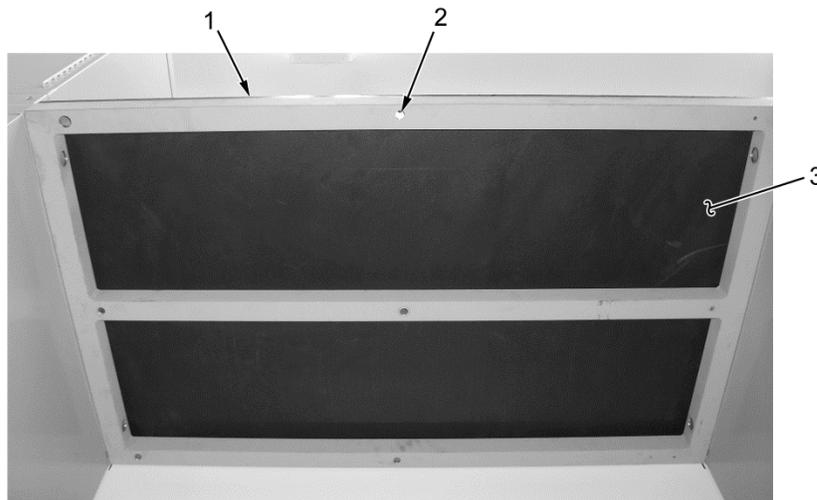
- Remove two bolts (Figure 2, Item 2), nuts (Figure 2, Item 5), lockwashers (Figure 2, Item 6), and four flat washers (Figure 2, Item 1) from inside of cabinet A (Figure 2, Item 4) and cabinet workbench brace (Figure 2, Item 3). Discard lockwashers.



ARSS0118

Figure 2. Cabinet Workbench Brace Cabinet A Attaching Hardware Removal.

- 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

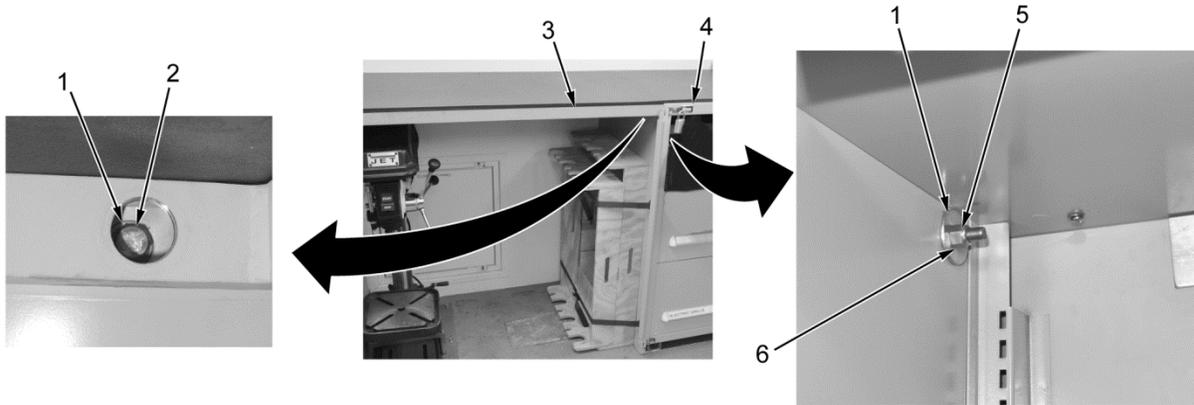
1. Install cabinet workbench brace (Figure 4, Item 1) and six screws (Figure 4, Item 2) on cabinet workbench top (Figure 4, Item 3).



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).

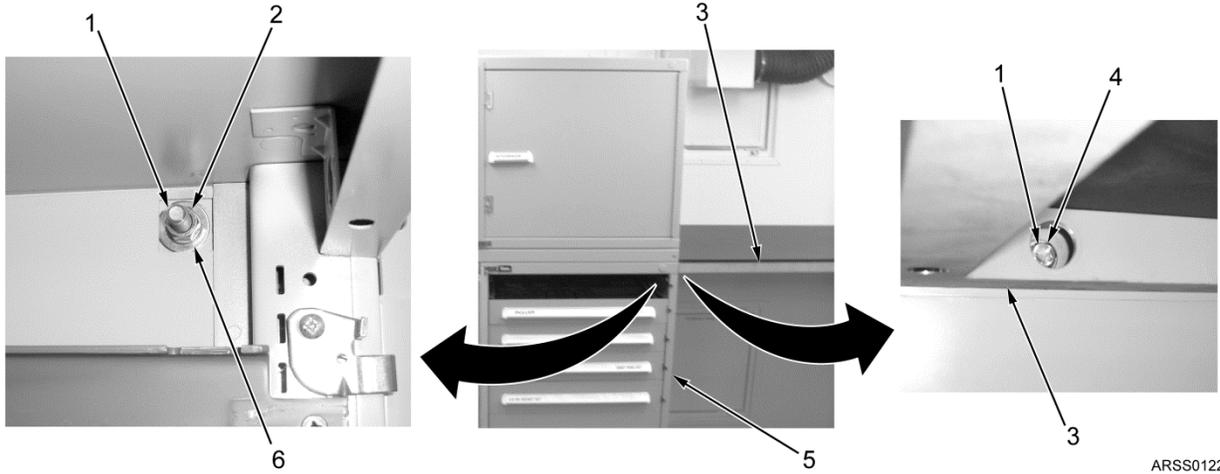


Figure 6. Cabinet Workbench Brace Cabinet B Attaching Hardware Installation.

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

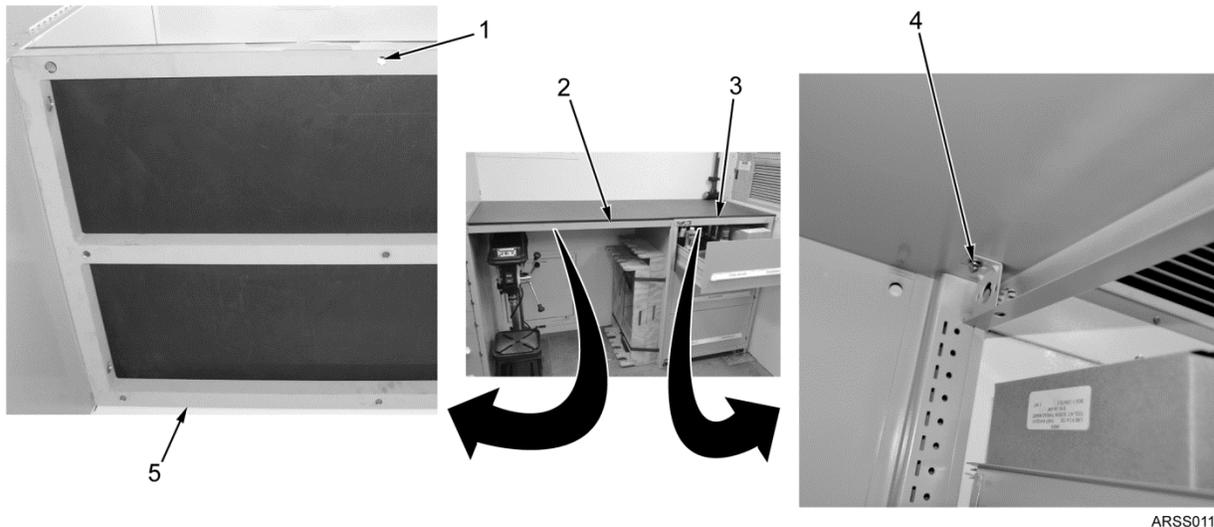
ARSS setup for operation (WP 0006)
Tool cabinet drawer (top of tool cabinet A)
removed (WP 0076)

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).



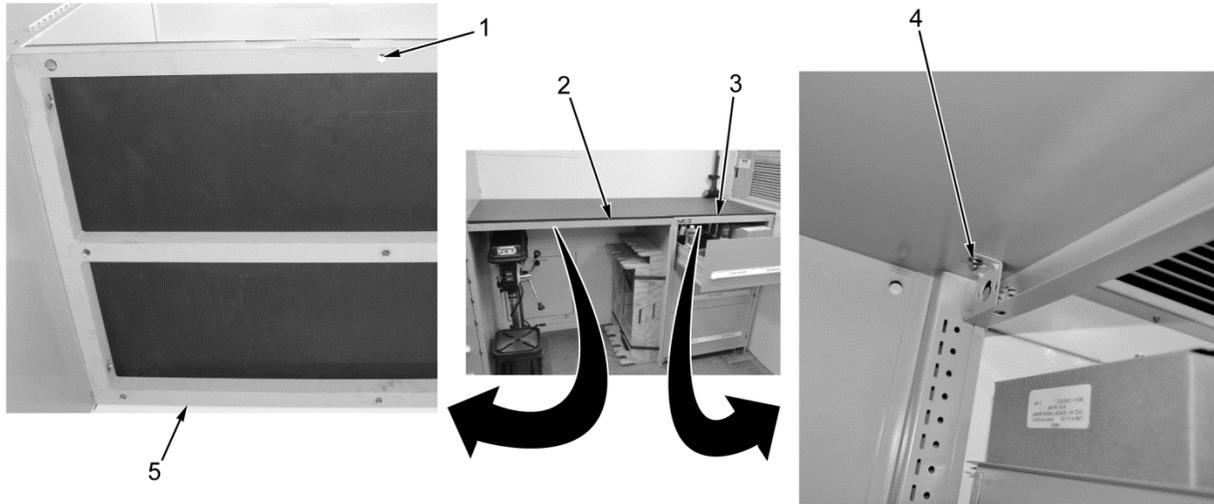
ARSS0114

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)

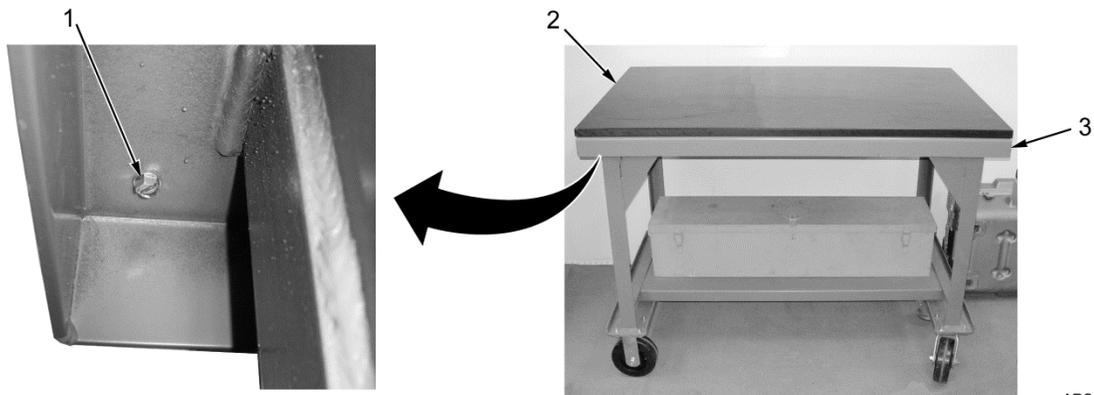
REMOVAL**NOTE**

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).



ARSS0056

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.

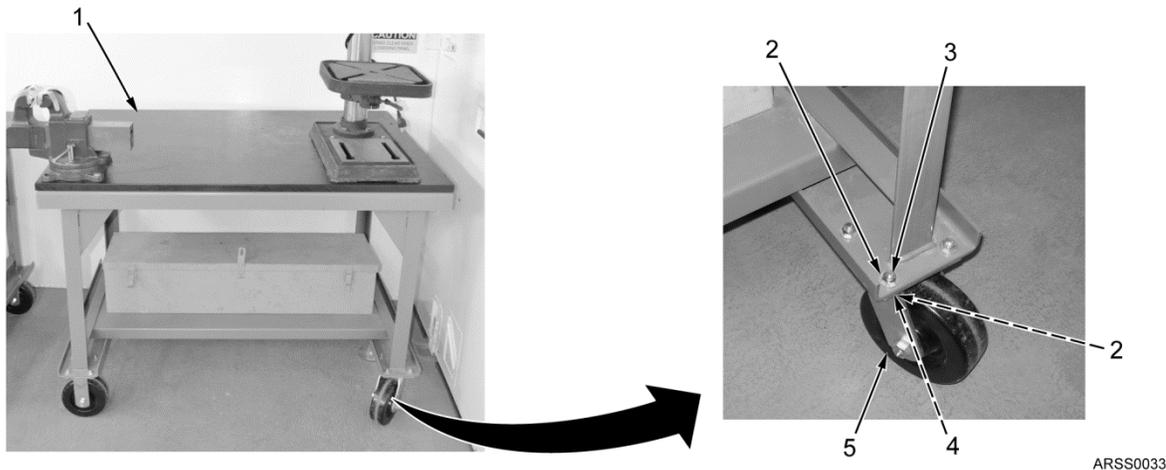
NOTE

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).



ARSS0033

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

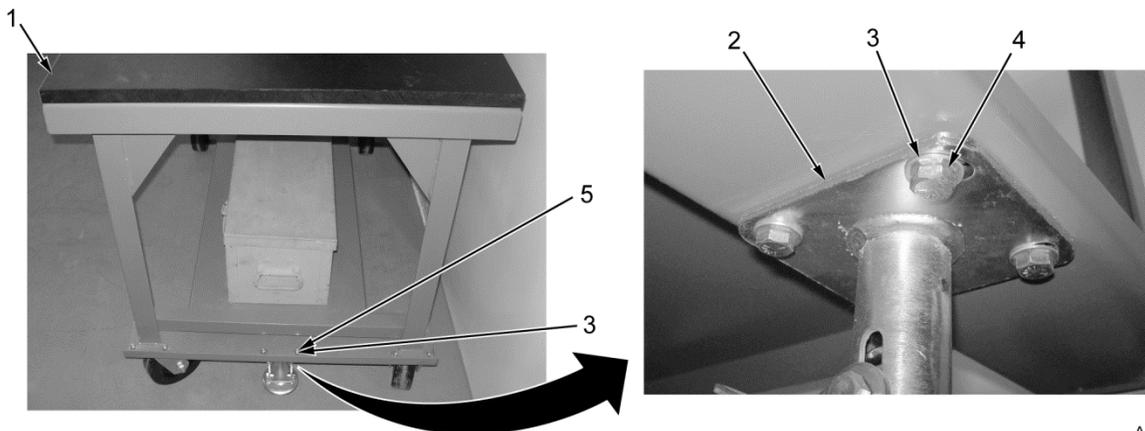
There are three workbench foot locks in the ARSS. The following procedure covers the replacement of one. The remaining two are replaced the same way.

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).



ARSS0042

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)

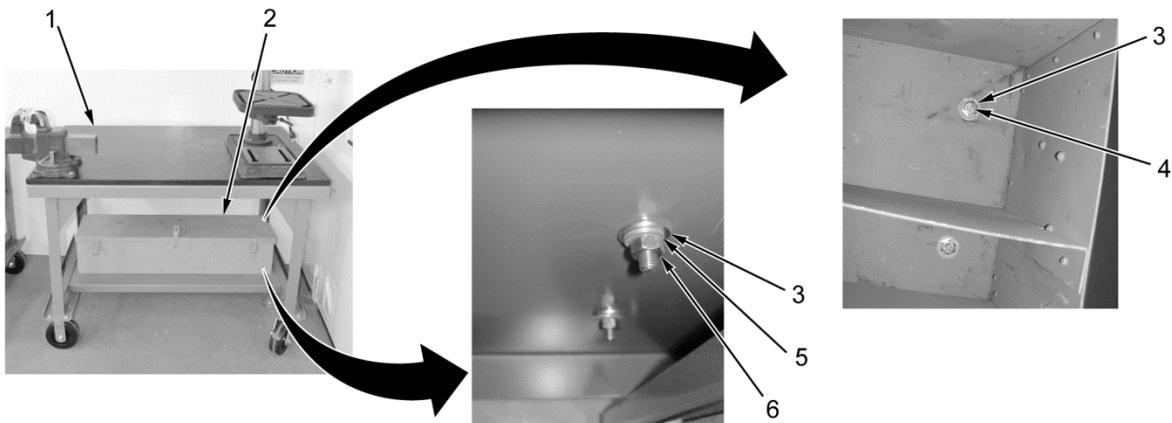
REMOVAL

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

Materials/Parts

Washer, Lock Qty: 6 (WP 0107, Item 31)

Equipment Condition

ARSS setup for operation (WP 0006)

REMOVAL

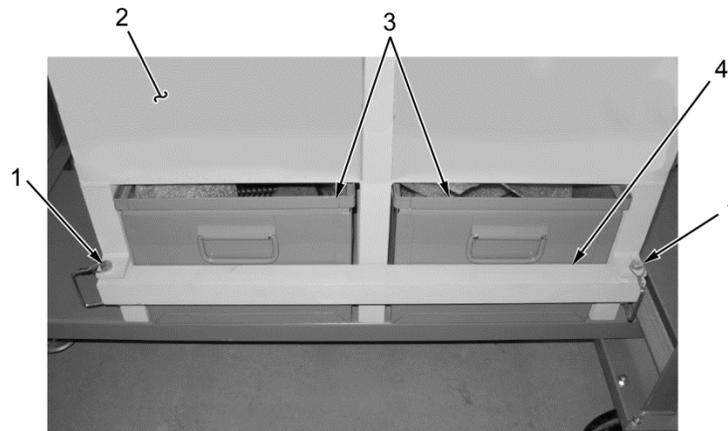
1. Remove two pins (Figure 1, Item 1) and bar (Figure 1, Item 4) from stackbin rack (Figure 1, Item 2).

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).

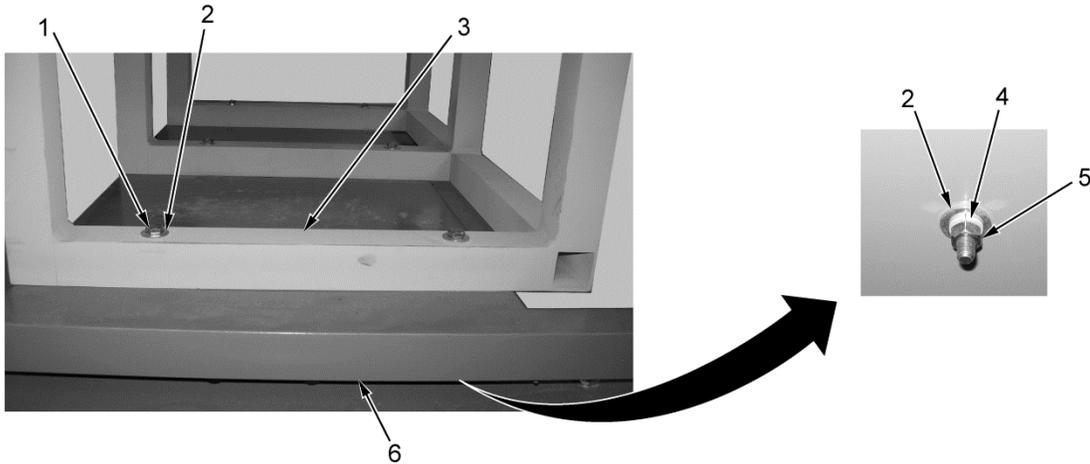


ARSS0019

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.



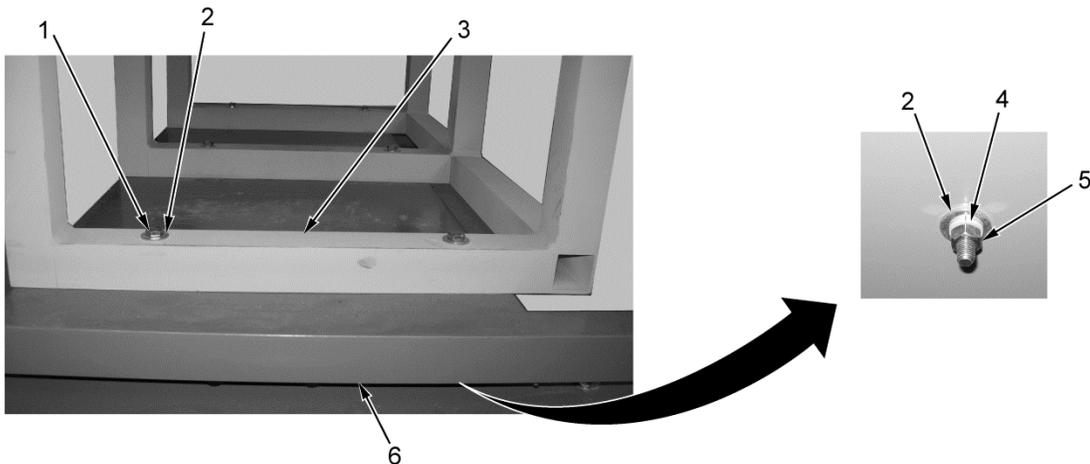
ARSS0020

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).



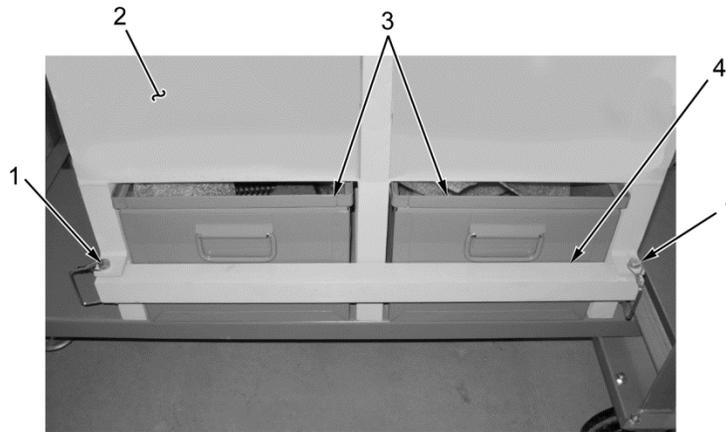
ARSS0021

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 VISE 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)

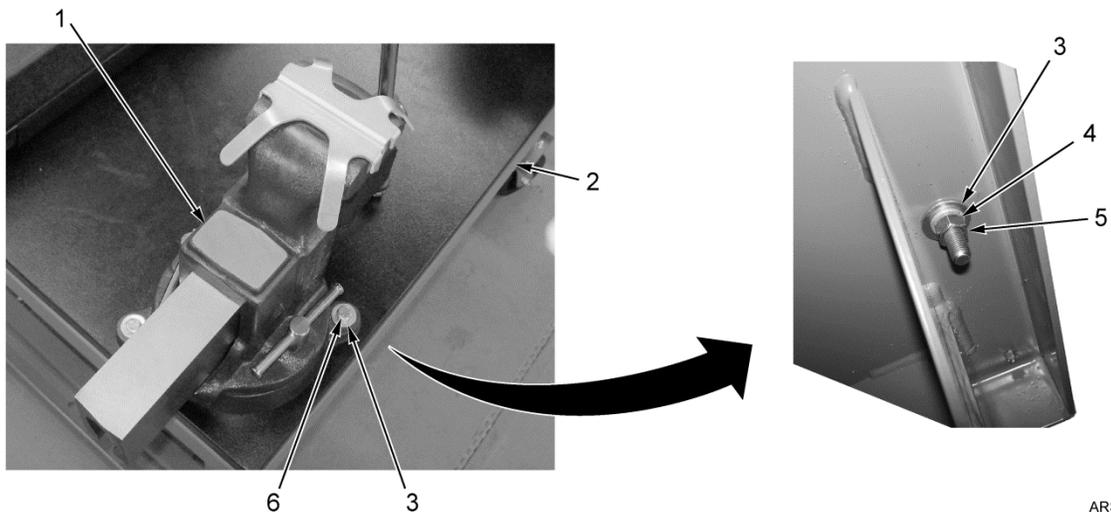
REMOVAL

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)

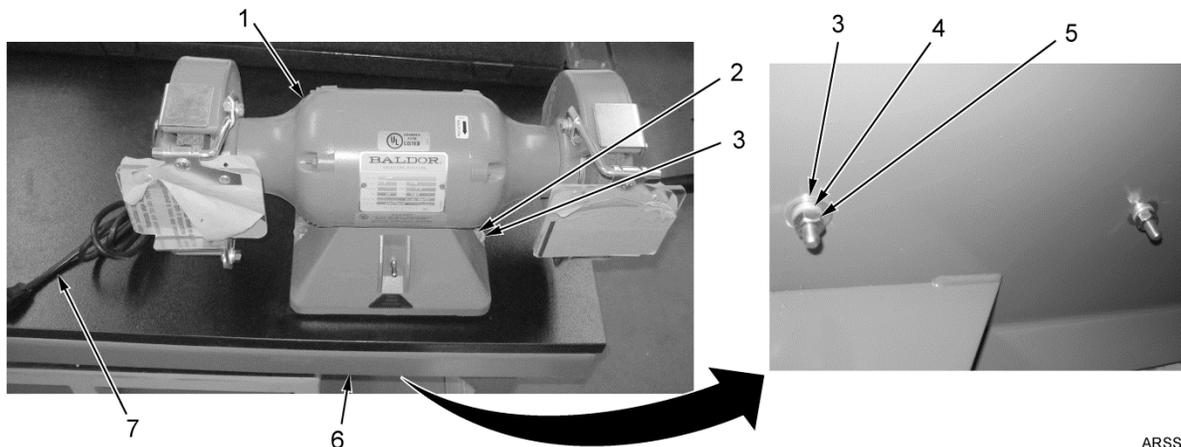
REMOVAL

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.



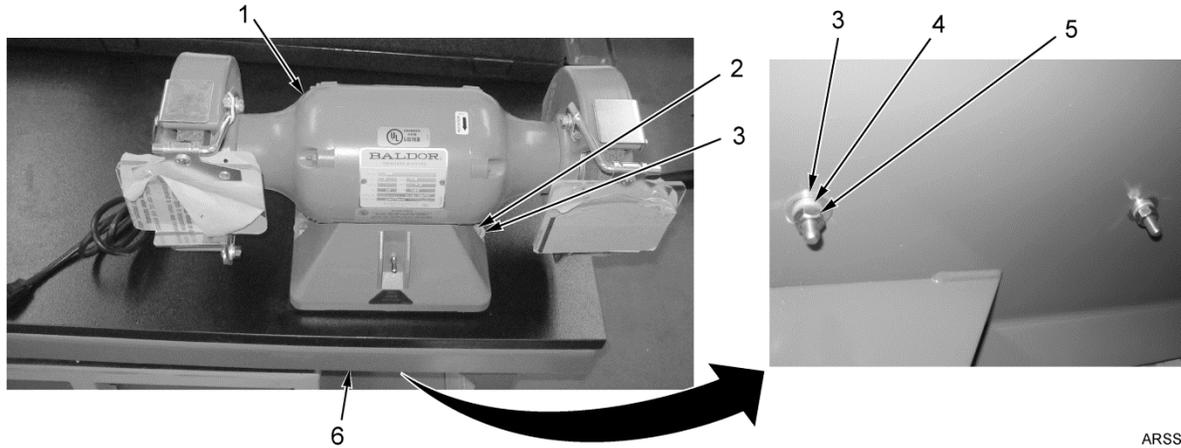
ARSS0040

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).

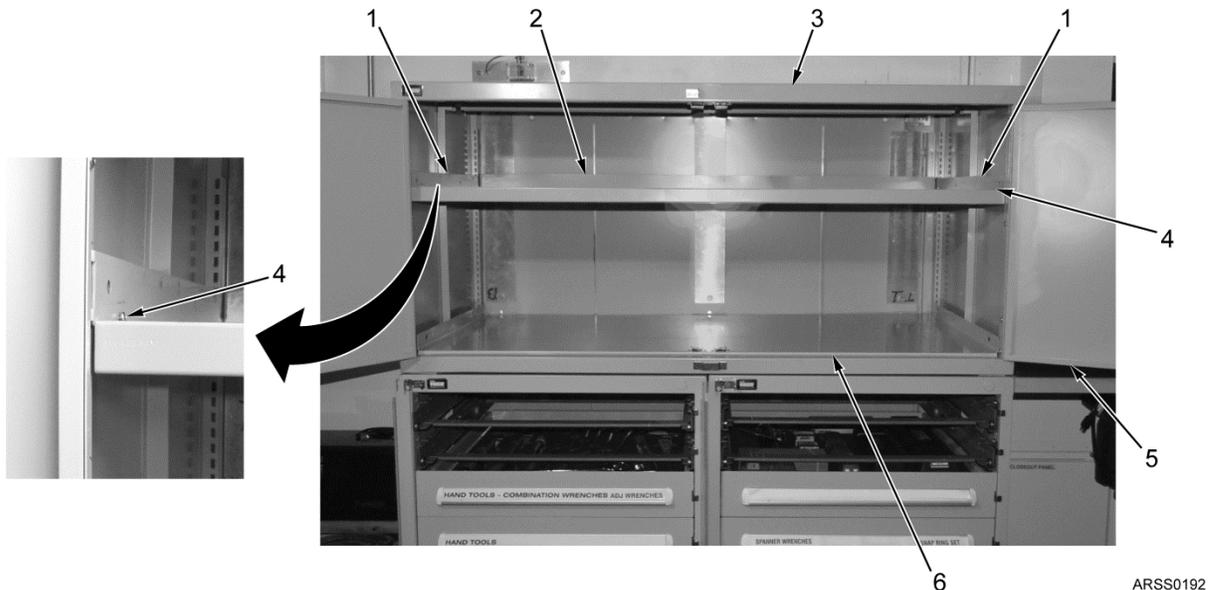
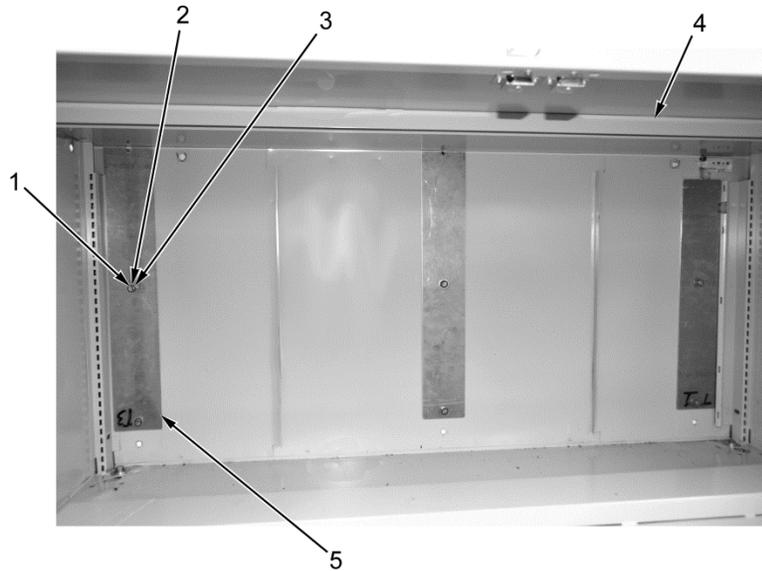


Figure 1. Tool Cabinet D Shelf and Pan Removal.

REMOVAL - Continued

- 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.

- 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.

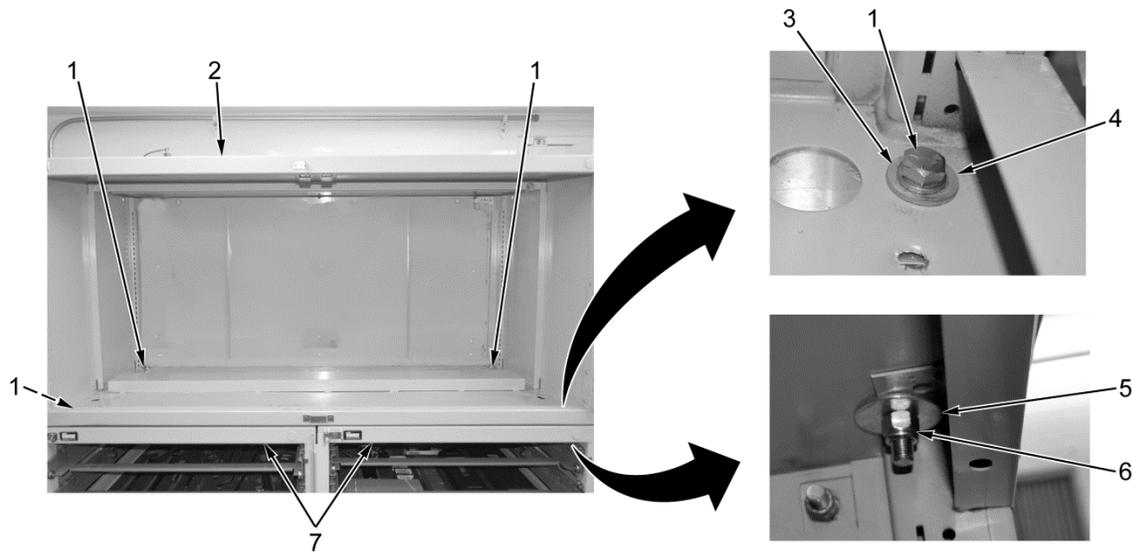
WARNING



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.

- Remove tool cabinet D (Figure 3, Item 2) from tool cabinets B and C (Figure 3, Item 7).

REMOVAL - Continued



ARSS0194

Figure 3. Tool Cabinet D Removal.

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).

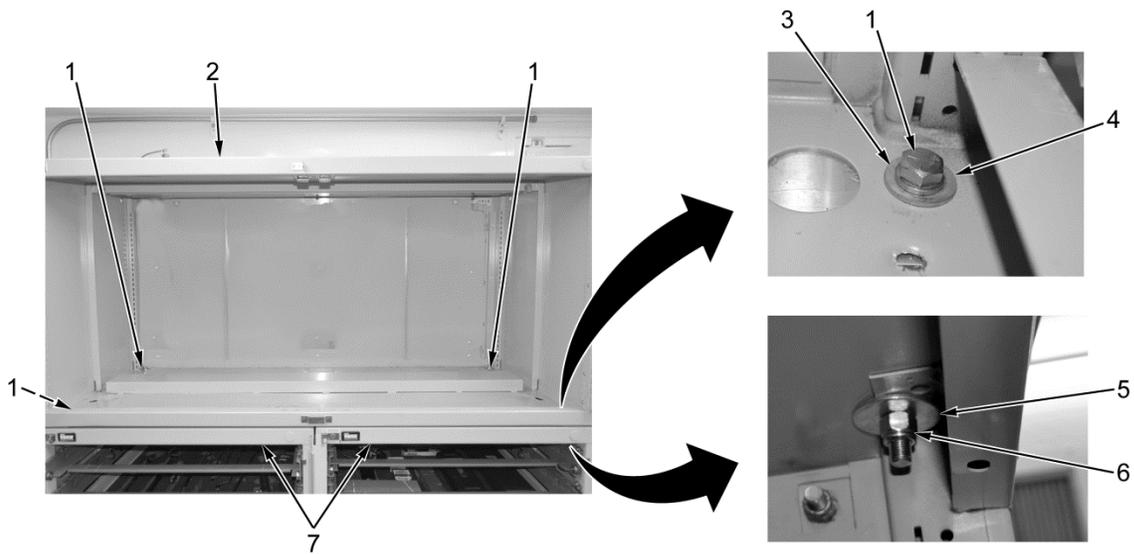
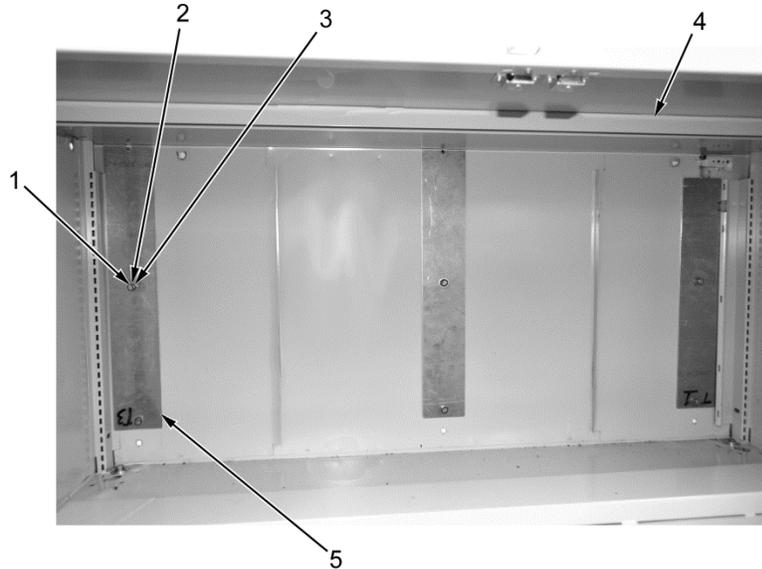


Figure 4. Tool Cabinet D Installation.

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.

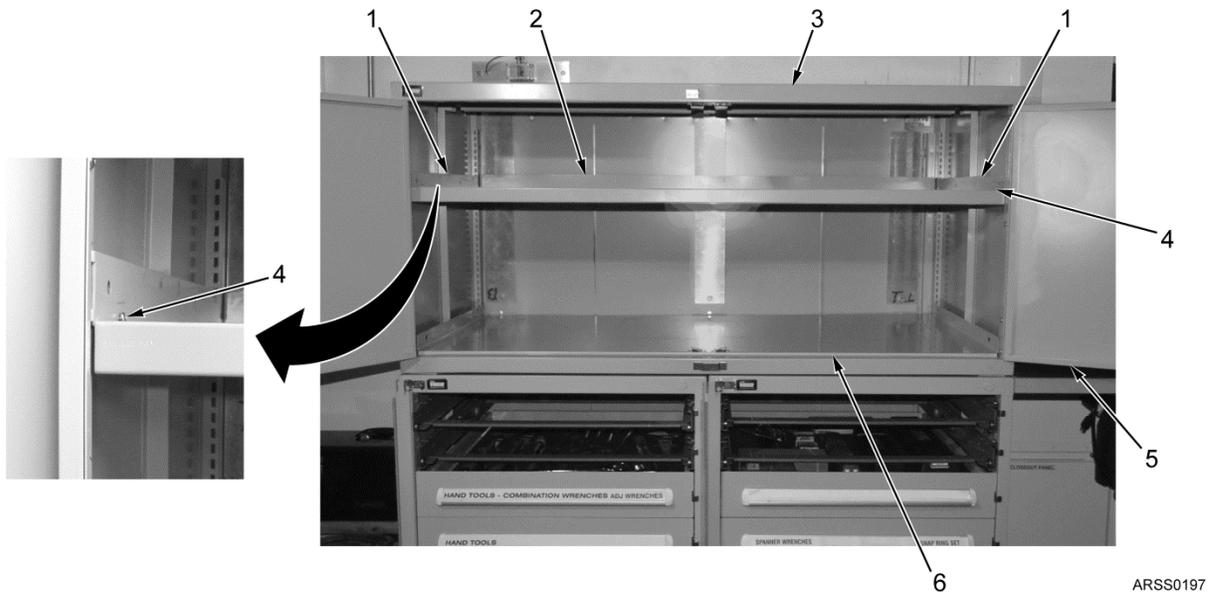


Figure 6. Tool Cabinet D Shelf and Pan Installation.

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).



ARSS0086

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

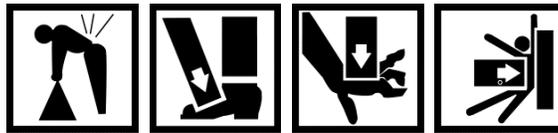
Tool cabinet drawers removed (WP 0076)

Personnel Required

Wheeled Vehicle Mechanic - 91B
Non-Specific MOS

REMOVAL**NOTE**

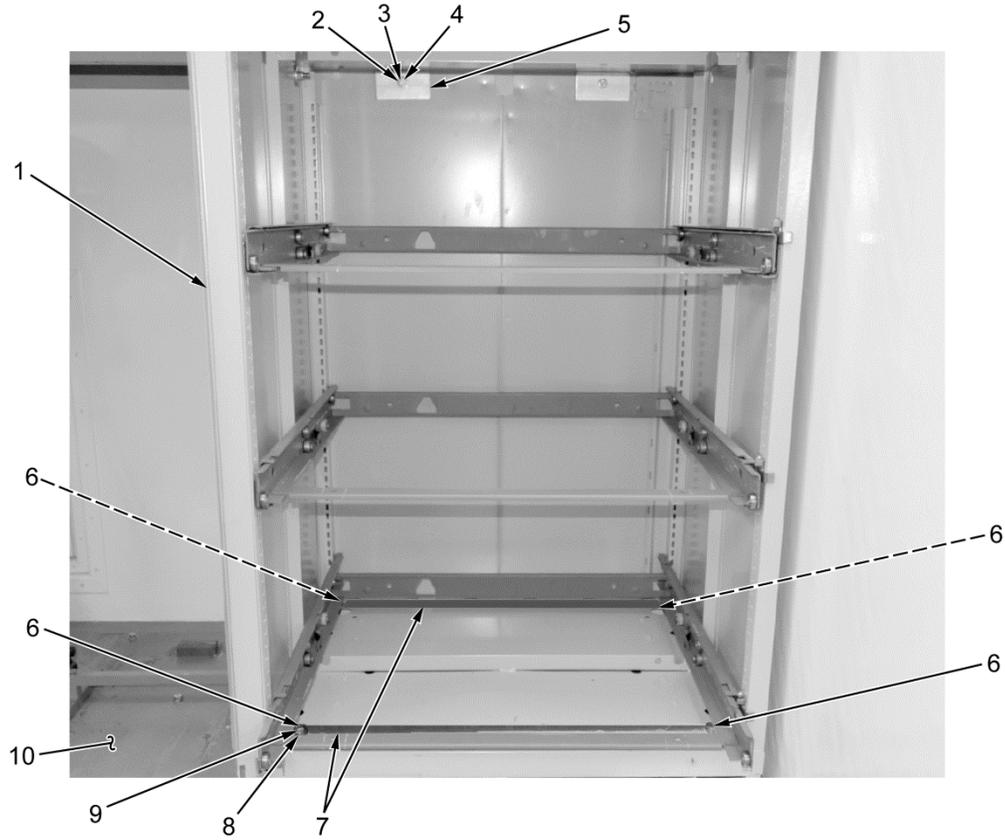
- The following procedure covers the removal of tool cabinets A, B, and C. Perform the following equipment condition depending on which tool cabinet is being removed.
 - If removing tool cabinet A, perform Step 1.
 - If removing tool cabinet B, perform Step 2.
 - If removing tool cabinet C, perform Step 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



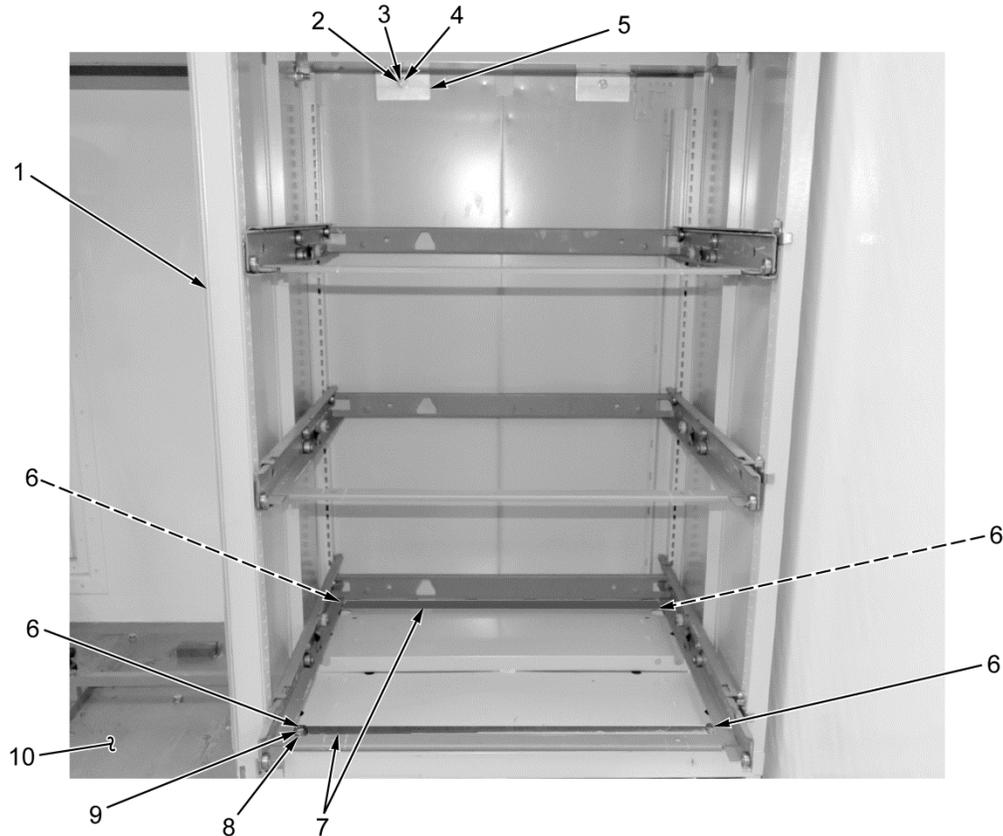
ARSS0190

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.

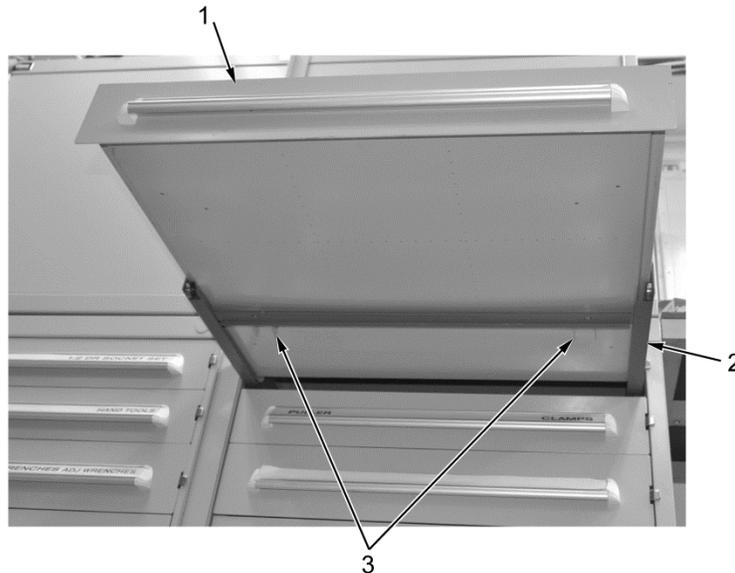
REMOVAL - Continued**WARNING**

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)

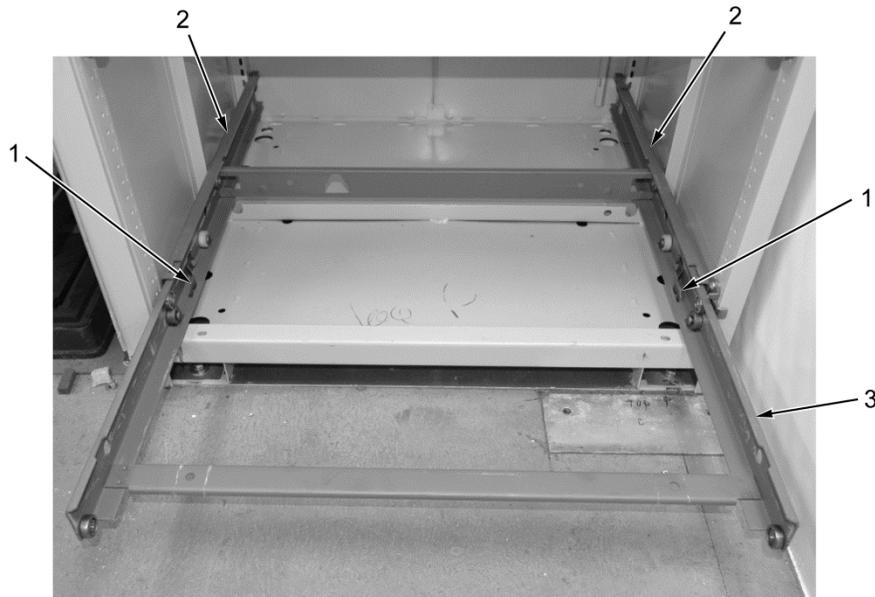
Personnel Required

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**

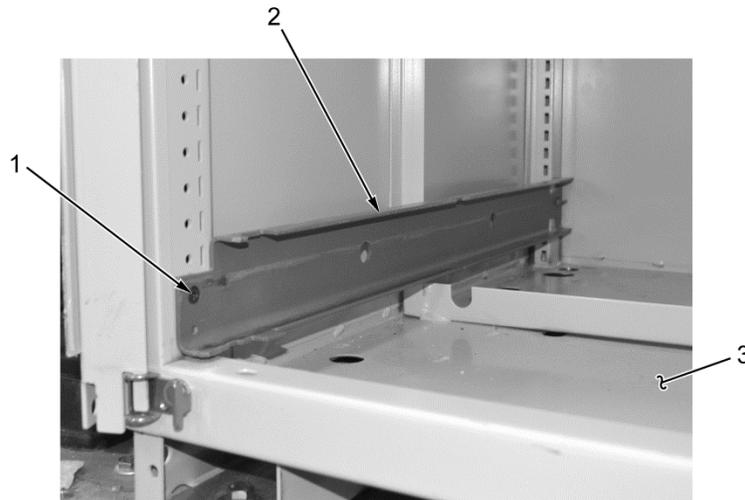
- The following Step shows the left slide plate. The right slide plate is removed the same way.
- Mark location of slides plates on cabinet prior to removal to aid in installation.

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).



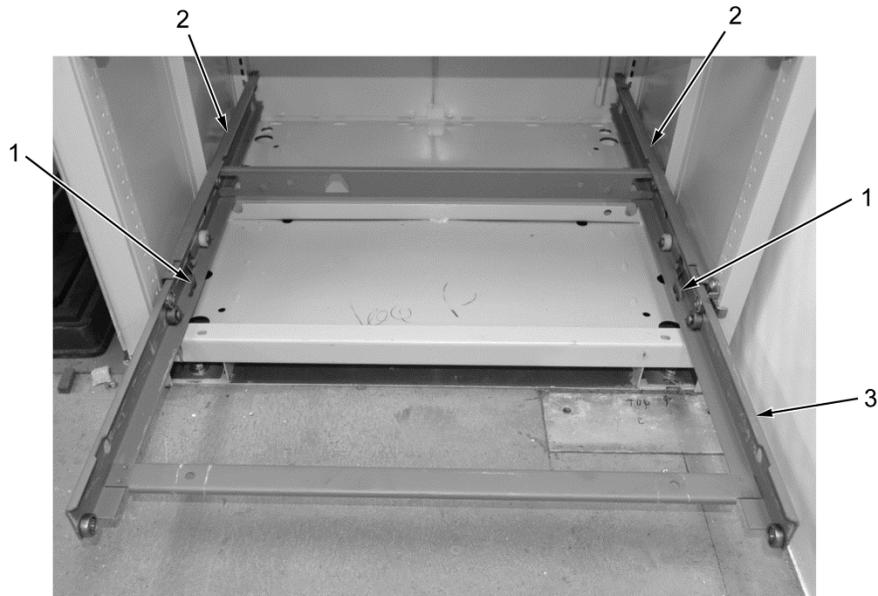
ARSS0153

Figure 2. Slide Plate Replacement.

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)

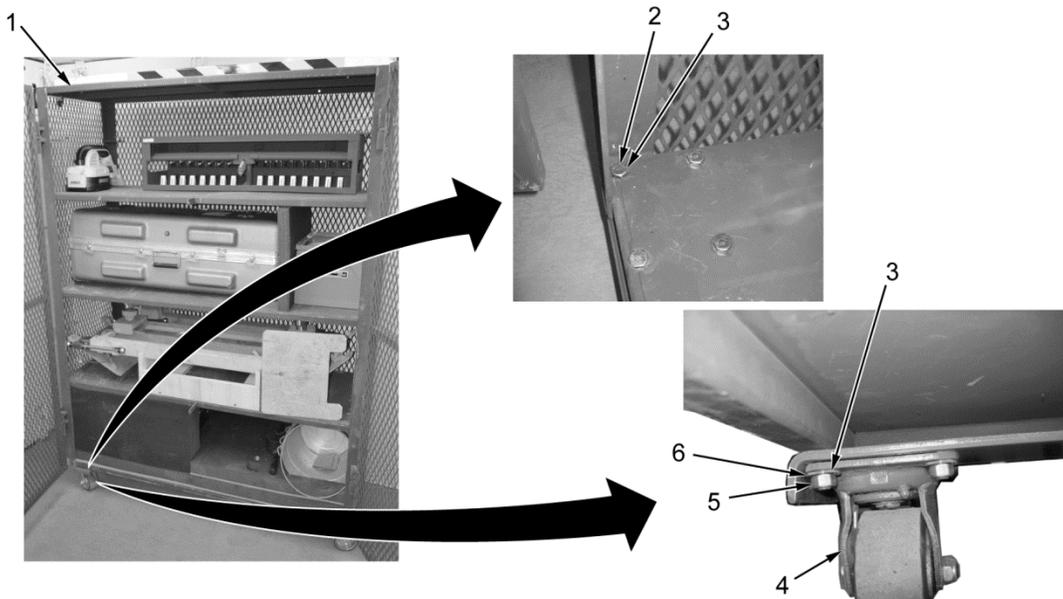
REMOVAL**NOTE**

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.



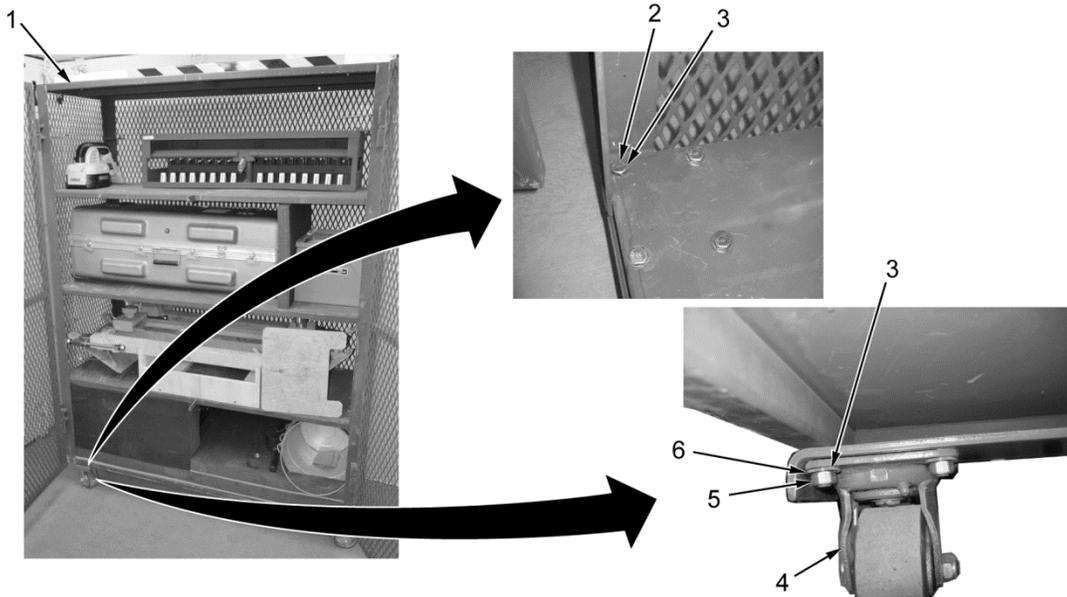
ARSS0011

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)

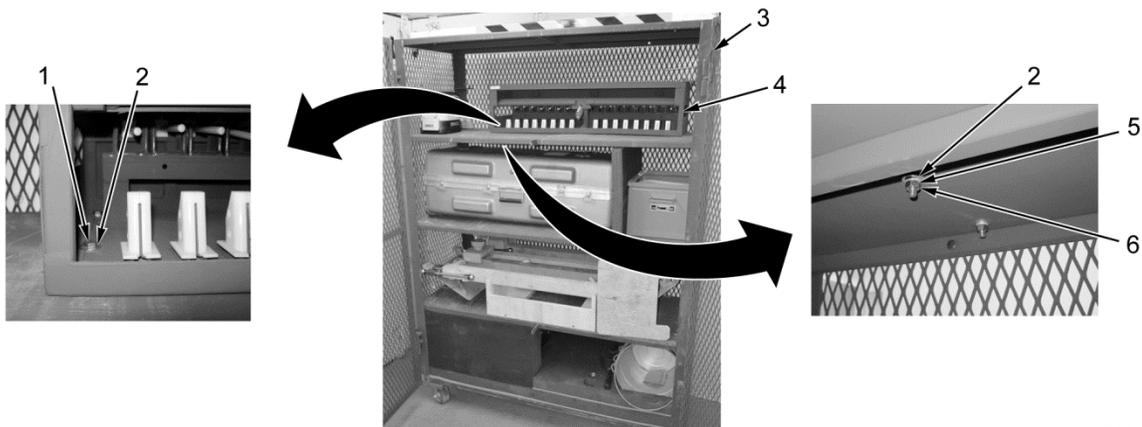
REMOVAL

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

Materials/Parts

Washer, Lock Qty: 3 (WP 0109, Item 20)

Equipment Condition

ARSS setup for operation (WP 0006)

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).

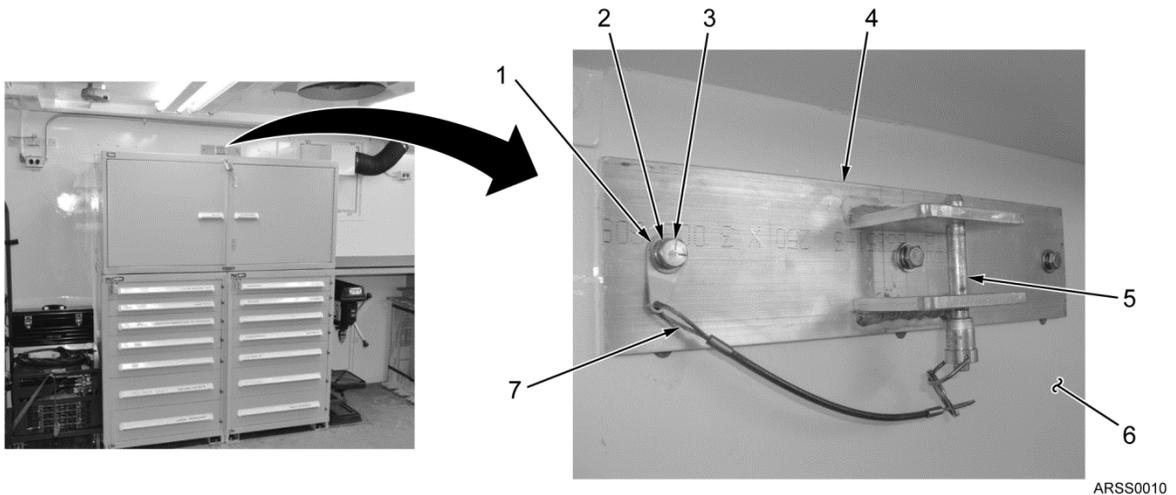


Figure 1. Ammo Cabinet Bracket Replacement

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**

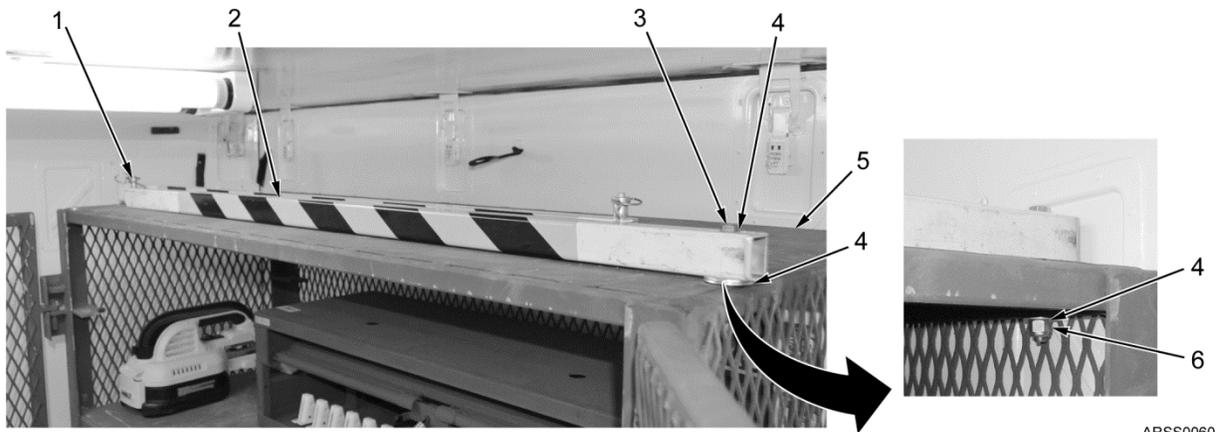
There are two inner/outer rod lateral brackets in the ARSS on top of ammo cabinet. The following procedure covers one inner/outer rod lateral bracket. The remaining inner/outer rod lateral bracket is replaced the same way.

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).



ARSS0060

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

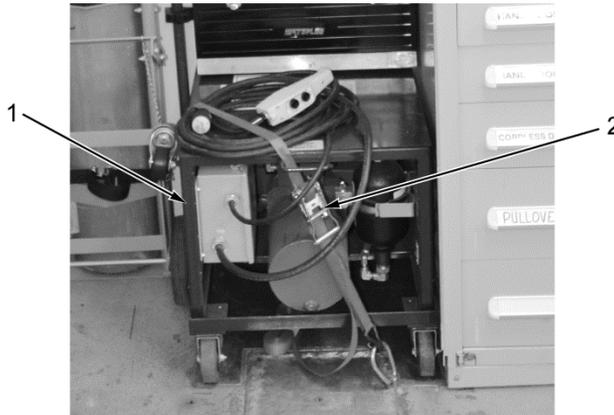
Wheeled Vehicle Mechanic - 91B

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.

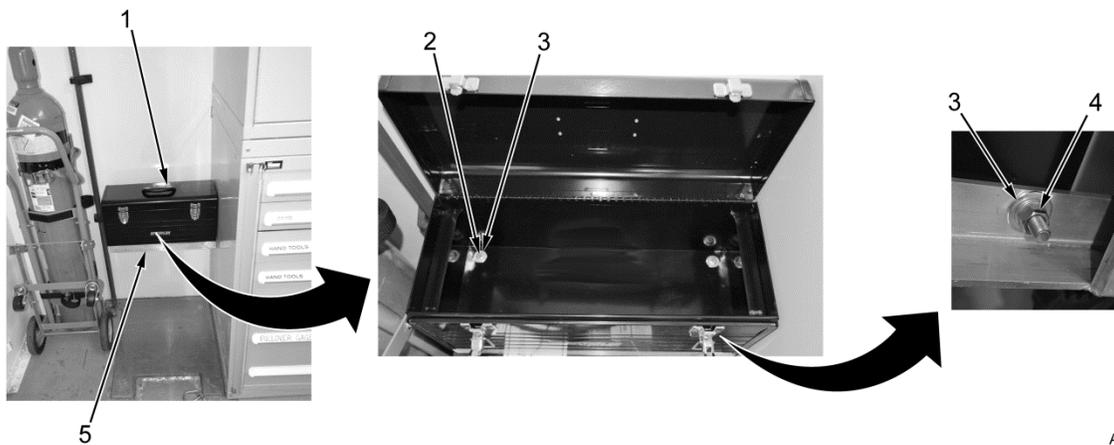
REMOVAL - Continued

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

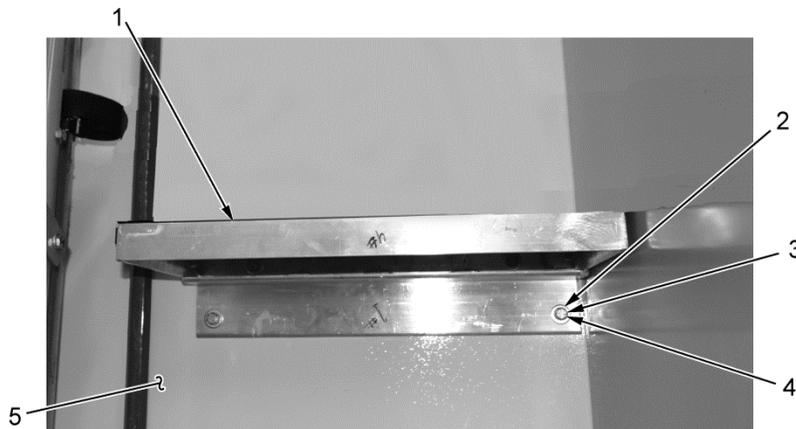
Tool box removed (WP 0082)

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.

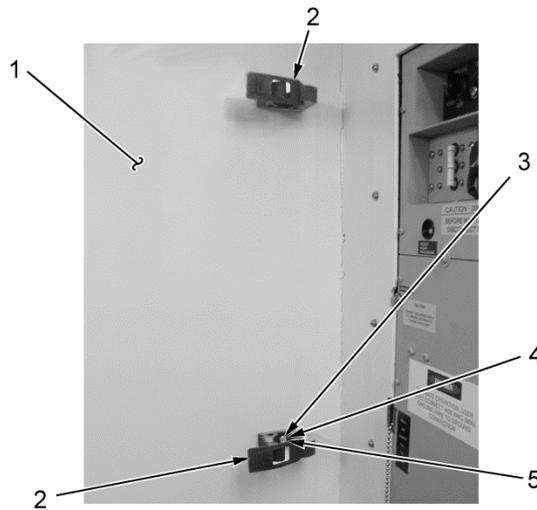
REMOVAL - Continued

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

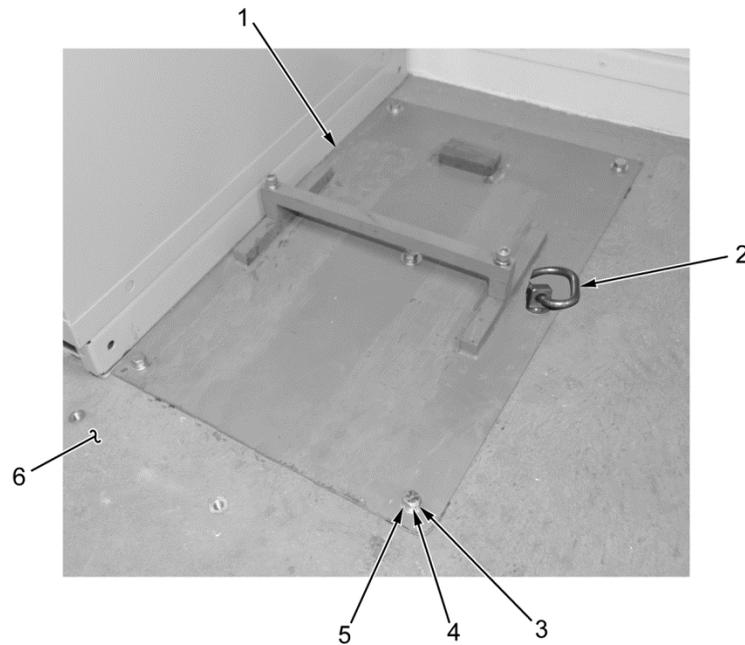
Washer, Lock Qty: 5 (WP 0122, Table 2,
Item 4)

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).

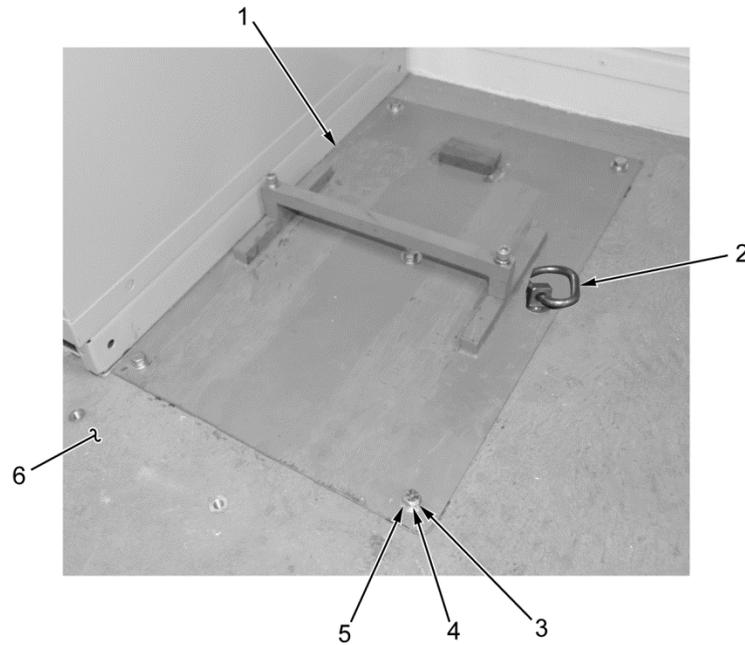


Figure 2. Drill Press Bracket Installation.

ARSS0158

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.

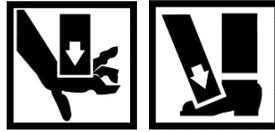


ARSS0074

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

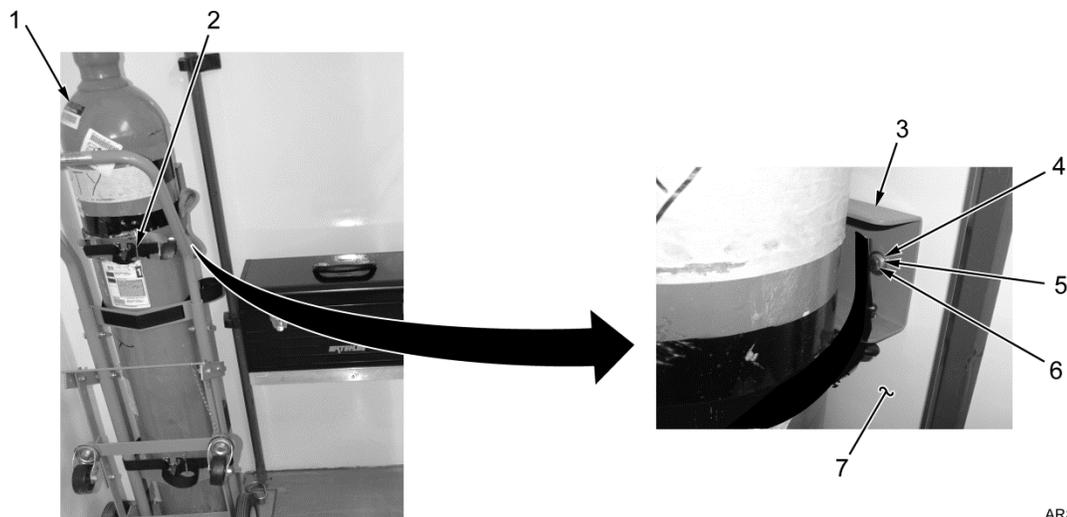
There are two wall mounts on shelter wall for the compressed gas cylinder. The following procedure covers replacement of one wall mount. The remaining wall mount is replaced the same way.

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).

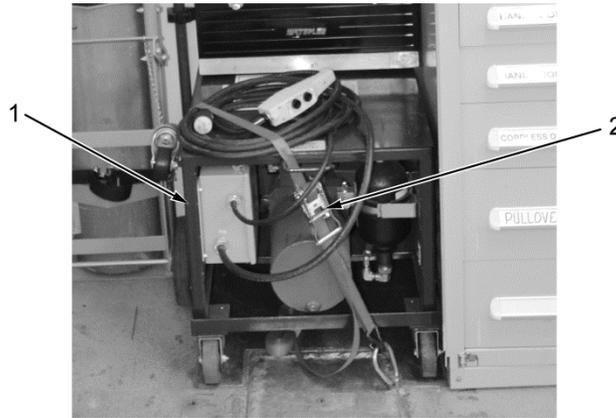


ARSS0050

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)

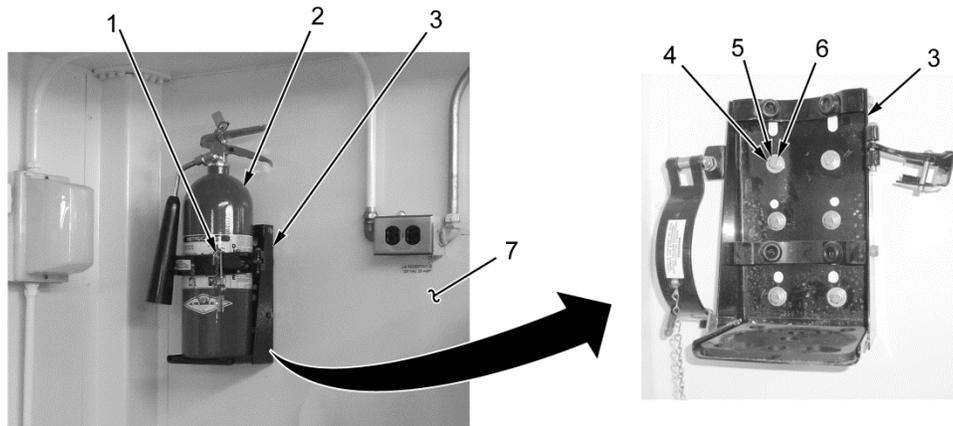
REMOVAL

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)

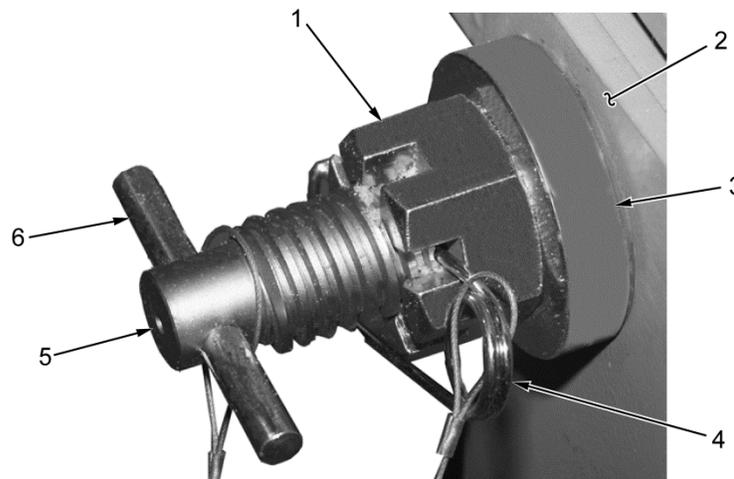
GENERAL INFORMATION

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).

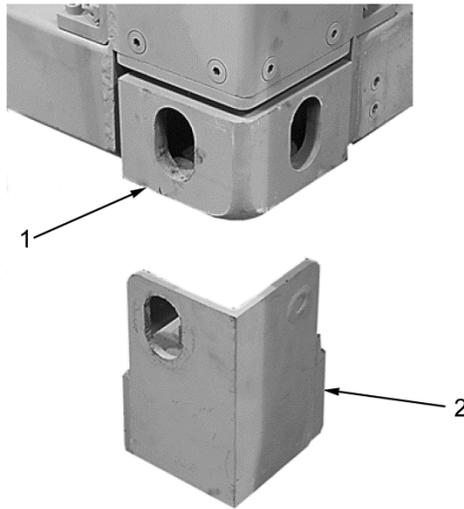


ARSS0408

Figure 1. ISO block T-lock Removal.

LOADING SHELTER ONTO TRAILER - Continued

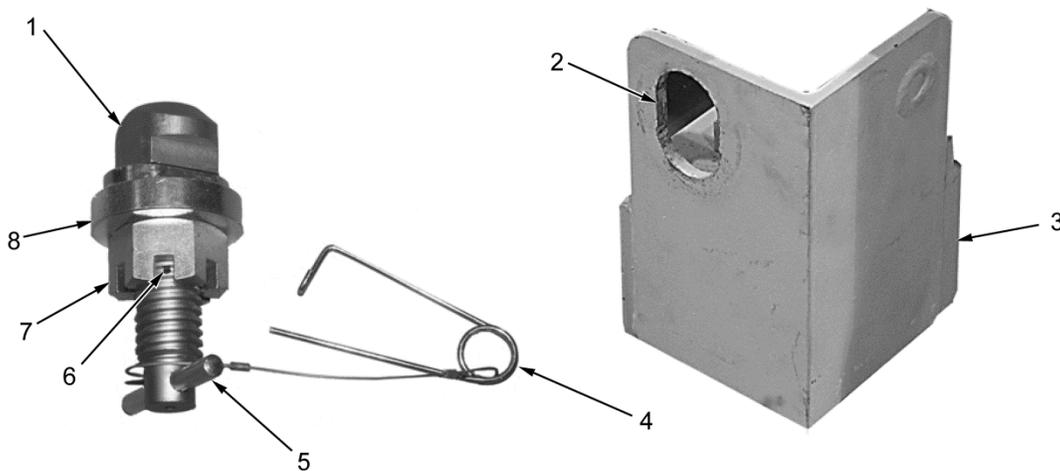
5. Lift shelter in accordance with Shelter Handling (TM 10-5411-201-14) about 18 in (45.7 cm) off ground.
6. Attached ISO extension block (Figure 2, Item 2) to each of four corners (Figure 2, Item 1) of shelter by following Steps 7 thru 10.



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.

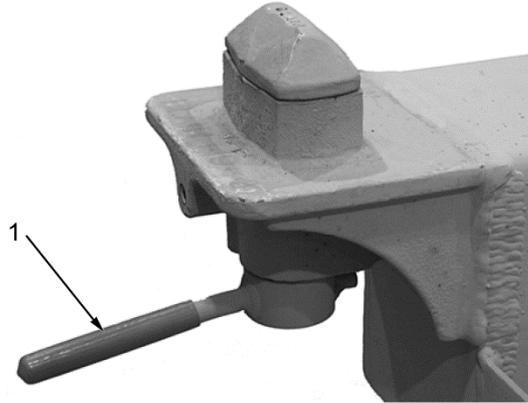


ARSS0410

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.

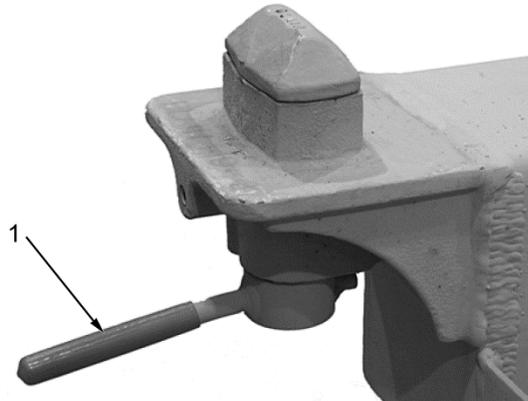


ARSS0411

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.

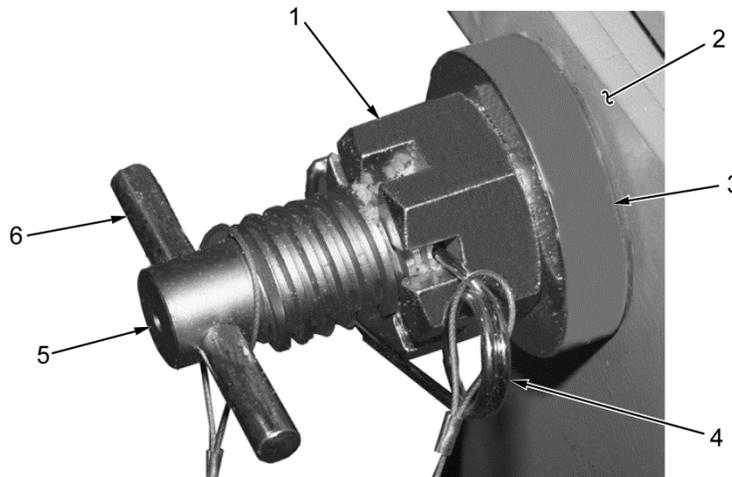
REMOVING SHELTER FROM TRAILER - Continued

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

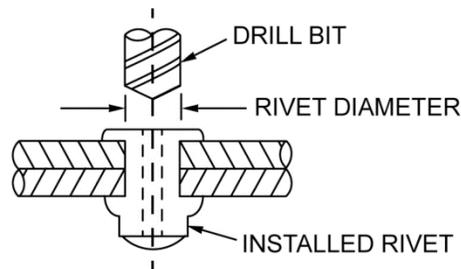
Equipment Condition

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).



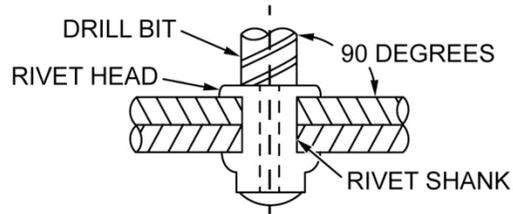
ARSS0066

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).

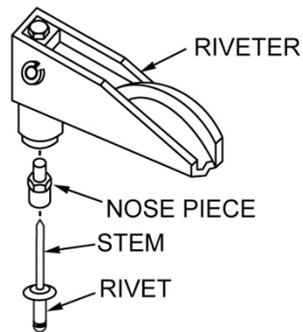


ARSS0067

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).

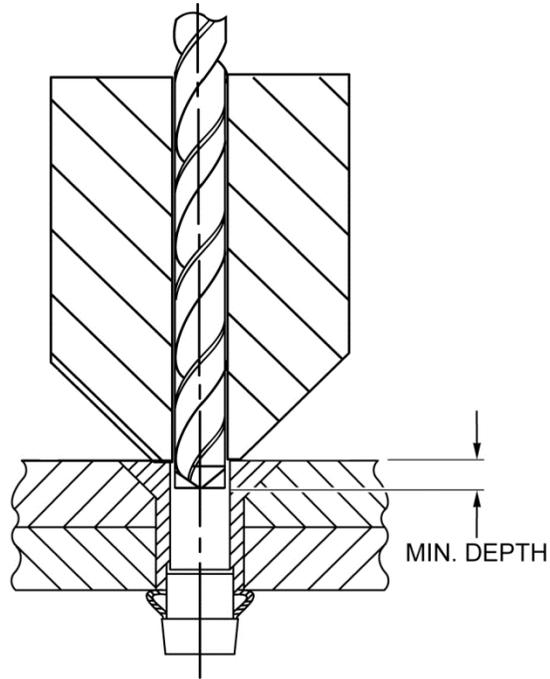


ARSS0068

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.

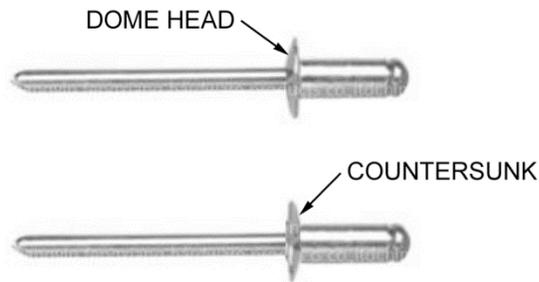
			DOME HEAD				120 DEGREE COUNTERSUNK	
			Aluminum Closed-End with Steel Mandrel		Aluminum Closed-End with Aluminum Mandrel		Aluminum Closed-End with Steel Mandrel	
	D	H	E	W	E	W	E	W
Nominal Rivet Diameter	Nominal Body Diameter	Nominal Head Diameter	Nominal Head Weight	Nominal Mandrel Diameter	Nominal Head 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	



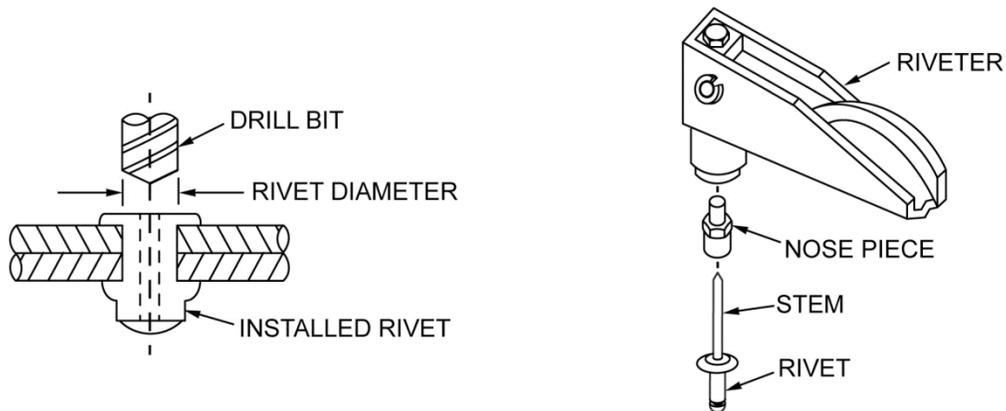
ARSS0070

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

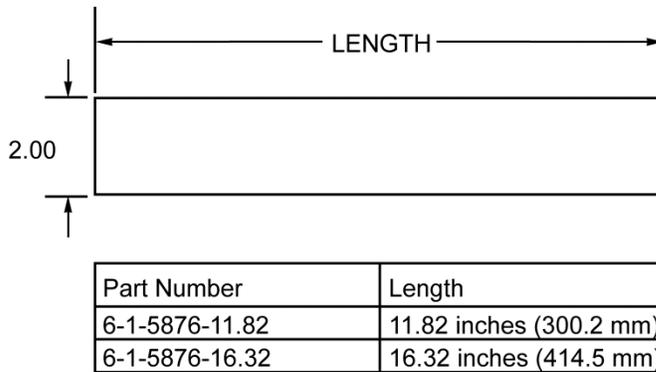
HOOK AND LOOP FASTENER TAPE

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:

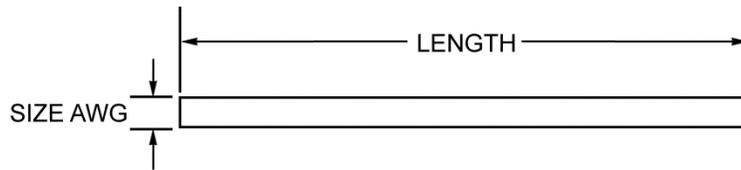
QTY	DESCRIPTION	PART NO./(CAGEC)	NSN
1	Wire, Electrical (Black)	7125K692 (39428)	6145-01-625-9849
2	Wire, Electrical (White)	7125K697 (39428)	6145-01-625-9857
3	Wire, Electrical (Red)	7125K696 (39428)	6145-01-625-9853
4	Wire, Electrical (White)	7125K451 (39428)	6145-01-627-3979
5	Wire, Electrical (Blue)	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.

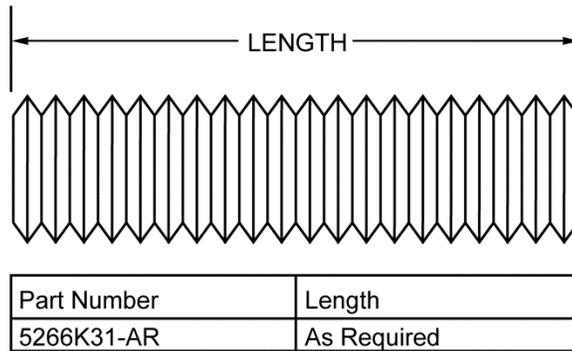
FLEXIBLE DUCT

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.

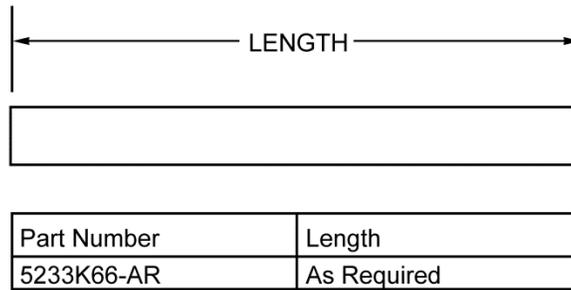
NONMETALLIC TUBING

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.

<u>Source Code</u> XX	<u>Maintenance Code</u> XX	<u>Recoverability Code</u> 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.

<u>Source Code</u>	<u>Application/Explanation</u>
PA	
PB	
PC	NOTE
PD	Items coded PC are subject to deterioration.
PE	
PF	
PG	
PH	
PR	
PZ	
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.

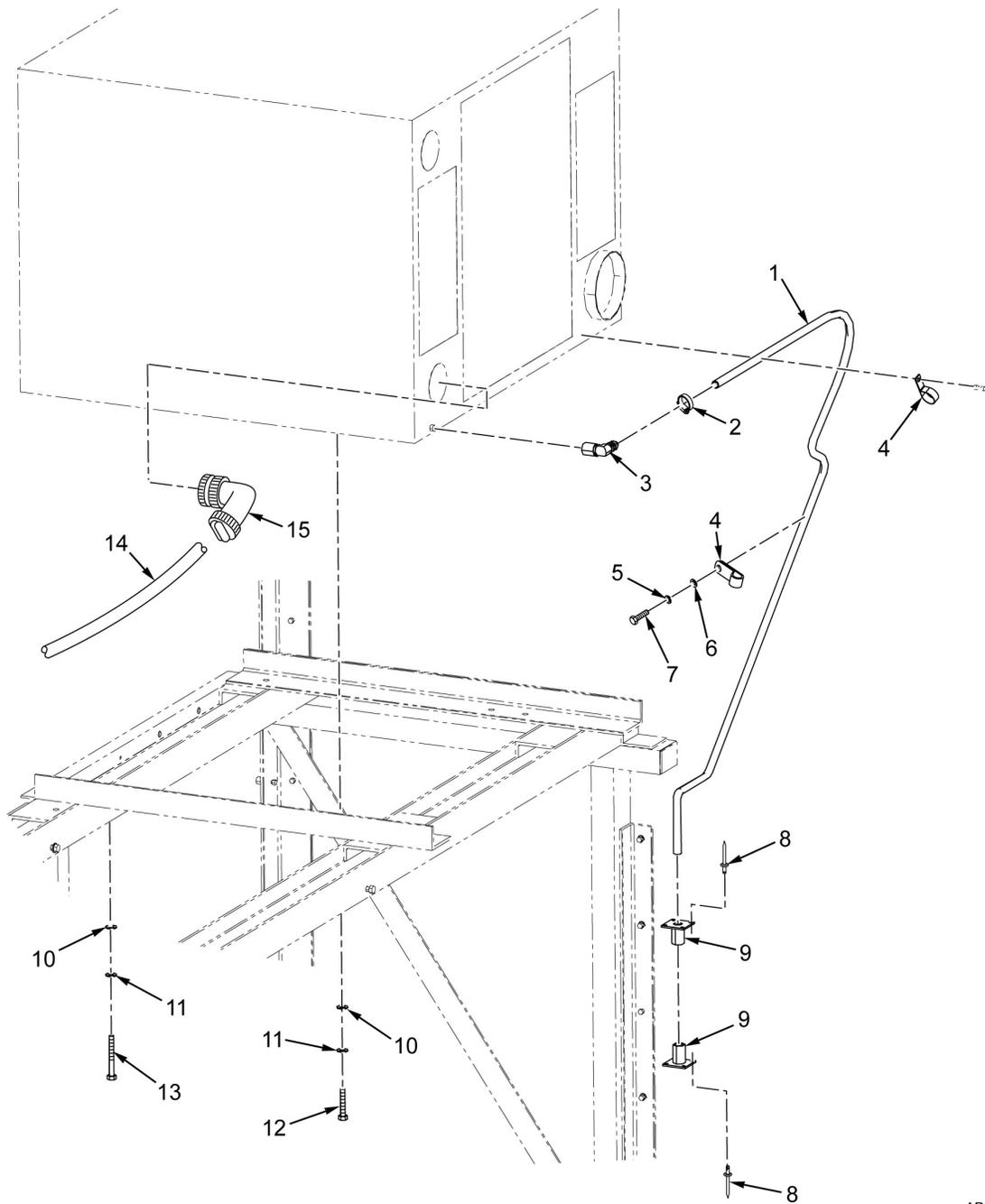
- a. First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.
- b. Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

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)**



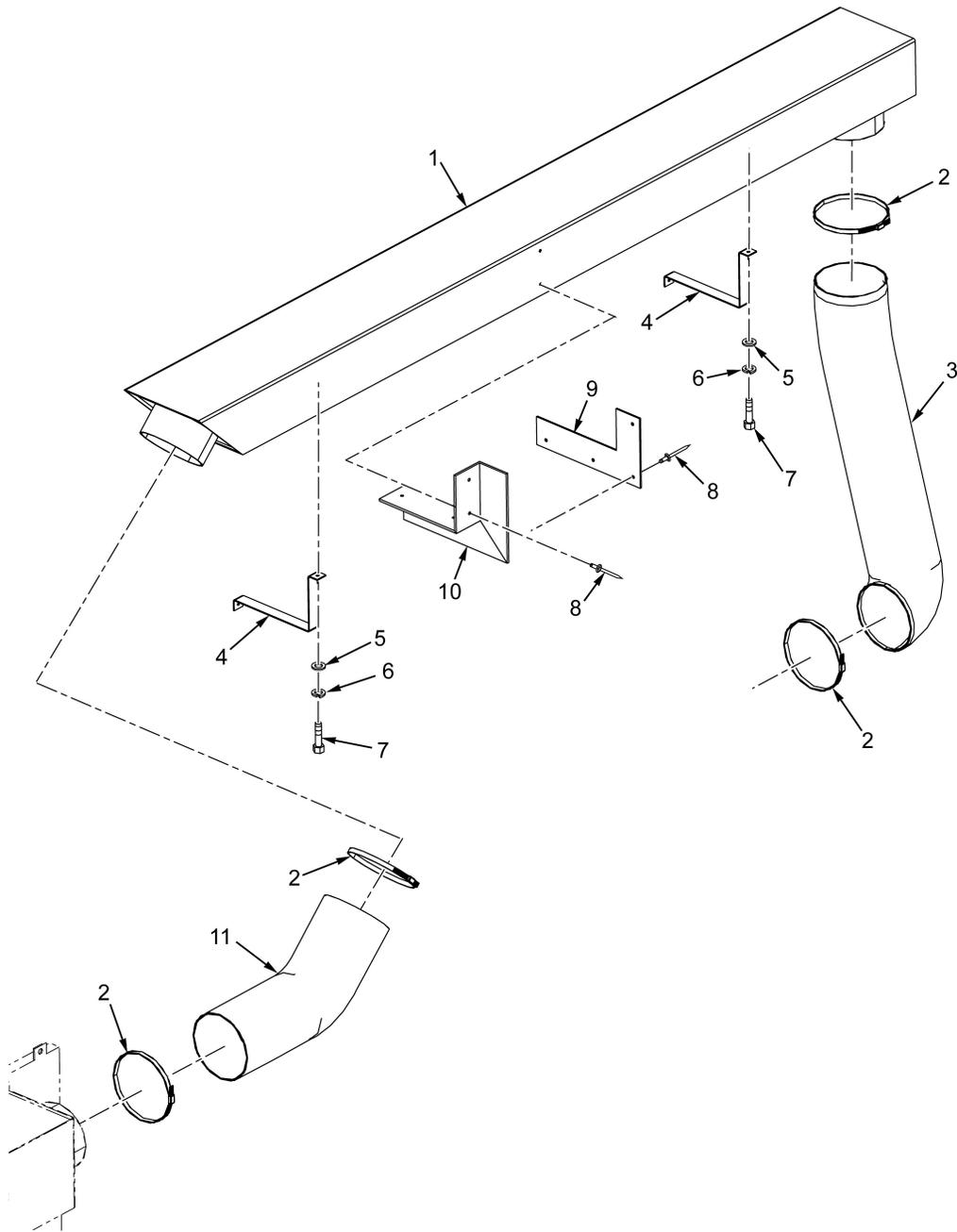
ARR014

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**

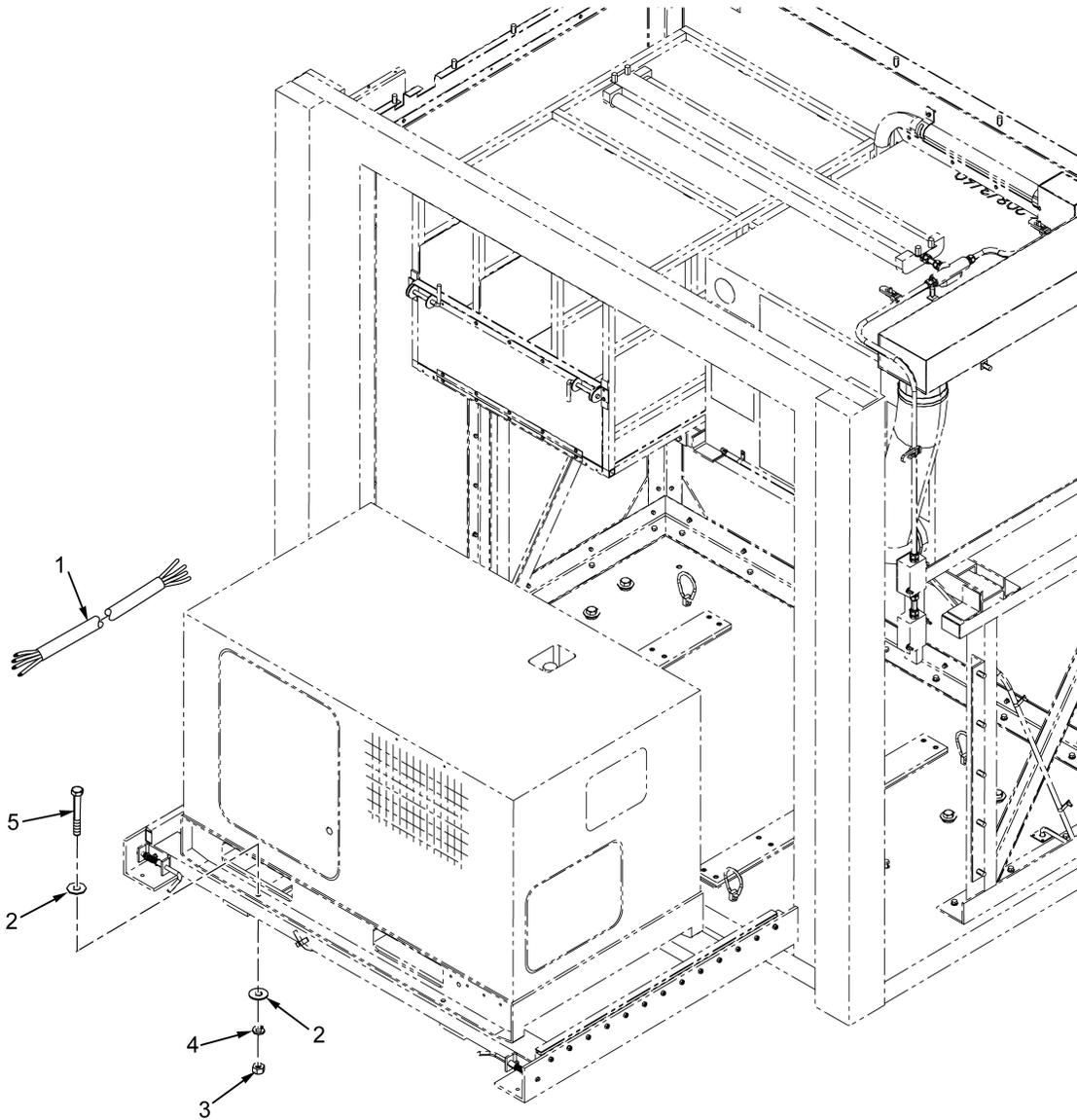


ARR013

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**



ARR026

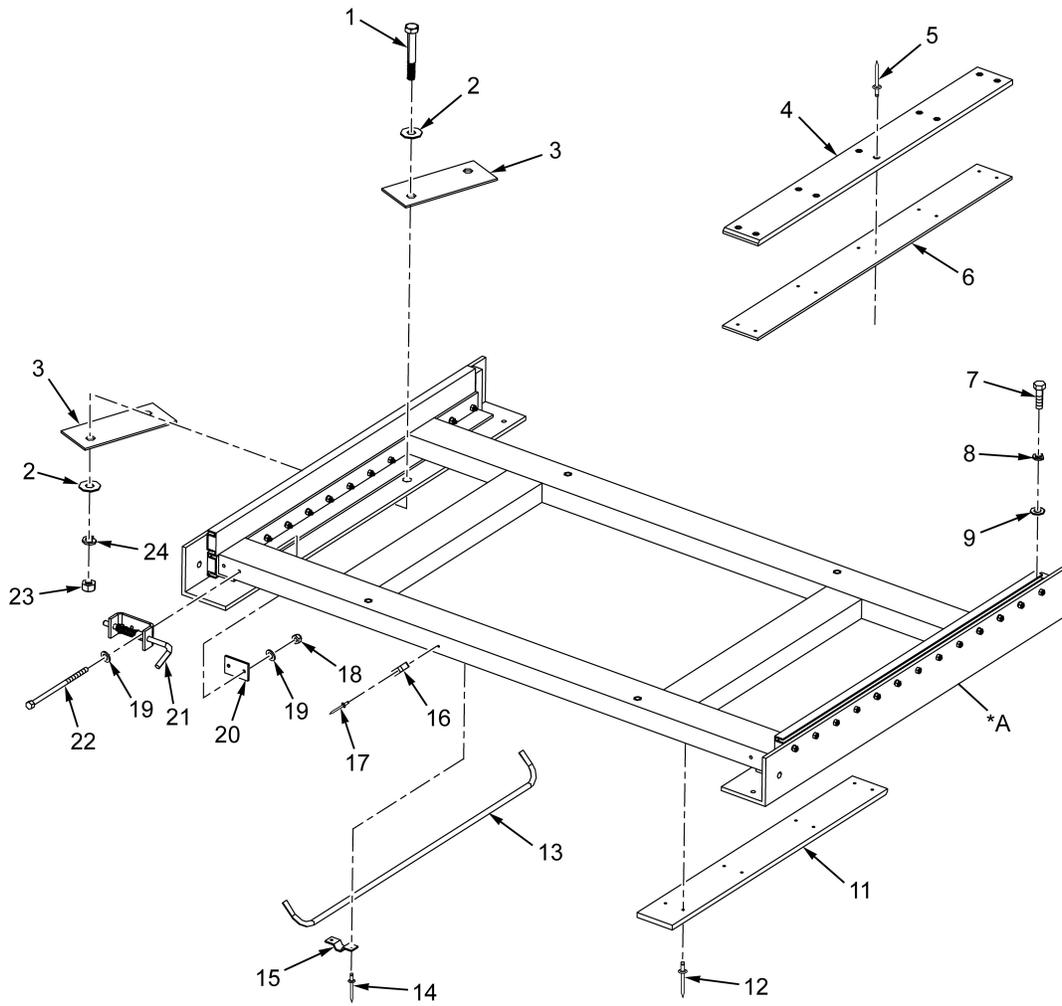
Figure 3. GENERATOR

(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**

10
[11 THRU 22]



*A PART OF ITEM 10

ARR019

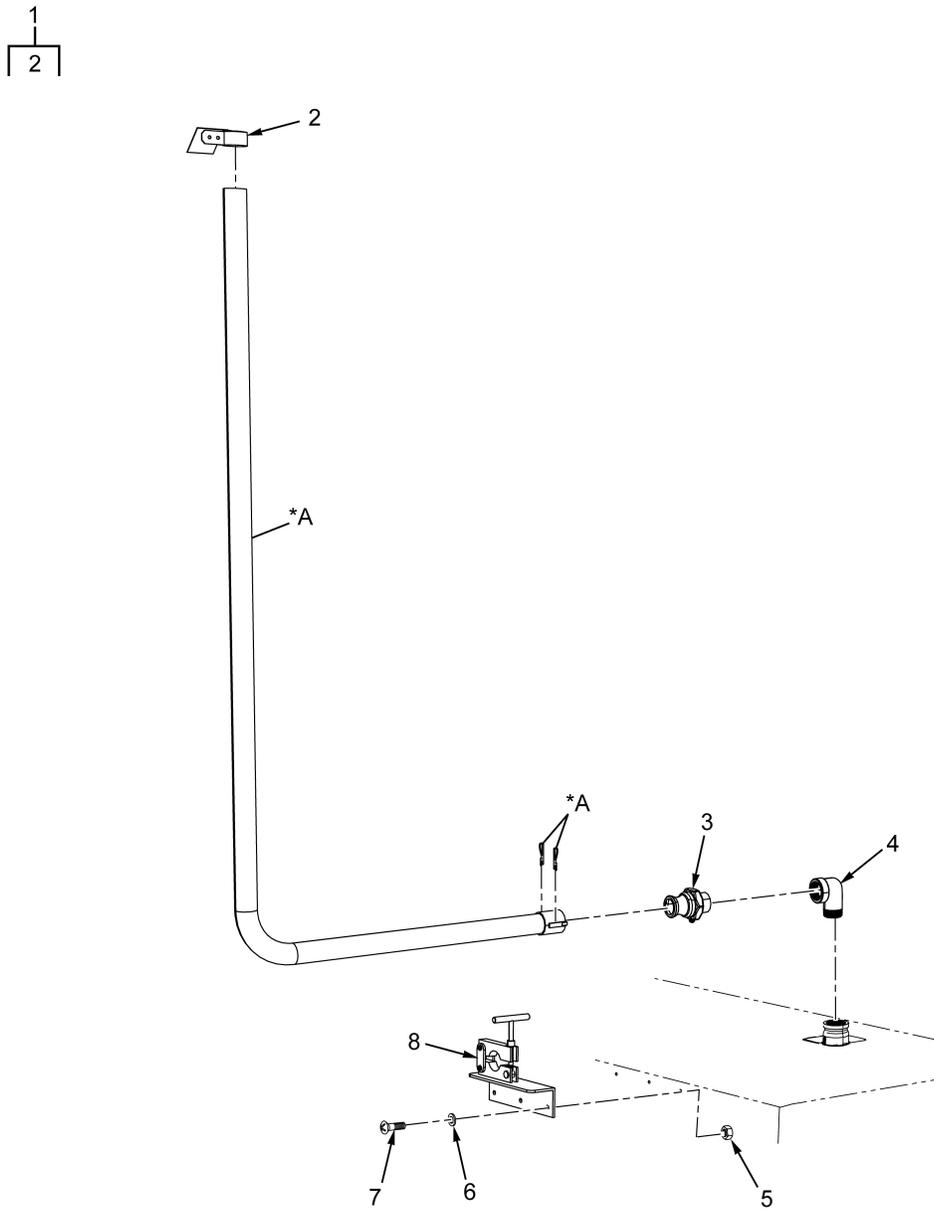
Figure 4. GENERATOR SLIDE ASSEMBLY

(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

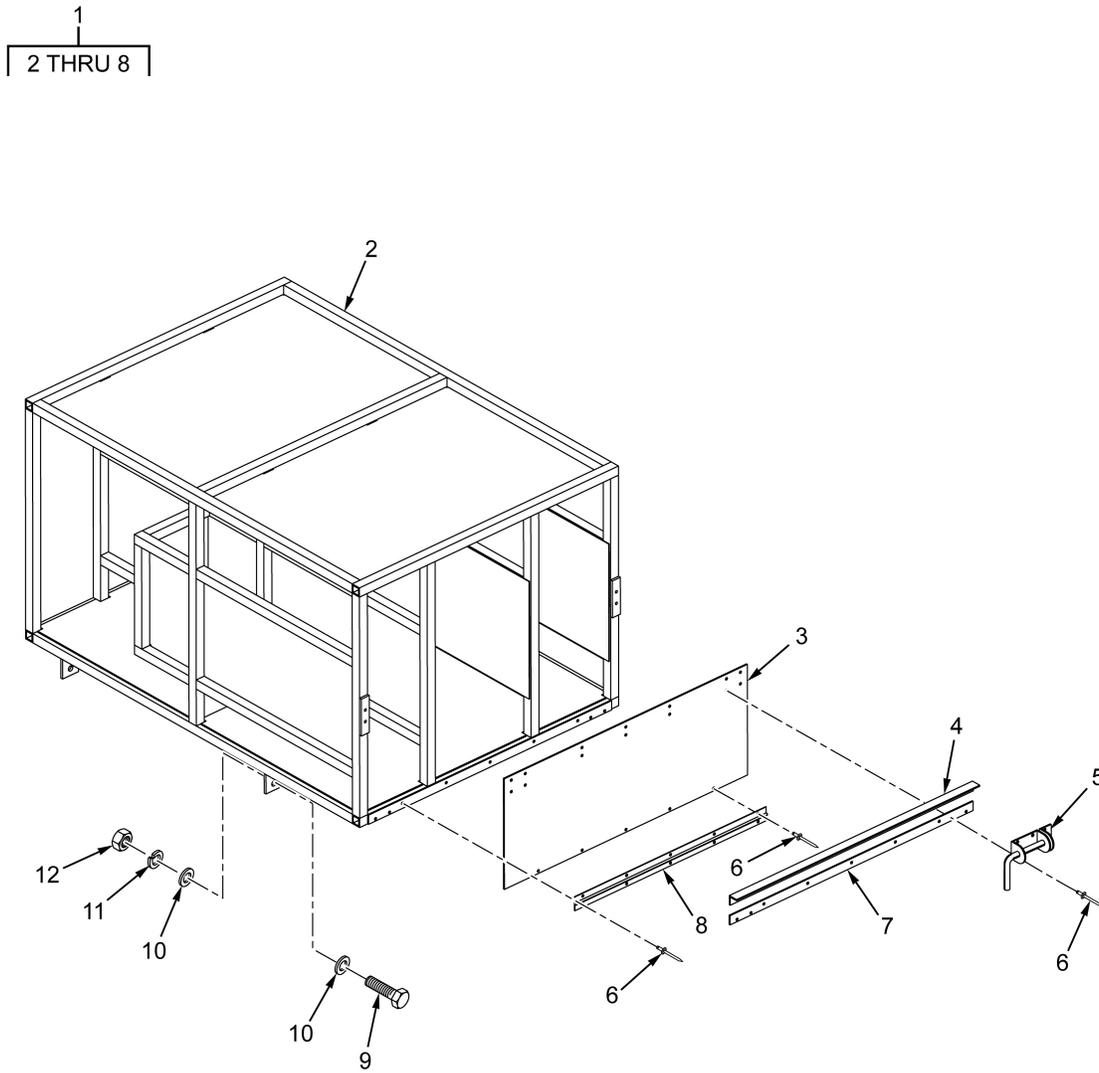
ARR005

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**



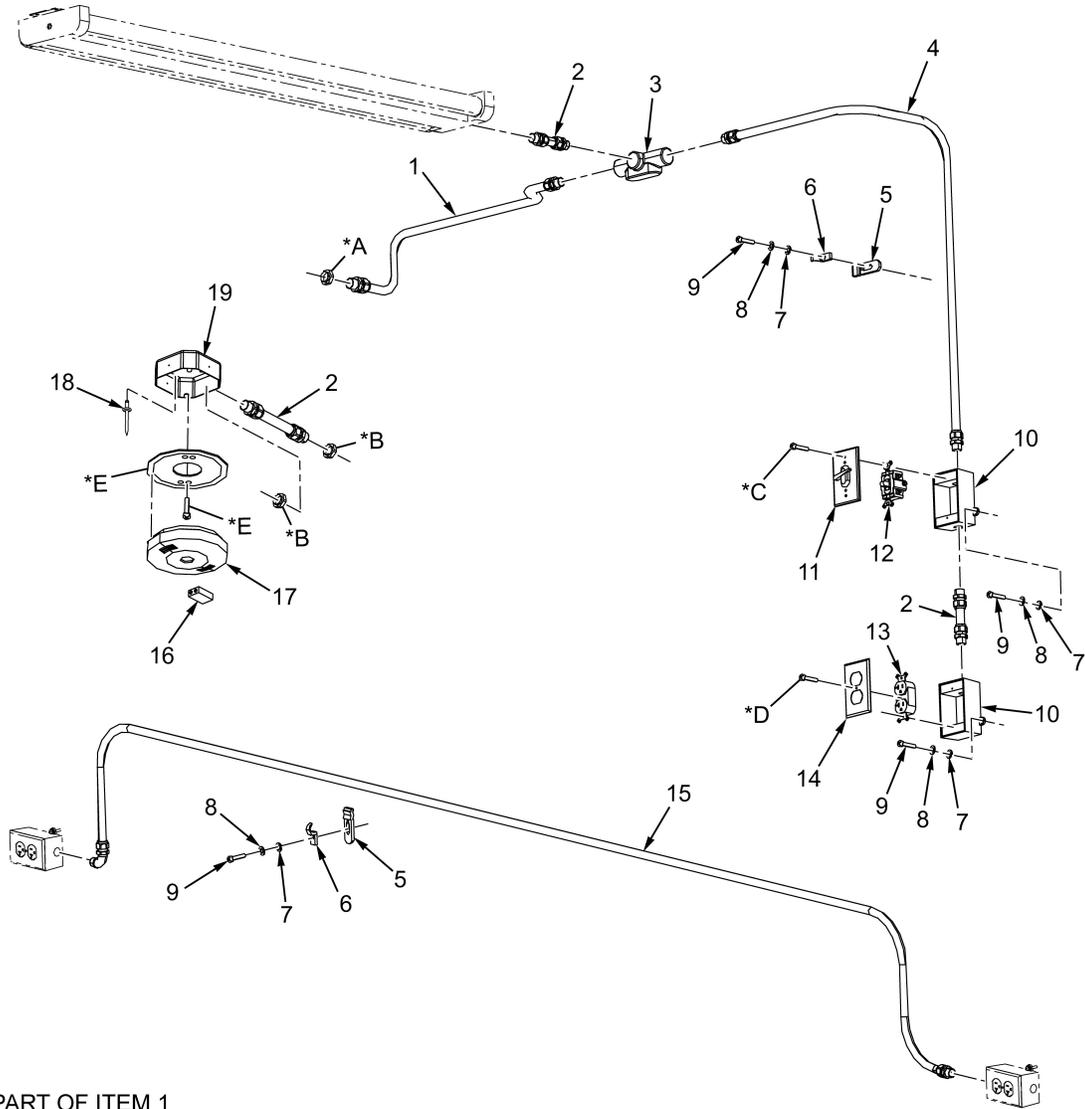
ARR001

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

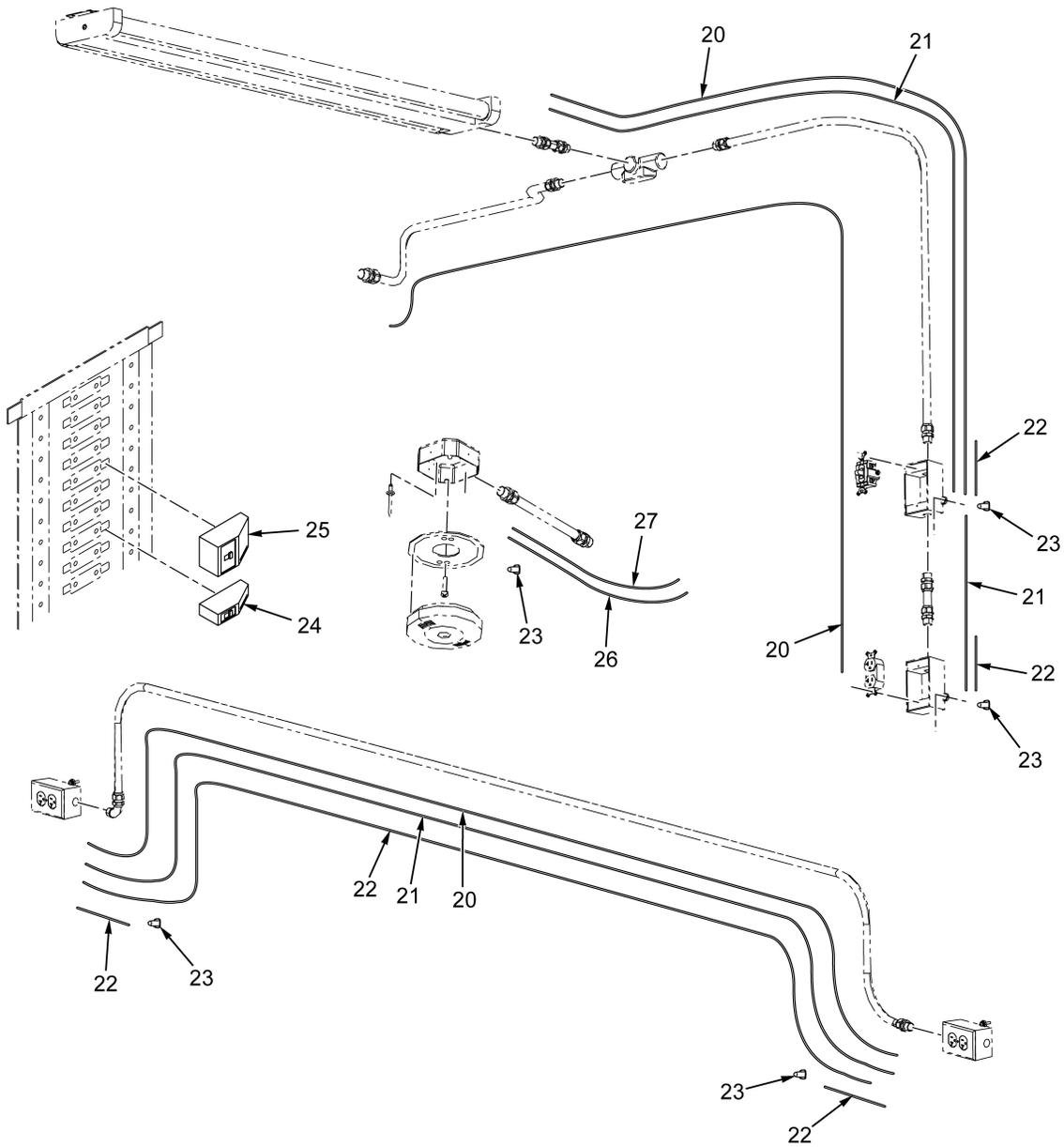
FIELD MAINTENANCE
SHELTER ELECTRICAL



- *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

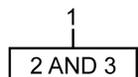
Figure 7. SHELTER ELECTRICAL (Sheet 2 of 2)

(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

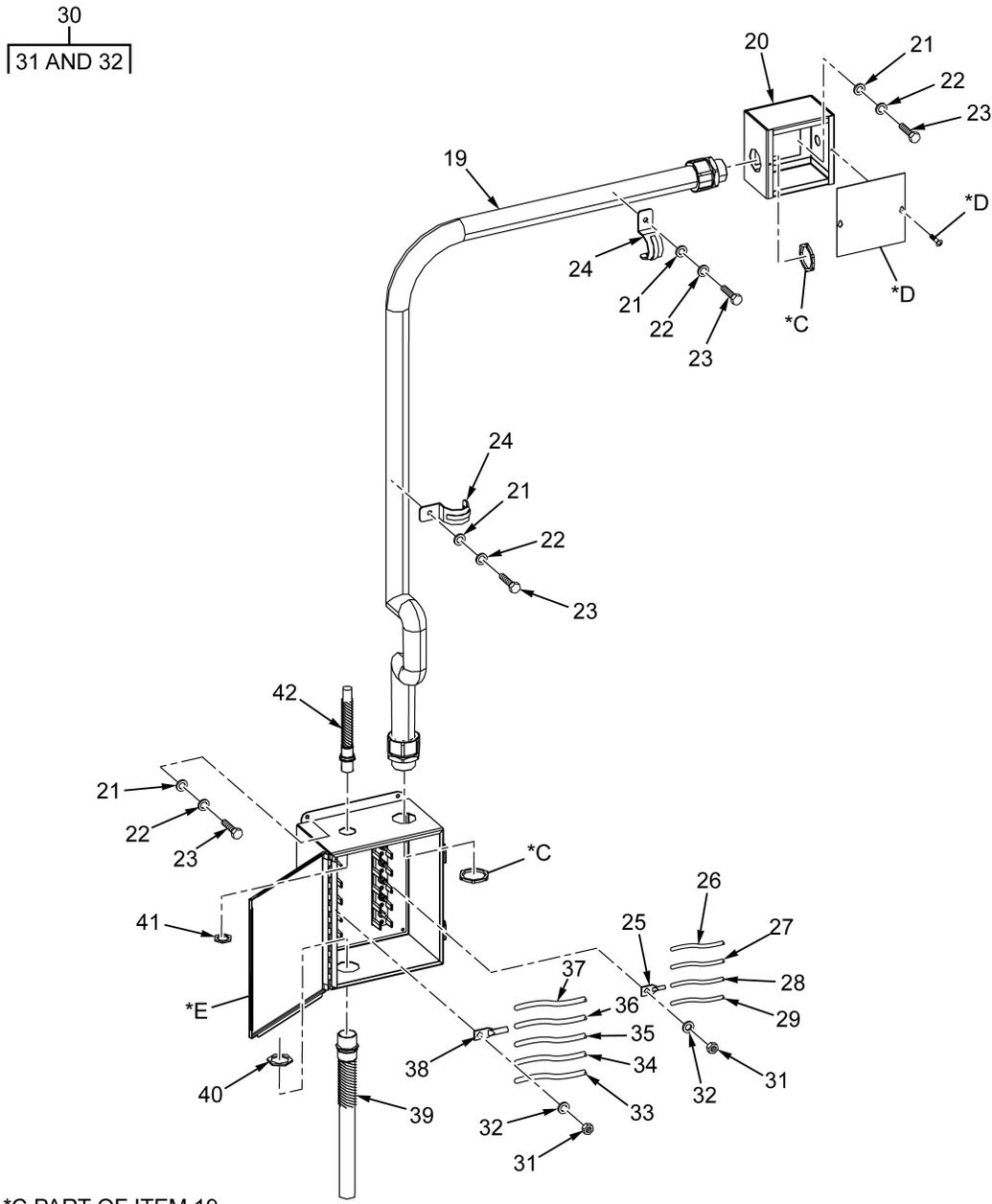
FIELD MAINTENANCE
SELECTOR SWITCH ELECTRICAL



*A PART OF ITEM 2
*B PART OF ITEM 3

ARR004

Figure 8. SELECTOR SWITCH ELECTRICAL (Sheet 1 of 2)



*C PART OF ITEM 19
*D PART OF ITEM 20
*E PART OF ITEM 30

ARR008

Figure 8. SELECTOR SWITCH ELECTRICAL (Sheet 2 of 2)

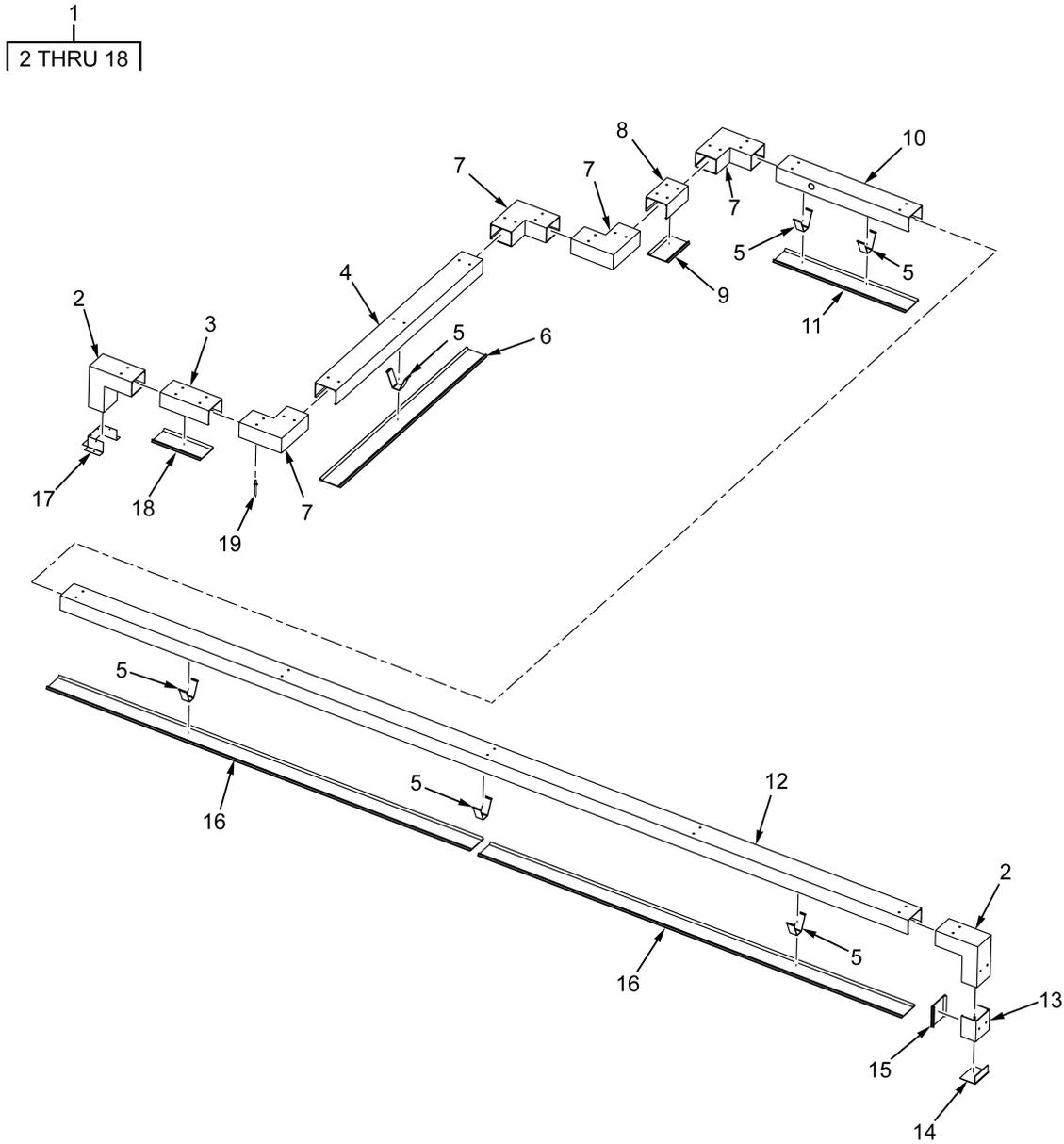
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 0401 SELECTOR SWITCH ELECTRICAL						
FIG. 8. SELECTOR SWITCH ELECTRICAL						
1	PAFFF	5975-01-624-9649	5B5M3	11A7000908	JUNCTION BOX UOC: ARS.....	1
2	PAFZZ	5975-01-625-6372	1WSN4	ASE18X18X6NK	. 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

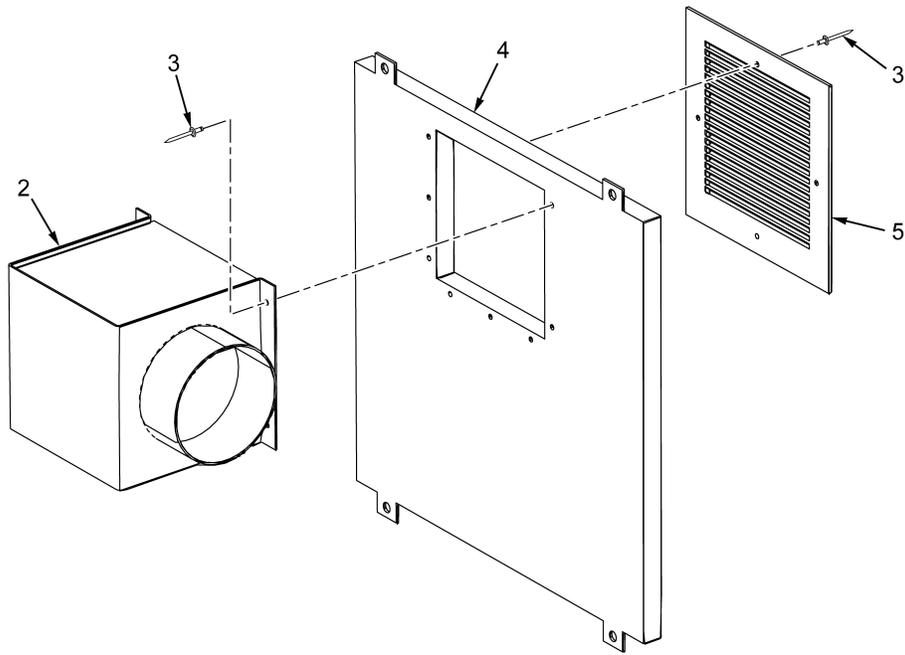
Figure 9. RACEWAY

(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



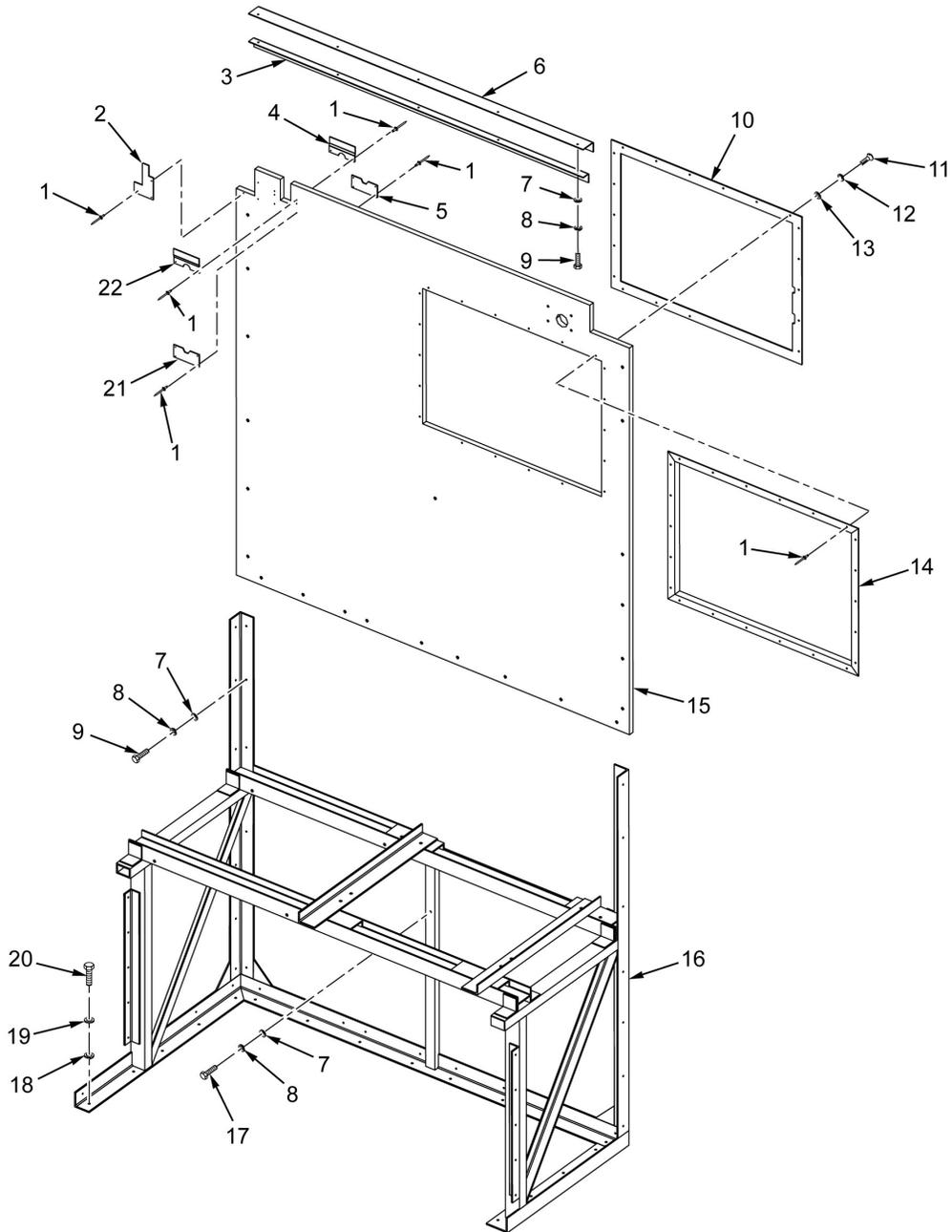
ARR003

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

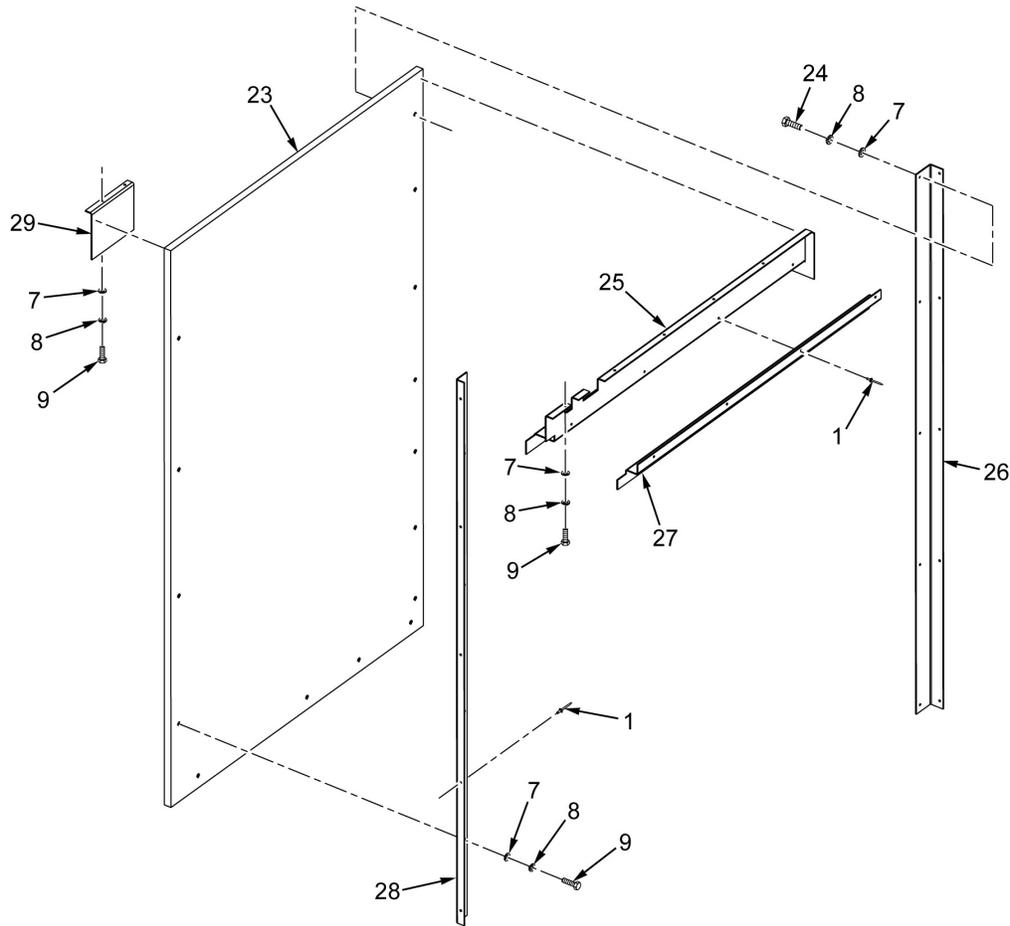
END OF FIGURE

**FIELD MAINTENANCE
MODIFIED SHELTER WALLS**



ARR023

Figure 11. MODIFIED SHELTER WALLS (Sheet 1 of 2)



ARR024

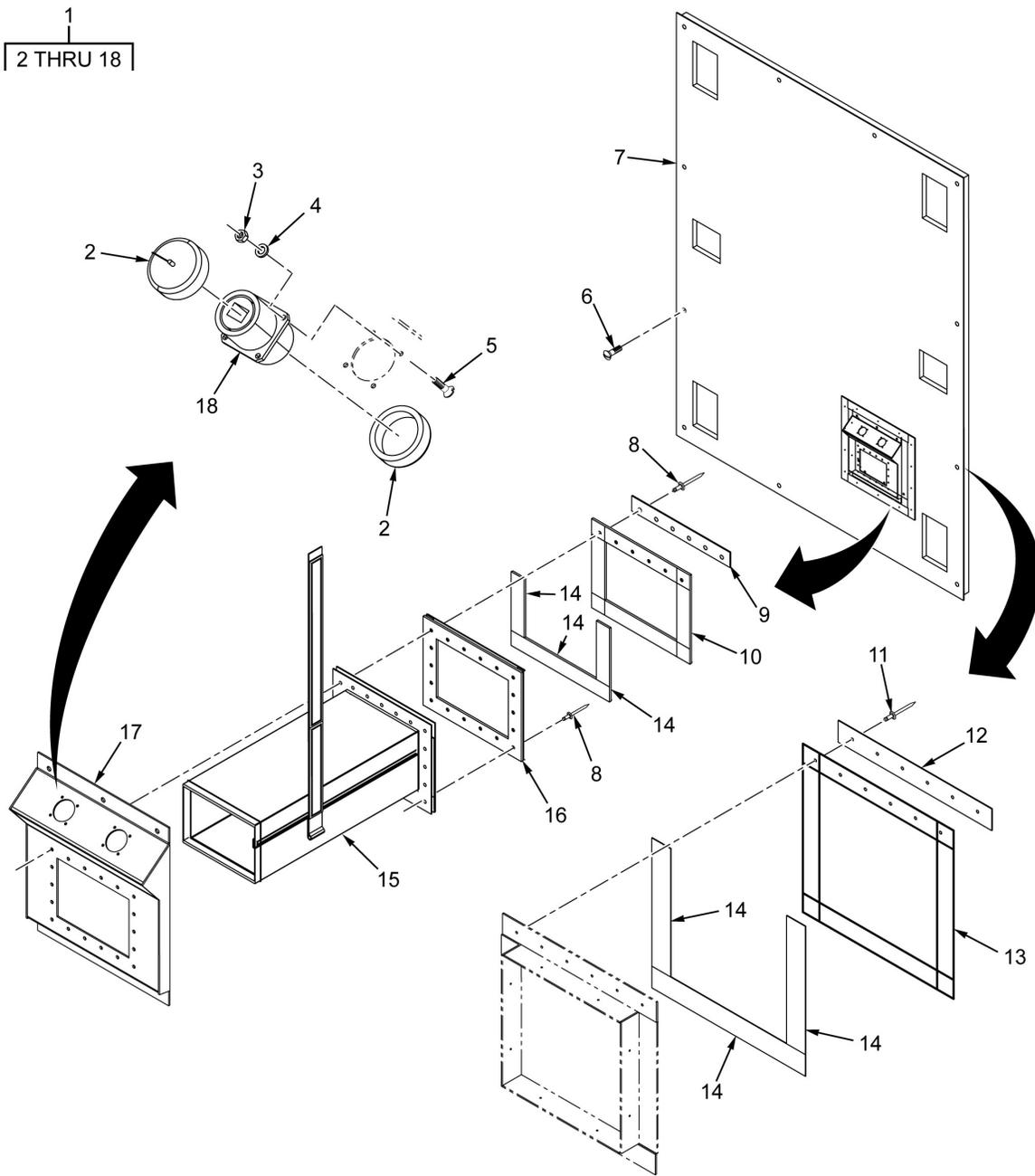
Figure 11. MODIFIED SHELTER WALLS (Sheet 2 of 2)

(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	PPFZZ		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**



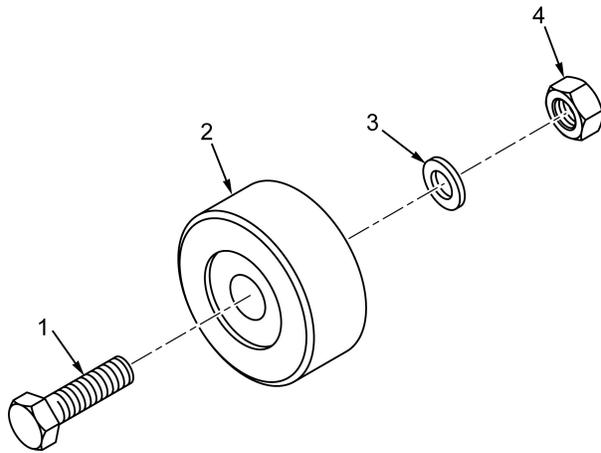
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Figure 12. SIGNAL ENTRY PANEL (SEP) ASSEMBLY

(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**



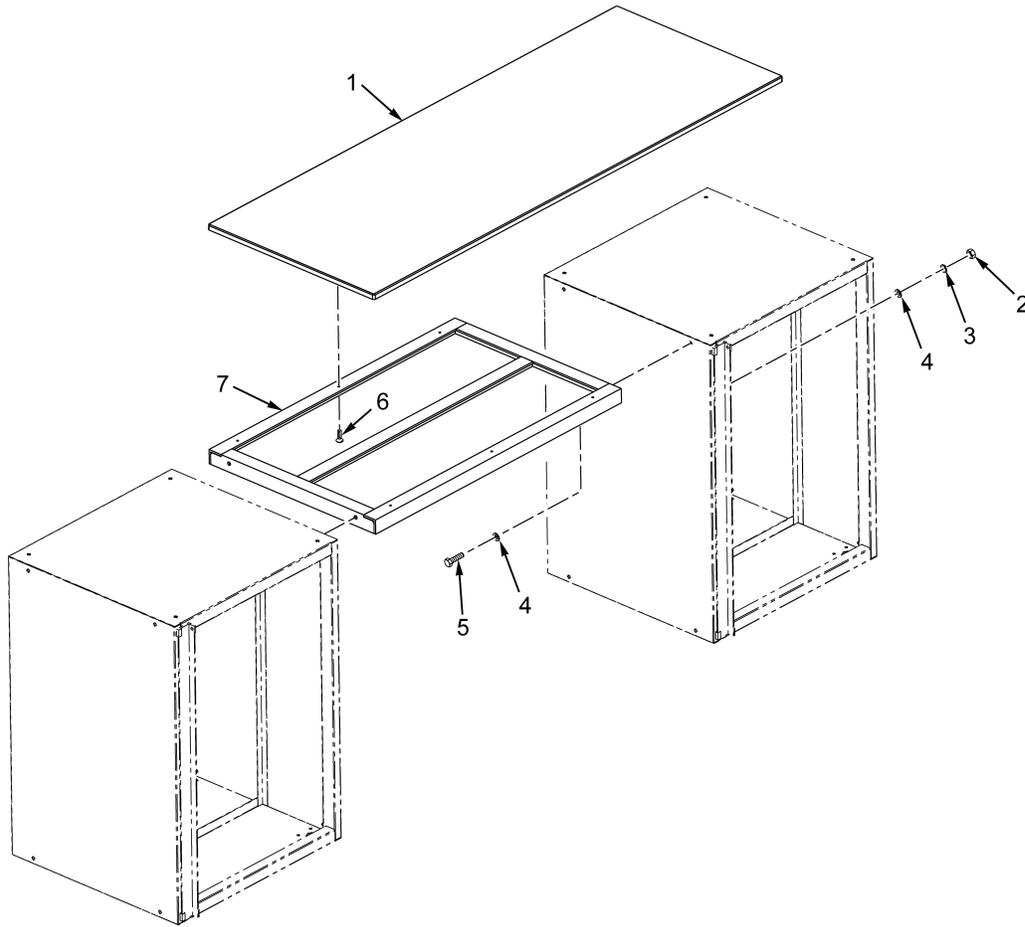
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Figure 13. RAMP COMPONENTS

(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**



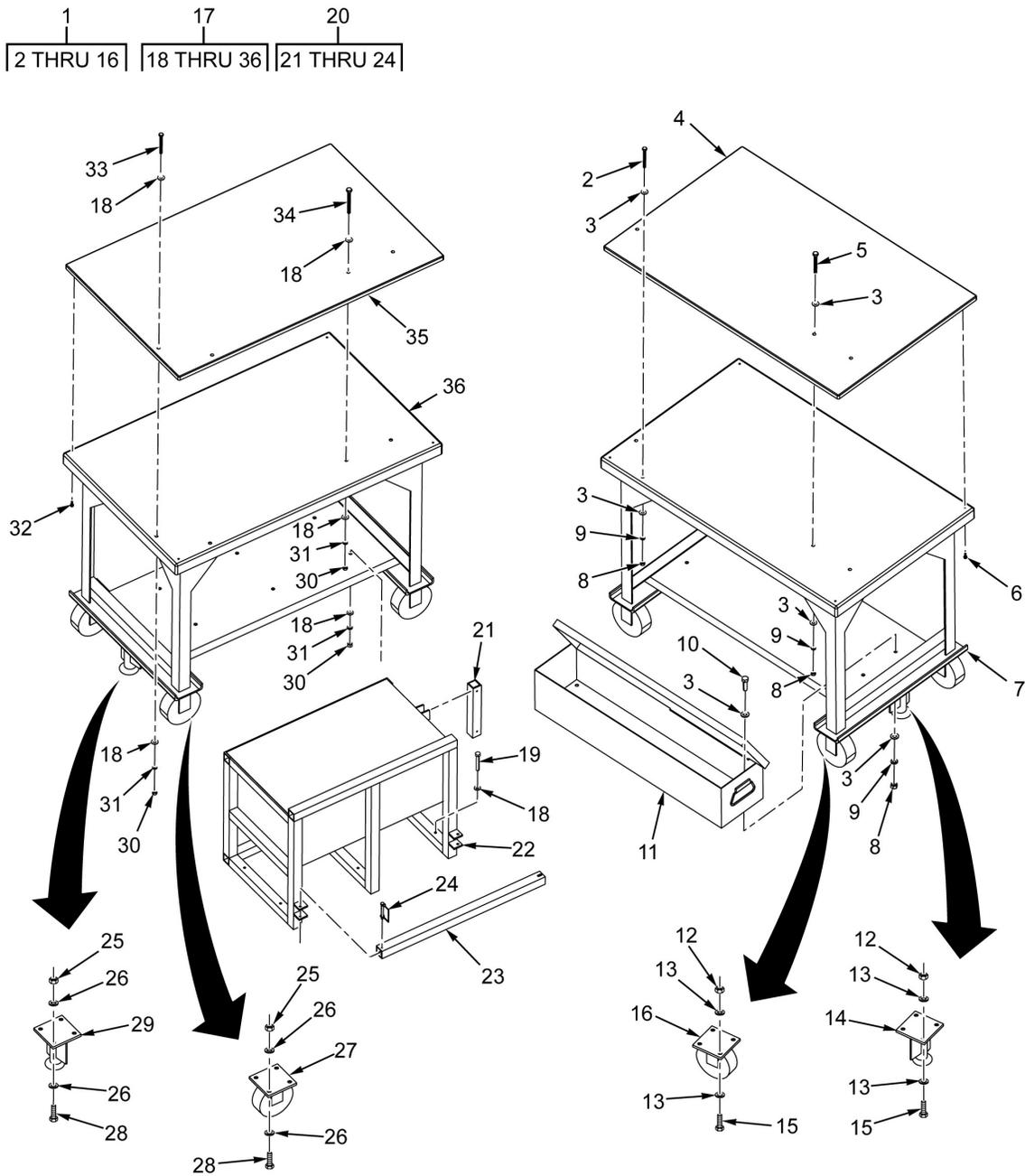
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Figure 14. CABINET WORKBENCH

(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**



ARR010

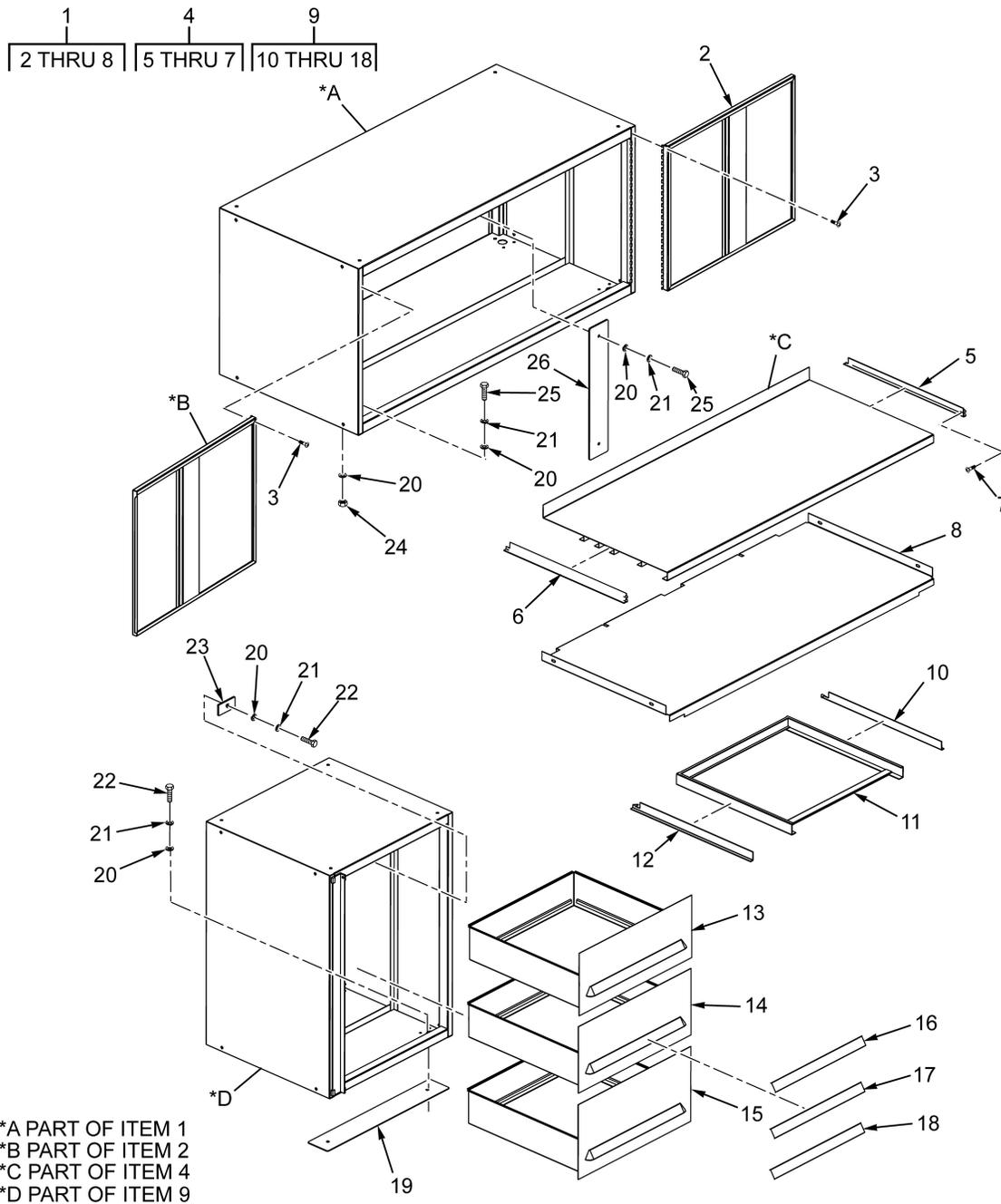
Figure 15. WORKBENCHES A AND B

(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

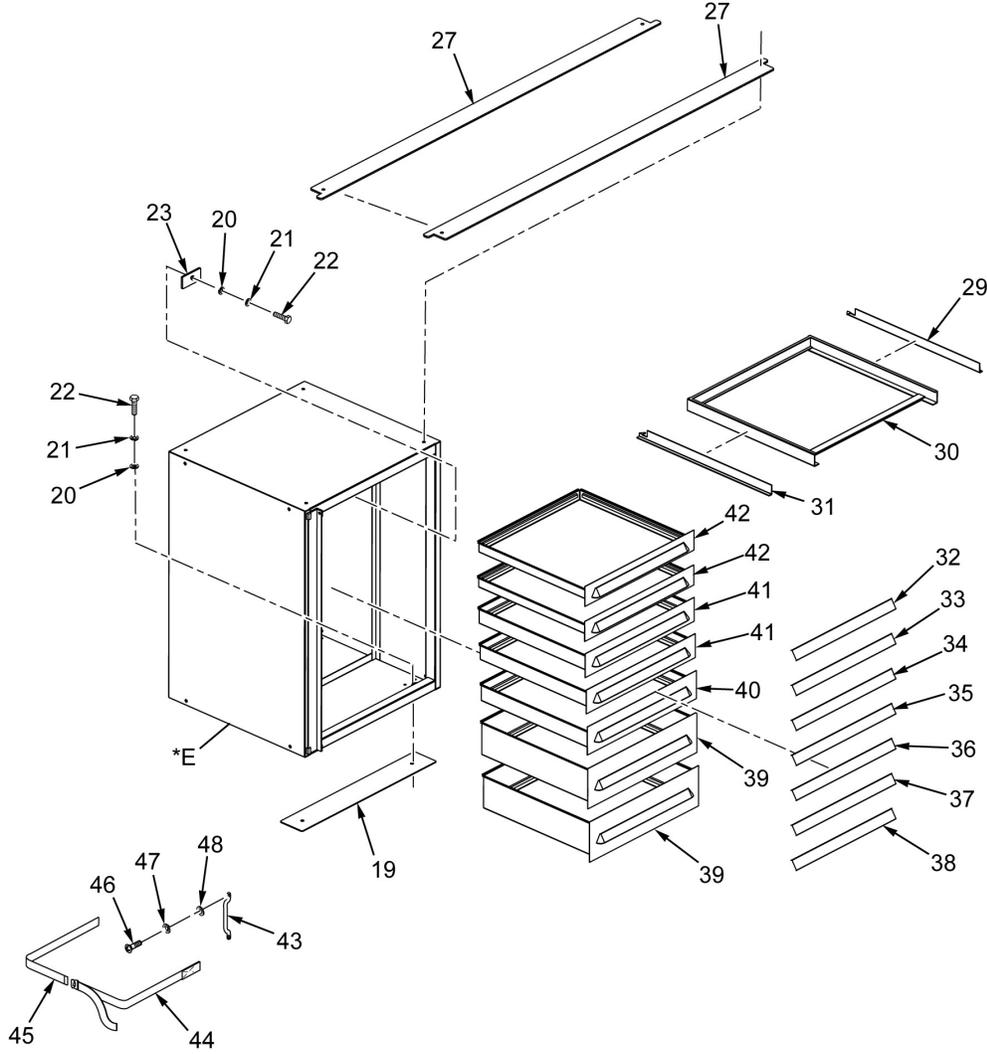
FIELD MAINTENANCE
TOOL CABINETS A, B, C, AND D



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Figure 16. TOOL CABINETS A, B, C, AND D (Sheet 1 of 2)

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*E PART OF ITEM 28

ARR022

Figure 16. TOOL CABINETS A, B, C, AND D (Sheet 2 of 2)

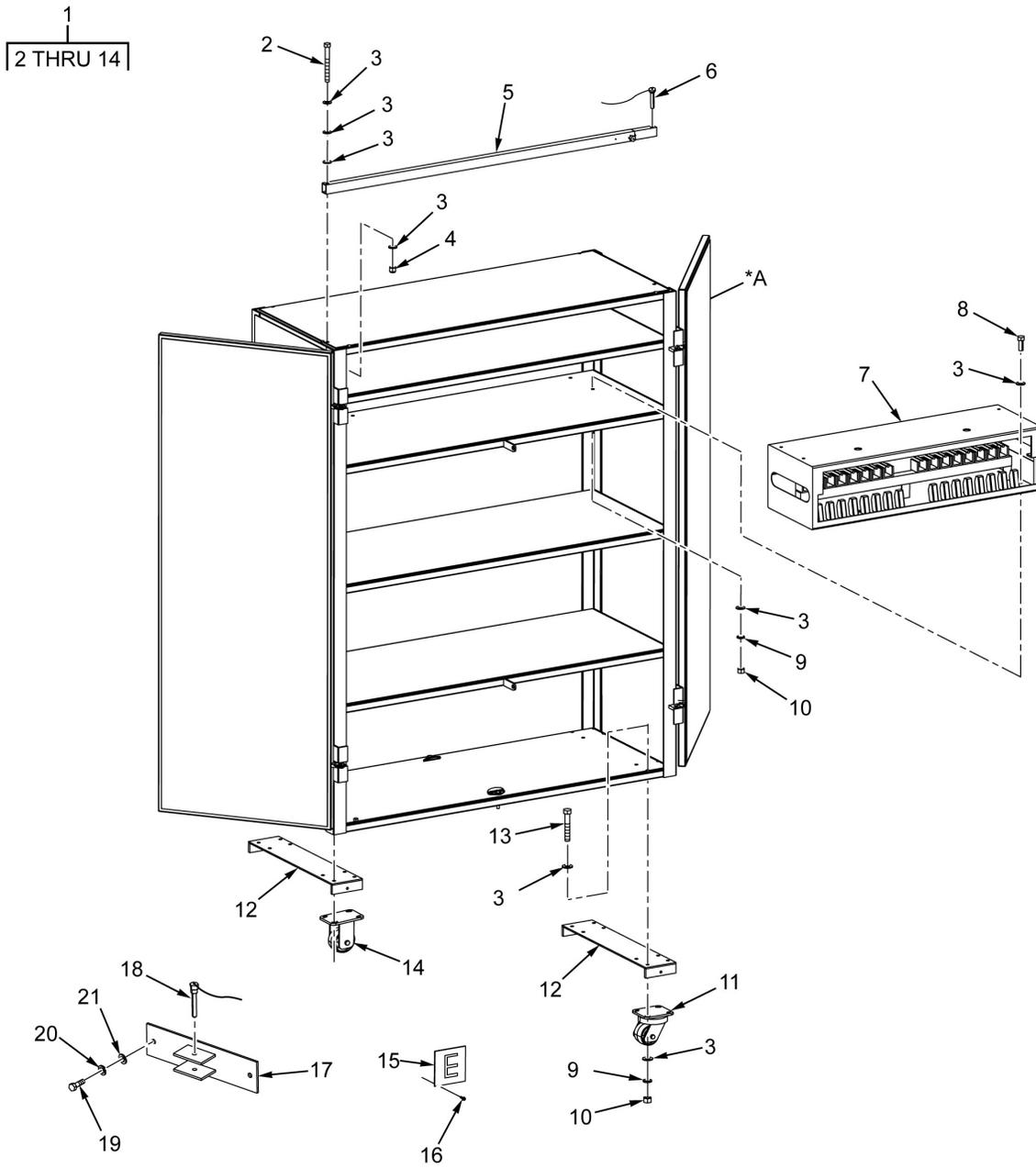
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 0507 TOOL CABINETS A, B, C, AND D						
FIG. 16. TOOL CABINETS A, B, C, AND D						
1	PAFFF	7125-01-627-7334	5B5M3	11A7000752	CABINET,STORAGE (CABINET D) UOC: ARS.....	1
2	PAFZZ		34004	DWSDD155	. 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 AL1	WASHER, LOCK UOC: ARS.....	28
22	PAFZZ	5305-01-625-8274	05047	AES01F375A25WA6 DG1	SCREW, CAP, HEXAGON H UOC: ARS.....	18
23	PFFZZ	5340-01-625-4457	5B5M3	11A7000688	PLATE, MOUNTING UOC: ARS.....	6
24	PAFZZ	5310-01-624-8197	05047	AEN04F375328WA6 DG1	NUT, PLAIN, HEXAGON UOC: ARS.....	4
25	PAFZZ	5305-01-612-4348	05047	AES01F375A00WA6 DG1	SCREW, CAP, HEXAGON H 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**



*A PART OF ITEM 1

ARR009

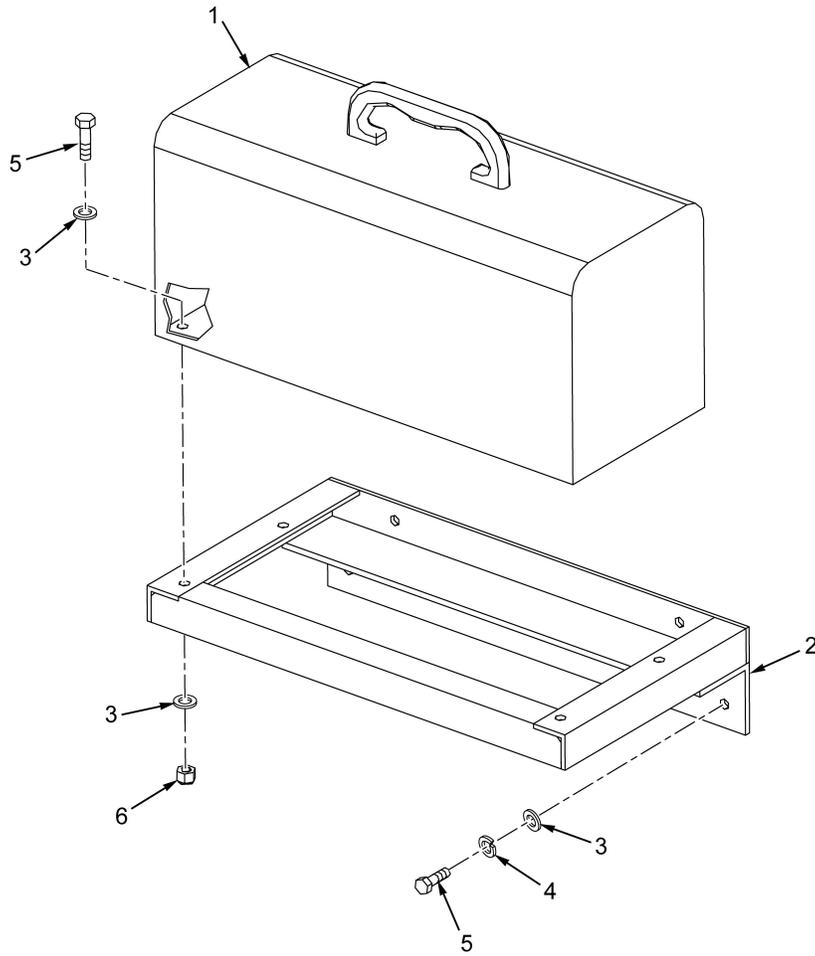
Figure 17. AMMO RACK

(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**



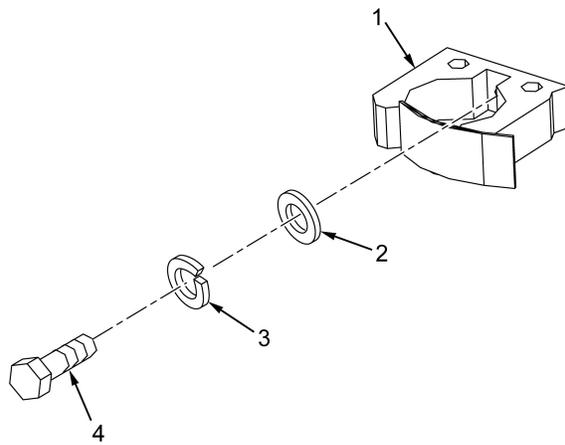
ARR015

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	PPFZZ	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**



ARR016

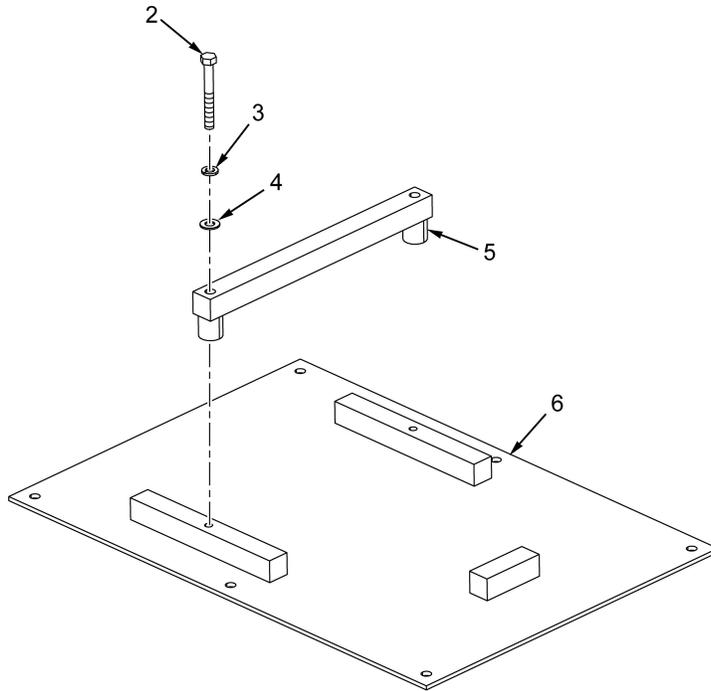
Figure 19. FIST CLAMP MOUNTING

(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



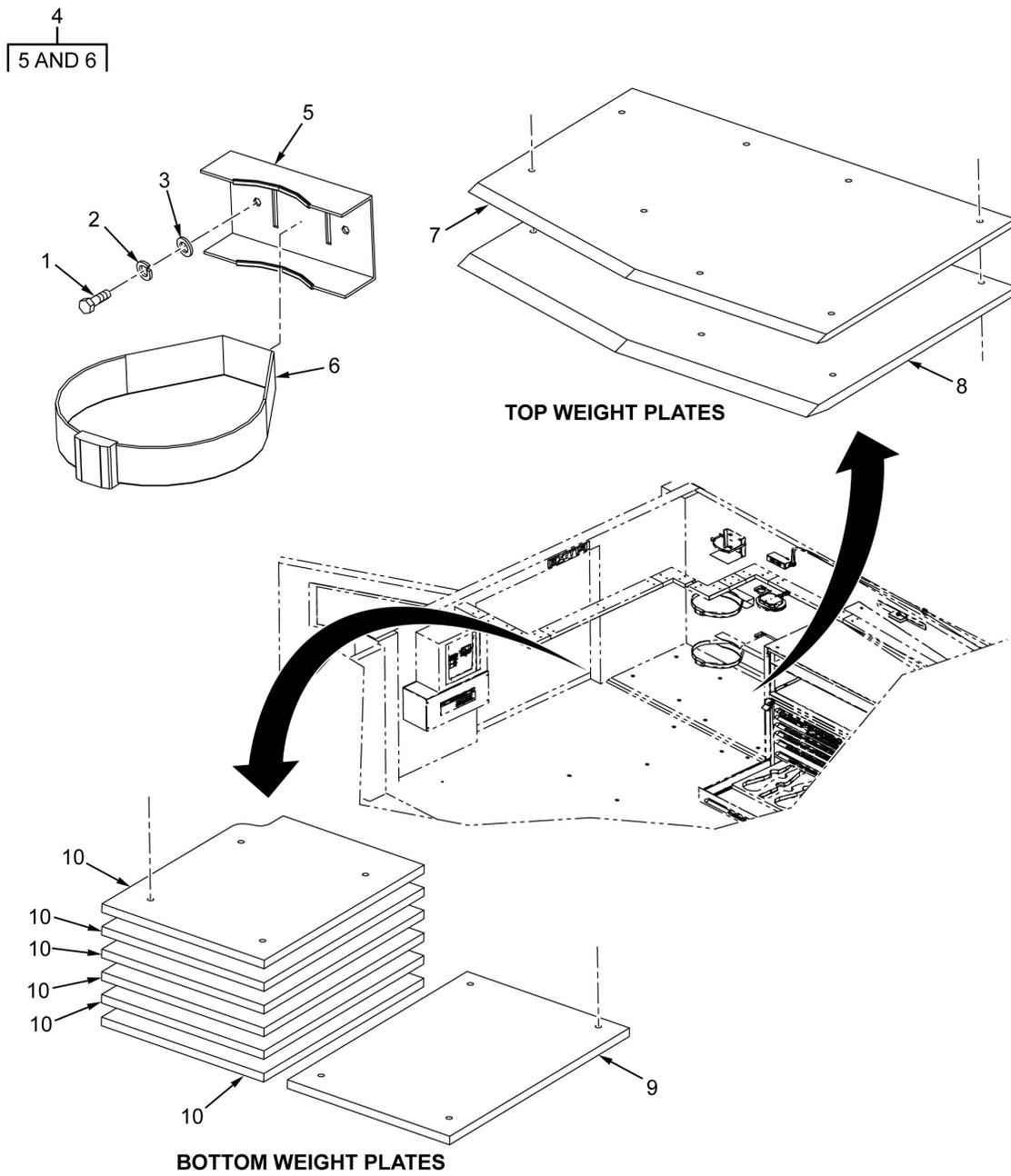
ARR012

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**



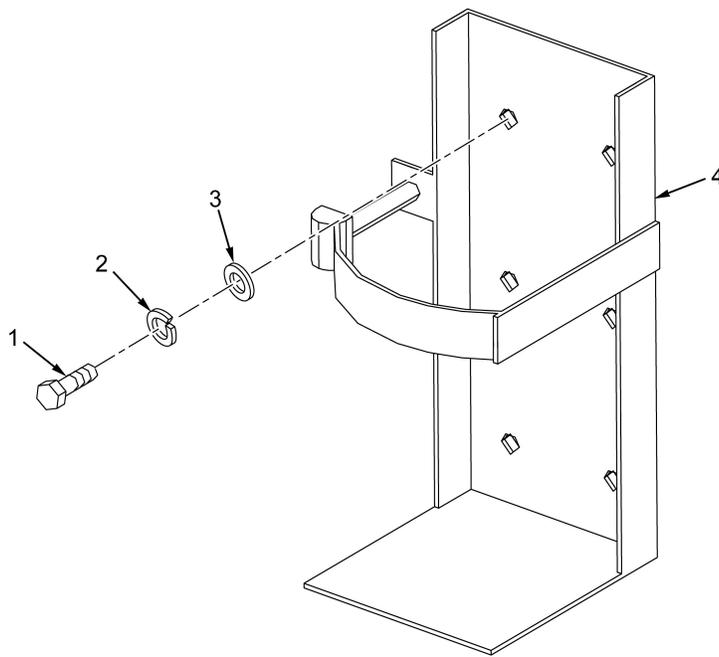
ARR017

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**



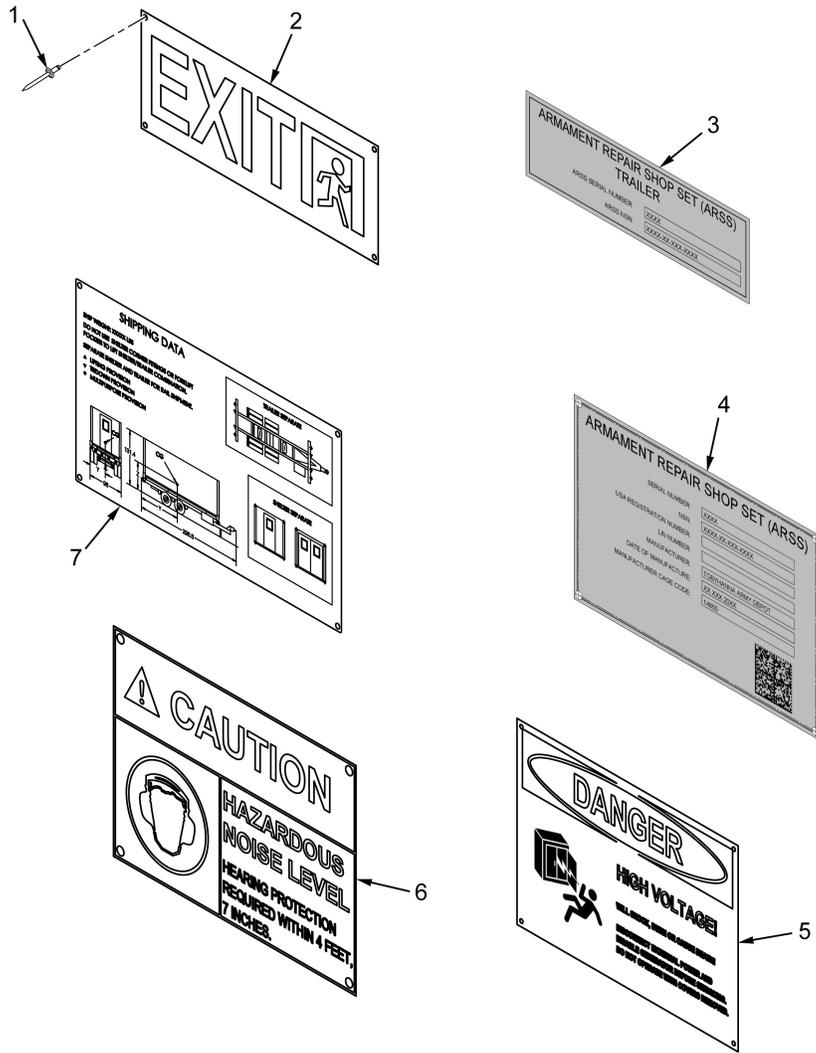
ARR018

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
<p>GROUP 0512 COMPRESSED GAS CYLINDER AND FIRE EXTINGUISHER</p> <p>FIG. 22. FIRE EXTINGUISHER BRACKET</p>						
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**



ARR027

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

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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			

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**FIELD MAINTENANCE
PART NUMBER INDEX**

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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

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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

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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
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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) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			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) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT			
			CREW	MAINTAINER	BELOW DEPOT	DEPOT		
			C	F	H	D		
0202	GENERATOR FLOOR PADS	Inspect	0.1					
		Replace		0.5			1, 2	
	EXHAUST AND RAIN CAP	Inspect	0.1					
03	EXHAUST CLAMP	Replace		0.2			2	
		Inspect	0.1					
	Replace		0.4			2		
03	STORAGE RACK	Inspect	0.1					
		Replace		0.5			2	
	STORAGE RACK SPRING LATCH	Inspect	0.1					
04	STORAGE RACK DOOR AND HINGE	Service	0.1					
		Replace		0.2			1	
	Replace	0.1		0.7			1	
04	SHELTER ELECTRICAL	Inspect	0.1					
		Repair		1.0			1, 2, 3	
	MECHANICAL ROOM EMT CONDUIT	Inspect	0.1					
04	MECHANICAL ROOM LIGHT SWITCH	Replace		2.2			2	
		Inspect	0.1					
	Replace		0.3			2		
04	MECHANICAL ROOM OUTLET	Inspect	0.1					
		Replace		0.3			2	
	MECHANICAL ROOM OUTLET BOX	Inspect	0.1					
04	EMT CONDUIT	Replace		0.5			1, 2	
		Inspect	0.1					
		Replace		0.8			2	

Table 1. Maintenance Allocation Chart (MAC) - Continued.

(1) GROUP NUMBER	(2) COMPONENT/A SSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT			
			CREW	MAINTAINER	BELOW DEPOT	DEPOT		
			C	F	H	D		
0401	CIRCUIT BREAKER	Inspect	0.1					
		Replace		0.3			2	
	SMOKE ALARM	Inspect	0.1					
		Test		0.1			2	
		Replace		0.2			2	
	SMOKE ALARM JUNCTION BOX AND CONDUIT	Inspect	0.1					
		Replace		0.4			1, 2	
	SMOKE ALARM 9V BATTERY	Inspect	0.1					
		Replace		0.2				
	SELECTOR SWITCH ELECTRICAL							
	SELECTOR SWITCH	Inspect	0.1					
Test			0.1			2		
Replace			0.5			2		
MECHANICAL ROOM ELECTRICAL BOX	Inspect	0.1						
	Replace		1.0			2		
ELECTRICAL BOX CONDUIT	Inspect	0.1						
	Replace		0.5			2		
MECHANICAL ROOM PULL BOX	Inspect	0.1						
	Replace		1.0			2		
WORK ROOM PULL BOX	Inspect	0.1						
	Replace		1.1			2		

Table 1. Maintenance Allocation Chart (MAC) - Continued.

(1) GROUP NUMBER	(2) COMPONENT/A SSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			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) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			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	
	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	
0507	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) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			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	
0509	AMMO RACK INNER / OUTER ROD LATERAL BRACKET	Inspect Replace	0.1	0.1			2	
	TOOL BOX	Inspect Replace	0.1	0.3			2	

Table 1. Maintenance Allocation Chart (MAC) - Continued.

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT			
			CREW	MAINTAINER	BELOW DEPOT	DEPOT		
			C	F	H	D		
0510	TOOL BOX BRACKET	Inspect	0.1				2	
		Replace		0.4				
0511	FIST CLAMP MOUNTING	Inspect	0.1				2	
		Replace		0.1				
0512	DRILL PRESS BRACKET	Inspect	0.1				2	
		Replace		0.2				
0513	COMPRESSED GAS CYLINDER MOUNTING	Inspect	0.1				2	
		Replace		0.2				
0513	FIRE EXTINGUISHER BRACKET	Inspect	0.1				2	
		Replace		0.1				
0513	DATA PLATES	Inspect	0.1				2	
		Replace		0.1				

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.

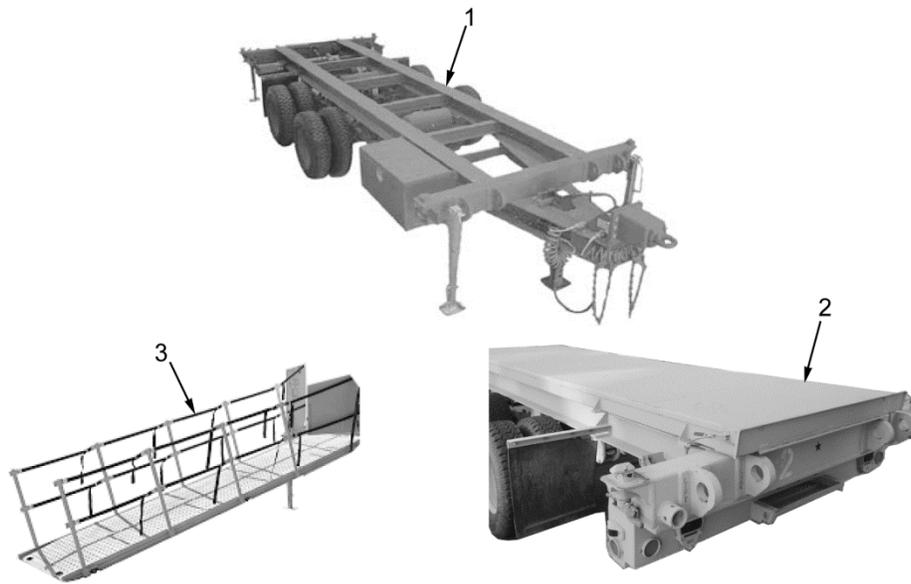
Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. (Add the following only as applicable. Replace Xs with appropriate codes and model numbers.) These codes are identified below:

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)

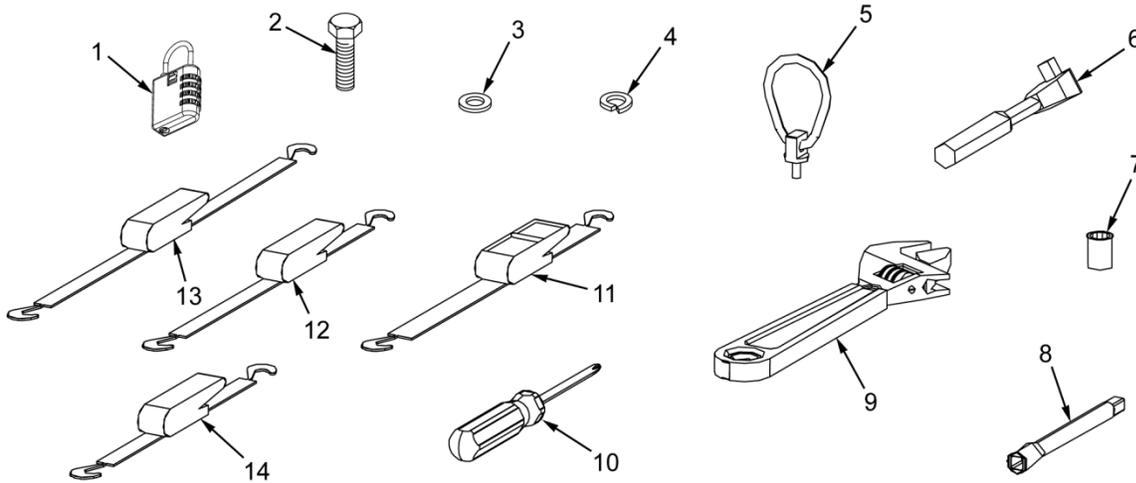


ARSS0382

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)

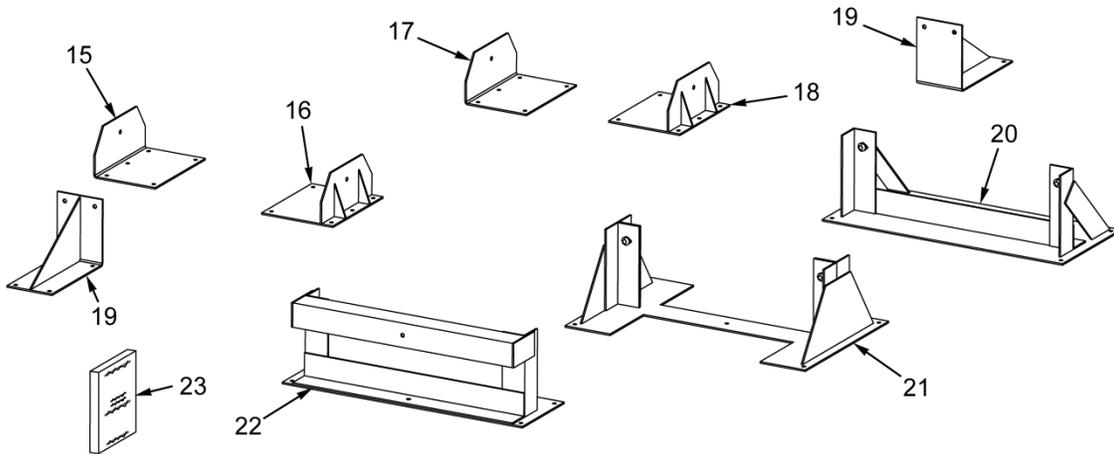


ARSS0380

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

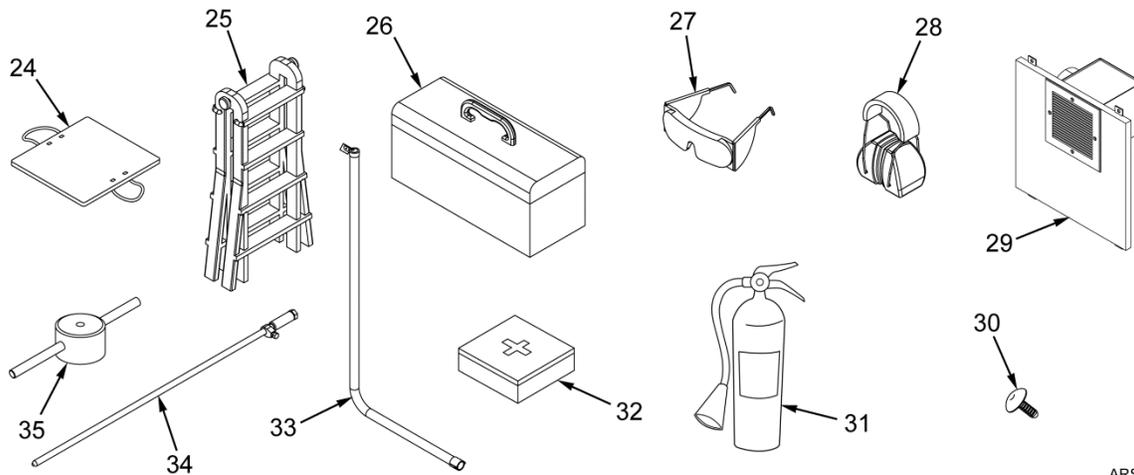


ARSS0381

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

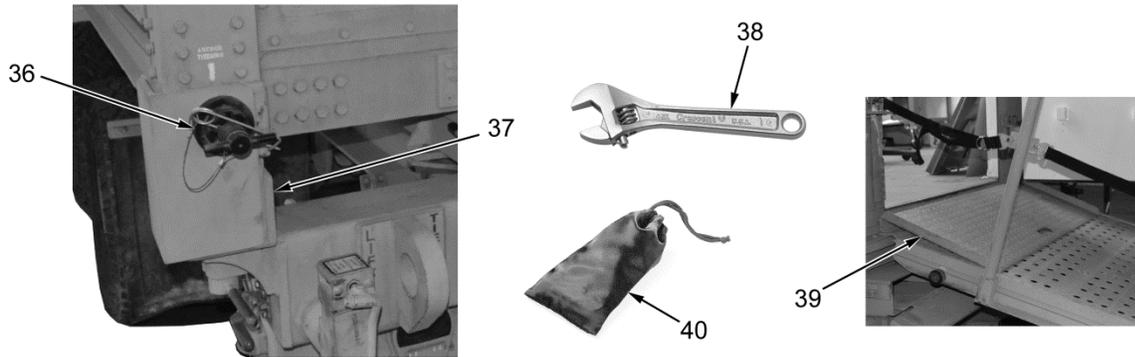


ARSS0388

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	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>
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For use of this form, see AR 25-30; the proponent agency is OAASA.

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>
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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>
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ITEM	PAGE	PARA-GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)
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0007-3

Figure 2, Item 9 should show a lockwasher. Currently shows a flat washer.

0018-2

Cleaning and inspection, Step 6, reference to governor support pin (14) is wrong reference. Reference should be change to (12).

SAMPLE

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>
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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>
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
<h1>SAMPLE</h1>								

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						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA							
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 (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)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION/FORM NUMBER TM 9-4940-578-13&P	DATE 15 June 2014	TITLE ARMAMENT REPAIR SHOP SET (ARSS)
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

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.)

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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By Order of the Secretary of the Army:

Official:



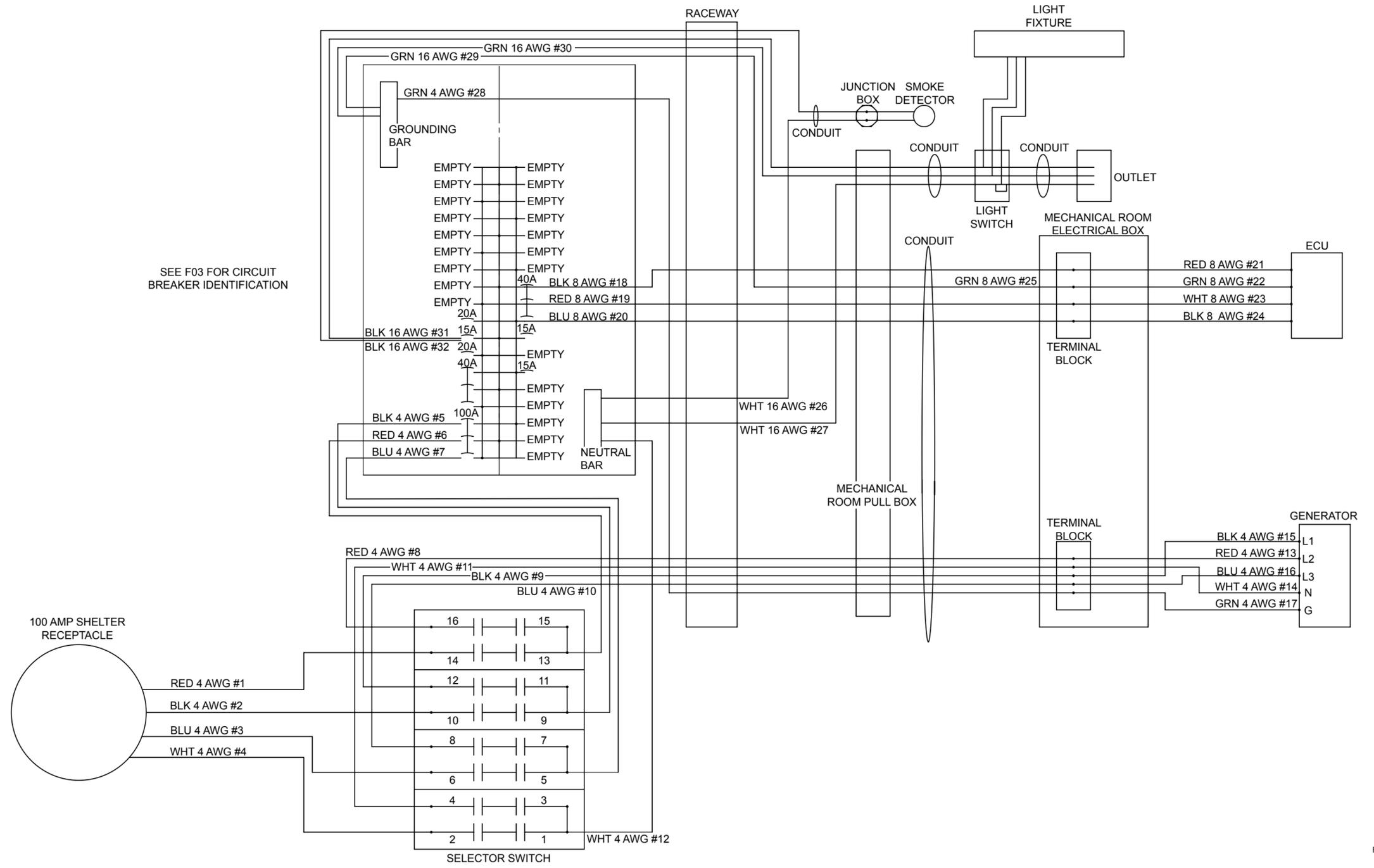
GERALD B. O'KEEFE
*Administrative Assistant to the
Secretary of the Army*

1413401

RAYMOND T. ODIERNO
*General, United States Army
Chief of Staff*

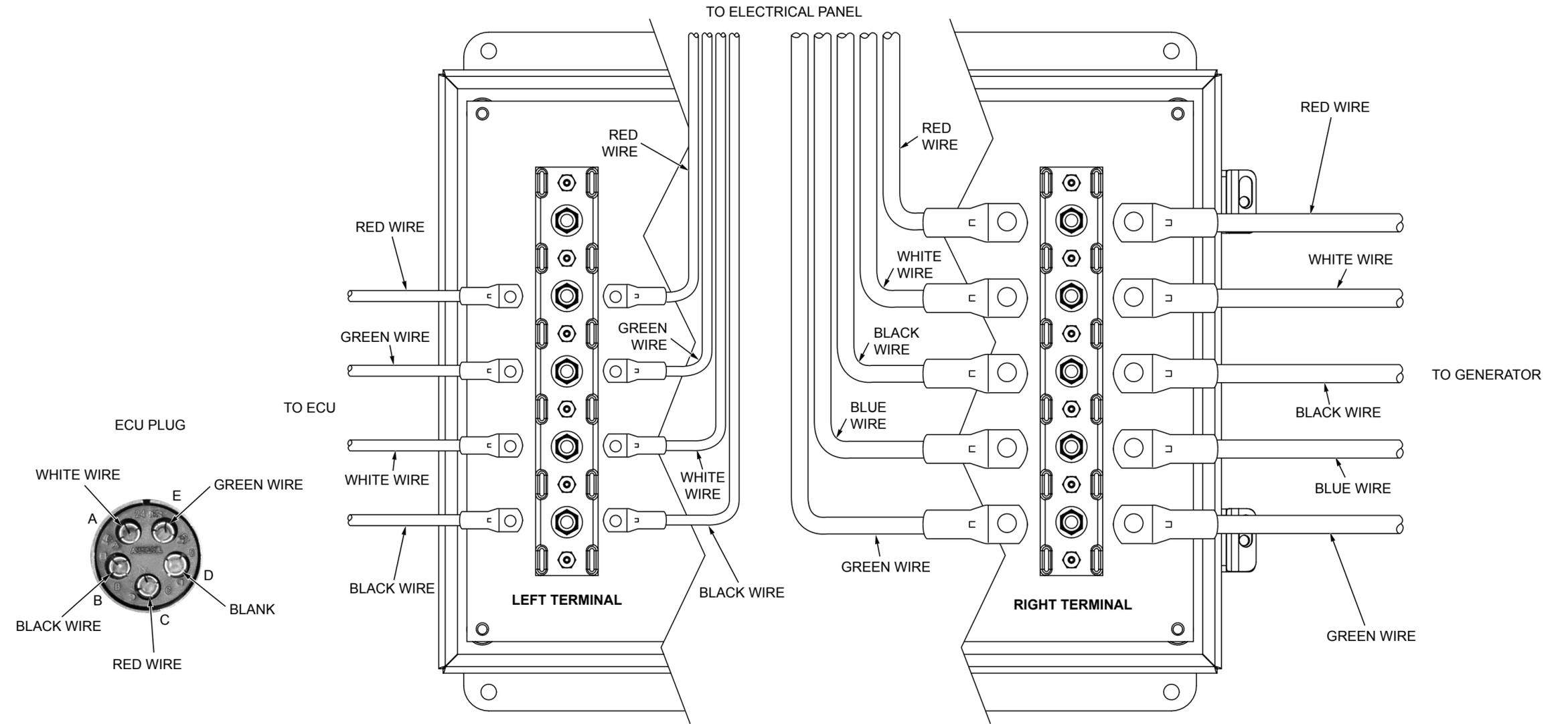
Distribution:

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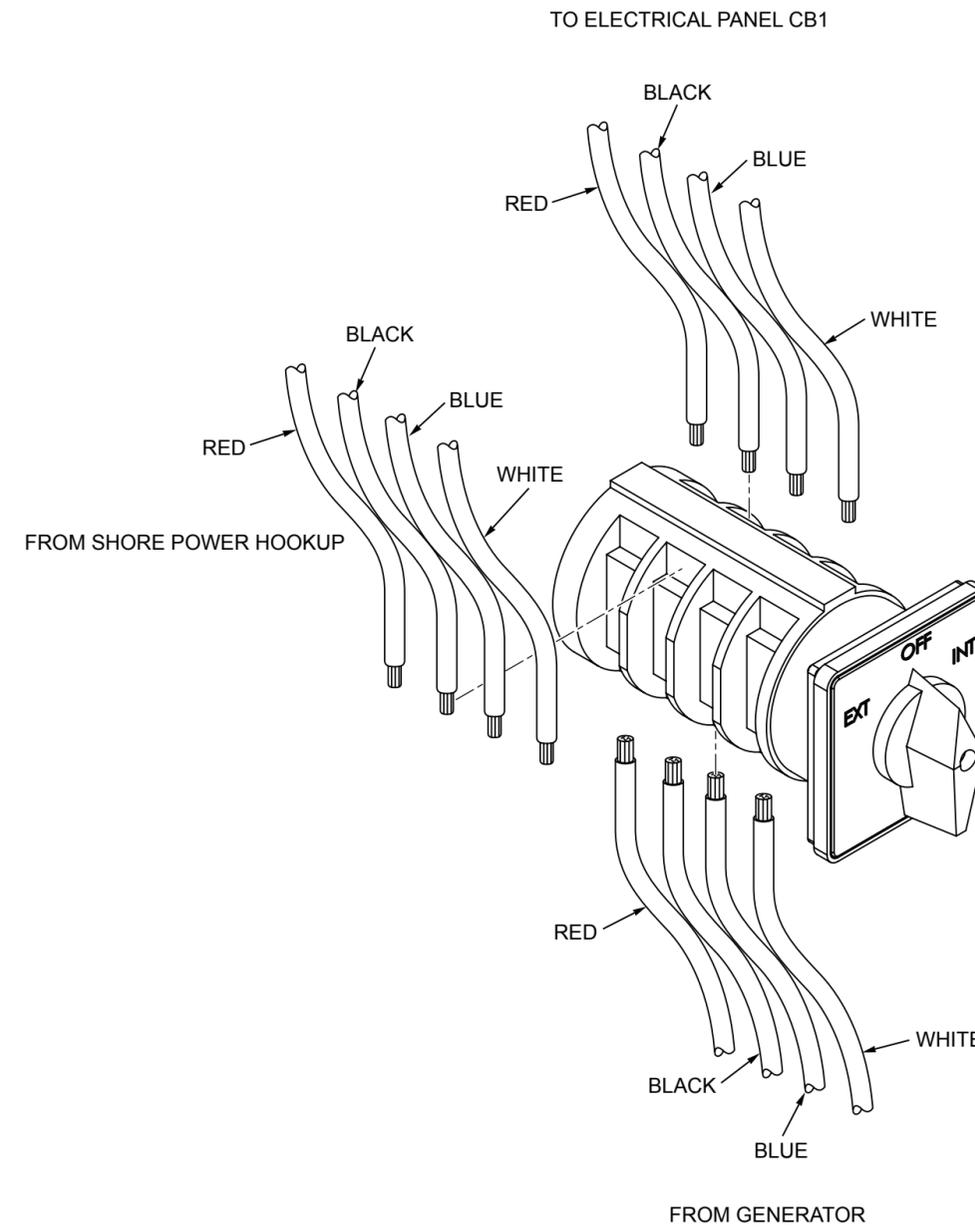


ARSS ELECTRICAL SCHEMATIC (SHEET 1 OF 3) - FOLDOUT F01

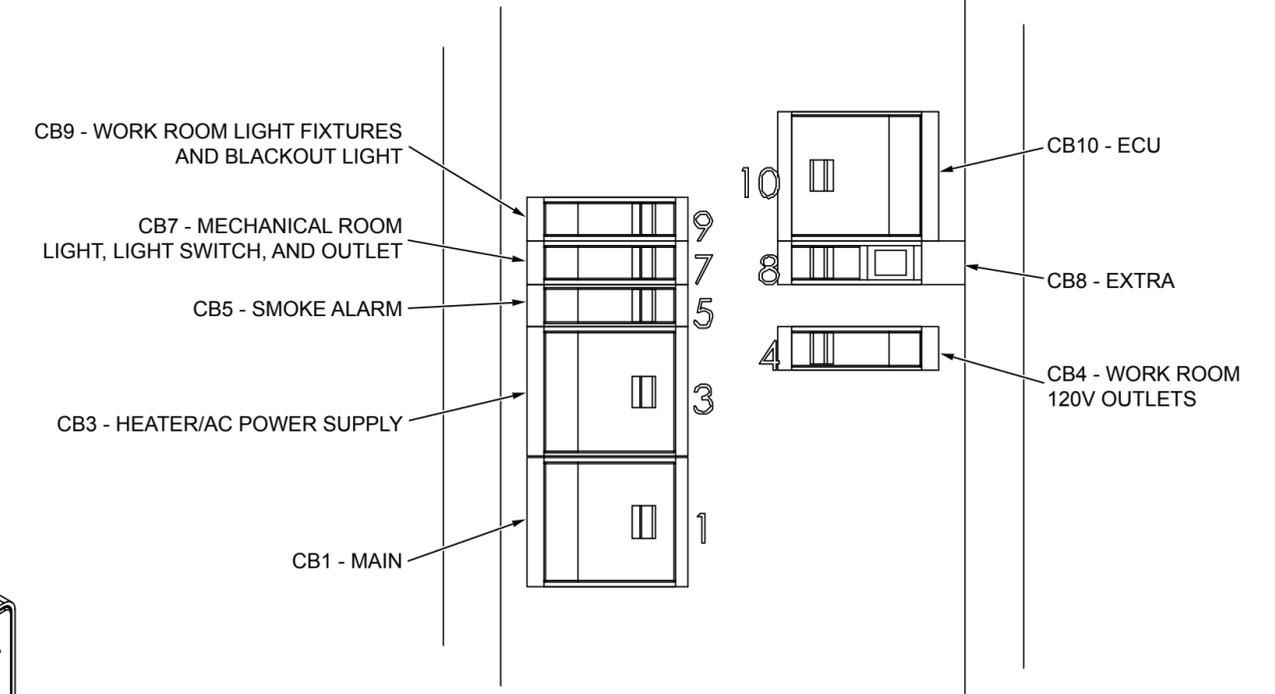
MECHANICAL ROOM ELECTRICAL BOX



SELECTOR SWITCH



ELECTRICAL PANEL



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>$9/5 C^{\circ} + 32 = F^{\circ}$ $5/9 (F^{\circ} - 32) = C^{\circ}$ 212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius</p>
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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

