TECHNICAL MANUAL

OPERATOR AND FIELD MAINTENANCE MANUAL (OPERATOR, UNIT, AND DIRECT SUPPORT) (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

POWER UNIT, DIESEL ENGINE DRIVEN, 2 1/2 TON TRAILER MOUNTED, 15 kW, 400 Hz, PU-800 (NSN: 6115-01-317-2137)

POWER UNIT, DIESEL ENGINE DRIVEN, 1 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-801 (NSN: 6115-01-319-9033)

POWER UNIT, DIESEL ENGINE DRIVEN, LIGHT TACTICAL TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-801A (NSN: 6115-01-413-3821)

POWER UNIT, DIESEL ENGINE DRIVEN, 2 1/2 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-802 (NSN: 6115-01-317-2138)

POWER PLANT, DIESEL ENGINE DRIVEN, 2 1/2 TON TRAILER MOUNTED, 15 kW, 400 Hz, AN/MJQ-39 (NSN: 6115-01-299-6034)

POWER PLANT, DIESEL ENGINE DRIVEN, 1 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, AN/MJQ-48 (NSN: 6115-01-540-8433)

POWER PLANT, DIESEL ENGINE DRIVEN, LIGHT TACTICAL TRAILER MOUNTED, 15 kW, 50/60 Hz, AN/MJQ-48A (NSN: 6115-01-540-9465)

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

WARNING SUMMARY

This Warning Summary provides a summary of all critical safety information in this manual. The Summary contains all warnings used throughout this manual.

Prior to starting any procedure, the WARNINGS included in the text and at the beginning of each maintenance procedure must be reviewed and understood.

The WARNINGS located in the generator set technical manuals and the trailer technical manuals must also be considered.

This manual describes physical and chemical processes that may require the use of chemicals, solvents, paints, or other commercially available material. Users of the manual should obtain the material safety data sheets (Occupational Safety and Health Act (OSHA) Form 20 or equivalent) from the manufacturers or suppliers of materials to be used. Users must be completely familiar with manufacturer/supplier information and adhere to their procedures, recommendations, warnings, and cautions for safe use, handling, storage, and disposal of these materials.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. SHUT DOWN generator set and make sure it is free of any power source before attempting any repair or maintenance on the generator, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing inspection of load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing inspection of wiring. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Ensure nuts on ground terminals are properly secured creating a good ground. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. DO NOT touch live voltage connections. Never attempt to connect or disconnect load cables or paralleling cables while the generator set is running. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Dangerous voltage exists on live circuits. Always observe precautions and never work alone. Failure to comply with this warning can cause injury or death to personnel.

WARNING

A qualified technician must make the power connections and perform all continuity checks. The power source may be a generator or commercial power. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Prior to making any connections for parallel operation, ensure that there is no input to the load and that the generator sets are shut down. Failure to comply with this warning can cause injury or death to personnel.

WARNING

If it is necessary to move a generator set which has been operating in parallel with another generator set, shut down remaining generator set connected to the load, prior to removing load and ground cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before removing indicator lamp. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Diesel fuel is flammable and toxic to eyes, skin, and respiratory tract. Skin and eye protection are required when working in contact with diesel fuel. Avoid repeated or prolonged contact. Provide adequate ventilation. Operators are to wash exposed skin and change chemical soaked clothing promptly if exposed to fuel. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Fuels used in the generator set are flammable. When filling the fuel tank, maintain metal-to-metal contact between filler nozzle and fuel tank opening to eliminate static electrical discharge. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Hot engine surfaces from the engine and generator circuitry are possible sources of ignition. When hot refueling with DF-1, DF-2, JP5 or JP8, avoid fuel splash and fuel spill. Do not smoke or use open flame when performing refueling. Remember PMCS is still required. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Cooling system operates at high temperature and pressure. Contact with high pressure steam and/or liquids can result in burns and scalding. Shut down generator set, and allow system to cool before performing checks, services and maintenance, or wear gloves and additional protective clothing and goggles as required. Failure to comply with this warning can cause injury or death to personnel.

WARNING

In extreme cold weather, skin can stick to metal. Avoid contacting metal items with bare skin in extreme cold weather. Failure to comply with this warning can cause injury to personnel.

WARNING

Operating the generator set exposes personnel to a high noise level. Hearing protection must be worn when operating or working near the generator set when the generator set is running. Failure to comply with this warning can cause hearing damage to personnel.

WARNING

Exhaust discharge contains deadly gases including carbon monoxide. DO NOT operate generator set in enclosed areas unless exhaust discharge is properly vented outside. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Hot exhaust gases can ignite flammable materials. Allow room for safe discharge of hot gases and sparks. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Top housing panels and exhaust system can get very hot. Shut down generator set, and allow system to cool before performing checks, services and maintenance. Failure to comply with this warning can cause severe burns and injury to personnel.

WARNING

Top housing panels and exhaust system can get very hot. When performing DURING PMCS, wear gloves and additional protective clothing as required. Failure to comply with this warning can cause severe burns and injury to personnel.

WARNING

Exercise extreme caution when performing DURING PMCS checks inside engine compartment. Avoid contact with moving or hot engine parts. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Batteries give off a flammable gas. Do not smoke or use open flame when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Battery acid can cause burns to unprotected skin. Wear safety goggles and chemical gloves and avoid acid splash while working on batteries. Failure to comply with this warning can cause injury to personnel.

WARNING

Do not disconnect trailer from towing vehicle before hand brakes are set and front landing leg and rear support leg lowered. Failure to comply with this warning can cause injury or death to personnel from trailer tipping or rolling, and damage to the equipment.

WARNING

If trailer is not coupled to towing vehicle, ensure that wheels are securely chocked. Failure to comply with this warning can cause trailer to roll, resulting in injury to personnel and damage to equipment.

WARNING

Before removing trailer leveling-support jack, support rear of trailer with jack stand(s). Failure to comply with this warning can cause injury or death to personnel.

WARNING

Before performing any maintenance that requires climbing on or under trailer, make sure that trailer handbrakes are set, trailer front landing leg/support leg is lowered, and leveling-support jack is lowered. Failure to comply with this warning can cause injury or death to personnel from trailer suddenly rolling or tipping.

WARNING

Steel strapping used in packaging of the power plant/power unit has sharp edges. Wear gloves and use care when cutting and handling steel strapping. Failure to comply with this warning can cause injury to personnel.

WARNING

Use the aid of an assistant when removing the fender, splash guard, and switch box as an assembly. Failure to comply with this warning can cause injury to personnel.

WARNING

When lifting generator set, use lifting equipment with minimum lifting capacity of 6000 pounds (2722 kg). Do not stand or put arms, legs, or any part of the body under hoisted load. Do not permit generator set to swing. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Impact disk must be tightened to end of threads on rod. Also, lock washer and nut must be tightened firmly against impact disk. Failure to comply with this warning can cause injury to personnel, and damage to the equipment.

WARNING

Do not attempt to seat a lockring when tire is inflated. Improperly seated lockring could fly off. Failure to comply with this warning can cause injury to personnel.

WARNING

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. Do not smoke or use near open flame or excessive heat. Failure to comply with this warning can cause injury to personnel, and damage to the equipment.

FOR FIRST AID, REFER TO FM 4-25.11.

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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

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HOW TO USE THIS MANUAL

DESCRIPTION OF THE MANUAL

<u>Manual Organization</u>. This manual is designed to help you operate and maintain Power Unit PU-800, Power Unit PU-801, Power Unit PU-801, Power Unit PU-802, Power Plant AN/MJQ-39, Power Plant AN/MJQ-48 and Power Plant AN/MJQ-48A. Warning pages are located in the front of this manual. Read the warnings before operating or doing maintenance on the equipment.

The major elements of this manual are its chapters and appendices. Each chapter has one or more sections. The Table of Contents, beginning on page ii, is provided for quick reference to the subjects covered by each chapter, section, and appendix. Each chapter also has a chapter index. The chapter index lists the chapter sections and paragraphs. Appendix F also has a table of contents to help you locate the items listed in the Repair Parts and Special Tools List (RPSTL).

The front cover of this manual has an index that lists the most important areas of the manual.

A glossary follows the last appendix. The glossary lists and explains the special or unique abbreviations and the unusual terms used in this manual.

An alphabetical index follows the glossary. That index is for use in locating specific items of information.

<u>Chapters</u>. This manual has five chapters and eight appendices. Each chapter is divided into sections. Each section is divided into descriptive paragraphs. The paragraphs have specific information about the power units and power plants and their major components.

Paragraph Numbering. All paragraphs are numbered. This helps you find what you need when you need it. USE THE TABLE OF CONTENTS OR ALPHABETICAL INDEX TO FIND THE SECTION OR PARAGRAPH YOU NEED. Some paragraphs have a related illustration, to show the items discussed in the paragraph. Also, some paragraphs have a related table that provides a detailed list of items introduced by the paragraph. Each primary paragraph, illustration, and table is identified by the number of the chapter in which it appears, followed by a dash and another number. The number after the dash indicates the sequence in which the paragraph, illustration, or table appears in the chapter. Some paragraphs are further divided into subparagraphs. Subparagraphs are identified by the number of the primary paragraph followed by a decimal number.

Appendices. Each appendix covers a specific subject. Some appendices are general, such as the list of references in Appendix A; others are very detailed, such as the repair parts and special tools list in Appendix F.

CHAPTER 1 - INTRODUCTION

Chapter 1 provides an introduction to the power units and power plants. It is divided into three sections, as follows:

<u>Section I - General Information</u>. This section provides general information about this manual and the related forms and records. Instructions are provided for making equipment improvement recommendations. Coverage includes a reference to the TM that contains instructions on destruction of materiel to prevent enemy use. Also, a nomenclature cross-reference list is provided.

<u>Section II - Equipment Description</u>. This section describes power unit and power plant capabilities, characteristics, and features. It provides basic equipment data and shows the locations of major power unit and power plant components. Descriptions of the major components are also provided.

<u>Section III - Principles of Operation</u>. This section provides functional descriptions of the power units and power plants.

CHAPTER 2 - OPERATING INSTRUCTIONS

Chapter 2 provides instructions for operating the power units and power plants. The chapter is divided into four sections, as follows:

<u>Section I - Description and Use of Operator's Controls and Indicators</u>. This section provides references to the applicable generator set technical manuals and trailer technical manuals. Those references contain information on operator's controls and indicators for the generator sets and trailers. Detailed coverage is provided for the power plant switch box controls and indicators.

<u>Section II - Operator Preventive Maintenance Checks and Services (PMCS).</u> This section contains detailed instructions that the operator must perform before, during, and after preventive maintenance checks and services. Coverage includes all operator PMCS for the generator sets and trailers that make up the power units and power plants. Operator PMCS for the switch box used on the power plants is also covered.

<u>Section III - Operation Under Usual Conditions.</u> This section contains instructions for preparing the power units and power plants for use and operating them under normal conditions. Coverage includes instructions for connecting power plant load to the switch box and operating the switch box. Instructions for connecting power unit load to the generator set are also covered. This section also covers preparation of the power units or power plants for movement to a new worksite.

<u>Section IV - Operation Under Unusual Conditions</u>. This section provides references to the applicable generator set and trailer technical manuals.

CHAPTER 3 - OPERATOR MAINTENANCE

Chapter 3 covers maintenance of the power units and power plants to be performed by the operator. Its purpose is to provide you with the information that you need to keep the equipment in good operating condition. The chapter is divided into three sections, as follows:

Section I - Operator Lubrication. This section provides references to the applicable lubrication instructions.

<u>Section II – Troubleshooting Procedures</u>. This section provides troubleshooting procedures and corrective actions that are to be performed by the operator. It also provides references to the applicable generator set and trailer technical manuals.

<u>Section III - Maintenance Procedures</u>. This section refers the operator to the preventive maintenance checks and services required by Section II of Chapter 2.

CHAPTER 4 - UNIT MAINTENANCE

Chapter 4 provides instructions covering the power units and power plants maintenance that must be performed at unit level. The chapter is divided into seven sections, as follows:

<u>Section I - Repair Parts; Special Tools; Test, Measurement, and Diagnostic Equipment (TMDE); and Support Equipment.</u> This section lists references that contain the required information.

<u>Section II - Service Upon Receipt</u>. This section contains instructions for inspecting and servicing each power unit and power plant when it is received. It includes instructions for unpacking the equipment when it is received. The instructions include unpacking and stowing the basic issue items that accompany the power unit or power plant. Also included are instructions on positioning the power units or power plants for operation and connecting an external fuel source.

Section III - Unit Lubrication. This section lists the applicable references that contain lubrication instructions for

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the generator sets and trailers. It also contains specific lubrication instructions for the power unit or power plant components not covered in the generator set and trailer references.

<u>Section IV - Unit Preventive Maintenance Checks and Services (PMCS).</u> This section contains instructions covering the PMCS that must be performed at the unit maintenance level. A table provides information on maintenance intervals and actions required.

<u>Section V – Troubleshooting Procedures</u>. This section covers troubleshooting procedures and corrective actions that are to be performed at the unit maintenance level.

<u>Section VI - Maintenance Procedures.</u> This section lists the applicable references that cover unit maintenance of the generator sets and trailers. It also contains detailed instructions on unit level maintenance of the power unit and power plant components not covered in the generator set and trailer references.

<u>Section VII – Preparation for Storage and Shipment</u>. This section provides information on short-term, intermediate-term, and long-term storage.

CHAPTER 5 - DIRECT SUPPORT MAINTENANCE

Chapter 5 provides instructions for the maintenance actions designated to be performed at the direct support maintenance level. The chapter is divided into three sections, as follows:

<u>Section I - Repair Parts; Special Tools; Test, Measurement, and Diagnostic Equipment (TDME); and Support Equipment.</u> This section lists the documents that contain the needed information.

<u>Section II - Troubleshooting Procedures</u>. This section includes instructions for troubleshooting faults in the operation of the generator switch box assembly. It includes eight go-no-go flowcharts for eight possible switch box malfunctions.

<u>Section III - Maintenance Procedures.</u> This section lists the references that contain direct support maintenance instructions for the generator sets and trailers. In addition, it contains detailed instructions for direct support maintenance of power unit and power plant components not covered in the generator set and trailer references.

APPENDICES

APPENDIX A - REFERENCES

This appendix lists all publications referenced in the various chapters of the technical manual. The listing includes the title and document number of each publication.

APPENDIX B - MAINTENANCE ALLOCATION CHART (MAC)

This appendix has four sections, as follows:

Section I - Introduction. This section explains what is covered in the maintenance allocation chart.

<u>Section II - Maintenance Allocation Chart (MAC).</u> This section contains a tabular listing that assigns maintenance functions to specific maintenance levels. It lists the work time needed to perform each maintenance function at the assigned level. It also contains a column that has entries keyed to the tools and equipment listed in Section III. Another column has entries keyed to the remarks in Section IV.

<u>Section III - Tool and Test Equipment Requirements</u>. This section contains complete identification information for the items referenced in the tools and equipment column of Section II.

<u>Section IV - Remarks</u>. This section provides additional information for each entry in the remarks column of Section II.

APPENDIX C - COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

This appendix lists the items usually packaged separately but needed for installation and operation of the power units and power plants. The appendix has three sections, as follows:

Section I - Introduction. This section explains what is covered in Sections II and III.

<u>Section II - Components of End Item</u>. The power units and power plants are normally shipped fully assembled, so this section is not applicable.

<u>Section III - Basic Issue Items</u>. This section contains a list of the accessories needed for installation and operation of the power units and power plants.

APPENDIX D - ADDITIONAL AUTHORIZATION LIST (AAL)

This appendix lists additional items you are authorized for support of the power units and power plants. This appendix contains two sections, as follows:

Section I - Introduction. This section explains the entries in Section II.

Section II - Additional Authorized Items List. This section lists the Additional Authorized Items.

APPENDIX E - EXPENDABLE AND DURABLE ITEMS LIST

This appendix lists expendable/durable supplies and materials needed to operate and maintain the power units and power plants. The appendix contains two sections, as follows:

Section I - Introduction. This section explains the entries in Section II.

<u>Section II - Expendable and Durable Items List</u>. The list indicates the maintenance level that needs each item and identifies the items by National Stock Number (NSN), description, and unit of measure.

APPENDIX F - REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

This appendix lists and authorizes the repair parts and special tools needed to perform operator, unit, and direct support maintenance of the power units and power plant. It contains four sections, as follows:

Section I - Introduction. This section explains what is covered in Sections II. III. and IV.

<u>Section II - Repair Parts List.</u> This section contains illustrations and lists. The illustrations aid in identifying the parts. The lists include information that tells which maintenance levels are authorized to use the part, the part number that identifies the part, the name of the part, and the quantity used.

NOTE

Switch boxes for the power plants have undergone many design changes over the years. The data in this RPSTL contains all three versions of switch boxes (A, B, and C) with detailed information relative to the Version C switch box.

Section III - Special Tools Group. This section informs the user that no special tools are needed.

<u>Section IV - Cross-Reference Indexes</u>. This section contains three indexes: an NSN index, a part number index, and a figure and item number index. Each index lists all of the parts contained in Section II. The NSN index is in National Item Identification Number (NIIN) sequence. The part number index is in alphanumeric part number sequence.

APPENDIX G - ILLUSTRATED LIST OF MANUFACTURED ITEMS

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This appendix provides instructions for making the items authorized to be manufactured or fabricated at the unit maintenance level and direct support maintenance level.

APPENDIX H - TORQUE LIMITS

This appendix lists standard torque values for bolts and screws used in the power units and power plants.

GLOSSARY

This glossary has two sections, as follows:

Section I - Abbreviations. This section lists the special or unique abbreviations used in this technical manual.

<u>Section II - Definition of Unusual Terms</u>. This section lists and defines the terms used in this technical manual that are not listed in the Army Regulation (AR 310-25).

ALPHABETICAL INDEX

An alphabetical index at the back of this technical manual provides a listing of subjects covered, cross-referenced to the applicable paragraph, figure, and page number.

HOW TO FIX A POWER UNIT OR POWER PLANT MALFUNCTION

<u>Determining the Cause</u>. Finding the cause of a malfunction, troubleshooting, is the first step in fixing the power unit or power plant and returning it to operation. Follow these simple steps to determine the root of the problem:

- a. Turn to the Table of Contents in this manual (page ii).
- Locate "Troubleshooting" under the chapter that covers your level of maintenance. Turn to the page indicated.
- c. For operator troubleshooting, follow the instructions in the references listed in Chapter 3.
- d. For troubleshooting at the unit maintenance level, find the malfunction listing in the troubleshooting symptom index in Chapter 4, Section V. Follow the instructions in the figure (troubleshooting chart) indicated by the symptom index.
- e. For troubleshooting at the direct support level, find the malfunction listing in the troubleshooting symptom index in Chapter 5, Section II. Follow the instructions in the figure (troubleshooting chart) indicated by the symptom index.

<u>Preparing for a Task.</u> Be sure that you understand the entire maintenance procedure before beginning any maintenance task. Make sure that all parts, materials, and tools are handy. Read all steps before beginning. Prepare to do the task as follows:

- a. Carefully read the entire task before starting. It tells you what you will need and what you have to know to start the task. DO NOT START THE TASK UNTIL:
 - (1) You know what is needed
 - (2) You have everything you need
 - (3) You understand what to do
- b. If parts are listed, they can be drawn from technical supply. Before you start the task, check to make sure you can get the needed parts. National stock numbers (NSNs) and part numbers for generator set parts are listed in the generator Repair Parts and Special Tools List (RPSTL) manual, TM 9-6115-643-24P, and the engine RPSTL manual, TM 9-2815-254-24P. NSNs and part numbers for the 1-ton

trailer chassis parts are listed in TM 9-2330-202-14&P. NSNs and part numbers for the light tactical trailer chassis parts are listed in TM 9-2330-392-14&P. NSNs and part numbers for the 2 1/2-ton trailer chassis parts are listed in TM 9-2330-205-14&P. NSNs and part numbers for the next-higher assembly (the power unit or power plant, less generator set(s) and trailer chassis) are listed in Appendix F, RPSTL.

c. If expendable/durable supplies or materials are needed, get them before starting the task. Refer to Appendix E for the correct nomenclature and NSN.

How to Do the Task. Before starting, read the entire task. Be sure that you understand the entire procedure before you begin the task. As you read, remember the following:

- a. PAY ATTENTION TO WARNINGS, CAUTIONS, AND NOTES.
- b. Use the GLOSSARY if you do not understand the special abbreviations or unusual terms used in this manual.
- c. The following are standard maintenance practices. Instructions about these practices are usually not included in task steps. When standard maintenance practices do not apply, the task steps will tell you.
 - (1) Tag electrical wiring before disconnecting it.
 - (2) Discard used preformed packing, retainers, gaskets, cotter pins, lockwashers, and similar items. Install new parts to replace the discarded items.
 - (3) Coat packing before installation, in accordance with the task instructions.
 - (4) Disassembly procedures describe the disassembly needed for total authorized repair. You may not need to disassemble an item as far as described in the task. Follow the disassembly steps only as far as needed to repair/replace worn or damaged parts.
 - (5) Clean the assembly, subassembly, or part before inspecting it.
 - (6) Before installing components having mating surfaces, inspect the mating surfaces to make sure they are in serviceable condition.
 - (7) Hold the bolt (or screw) head with a wrench (or screwdriver) while tightening or loosening a nut on the bolt (or screw).
 - (8) Torque to the special torque cited when the task instructions include the words "torque to." Use standard torques at all other times.
 - (9) When a cotter pin is required, align the cotter pin holes within the allowable torque range.
 - (10) Inspect for foreign objects after performing maintenance.

CHAPTER 1

INTRODUCTION

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1-3 1-4	Preparation for Storage and Shipment		
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Section 1. GENERAL INFORMATION

1-1 SCOPE.

This manual is for your use in operating and maintaining the Power Unit PU-800, Power Unit PU-801, Power Unit PU-801, Power Unit PU-801, Power Plant AN/MJQ-39, Power Plant AN/MJQ-48 and Power Plant AN/MJQ-48A (figure 1-1.1 through figure 1-4.3). The manual covers operating instructions and operator, unit and direct support maintenance requirements for the equipment. It also contains a Repair Parts and Special Tools List (RPSTL) for the power units and power plants. The Power Units PU-801, PU-801A and PU-802 are mobile units used to supply 15kW of 50/60 Hz power. The PU-800 is a mobile unit used to supply 15kW of 400 Hz power. Power Plant AN/MJQ-39 consists of two PU-800 Power Units, a Switch Box, and a power cable. Power Plant AN/MJQ-48A consists of two PU-801 Power Units, a Switch Box, and a power cable. Power Plant AN/MJQ-48A consists of two PU-801A Power Units, a switch box, and a power cable.

1-2 MAINTENANCE FORMS AND RECORDS.

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

1-3 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

1-4 PREPARATION FOR STORAGE AND SHIPMENT.

Refer to Chapter 4. Section VII for detailed instructions.

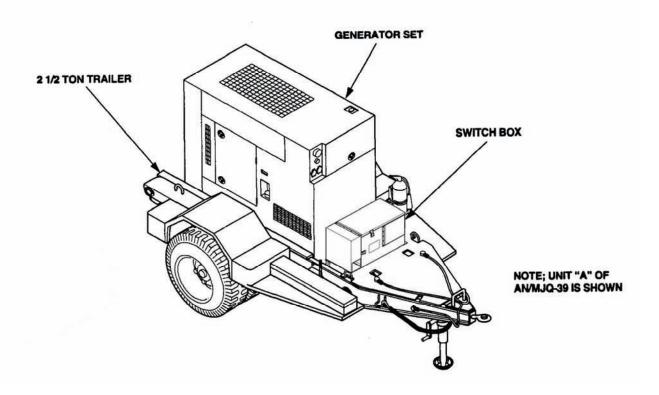


Figure 1-1.1 Curbside Front Three Quarter View.

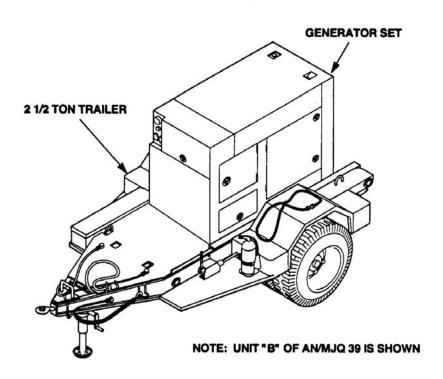


Figure 1-1.2 Roadside Front Three Quarter View.

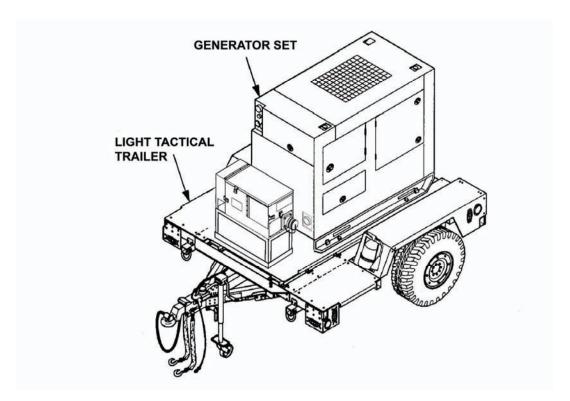


Figure 1-2.1 AN/MJQ-48A Roadside Front Three Quarter View (Unit A).

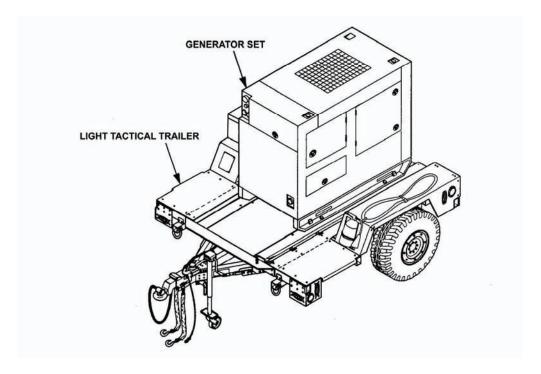


Figure 1-2.2 AN/MJQ-48A Roadside Front Three Quarter View (Unit B).

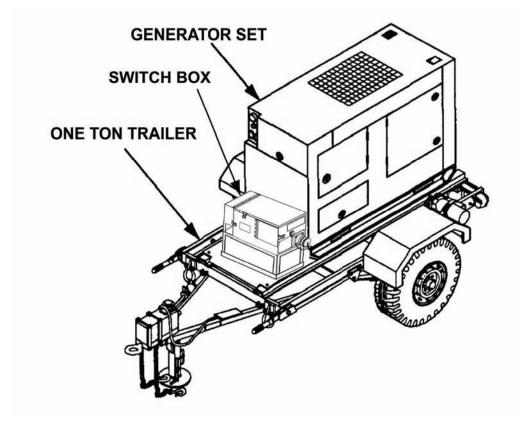


Figure 1-3.1 AN/MJQ-48 Roadside Front Three Quarter View (Unit A).

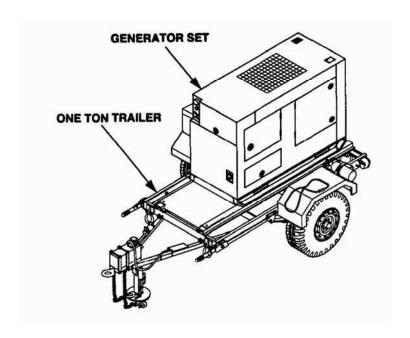


Figure 1-3.2 AN/MJQ-48 Roadside Front Three Quarter View (Unit B).

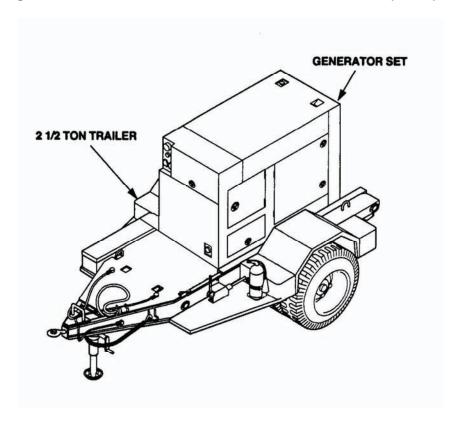


Figure 1-4.1 PU-800/PU-802 Three Quarter View.

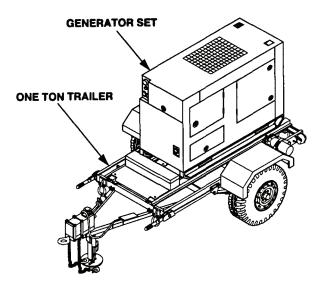


Figure 1-4.2 PU-801 Three Quarter View.

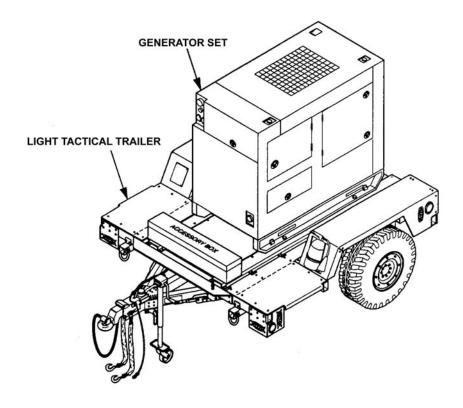


Figure 1-4.3 PU-801A Three Quarter View.

1-5 EQUIPMENT IMPROVEMENT RECOMMENDATION (EIR).

If your PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48, or AN/MJQ-48A needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, US Army Communications-Electronics Life Cycle Management Command (CE-LCMC), ATTN: AMSEL-LC-LEO-E-ED, Fort Monmouth, NJ 07703-5006. We will send you a reply.

1-6 NOMENCLATURE CROSS-REFERENCE LIST.

The common name of the Power Units and Power Plants is listed with its official nomenclature in Table 1-1.

Table 1-1. Nomenclature Cross-Reference List.

Common Name	Official Nomenclature	
PU-800	Power Unit, Diesel Engine Driven, 2 ½ Ton Trailer Mounted, 15kW, 400 Hz	
PU-801	Power Unit, Diesel Engine Driven, 1 Ton Trailer Mounted, 15kW, 50/60 Hz	
PU-801A	Power Unit, Diesel Engine Driven, Light Tactical Trailer Mounted, 15kW, 50/60 Hz	
PU-802	Power Unit, Diesel Engine Driven, 2 ½ Ton Trailer Mounted, 15kW, 50/60 Hz	
AN/MJQ-39	Power Plant, Diesel Engine Driven, 2 ½ Ton Trailer Mounted, 15kW, 400 Hz	
AN/MJQ-48	Power Plant, Diesel Engine Driven, 1 Ton Trailer Mounted, 15kW, 50/60 Hz	
AN/MJQ-48A	Power Plant, Diesel Engine Driven, Light Tactical Trailer Mounted, 15kW, 50/60 Hz	
MEP-804A	Generator Set, 15kW, 50/60 Hz	
MEP-814A	Generator Set, 15kW, 400 Hz	
M200A1	Chassis, Trailer, 2 ½ Ton, 2/4 Wheel (altered)	
M116A3	Chassis, Trailer, 1 Ton, 2 Wheel, (altered)	
LTT	Light Tactical Trailer, 2 Wheel (altered)	

1-7 LIST OF ABBREVIATIONS/ACRONYMS.

Refer to the Glossary at the back of this manual.

1-8 GLOSSARY.

Refer to the Glossary at the back of this manual.

Section II. EQUIPMENT DESCRIPTION

1-9 EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

NOTE

A modification to the M200A1 trailer in 2005 changed from the 4-tire configuration to a 2-tire configuration. The illustrations in this manual depict the 4-tire configuration.

- **1-9.1** Characteristics. The 15kW Power Units and Power Plants consist of one or two DOD Model MEP 804A or 814A Tactical Quiet Generator Sets mounted on modified trailers. The PU-800 and PU-802 are mounted on the M200A1, 2 ½ ton trailer; the PU-801 is mounted on the M116A3, 1 ton trailer; and the PU-801A is mounted on the Light Tactical Trailer (LTT). Trailers are modified to include generator mounting rails, special fenders, an accessory box, and a fire extinguisher bracket. The M116A3 1 ton trailer also has a heavy duty axle and heavy duty springs to support the generator set. For detailed information about the trailers refer to the appropriate technical manual: TM 9-2330-205-14&P for the M200A1 trailer, TM 9-2330-202-14&P for the M116A3 trailer, and TM 9-2330-392-14&P for the Light Tactical Trailer. Each generator set is a liquid cooled, diesel engine-driven unit operating at 50/60 or 400 Hz with a load capacity of 15kW @ .8 power factor.
- **1-9.1.1 Power Unit PU-800.** The PU-800 has a Tactical Quiet Generator Set, DOD Model MEP-814A, liquid-cooled, diesel engine-driven unit, with a load capacity of 15kW, mounted on a single modified M200A1, 2 ½ Ton trailer. Refer to TM 9-6115-643-10 for detailed information about the generator set.
- **1-9.1.2** Power Unit PU-801 and PU-801A. The PU-801 and PU-801A each have a Tactical Quiet Generator Set, DOD Model MEP-804A liquid-cooled, diesel engine-driven unit, with a load capacity of 15kW. The generator for the PU-801 is mounted on a modified 1 ton trailer. The generator for PU-801A is mounted on a Light Tactical Trailer (LTT). Refer to TM 9-6115-643-10 for detailed information about the generator set.
- **1-9.1.3** Power Unit PU-802. The PU-802 has a Tactical Quiet Generator Set, DOD Model MEP-804A liquid-cooled, diesel engine-driven unit, with a load capacity of 15kW, mounted on a modified M200A1, 2 ½ ton trailer. Refer to TM 9-6115-643-10 for detailed information about the generator set.
- **1-9.1.4** Power Plant AN/MJQ-39. The AN/MJQ-39 Power Plant consists of two PU-800 Power Units, a power cable and a switch box. The PU-800 Power Units have been identified as either Unit A or Unit B. The Switch Box is mounted on Unit A and the power cable is stored on Unit B. The electrical output and towing information are the same as listed for the PU-800 in paragraph 1-9.2.1.
- **1-9.1.5** Power Plant AN/MJQ-48. The AN/MJQ-48 Power Plant consists of two PU-801 Power Units, a power cable and a switch box. The PU-801 Power Units have been identified as either Unit A or Unit B. The Switch Box is mounted on Unit A and the power cable is stored on Unit B. The electrical output and towing information are the same as listed for the PU-801 in paragraph 1-9.2.2.
- **1-9.1.6** Power Plant AN/MJQ-48A. The AN/MJQ-48A Power Plant consists of two PU-801A Power Units, a power cable and a switch box. The PU-801A Power Units have been identified as either Unit A or Unit B. The Switch Box is mounted on Unit A and the power cable is stored on Unit B. The electrical output and towing information are the same as listed for the PU-801A in paragraph 1-9.2.2.
- **1-9.2** <u>Capabilities and Features.</u> The PU-800 and PU-802 are mounted on modified M200A1, 2 ½ ton trailers. The PU-801 is mounted on a modified M116A3, 1 ton, two-wheeled trailer. The PU-801A is mounted on a Light Tactical Trailer (LTT). The towing capabilities and features are as follows:

NOTE

Refer to trailer technical manuals for information concerning unique driving conditions.

1-9.2.1	Power Unit PU-800.	
	TOWING VEHICLE	. 2 ½ Ton 6X6 or 5 Ton 6X6
	TIRE PRESSURE (Highway)(Dual Radial)	
	ELECTRICAL OUTPUT – 400Hz: 120/208 volts, three phase, 400 Hz	
1-9.2.2	Power Units PU-801 and PU-801A.	
	TOWING VEHICLE PU-801 PU-801A	
	TIRE PRESSURE (Highway) PU-801PU-801A	
	ELECTRICAL OUTPUT – 50/60 Hz: 120/208 volts, there phase, 60 Hz	
1-9.2.3	Power Unit PU-802.	
	TOWING VEHICLE	2 ½ Ton 6X6 or 5 Ton 6X6
	TIRE PRESSURE (Highway)	35 psi (241.3 kPa)
	ELECTRICAL OUTPUT – 50/60 Hz: 120/208 volts, there phase, 50/60 Hz	
1-9.2.4	Power Plant AN/MJQ-39.	
	TOWING VEHICLE	2 ½ Ton 6X6 or 5 Ton 6X6
	TIRE PRESSURE (Highway)	.35 psi (241.3 kPa)
	ELECTRICAL OUTPUT – 400Hz: 120/208 volts, three phase, 400 Hz	
1-9.2.5	Power Plant AN/MJQ-48 and AN/MJQ-48A.	
	TOWING VEHICLE AN/MJQ-48 AN/MJQ-48A	
	TIRE PRESSURE (Highway) AN/MJQ-48	35 psi (241.3 kPa)

ELECTRICAL OUTPUT – 50/60 Hz:	
120/208 volts, there phase, 60 Hz	52 amps
240/416 volts, three phase, 60 Hz	26 amps

1-10 LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

The illustration, Figure 1-5, shows Unit A of the AN/MJQ-39. Unit A of the AN/MJQ-48 and MN/MJQ-48A has the same components as the AN/MJQ-39 Unit A. Unit B of the AN/MJQ-39, NN/MJQ-48 and AN/MJQ-48A has the same components and also contains a power cable, but does not contain a Switch Box. The PU-800, PU-801, PU-801A and PU-802 also have the same components as Unit A listed above, but do not contain a Switch Box. The accessory box on Unit A has been removed from the front platform and mounted on the curbside step, except for PU-801 and PU-801A, where the accessory box is mounted at the front of the trailer across the generator mounting rails. Table 1-2 lists the major components of the power units or power plants.

Table 1-2. Description of Major Components, Power Unit or Power Plant.

Item No.	Item Name	Description
1	Switch Box (AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A (Unit A only))	Allows connection of two generator sets provided with the AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A.
2	Generator Set	Produces 120/208 or 240/416 three phase AC power at 15kW. DOD Model MEP-814A generator set for the AN/MJQ-39 and PU-800. DOD Model MEP-804A generator set for the AN/MJQ-48, AN/MJQ-48A, PU-801, PU-801A and PU-802.
3	Trailer (Power cable is mounted on AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A (Unit B only))	AN/MJQ-39, PU-800 and PU-802 – modified trailer M200A1 (TM 9-2330-205-14&P). AN/MJQ-48 and PU-801 – modified trailer M116A3 (TM 9-2330-202-14&P). AN/MJQ-48A and PU-801A is the LTT (TM 9-2330-392-14&P).

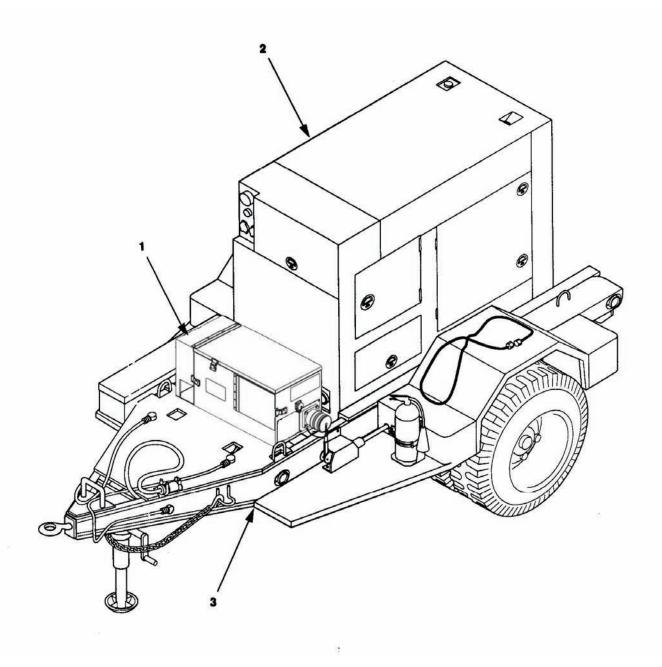


Figure 1-5. Location of Major Components, Power Unit or Power Plant.

1-11 DIFFERENCES BETWEEN MODELS.

Differences between the PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48, and AN/MJQ-48A are identified in Table 1-3. A number (quantity) under the applicable power plant or power unit column heading indicates that the item is a component of that power plant or power unit.

Table 1-3. Differences Between Models.

Component	AN/MJQ- 39 UNIT A	AN/MJQ- 39 UNIT B	AN/MJQ- 48 UNIT A	AN/MJQ- 48 UNIT B	AN/MJQ- 48A UNIT A	AN/MJQ- 48A UNIT B	PU- 800	PU- 801	PU- 801A	PU- 802
Generator Set, 50/60 Hz			1	1	1	1		1	1	1
Generator Set, 400 Hz	1	1					1			
Switch Box	1		1		1					
Power Cable		1		1		1				
Trailer, 2 ½ Ton	1	1					1			1
Trailer, 1 Ton			1	1				1		
Trailer, Light Tactical (LTT)					1	1			1	

1-12 EQUIPMENT DATA

- **1-12.1 Generator Set.** Refer to TM 9-6115-643-10 for the data on the generator set.
- **1-12.2** <u>Trailer Chassis</u>. Refer to TM 9-2330-205-14&P (2 ½ Ton Trailer), TM 9-2330-202-14&P (1 Ton Trailer), and TM 9-2330-392-14&P (Light Tactical Trailer) for the data on the trailer chassis.
- 1-12.3 <u>Tabulated Data</u>. Tabulated data for the power units and power plants are provided in Table 1-4.

Table 1-4. Tabulated Data for Power Units and Power Plants.

Component	AN/MJQ-	AN/MJQ-	AN/MJQ-	AN/MJQ-	AN/MJQ-	AN/MJQ-	PU-	PU-	PU-	PU-
	39	39	48	48	48A	48A	800	801	801A	802
	UNIT A	UNIT B	UNIT A	UNIT B	UNIT A	UNIT B				
Overall length, inches (cm)	165.0	165.0	145.0	145.0	135.0	135.0	165.0	145.0	135.0	165.0
	(419)	(419)	(368)	(368)	(343)	(343)	(419)	(368)	(343)	(419)
Overall width, inches (cm)	94.5	94.5	84.3	84.3	86.0	86.0	94.5	84.3	86.0	94.5
	(240)	(240)	(214)	(214)	(218)	(218)	(240)	(214)	(218)	(240)
Overall height, inches (cm)	83.5	83.5	93.4	93.4	84.1	84.1	83.5	93.4	84.1	83.5
o ronali meigrii, menee (em)	(212)	(212)	(237)	(237)	(214)	(214)	(212)	(237)	(214)	(212)
Operational weight, Lbs (kg)	4893	4863	3265	3265	3285	3285	4855	3180	3200	4920
	(2219)	(2205)	(1481)	(1481)	(1490)	(1490)	(2202)	(1442)	(1451)	(2322)
Shipping weight, Lbs (kg)	5895	5865	3465	3465	3485	3485	5055	3380	3400	5120
	(2674)	(2660)	(1572)	(1572)	(1581)	(1581)	(2293)	(1533)	(1542)	(2413)

1-12.4 <u>Switch Boxes.</u> Three generations of switch boxes have been introduced with the Power Plant configurations. Refer to table 1-5 and Figure 1-6 for switch box differences. Appendix F (RPSTL) includes repair parts for all three versions of the switch box, identified as A Model, B Model, and C Model.

Table 1-5. Switch Box Differences.

Equipment	Differences
Switch Box A (1 st generation)	Physical appearance, internal wiring, spare bulbs with control panel, 1 load terminal wrench
Switch Box B (2 nd generation)	Physical appearance, internal wiring, no spare bulbs, 1 load terminal wrench, identification plate
Switch Box C (3 rd generation)	Physical appearance, internal wiring, no spare bulbs, 1 load terminal wrench, identification plate

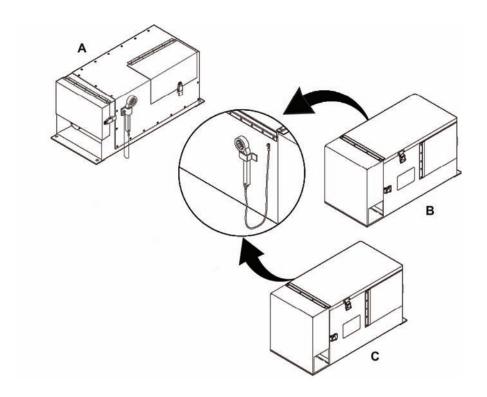


Figure 1-6. Switch Box Differences.

Section III. PRINCIPLES OF OPERATION

1-13 FUNCTIONAL DESCRIPTION.

1-13.1 Power Unit Functional Description. The Power Units are mobile power sources and each consists of a Tactical Quiet 15kW Generator mounted on a modified trailer. The generator set consists of a liquid-cooled diesel engine, brushless generator, excitation system, speed governing system, fuel system, 24-volt direct current starting system, control system, and malfunction protection system. The generator set has a reconnection board that allows it to be positioned for a power output of 120/208-volt, three phase, or 240/416-volt, three phase AC power. The PU-801, PU-801A and PU-802 use a DOD Model MEP-804A Generator Set operating at 60 Hz with a load capacity of 15kW. The PU-800 uses a DOD Model MEP-814A Generator set operating at 400 Hz. System or equipment load cables are to be connected to the load terminals on the generator set. The PU-800 and PU-802 are mounted on 2 ½ Ton Trailers. The PU-801 is mounted on a 1 Ton Trailer and referred to as the lightweight 15kW generator set. The PU-801A is mounted on a light tactical trailer. Refer to TM 9-2330-205-14&P for functional description of the 2 ½ ton trailer, TM 9-2330-202-14&P for the functional description of the 1 ton trailer, and TM 9-2330-392-14&P for the functional description of the light tactical trailer.

1-13.2 Power Plant Functional Description.

1-13.2.1 AN/MJQ-39 Power Plant. The AN/MJQ-39 Power Plant consists of two PU-800 Power Units, a Switch Box and Power Cable. The two PU-800 Power Units have been modified to provide independent switching between the Power Units. One PU-800 is modified by moving the accessory storage box to the curbside fender, adding a switch box and identifying the modified PU-800 as AN/MJQ-39 UNIT A. The second PU-800 is modified by adding a power cable and identifying the modified PU-800 as AN/MJQ-39 UNIT B. Refer to paragraph 1-13.1 for the functional description of the PU-800. Output electrical power is normally supplied through the switch box assembly located on UNIT A. The cable supplied with UNIT B connects the generator sets through the switch box on UNIT A. The control panel of the switch box controls the output source. The output source is usually either the UNIT A or UNIT B generator set as determined by the control panel switches. When both switches are placed in the ON position and both generators are ON, the generators operate in parallel. Parallel operation of the generators allows for an uninterrupted load transfer between UNIT A and UNIT B. The output power cable to external equipment may be connected to the switch box from either connector J1 or load terminals (N, L1, L2, L3, and GND) of the switch box. Refer to TM 9-6115-643-10 for operation and TM 9-6115-643-24 for a detailed functional description of the generator sets without a switch box.

1-13.2.2 AN/MJQ-48 Power Plant. The AN/MJQ-48 Power Plant consists of two PU-801 Power Units, a Switch Box and Power Cable. The two PU-801 Power Units have been modified to provide independent switching between the Power Units. One PU-801 is modified by moving the accessory storage box to the curbside fender, adding a switch box and identifying the modified PU-801 as AN/MJQ-48 UNIT A. The second PU-801 is modified by adding a power cable and identifying the modified PU-801 as AN/MJQ-48 UNIT B. Refer to paragraph 1-13.1 for the functional description of the PU-801. Output electrical power is normally supplied through the switch box assembly located on UNIT A. The cable supplied with UNIT B connects the generator sets through the switch box on UNIT A. The control panel of the switch box controls the output source. The output source is usually either the UNIT A or UNIT B generator set as determined by the control panel switches. When both switches are placed in the ON position and both generators are ON, the generators operate in parallel. Parallel operation of the generators allows for an uninterrupted load transfer between UNIT A and UNIT B. The output power cable to external equipment may be connected to the switch box from load terminals (N, L1, L2, L3, and GND) of the switch box. Refer to TM 9-6115-643-10 for operation and TM 9-6115-643-24 for a detailed functional description of the generator sets without a switch box.

1-13.2.3 AN/MJQ-48A Power Plant. The AN/MJQ-48A Power Plant consists of two PU-801A Power Units, a Switch Box and Power Cable. The two PU-801A Power Units have been modified to provide independent switching between the Power Units. One PU-801A is modified by moving the accessory storage box to the curbside fender, adding a switch box and identifying the modified PU-801A as AN/MJQ-48A UNIT A. The second PU-801A is modified by adding a power cable and identifying the modified PU-801A as AN.MJQ-48A UNIT B. Refer to paragraph 1-13.1 for the functional description of the PU-801A. Output electrical power is normally

supplied through the switch box assembly located on UNIT A. The cable supplied with UNIT B connects the generator sets through the switch box on UNIT A. The control panel of the switch box controls the output source. The output source is usually either the UNIT A or UNIT B generator set as determined by the control panel switches. When both switches are placed in the ON position and both generators are ON, the generators operate in parallel. Parallel operation of the generators allows for an uninterrupted load transfer between UNIT A and UNIT B. The output power cable to external equipment may be connected to the switch box from load terminals (N, L1, L2, L3, and GND) of the switch box. Refer to TM 9-6115-643-10 for operation and TM 9-6115-643-24 for a detailed functional description of the generator sets without a switch box.

1-14 RELATED TECHNICAL MANUALS.

Refer to Appendix A for related technical manuals.

CHAPTER 2

OPERATING INSTRUCTIONS

Subject	Index	age
Section	I Description and Use of Operator's Controls and Indicators	2-2
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Section	II Operator Preventive Maintenance Checks and Services (PMCS)	2-4
2-2	Introduction to Operator PMCS Table	2-4
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Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

2-1 OPERATOR'S CONTROLS AND INDICATORS

Refer to TM 9-6115-643-10 for the generator set. Refer to TM 9-2330-205-14&P for the 2 $\frac{1}{2}$ ton trailer, TM 9-2330-202-14&P for the 1 ton trailer, and TM 9-2330-392-14&P for the Light Tactical Trailer. Refer to figure 2-1 and table 2-1 for the switch box assembly. Refer to Chapter 1, paragraph 1-11 (Table 1-3) for differences between models.

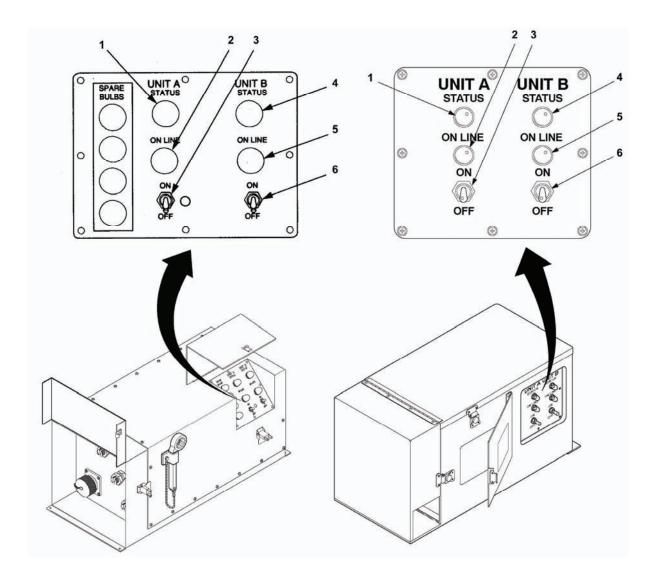


Figure 2-1. Switch Box Controls and Indicators.

Table 2-1. Description of Switch Box Controls and Indicators.

Item Number	Description	Function
1	STATUS light for Unit A generator set.	Lights when Unit A generator set is supplying power to switch box.
2	ON LINE light for Unit A generator set.	Lights when Unit A generator set is supplying power to the load.
3	ON/OFF switch for Unit A generator set.	Toggle switch, used to place Unit A generator set on line when generator set is ready or take it off line before shutting it down.
4	STATUS light for Unit B generator set.	Lights when Unit B generator set is supplying power to switch box.
5	ON LINE light for Unit B generator set.	Lights when Unit B generator set is supplying power to the load.
6	ON/OFF switch for Unit B generator set.	Toggle switch, used to place Unit B generator set on line when generator set is ready or take it off line before shutting it down.
	4 Spare Bulbs (shown with A Model switch box).	Located on left side of control panel on A Model switch box.

Section II. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-2 INTRODUCTION TO OPERATOR PMCS TABLE

Table 2-2 (PMCS table) has been provided so you can keep your equipment in good operating condition and ready for its primary mission.

- **2-2.1** <u>Warnings, Cautions, and Notes.</u> Always observe the *WARNINGS*, *CAUTIONS*, and *NOTES* appearing in your PMCS table. Warnings and cautions appear before applicable procedures. You must observe *WARNINGS* to prevent serious injury to yourself and others. You must observe *CAUTIONS* to prevent your equipment from being damaged. You must observe *NOTES* to ensure procedures are performed properly.
- **2-2.2 Explanation of Table Entries.** The PMCS table is divided into five columns. Each column is explained in the following paragraphs.
- **2-2.2.1** <u>Item No. Column</u>. Numbers in this column are for reference. When completing DA Form 2404 (Equipment Inspection and Maintenance Worksheet), include the item number for the check/service indicating a fault. Item numbers also appear in the order that you must do checks and services for the intervals listed.
- **2-2.2.2** <u>Interval Column</u>. This column tells you when you must do the procedure described in the procedure column. "BEFORE" procedures must be done before you operate the equipment for its intended mission. "DURING" procedures must be done during the time you are operating the equipment for its intended mission. "AFTER" procedures must be done immediately after you have operated the equipment. Perform "WEEKLY" procedures at the listed interval.
- **2-2.2.3** Location, Item to Check/Service Column. This column lists the location and the item to be checked or serviced. The item location is underlined.
- **2-2.2.4 Procedure Column.** This column gives the procedure for checking or servicing the item listed in the location, item to check/service column. You must perform the procedure to know if the power unit or power plant is ready or available for its intended mission or operation. You must do the procedure at the time stated in the interval column.
- **2-2.2.5** <u>Not Fully Mission Capable if: Column.</u> Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If you perform checks or services that show faults listed in this column, do not operate the equipment.
- 2-2.3. Other Table Entries. Be sure to observe all special information and notes that appear in your table.
- **2-2.4.** Special Instructions. Preventive maintenance is not limited to performing the checks and services listed in the PMCS table. Covering unused receptacles, stowing unused accessories, and performing other routine procedures such as equipment inventory, cleaning components, and touch-up painting are not listed in the table. These are things you should do any time you see that they need to be done. If a routine check is listed in the PMCS table, it is because experience has shown that problems may occur with this item. Take along tools and cleaning cloths needed to perform the required checks and services. Use the information in the following paragraphs to help you identify problems at any time and to help identify potential problems before and during checks and services.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. Do not smoke or use near open flame or excessive heat. Failure to comply with this warning can cause injury to personnel, and damage to the equipment.

CAUTION

Keep cleaning solvents, fuels and lubricants away from rubber or soft plastic parts. They will deteriorate material.

- a. Keep the generator set clean. Dirt, grease, and oil get in the way and may cover up a serious problem. Use cleaning solvent to clean metal surfaces.
- b. Use soap and water to clean rubber or plastic parts and material.
- c. Check all bolts, nuts, and screws to make sure they are not loose, missing, bent, or broken. Do not try to check them with a tool, but look for chipped paint, bare metal, or rust around bolt heads. If you find one loose, report it to the next-higher level of maintenance.
- d. Inspect welds for loose or chipped paint, rust, or gaps where parts are welded together. If a broken weld is found, report it to the next-higher level of maintenance.
- e. Inspect electrical wires, connectors, terminals, and receptacles for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors. Examine terminals and receptacles for serviceability. If deficiencies are found, report them to the next-higher level of maintenance.
- f. Inspect hoses and fluid lines. Look for wear, damage, and leaks. Make sure that clamps and fittings are tight. Wet spots and stains around a fitting or connector can mean a leak. If a leak comes from a loose connector, or if something is broken or worn out, report it to the next-higher level of maintenance.

2-2.5 <u>Leakage Definitions</u>. You must know how fluid leakage affects the status of your equipment. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them. When in doubt, *notify your supervisor*.

Leakage <u>Class</u>	Leakage Definition
Class I	Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
Class II	Leakage of fluid great enough to form drops, but not enough to cause drops to drip from the item being checked/inspected.
Class III	Leakage of fluid (other than fuel) greater than three drops per minute that fall from the item being inspected.

2-2.6 Operation of Power Unit/Power Plant with Minor Leaks.

CAUTION

Equipment operation is allowable with minor leakage (Class I or II) of any fluid except fuel. Fluid capacity must be considered before deciding to continue operation of the equipment with minor leaks. When operating with Class I or II leaks, fluid level must be checked more often than required by the PMCS table. Parts without fluid will stop working and/or cause equipment damage.

- a. Consider the equipment's capacity for the fluid that is leaking. If the capacity is small, the fluid level may soon become too low for continued operation. If in doubt, *notify your supervisor*.
- b. Check the fluid level more often than required in the PMCS table. Add fluid as needed.
- **2-2.7** Corrosion Prevention and Control (CPC). CPC of Army materiel is of continuing concern. It is important that any corrosion problems with the equipment be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items. Although 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 key words such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem. The form should be submitted to the address specified in DA Pam 738-750.
- **2-2.8** Order in Which PMCS Will be Done. Figure 2-2 shows the order in which you are to perform your PMCS. The figure shows a typical configuration having one generator set. Keep in mind that a power plant consists of two power units and PMCS must be performed on each power unit. The number callouts on figure 2-2 correspond to the numbers in the Item No. column of table 2-2, for "BEFORE" PMCS.

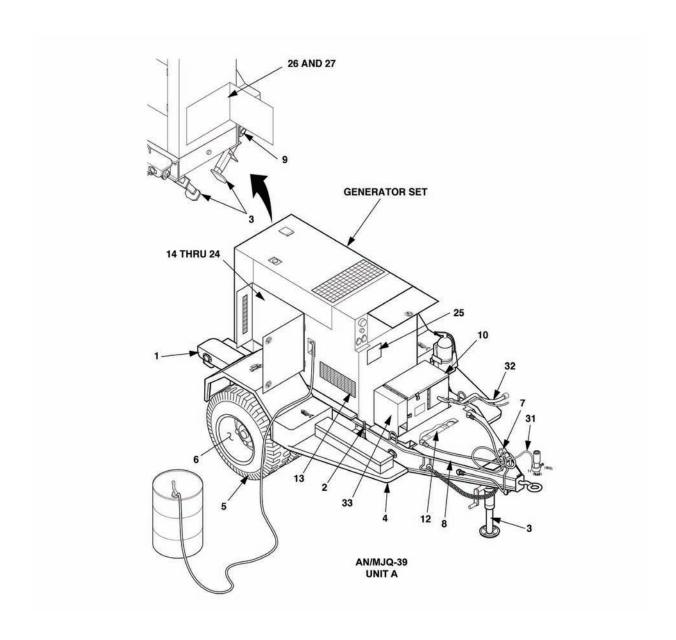


Figure 2-2. Operator PMCS Routing Diagram (Sheet 1 of 2).

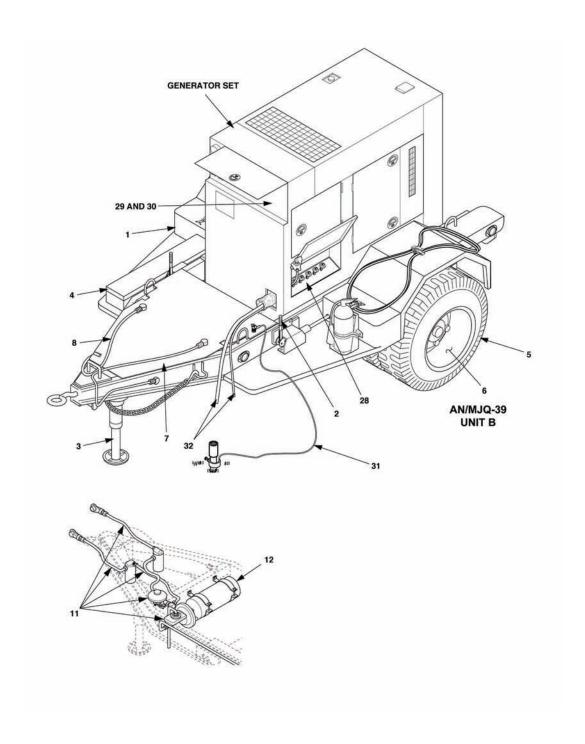


Figure 2-2. Operator PMCS Routing Diagram (Sheet 2 of 2).

Table 2-2. Operator Preventive Maintenance Checks and Services. (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

NOTE

If equipment must be in continuous operation, check and service only those items that can be checked and serviced without disturbing operation. Make complete checks and services when equipment can be shut down. When a procedure is required for both weekly and "BEFORE" intervals, it is not necessary to do the procedure twice if the equipment is operated during the weekly period.

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
			WARNING in can stick to metal. Avoid contageme cold weather. Failure to compersonnel.	
			WARNING	
		and front landing leg and re	om towing vehicle before hand bra ar support leg lowered. Failure to d ere personal injury or death from tr	observe this
			WARNING	
		chocked. Failure to comp	owing vehicle, ensure that wheels a ly with this warning can cause tra nel and damage to equipment.	
		TRAILER		
1	Before	VISUAL INSPECTION • Fenders/body • Gen set door • Reflectors • Landing leg • Skid base • Lunette • Chains	a. Check for damage.	Any condition that renders the power unit/power plant not mission capable.
		Identification plates Fuel and coolant	b. Check on, around, and under equipment for fuel, oil, or coolant leaks.	Class III coolant or any class fuel leak is detected.
2	Before	HANDBRAKE	a. Check operation of handbrake lever (1). Lever should move freely through its entire travel.	Handbrake lever (1 or 2) locked in applied position.

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		·
		TRAILER - continued		
2	Before	HANDBRAKE - continued	 b. Check adjustment of handbrake lever (1). Lever is properly adjusted when it is difficult to move beyond two-thirds of the way to the applied position. If out of adjustment, see step d. c. With trailer hooked to towing vehicle, set handbrake lever (1). Move trailer slightly to see if handbrakes hold wheels. If not, proceed to step d. d. Adjust handbrake as follows. 1. Release handbrake lever (1). 2. Turn adjustment knob (2) clockwise to tighten or counterclockwise to loosen. If unable to adjust, refer to Field Level Maintenance. 3. Check adjustment (Refer to step b). Repeat steps 1 and 2 as required. Repeat step c. 	

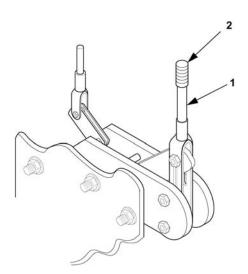


Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item	Interval	Location	Procedure	Not Fully Mission
No.	interval	LUCATION	Flocedule	Capable if:
		Item to Check/Service		-
		TRAILER – continued		
3	Before	LANDING LEG AND STEP JACK	Check for loose, missing, damaged, or corroded parts, and for any unusual signs of deterioration.	
			a. With trailer connected to towing vehicle, check landing leg assembly (3) for easy operation.	Landing leg assembly will not secure in stored position, or will not support trailer.
			b. Check landing leg for proper mounting, alignment, and general condition.	
			c. Check jacks (4) for ease of operation.	
			d. Check jacks (4) for secure mounting.	
			e. Ensure step jacks can be locked in stored and support positions.	Rear support leg/step jacks will not secure in stored position, or
			f. Ensure locking pin is attached to step jack with chain.	will not support trailer.
			g. Ensure step jacks can be adjusted up or down.	
		3		4

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

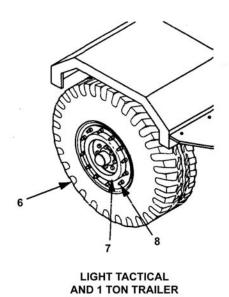
		1		I —
Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		TRAILER - continued		
4	Before	ACCESSORIES	 Check that following accessories are not missing or damaged: Auxiliary fuel hose(s) (stored behind battery access door). Fire Extinguisher (stored in fire extinguisher bracket on fender), check seal. 	Fire extinguisher is missing, seal is broken.
			NOTE	
			Remaining accessories are stored in accessory box, and ground rod may be stored in generator set (5).	Ground rod and/or ground cable missing.
			 Fuel container adapter Ground rod Hammer, 8 lb Load terminal wrench Slide hammer Ground cable 	
	1/11/811 1 TE / 8500			
	Q.	2 1/2 TON TRAILER	GHT TACTICAL TRAILER	1 TON TRAILER

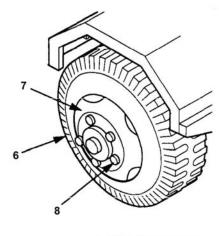
Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure Not Fully Mission Capable if:
		Item to Check/Service	
		TRAILER - continued	
5	Before	TIRES	a. Check tires (6) for cuts, bruises, bulges, or unusual tread wear. Remove any foreign objects from between treads.
			b. Check tire pressure, when tires are cool, for 45 psi (248 kPa). Tire will not hold air pressure.
6	Before	WHEELS	a. Check wheels (7) for damage and for leakage around flange gasket. Wheel has Class III leak at flange gasket.
			b. Check to see if stud nuts (8) are loose or missing. One stud nut is loose or missing.
7	Before	INTER-VEHICULAR CABLE	a. Check inter-vehicular cable (9) for cuts and breaks. Cable is severed or missing.
			b. Open cable protective cover. Inspect for broken, missing and burnt pins.

WARNING

Do not attempt to seat a lockring when tire is inflated. Improperly seated lockring could fly off. Failure to comply with this warning can cause injury to personnel.





2 1/2 TON TRAILER

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

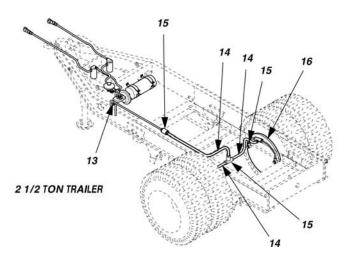
Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		TRAILER - continued		
8	Before	AIR HOSE AND COUPLER	a. With trailer hooked to towing vehicle, check air hose (10) for leaks, cuts, and abrasions.	Air leaks are found, or cuts in hose are deep enough for cords to show.
			b. Check coupler body (11) for damage. Check if seal (12) is missing or damaged.	Coupler body is cracked or broken. Seal is missing.
9	Before	LIGHTS	Check for obvious damage or looseness of lights and lenses.	Lights are damaged, not serviceable.
			NOTE	
			An assistant is required while checking brake lights.	
			b. Connect the inter-vehicular cable (9) to the towing vehicle.	
			c. Operate the vehicle light switch through all settings, and check the lights.	
12 9 11 12 9 (2 1/2 TON TRAILER) (LIGHT TACTICAL TRAILER)				

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		TRAILER - continued		
		A Model	B & C Mode	
10	Before	SWITCH BOX ASSEMBLY (POWER PLANT UNIT A ONLY)	Check for the following: • Loose or missing mounting hardware	Two or more mounting bolts missing.
			Damaged indicator lightsDamaged or missing hinges and	Indicator lights are damaged. Hinges missing or
			Loose or damaged switches	damaged. Switches loose or
			Tightness of load terminals	damaged. Load terminals loose.
			- rightness of load terminals	Load terminais 100se.
			Damaged or missing output terminals or connectors.	Damaged, loose or missing terminals or connectors will not secure load cables.

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		TRAILER - continued		
11	Before	SERVICE BRAKE SYSTEM	a. Check for leakage of brake fluid from master cylinder (13).	Cable is broken or missing.
			b. Check for leakage of brake fluid from hydraulic brake lines (14), fittings (15), or at backing plates (16).	Brake system has any leaks or brakes do not hold.



Before AIR RESERVOIR, LINES, AND FITTINGS

a. Check for damage and loose or missing parts.

b. Ensure that drain cock (17) is closed.

Hose is damaged or parts are loose or missing.

Drain cock will not close.

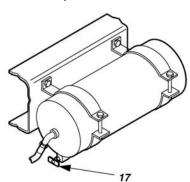


Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		GENERATOR SET		
13	Before	ACOUSTICAL MATERIALS	Ensure that acoustical materials, located in the grill areas, are secure, and not damaged or missing.	
			WARNING	
	pro ger	tection must be worn when o	sposes personnel to a high noise perating or working near the generative to comply with this warning can	or set when the
			WARNING	
	who		are flammable. Do not smoke or us Failure to comply with this warning cage to the generator set.	
14	Before	ENGINE ASSEMBLY	Visually inspect the generator set for fuel, oil, and coolant leaks. Check for proper ground connections.	Any fuel leaks. Any Class III oil or coolant leaks.
			b. Visually inspect the engine for missing, loose, or damaged parts and hardware, and for unusual wear or deterioration.	Any condition that renders power unit/power plant not mission capable.
			DEAD CRANK switch to NORMAL.	

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
INO.		Item to Check/Service		Сарабіе іі.
		GENERATOR SET - continued		
15	Before	FUEL SYSTEM	Inspect fuel injector, fuel injector line, fuel pump, and fuel line for leaks, damage, and loose or missing hardware.	Any fuel leaks, damage, or loose or missing parts.
<u>FI</u>	RONT	23 27 AND 28 25 AND 26	T SIDE REAR	24 21 20 22 RIGHT SIDE
16	Before	FUEL FILTER/WATER SEPARATOR	 a. Inspect fuel filter/water separator (18) for leaks, proper mounting, cracks, damage, or missing parts. b. Drain water from fuel filter/water separator (18). 	Any fuel leaks.
17	Before	ETHER SYSTEM	Inspect for leaks and for damaged, loose or missing parts.	
18	Before	LUBRICATION SYSTEM	 a. Inspect lubrication system for leaks and for damaged, loose, or missing parts. b. Check oil level (19). Add oil, as necessary. 	Class III leaks, or damaged, loose, or missing parts.
			c. Check engine oil for contamination.	Engine oil shows signs of contamination.

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:		
		Item to Check/Service				
	WARNING					
	Co	oling system operates at hi	gh temperature and pressure. Co	entact with high		
	pre	essure steam and/or liquids ca	n result in burns and scalding. Shut	t down generator		
	set we	, and allow system to cool bef ar gloves and additional prote	ore performing checks, services and ective clothing and goggles as requ	maintenance, or ired. Failure to		
	comply with this warning can cause injury or death to personnel.					
		GENERATOR SET - continued				
19	Before	RADIATOR	Check radiator (20) for leaks, damage, or missing parts.	Class III leaks. Radiator cap missing.		
20	Before	HOSES	Check hoses (21) for leaks, cracks, or deterioration.	Class III leaks.		
21	Before	COOLING FAN	Check fan (22) for damage or looseness.	Damaged or loose.		
22	Before	FAN BELT	Inspect belt (23) for cracks, fraying, or looseness.	Broken or loose belt.		
23	Before	OVERFLOW BOTTLE	a. Check overflow bottle (24) for leaks or missing parts.	Class III leaks.		
			b. Check coolant level.			
				//		
			.21			
		21	22			
		24				
	23					
	20					

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

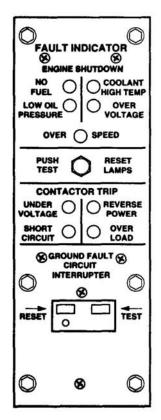
Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
	or or	perate generator set in enclo	WARNING adly gases including carbon monoused areas unless exhaust dischared by with this warning can cause injury.	ge is properly
		GENERATOR SET - continued		
24	Before	EXHAUST SYSTEM	Check muffler (25) for evidence of leakage and exhaust system for corrosion, damage, or missing parts.	Muffler or exhaust system damaged or leaking.
	27		25	
25	Before	AIR CLEANER ASSEMBLY	Inspect air cleaner assembly (26) and piping (27) for loose or damaged connections.	Loose or damaged connections.
			Inspect restriction indicator (28) for clogged element. If indicator shows red, notify next-higher level of maintenance.	Clogged element is indicated, or piping and connections are loose.

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:		
		Item to Check/Service				
	WARNING Battery acid can cause burns to unprotected skin. Wear safety goggles and chemical gloves and avoid acid splash while working on batteries. Failure to comply with this warning can cause injury to personnel.					
			WARNING			
	pe		gas. Do not smoke or use ope to comply with this warning can to the generator set.			
		GENERATOR SET - continued				
26	Before	BATTERIES	a. Check batteries for damage or missing caps (front of generator in battery compartment).	Batteries not charged.		
			b. Inspect electrolyte level. If low notify next-higher maintenance level.			
27	Before	BATTERY CABLES	Inspect cables and connectors for corrosion, damage, and loose or missing parts.	Cables are damaged or missing.		
			WARNING			
	High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.					
28	Before	OUTPUT BOX ASSEMBLY	a. Check for loose or damaged wiring or cables.	Missing or damaged wiring or cables.		
			b. Check output terminals for damage or missing hardware.	Damaged or missing hardware.		

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		GENERATOR SET - continued		
29	Before	CONTROLS AND INDICATORS	a. Check indicators and controls for damage or missing parts.	Indicators or controls damaged or missing.
			 b. Place PRIME & RUN switch to AUX PRIME & RUN and press TEST RESET LAMPS button on fault indicator. All test lamps must light. 	
			c. Check fuel gauge for fuel level.	
30	Before	CONTROL BOX HARNESS	Check inside control box for loose or damaged wiring.	Loose or damaged wires.



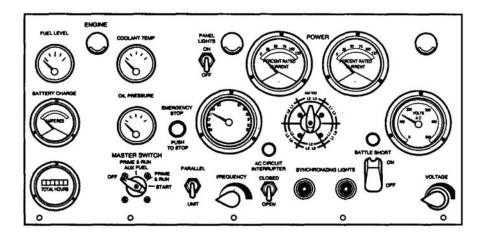


Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:	
		Item to Check/Service			
			WARNING		
	High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.				
		GENERATOR SET-concluded			
31	Before	GROUND ROD CABLE AND CONNECTIONS	Inspect ground rod and cable for loose connections, breaks, damage, and corrosion.	Cable is missing or damaged.	
32	Before	INPUT LOAD AND PARALLELING CABLES	Ensure cables are properly installed. Inspect for damage and cutting.	Cables are improperly installed, or damaged.	
33	Before	OUTPUT CONNECTORS	Inspect output connectors for missing hardware or damage.	Output connectors are missing hardware or damaged.	

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
		TRAILER		
34	During	TRAILER OPERATION	a. Be alert for unusual noises when towing the trailer. Stop and investigate such noises.	
			b. Ensure that the trailer is tracking/following correctly behind towing vehicle with no side pull.	Brakes locked up.
35	During	SWITCH BOX ASSEMBLY	Check indicator lights. Ensure indicator lights are operating properly.	
36	During	HOUSING	a. Check doors, hinges, and latches for damage, and loose or corroded items.	Cannot secure door.
			b. Inspect air intake and exhaust grills for debris.	Grills plugged; air flow cut off.

WARNING

Operating the generator set exposes personnel to a high noise level. Hearing protection must be worn when operating or working near the generator set when the generator set is running. Failure to comply with this warning can cause hearing damage to personnel.

WARNING

Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Top housing panels and exhaust system can get very hot. When performing DURING PMCS, wear gloves and additional protective clothing as required. Failure to comply with this warning can cause severe burns and injury to personnel.

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:	
140.	interval	Item to Check/Service	_	Capable II.	
	CC		WARNING performing DURING PMCS checks ir ith moving or hot engine parts. Failury or death to personnel.		
		GENERATOR SET			
37	During	ENGINE ASSEMBLY	Check for loose, damaged, or missing parts.		
38	During	FUEL SYSTEM	Inspect for leaks.	Any fuel leaks.	
39	During	LUBRICATION SYSTEM	a. Inspect for leaks.b. Check oil level on dipstick, both sides.	Class III leaks. Oil level below ADD level.	
40	During	COOLING FAN	Listen for unusual noise in fan area.		
41	During	GROUND ROD CABLE AND CONNECTIONS	Inspect ground rod and cable for loose connections, breaks, damage, and corrosion.	Cable is missing or damaged.	
	WARNING High voltage is produced when the generator set is in operation. DO NOT touch live voltage connections. Never attempt to connect or disconnect load cables or paralleling cables while the generator set is running. Failure to comply with this warning can cause injury or death to personnel.				
42	During	CONTROLS AND INDICATORS	Observe the following indicators and ensure they are functioning: • Coolant temp, 170-200°F (77-93° C) • Oil pressure, 25-60 psi (172-414 kPA)		

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:			
		Item to Check/Service		254 200 2			
	Top housing panels and exhaust system can get very hot. Shut down generator set, and allow system to cool before performing checks, services and maintenance. Failure to comply with this warning can cause severe burns and injury to personnel.						
		GENERATOR SET -continued					
43	After	HOUSING	Check doors, panels, hinges, and latches for damage, and loose or corroded items.	Cannot secure doors.			
			b. Inspect air intake and exhaust grills for debris.	Intake and exhaust grills plugged.			
44	After	IDENTIFICATION PLATES	Check to be sure identification plates are secure.				
45	After	SKID BASE	Inspect skid base for cracks and corrosion.	Skid base cracked or shows signs of structural damage.			
			WARNING				
	Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.						
	WARNING						
	. Skin and eye oid repeated or wash exposed uel. Failure to						

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item	Interval	Location	Procedure	Not Fully Mission			
No.		Itama ta Ohaali/Oamiaa		Capable if:			
		Item to Check/Service					
46	After	ENGINE ASSEMBLY	Check for loose, damaged, or missing hardware.				
47	After	FUEL SYSTEM	Inspect fuel system for leaks, and damaged, loose, or missing hardware.	Any fuel leaks, or damaged, loose, or missing parts.			
48	After	FUEL FILTER/WATER SEPARATOR	 a. Inspect fuel filter/water separator for leaks, cracks, damage, proper mounting, or missing parts. 	Any fuel leaks.			
			b. Drain water from fuel filter/water separator.				
49	After	LUBRICATION SYSTEM	Inspect lubrication system for leaks, and damaged, loose, or missing parts.	Class III leaks, damaged, loose, or missing parts.			
			b. Check oil level.	Oil level is below ADD level.			
			c. Check engine oil for contamination.	Engine oil shows contamination.			
		COOLING SYSTEM					
			WARNING				
			WARRING				
			gh temperature and pressure.				
			can result in burns and scale				
	generator set, and allow system to cool before performing checks, services and maintenance, or wear gloves and additional protective clothing and goggles as						
	required. Failure to comply with this warning can cause injury or death to personnel.						
	personner.						
	ı		1	i			
50	After	RADIATOR	Check radiator for leaks, damage, or missing parts.	Class III leaks. Radiator cap missing.			
51	After	HOSES	Check hoses for leaks or cracks.	Class III leaks.			

Table 2-2. Operator Preventive Maintenance Checks and Services *(continued).* (PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A)

Item No.	Interval	Location	Procedure	Not Fully Mission Capable if:
		Item to Check/Service		
52	After	FAN BELT	Inspect belt for cracks, fraying, or looseness.	Broken belt.
53	After	OVERFLOW BOTTLE	Check overflow bottle for leaks or missing parts. Check coolant level.	Class III leaks. Coolant level is below COLD line.
		CONTROL BOX ASSEMBLY		
54	After	CONTROLS AND INDICATORS		Indicators or controls damaged or missing.

Section III. OPERATION UNDER USUAL CONDITIONS

- 2-3 ASSEMBLY AND PREPARATION FOR USE
- 2-3.1 Assembly of the Equipment. Assembly must be performed by unit level maintenance personnel.
- 2-3.2 <u>Installation Instructions</u>.
- **2-3.2.1** Positioning Power Unit/Power Plant. Position the equipment at the worksite as follows:

NOTE

There will be two units each for the Power Plants AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A. This procedure must be performed on each unit and trailer. The two units for each power plant must be positioned to allow the interconnection of the supplied cables.

- a. Select an area as level as possible to install equipment.
- b. When configuring the power plant, locate the two power units side by side as shown in figure 2-3.1.
- c. Set the trailer handbrakes and lower trailer support devices as shown in figure 2-3.2. Refer to TM 9-2330-205-14&P for detailed installation of the 2 ½ ton trailer. Perform the following for the 1 ton and Light Tactical Trailers:
- d. Pull out spring-loaded plunger on 1 ton trailer or pin on Light Tactical Trailer. Push support leg down.
- **2-3.3** Grounding of Power Unit/Power Plant (Trailer). Ground the equipment in accordance with Army Technical Bulletin TB 43-0125. Typical ground rod installations are shown in figure 2-4. If a ground rod is used, install and connect it as follows:

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

NOTE

A power plant consists of two power units. One ground rod must be installed for each power unit.

a. Remove ground rods, grounding straps, and slide hammer (figure 2-5) from accessory box. Perform assembly steps (1) through (4).

WARNING

Impact disk must be tightened to end of threads on rod. Also, lock washer and nut must be tightened firmly against impact disk. Failure to comply with this warning can cause injury to personnel, and damage to the equipment.

NOTE

The terminal lug supplied with the ground rods is too small. Use additional ground straps provided with power units.

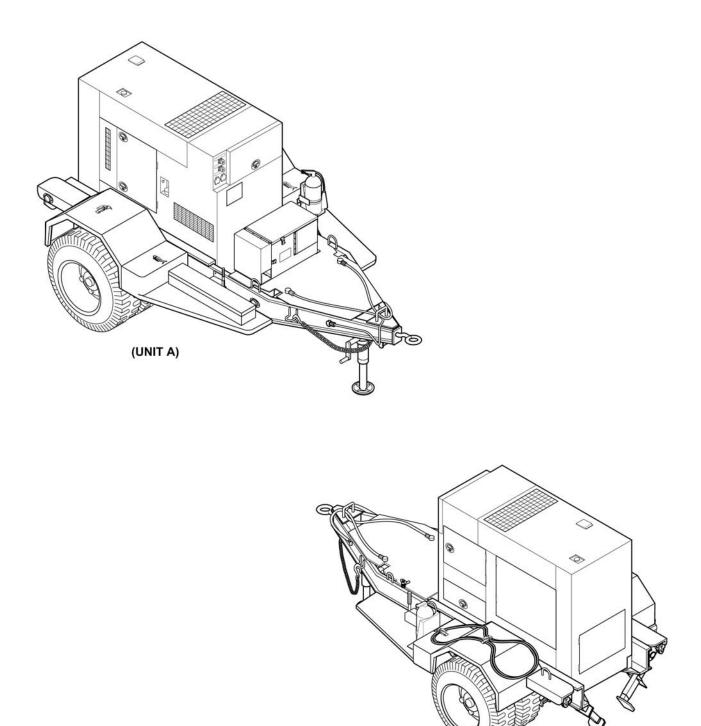
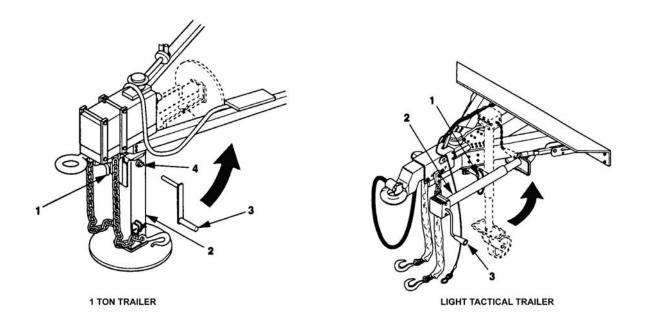


Figure 2-3.1 Power Plant Unit A and Unit B Installation.

(UNIT B)



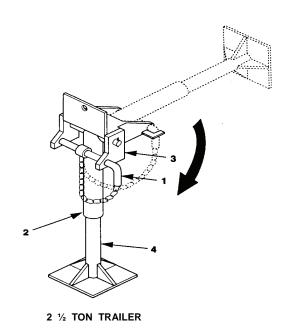


Figure 2-3.2. Lowering Trailer Front and Rear Leveling Support Legs.

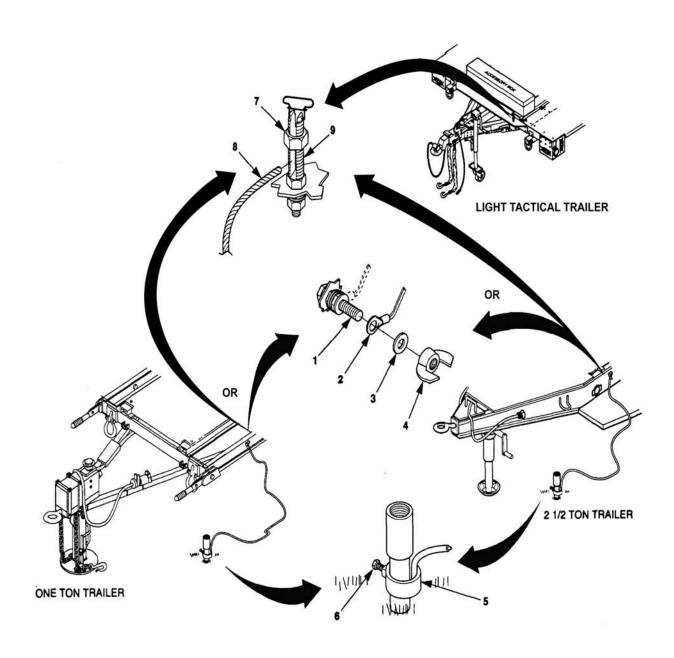


Figure 2-4. Typical Ground Rod Installations.

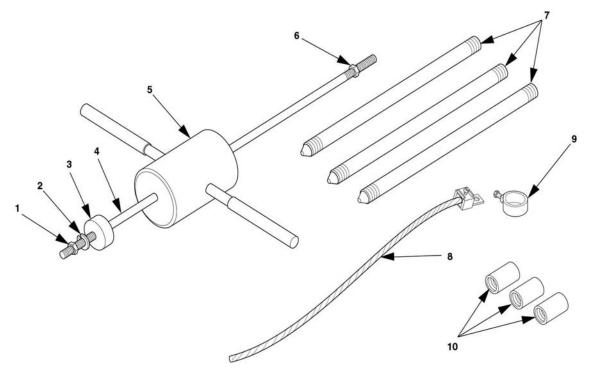


Figure 2-5. Ground Rod, Grounding Strap, and Slide Hammer.

- (1) Install impact disk (3, figure 2-5) on rod (4). Tighten impact disk (3) to end of threads on rod (4).
- (2) Install lockwasher (2) and nut (1). Tighten nut (1) and lockwasher (2) securely against impact disk (3).
- (3) Remove nut (6) before positioning slide hammer.
- (4) Position slide hammer (5) on rod (4). Install nut (6) and tighten to end of threads on rod (4).
- b. Connect one ground rod coupler (10) to one section of ground rod (7) and screw slide hammer into coupler (10). Make sure that slide hammer rod (4) seats on ground rod (7).
- c. Drive ground rod into ground until coupler (10) is just above surface.
- d. Remove slide hammer assembly and install another section of ground rod (7).
- e. Install another coupler (10) and then the slide hammer assembly. Drive ground rod (7) down until new coupler (10) is just above ground surface.
- f. Repeat steps d and e until ground rod (7) has been driven eight feet or deeper, providing an effective ground.
- g. Connect clamp (9) and ground cable (8) to ground rod (7). Tighten clamp screw.
- h. Connect ground cable (8) as follows.

NOTE

There are two possible configurations for the ground terminal on the one ton and 2 $\frac{1}{2}$ ton trailers, a load terminal or a stud with associated hardware. The Light Tactical Trailer uses the load terminal only.

- (1) If a trailer having the load terminal is being used, perform steps (5) through (7). Otherwise perform steps (2) through (4) and step (7).
- (2) Remove and retain wing nut (4, figure 2-6) and washers (3) from trailer ground stud (1) and install ground terminal (2) to ground stud (1).
- (3) Install washers (3) on ground stud (1).
- (4) Install wing nut (4) on ground stud (1) and tighten.
- (5) Loosen nut (7) on trailer ground terminal (9).

NOTE

Ground terminal will have two cables in slot after the following step is performed.

- (6) Insert ground cable (8) through slot of ground terminal (9) making sure that the ground wire from the generator remains in the slot.
- (7) Insert ground cable end into ground cable clamp (5) and tighten screw (6).
- i. Disassemble slide hammer (5, figure 2-5) as follows:
 - (1) Remove nut (6) from end of rod (4) and retain.
 - (2) Remove slide hammer (5) from rod (4) and thread nut (6) on end of rod to prevent loss.
 - (3) Store slide hammer (5) and rod (4) with assembled parts in accessory box.

2-3.4 Connecting Load and/or Paralleling Cables.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

A qualified technician must make the power connections and perform all continuity checks. The power source may be a generator or commercial power. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. DO NOT touch live voltage connections. Never attempt to connect or disconnect load cables or paralleling cables while the generator set is running. Failure to comply with this warning can cause injury or death to personnel.

NOTE

Before connecting the load, determine voltage and frequency requirements of the system or device that is being supplied with power. Refer to TM 9-6115-643-10. Verify that voltage reconnection board is in proper position for voltage requirements and the frequency select switch is in the proper position. If board requires repositioning notify next-higher level of maintenance.

- **2-3.4.1 Power Unit**. Refer to TM 9-6115-643-10 for installation of load cables.
- **2-3.4.2** Power Plant. Refer to figure 2-6 for installation of power cables and load cables. Load may be connected to the switch box (figure 2-6) by either of two methods. One method is to connect the load cable to the J1 connector (6, figure 2-6). The other method is to connect load cables to the load terminals (1, 2, 3, 4, and 5, figure 2-6). Connect Unit A to Unit B as follows:

NOTE

A paralleling cable is furnished with each generator set. Cables are located in a storage box inside battery access doors.

- a. Connect paralleling cables as follows:
 - (1) Connect one end of cable (13) to connector J3 (15) of the switch box located on Unit A.
 - (2) Route the other end of cable (13) through power cable sock (10) and connect to connector J16 (8) on Unit B generator set.
 - (3) Connect the other paralleling cable (11) between the two paralleling receptacles (7) located on the generator set control panels.

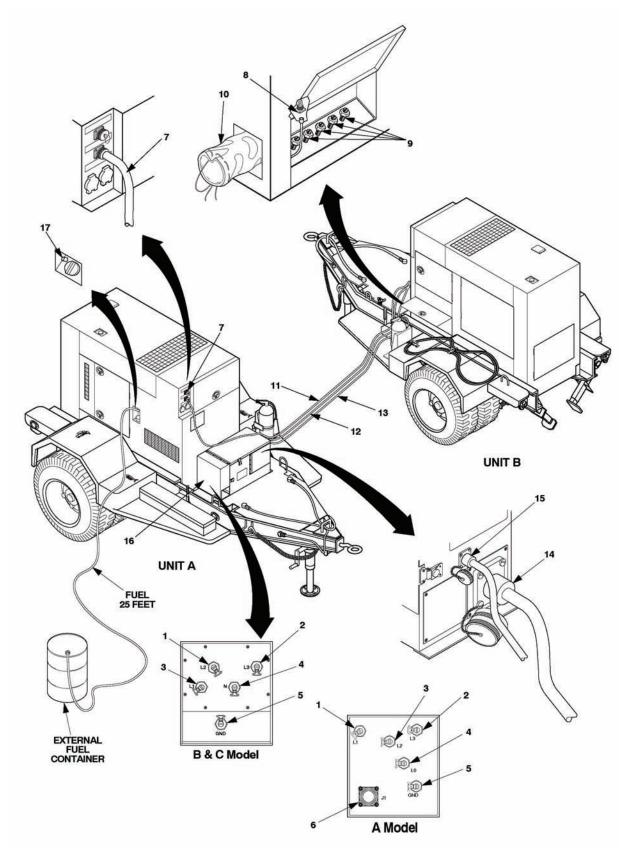


Figure 2-6. Connecting Power Plant.

- b. Remove power cable (12) from fender (Unit B) and connect as follows:
 - (1) Route the other end of cable (12) through power cable sock (10) and connect leads (Ground, L3, L2, L1, and N) to appropriate load terminals (9) on Unit B. Leads will be labeled with load terminal designations. (Two persons are required to perform this step.)
 - (2) Connect the plug end of power cable (12) to connector J2 (14) of the switch box (16) located on Unit A.
- **2-3.5** External Fuel Source. Each generator set has provisions for obtaining fuel from an external source, such as a 55-gallon diesel fuel container. This enables operation for long intervals without frequent refilling of the fuel tanks. To use an external fuel source:

WARNING

Do not disconnect trailer from towing vehicle before hand brakes are set and front landing leg and rear support leg lowered. Failure to comply with this warning can cause injury or death to personnel from trailer tipping or rolling, and damage to the equipment.

WARNING

Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Diesel fuel is flammable and toxic to eyes, skin, and respiratory tract. Skin and eye protection are required when working in contact with diesel fuel. Avoid repeated or prolonged contact. Provide adequate ventilation. Operators are to wash exposed skin and change chemical soaked clothing promptly if exposed to fuel. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Fuels used in the generator set are flammable. When filling the fuel tank, maintain metal-to-metal contact between filler nozzle and fuel tank opening to eliminate static electrical discharge. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Hot engine surfaces from the engine and generator circuitry are possible sources of ignition. When hot refueling with DF-1, DF-2, JP5 or JP8, avoid fuel splash and fuel spill. Do not smoke or use open flame when performing refueling. Remember PMCS is still required. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

- a. Place external fuel source away, but no more than 25 feet (7.6 meters), from the equipment.
- b. Remove fuel container adapter (figure 2-7) from accessory box. The fuel container adapter consists of a strainer clamp (1, figure 2-7), adapter (2), pipe (3), and extension pipe (4). The extension pipe is not needed if the external fuel source is a 5-gallon fuel can.
- c. Make sure that the fuel container adapter components are clean.

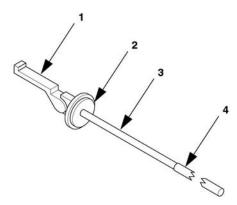


Figure 2-7. Fuel Container Adapter.

- d. Thread fuel pipe (3) into adapter (2). Thread extension pipe (4) into fuel pipe (3).
- e. Remove auxiliary fuel hose from behind battery access door.
- f. Make sure that fittings on auxiliary fuel hose are clean.
- g. Thread one end of auxiliary fuel hose into fuel container adapter fitting and tighten.
- h. Connect free end of auxiliary fuel hose to generator set external fuel supply connection and tighten. Connection is located on generator set, near fuel tank filler cap (17, figure 2-6).
- i. Insert fuel container adapter into external fuel source. Secure fuel container adapter by pressing down on strainer clamp (1, figure 2-7).

2-4 INITIAL ADJUSTMENTS, CHECKS, AND SELF TEST

Refer to TM 9-6115-643-10 for initial adjustments, checks, and self test.

2-5 OPERATING PROCEDURES

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Exhaust discharge contains deadly gases including carbon monoxide. DO NOT operate generator set in enclosed areas unless exhaust discharge is properly vented outside. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Hot exhaust gases can ignite flammable materials. Allow room for safe discharge of hot gases and sparks. Failure to comply with this warning can cause injury or death to personnel.

- **2-5.1 Generator Set Operating Procedures**. Refer to TM 9-6115-643-10 for generator set operating procedures.
- **2-5.2** <u>Trailer Operating Procedures</u>. Refer to TM 9-2330-202-14&P for 1 ton trailer, TM 9-2330-205-14&P for 2 ½ ton trailer, and TM 9-2330-392-14&P for LTT operating procedures.
- **2-5.3** Power Plant Switch Box Operating Procedures. The power plant can be operated either in a single generator set configuration or parallel operation of the generator sets. The following paragraphs provide operating procedures for a single generator or two generator sets in parallel.
- 2-5.3.1 Operating a Single Generator Set from a Power Plant.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply can cause injury or death to personnel.

NOTE

Before operating generator sets, all connections must be made to the switch box assembly.

- a. Perform the Preventive Maintenance Checks and Services (PMCS) listed as "Before" in table 2-2.
- b. Release the clamping catch (8, figure 2-8) and open the control panel access cover (7).
- c. To start the generator set, rotate the MASTER switch (17) to START position, until oil pressure reaches 25 psi and voltage reaches the appropriate required value.
- d. Release MASTER switch (17) to PRIME & RUN position.

- e. If external fuel system is being used, place MASTER switch (17) to PRIME & RUN AUX fuel position.
- f. Readjust VOLTAGE potentiometer (11) to required voltage.
- g. Readjust FREQUENCY potentiometer (15) to required frequency.
- h. Place AC CIRCUIT INTERRUPTER switch (13) in the closed position.
- i. Check switch box (18) to make sure Status light (1 or 4) is lit for the generator set just started.
- j. At the switch box (18), set the ON/OFF switch (3 or 6) to the ON position (ON LINE light should light). Generator is now supplying power to the load.
- k. Perform the PMCS listed as "DURING" in table 2-2.
- I. On the Power Plant switch box (18), place the ON LINE switch (3 or 6) for the operating generator set in the OFF position.
- m. To shut down generator set, place AC CIRCUIT INTERRUPTER switch (13) in the OPEN position.

NOTE

Before shutting generator set off, allow it to operate five minutes with no load applied.

- n. On the generator control panel rotate the MASTER switch (17) to the OFF position.
- **2-5.3.2** Operating Generator Sets in Parallel. These generator sets can be operated in parallel through all models of the switch box (A, B, and C). When paralleling at the switch box, perform the following procedures:

WARNING

Prior to making any connections for parallel operation, ensure that there is no input to the load and that the generator sets are shut down. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply can cause injury or death to personnel.

NOTE

- "Set 1" is the generator set that is first started and/or running. "Set 2" is the generator that will be paralleled with "Set 1" or the generator to which the load will be transferred to.
- a. Ensure that load requirement is equal to or below the combined rated capacity of the two generator sets.

b. Perform the Preventive Maintenance Checks and Services (PMCS) listed as "BEFORE" in table 2-2.

CAUTION

Do not close the AC CIRCUIT INTERRUPTER switch (13) on either of the generator sets or close the load contactor at load until specifically directed to do so. Closing any of these devices at any other time may severely damage one or both of the generator sets.

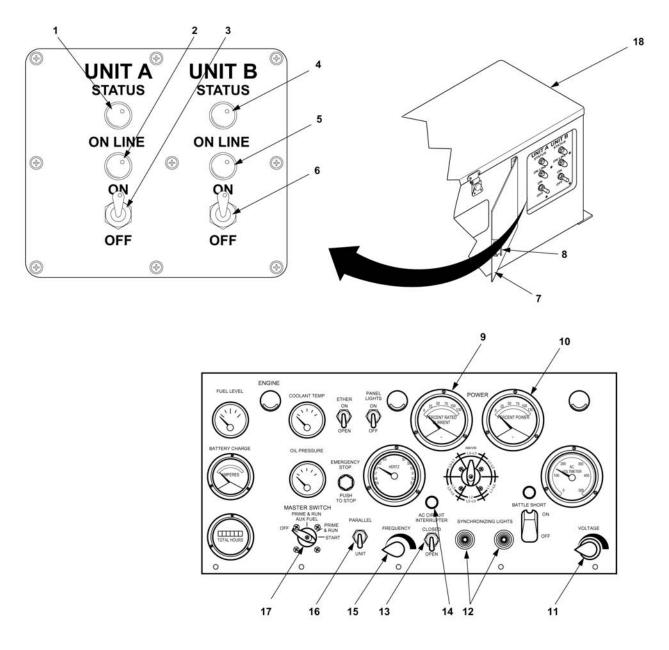


Figure 2-8. Power Plant Operation.

- c. Refer to paragraph 2-5.3.1 (steps c through j) to start a generator set and bring it on line. If generator set is already operating and supplying power, skip this step.
- d. On operating generator set (generator Set 1) position UNIT-PARALLEL switch (16, figure 2-8) to PARALLEL position.
- e. Refer to paragraph 2-5.3.1 (steps c through g) to start generator Set 2. Adjust voltage and frequency to match generator Set 1.
- f. At switch box (18), set generator Set 2 ON-OFF switch (3 or 6) to ON (switch box STATUS & ON-LINE lights for both generators should be lit).

CAUTION

Check to see the load contactor at load is open before attempting to place generator on line. Failure to observe this caution can result in damage to the generator sets.

- g. At generator Set 2 control panel:
 - (1) Set UNIT-PARALLEL switch (16) to PARALLEL. Both SYNCHRONIZING LIGHTS (12) should be alternating on and off together.

CAUTION

If SYNCHRONIZING LIGHTS on generator Set 2 do not go bright and dark in unison, the phasing is wrong. Shut down generator sets and check that load cables are connected properly. Failure to observe this caution can result in damage to generator sets.

- (2) Increase frequency until SYNCHRONIZING LIGHTS (12) blink together one or more times per second. The light may blink slower at some point before increasing.
- (3) Decrease frequency until SYNCHRONIZING LIGHTS (12) blink together once every 3-4 seconds.
- (4) When both SYNCHRONIZING LIGHTS (12) are dark, position and hold AC CIRCUIT INTER-RUPTER switch (13) of generator Set 2 in the CLOSED position until indicator light (14) goes out. SYNCHRONIZING LIGHTS (12) should go out (both generators are now operating in parallel with no load).
- h. Rotate FREQUENCY adjust potentiometer (15) of generator Set 2 until AC AMPERES meter (9) is approximately "0."
- i. Rotate VOLTAGE adjust potentiometer (11) of generator Set 1 until AC AMPERES meter (9) is approximately "0."
- Perform the PMCS listed as "DURING" in table 2-2.

2-5.3.3 Removal from Parallel Operation (Load Transfer).

WARNING

If it is necessary to move a generator set which has been operating in parallel with another generator set, shut down remaining generator set connected to the load, prior to removing load and ground cables. Failure to comply with this warning can cause injury or death to personnel.

CAUTION

Prior to removal of generator set from parallel operation, make sure load does not exceed full load rating of generator set remaining on line. Failure to observe this caution can result in damage to generator set.

- a. At the switch box (18, figure 2-8) for the set being taken off line, turn switch (3 or 6) to the off position.
- b. Set UNIT-PARALLEL switch (16) to UNIT on the remaining operating set.
- c. At the control panel of the generator set to be taken off line, position AC CIRCUIT INTERRUPTER switch (13) to the OPEN position until indicator (14) goes out. At switch box (18), STATUS and ON LINE lights for the generator shut down should be off.
- d. On the set being shut down, rotate MASTER switch (17) to OFF position.
- e. At the control panel of the shut down generator set, place the UNIT-PARALLEL switch (16) to UNIT.
- f. Perform the PMCS listed as "AFTER" in table 2-2 for the generator set that was shut down.
- g. Repeat steps a through f for generator Set 1, if it is being shut down also.

2-6 IDENTIFICATION AND INFORMATION PLATES

2-6.1 <u>PU-800 Identification/Transportation Data Plate</u>. Refer to figure 2-9. This plate is located on the trailer body.

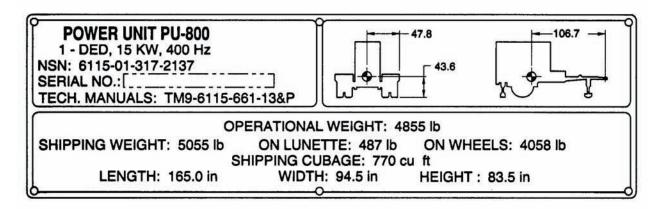


Figure 2-9. PU-800 Identification/Transportation Data Plate.

2-6.2 <u>PU-801 Identification/Transportation Data Plate</u>. Refer to figure 2-10. This plate is located on the trailer body.

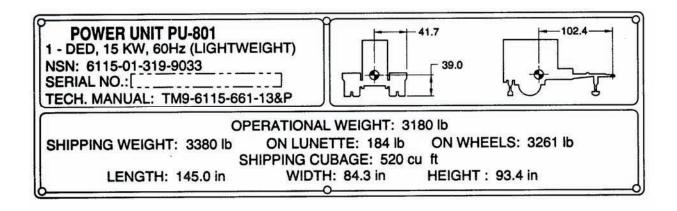


Figure 2-10. PU-801 Identification/Transportation Data Plate.

2-6.3 PU-801A Shipping Data/Identification Plate. Refer to figure 2-11.1. This plate is located on the front of curbside fender.

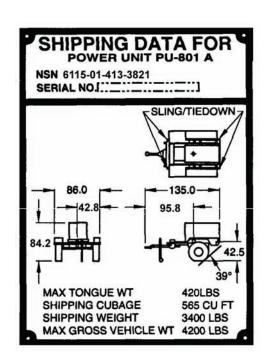


Figure 2-11.1. PU-801A Shipping Data/Identification Plate.

2-6.4 PU-801A Trailer Chassis Identification Plate. Refer to figure 2-11.2. This plate is located on curbside tow bar.

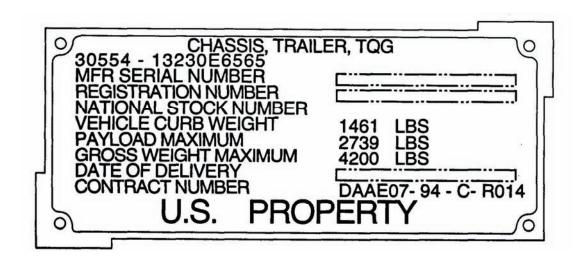


Figure 2-11.2. PU-801A Trailer Chassis Data Plate.

2-6.5 PU-802 Identification/Transportation Data Plate. Refer to figure 2-12. This plate is located on the trailer body.

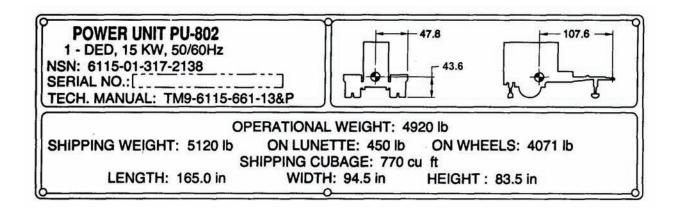


Figure 2-12. PU-802 Identification/Transportation Data Plate.

2-6.6 AN/MJQ-39 Unit A Identification/Transportation Data Plate. Refer to figure 2-13. This plate is located on the trailer body.

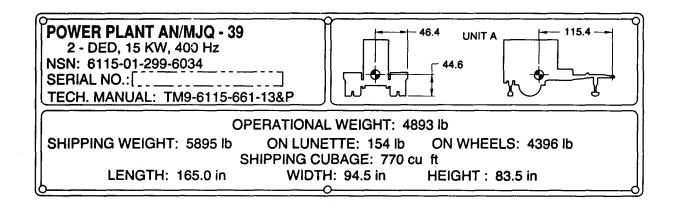


Figure 2-13. AN/MJQ-39 Unit A Identification/Transportation Data Plate.

2-6.7 AN/MJQ-39 Unit B Identification/Transportation Data Plate. Refer to figure 2-14. This plate is located on the trailer body.

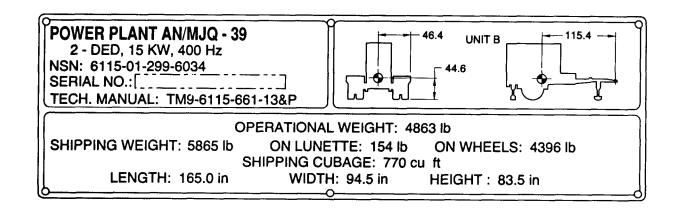


Figure 2-14. AN/MJQ-39 Unit B Identification/Transportation Data Plate.

2-6.8 AN/MJQ-48 Unit A Identification/Transportation Data Plate. Refer to figure 2-15. This plate is located on the trailer body.

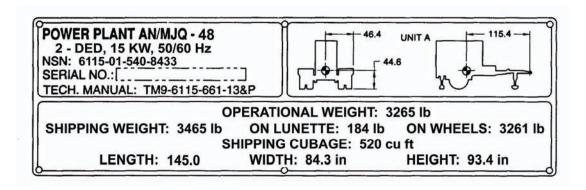


Figure 2-15. AN/MJQ-48 Unit A Identification/Transportation Data Plate.

2-6.9 AN/MJQ-48 Unit B Identification/Transportation Data Plate. Refer to figure 2-16. This plate is located on the trailer body.

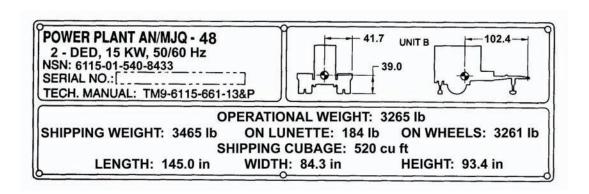


Figure 2-16. AN/MJQ-48 Unit B Identification/Transportation Data Plate.

2-6.10 <u>AN/MJQ-48A Unit A Identification/Transportation Data Plate</u>. Refer to figure 2-17. This plate is located on the trailer body.

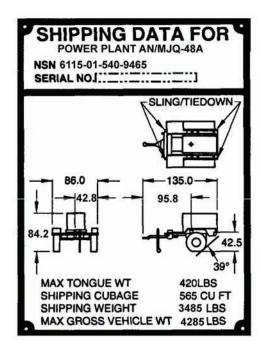


Figure 2-17. AN/MJQ-48A Unit A Identification/Transportation Data Plate.

2-6.11 AN/MJQ-48A Unit B Identification/Transportation Data Plate. Refer to figure 2-18. This plate is located on the trailer body.

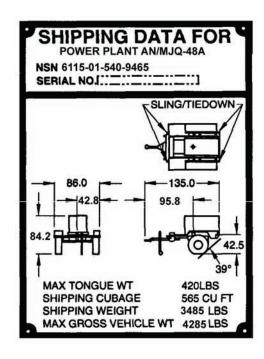


Figure 2-18. AN/MJQ-48A Unit B Identification/Transportation Data Plate.

2.6.12 Power Plant Instruction Plates. Refer to figure 2-19. These plates cover power plant operating procedures for the AN/MJQ-39, AN/MJQ-48 and AN/.MJQ-48A power plants. The operating procedures plate is located outside the right side panel of the switch box. The load transfer procedures plate is on the inside cover of the switch box.

POWER PLANT OPERATING PROCEDURES

BEFORE OPERATION

 CHECK/SERVICE BOTH GEN SETS BEFORE OPERATION. CONNECT "GND" TERMINAL TO GROUND. CONNECT CONTACTOR POWER CABLE.

INDICATOR LIGHTS

- 1. STATUS LIGHT, INDICATES LINE BETWEEN GEN AND SW BOX IS HOT.
- 2. ON LINE LIGHT, INDICATES SWITCH BOX CONTACTOR IS CLOSED FOR INDICATED GEN.

OPERATING PROCEDURES

- 1. START EITHER GEN. ADJUST VOLTAGE AND FREQUENCY.
- 2. PUT GEN "CKT INTRPT SWITCH" IN "CLOSED" POSITION. (SWITCH BOX "STATUS" LIGHT SHOULD LIGHT.)
- 3. AT SWITCH BOX, SET "ON-OFF" SWITCH TO "ON". ("ON LINE" LIGHT SHOULD LIGHT.)

LOAD TRANSFER PROCEDURES (SETS CONNECTED FOR PARALLEL OPERATION PER TM)

- 1. ON "OPERATING" GEN, (GEN NO. 1) SET "UNIT-PARALLEL" SWITCH TO "PARALLEL".
- 2. START GEN NO. 2. ADJUST VOLTAGE AND FREQUENCY TO MATCH GEN NO. 1.
- 3. AT SW BOX, SET GEN NO. 2 "ON-OFF" SWITCH TO "ON". ("ON LINE " AND "STATUS" LIGHTS SHOULD LIGHT.)
- 4. AT GEN NO. 2, SET "UNIT-PARALLEL" SWITCH TO "PARALLEL". BOTH "SYNCHRONIZING" LIGHTS SHOULD BE GOING BRIGHT TO DARK TOGETHER.
- 5. INCREASE FREQUENCY UNTIL "SYNCHRONIZING" LIGHTS BLINK TOGETHER ONE OR MORE TIMES PER SECOND.
- 6. DECREASE FREQUENCY UNTIL LIGHTS BLINK TOGETHER ONCE EVERY 3-4 SECONDS.
- 7. WHEN LIGHTS ARE DARK, SET GEN NO. 2 "CKT INTRPT SWITCH" TO "CLOSE". GEN CONTACTOR LIGHT SHOULD LIGHT AND "SYNCHRONIZING" LIGHTS SHOULD GO OUT.
- 8. AT GEN NO. 1, SET "CKT INTRPT SWITCH" TO "OPEN", SET " UNIT-PARALLEL" SWITCH TO "UNIT". TURN "MASTER" SWITCH TO "STOP". (AT SWITCH BOX, "ON LINE" AND "STATUS" LIGHTS FOR GEN NO. 1 SHOULD GO OFF.)
- 9. AT GEN NO. 2, SET "UNIT-PARALLEL" SWITCH TO "UNIT".

Figure 2-19. Power Plant Instruction Plates.

2-7 PREPARATION FOR MOVEMENT

- 2-7.1 Shut Down Generator Set. Refer to paragraph 2-5.3.3 (steps a-g) and shut down both generator sets.
- 2-7.2 Disconnecting Load and/or Paralleling Cables.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. DO NOT touch live voltage connections. Never attempt to connect or disconnect load cables or paralleling cables while the generator set is running. Failure to comply with this warning can cause injury or death to personnel.

NOTE

Before connecting the load, determine voltage and frequency requirements of the system or device that is being supplied with power. Refer to TM 9-6115-643-10. Verify that voltage reconnection board is in proper position for voltage requirements and the frequency select switch is in the proper position. If board requires repositioning notify next-higher level of maintenance.

- a. Disconnect power cable W19 (12, figure 2-20) from Unit B to the switch box.
- b. Disconnect paralleling cables (11 and 13) from generator to generator and from Unit B to the switch box.
- **2-7.2.1 Power Unit.** Refer to TM 9-6115-643-10 for removal of power cables.
- **2-7.2.2 Power Plant.** For switch box A Model, load may be disconnected from the switch box (figure 2-20) by either of two methods. One method is to disconnect the power cable from the J1 connector (6). The other method is to disconnect load cables from the load terminals (1, 2, 3, 4, and 5). Disconnect the load cable using the appropriate method. Disconnect Unit A from Unit B as follows:
 - a. Disconnect paralleling cables as follows:
 - (1) Disconnect generator set paralleling cable (11) from paralleling receptacles (7) on both generator sets. Store paralleling cable (11) with Unit B generator set.
 - (2) Disconnect the switch box end of cable (13) from J16 (8) on Unit B generator set and remove from power cable sock (10).
 - (3) Disconnect the other end of switch box cable (13) from connector J3 (15) of the switch box (16) located on Unit A. Store paralleling cable (13) with Unit A generator set.

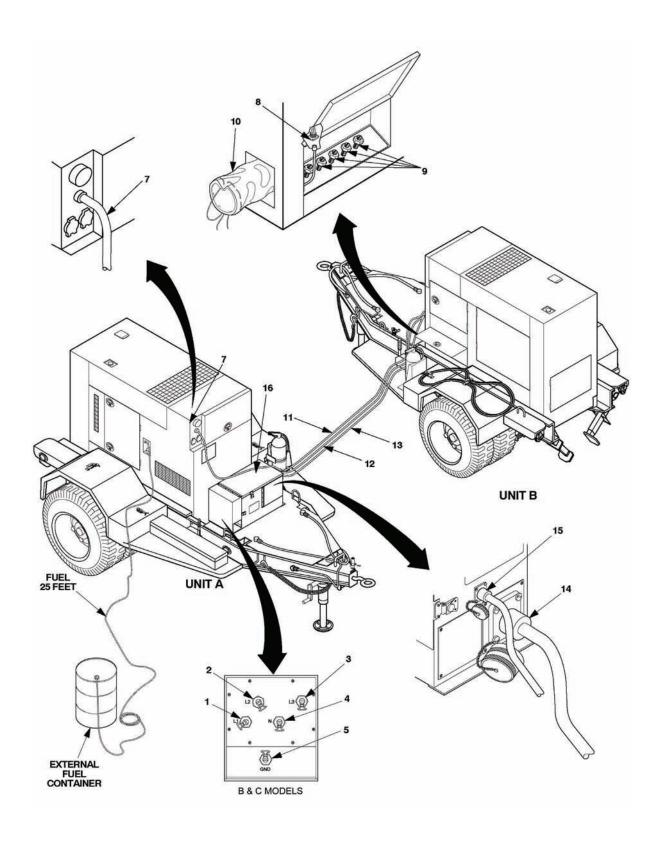


Figure 2-20. Disconnection of Power Plant (Sheet 1 of 2).

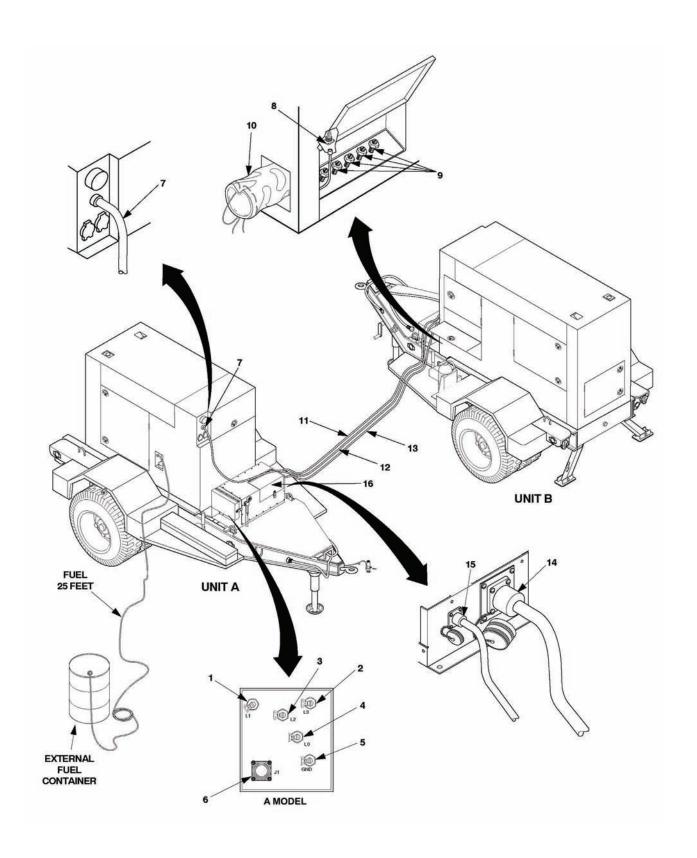


Figure 2-20. Disconnection of Power Plant (Sheet 2 of 2).

2-7.3 Removal of Ground Rod Assembly. Disconnect ground cable (11, figure 2-21) as follows:

Using slide hammer (9), remove ground rod (8) as follows:

- a. Loosen clamp screw (1) and remove ground cable (11).
- b. Loosen nut (10) from ground stud (12). Roll up ground cable (11) and store in accessory box.
- c. Tighten nut (10), loosened in step b, from ground stud (12).
- d. Remove coupler (6) and ground cable clamp (7) from ground rod section (8).
- e. Install coupler (6) on ground rod section (8).

WARNING

Impact disk must be tightened to end of threads on rod. Also, lock washer and nut must be tightened firmly against impact disk. Failure to comply with this warning can cause injury to personnel, and damage to the equipment.

- f. Refer to paragraph 2-3.3, step a, and figure 2-5. Assemble slide hammer (9, figure 2-21).
- g. Connect slide hammer end (9) to ground rod coupler (6).
- h. Using slide hammer (9), pull ground rod (8) out of the ground until the second coupler is exposed.
- i. Disconnect slide hammer (9) from top of ground rod coupler (6).
- j. Disconnect top ground rod section from second ground rod section.
- k. Repeat steps f through j for second and third ground rod sections.
- I. Remove couplers (7) from each ground rod section (8).
- m. Clean ground rod sections (8) and couplers (6).
- n. Refer to paragraph 2-3.3, step i, and disassemble slide hammer (9).

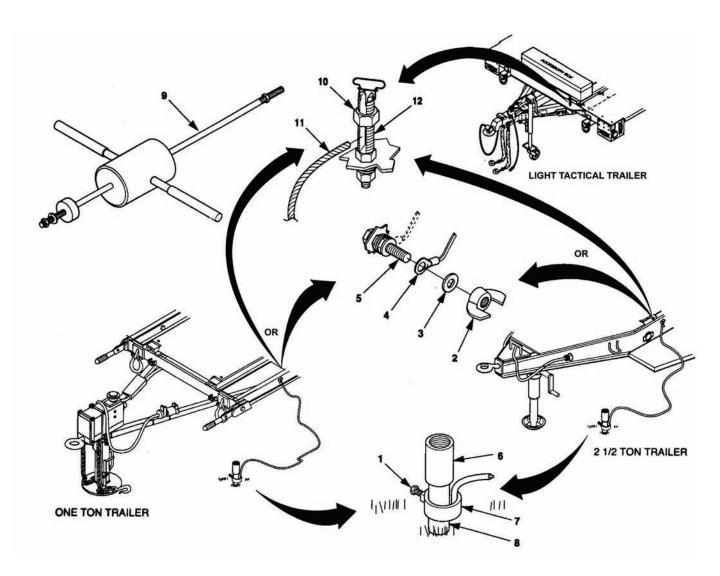


Figure 2-21. Removal of Ground Rod Assembly.

WARNING

Diesel fuel is flammable and toxic to eyes, skin, and respiratory tract. Skin and eye protection are required when working in contact with diesel fuel. Avoid repeated or prolonged contact. Provide adequate ventilation. Operators are to wash exposed skin and change chemical soaked clothing promptly if exposed to fuel. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

2-7.4 <u>Disconnect External Fuel Source</u>. Disconnect auxiliary fuel hose as follows:

- a. Disconnect the auxiliary fuel hose from the generator set external fuel supply connector. Elevate the free end of the auxiliary fuel hose to drain fuel back into the external fuel source. Place free end of auxiliary fuel hose on a clean surface.
- b. Disconnect auxiliary fuel hose from fitting on container adapter (2, figure 2-22).
- c. Store auxiliary fuel hose behind battery access door.
- d. Remove extension pipe (4), pipe (3), adapter (2), and strainer clamp (1) and store in the accessory box.

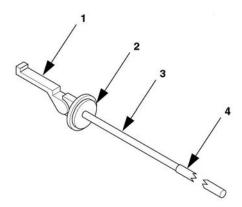


Figure 2-22. Auxiliary Fuel Source (Typical).

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-8 GENERATOR SETS

Refer to TM 9-6115-643-10.

2-9 TRAILERS

Refer to TM 9-2330-205-14&P for the 2 $\frac{1}{2}$ ton trailer, TM 9-2330-202-14&P for the 1 ton trailer, and TM 9-2330-392-14&P for the Light Tactical Trailer.

CHAPTER 3

OPERATOR MAINTENANCE

Subject	Index	age
Section	I Operator Lubrication	3-2
3-1	Lubrication	3-2
Section	II Troubleshooting Procedures	3-3
3-2	General	3-3
Section	III Maintenance Procedures	3-8
3-3 3-4 3-5	Operator Maintenance	3-8 3-9 3-10

Section I. OPERATOR LUBRICATION

3-1 LUBRICATION

Lubrication instructions for the generator set are contained in LO 9-6115-643-12. Lubrication instructions for the 1 ton trailer are contained in TM 9-2330-202-14&P; the 2 ½ ton trailer lubrication instructions are in TM 9-2330-205-14&P; and the Light Tactical Trailer instructions are in TM 9-2330-392-14&P.

Section II. TROUBLESHOOTING PROCEDURES

3-2 GENERAL

Refer to TM 9-6115-643-10 for generator set troubleshooting instructions; TM 9-2815-254-24 for engine troubleshooting instructions; and TM 9-2330-202-14&P, TM 9-2330-205-14&P and TM 9-2330-392-14&P for trailer troubleshooting instructions. The symptom index for the power plant lists faults associated with switch box operation. Figures 3-1 through 3-4 provide a go-no-go flowchart of each malfunction. Each malfunction listed includes a reference to the applicable figure that contains a chart to help you determine probable causes and corrective actions to take. The symptom index cannot list all faults that may occur, nor all the tests or inspections and corrective actions. If a malfunction is not listed or cannot be corrected by listed corrective actions, notify next higher level of maintenance for assistance.

SYMPTOM INDEX

	Troubleshooting Procedure
Unit A STATUS indicator lamp fails to light with generator set running	Figure 3-1
Unit B STATUS indicator lamp fails to light with generator set running	Figure 3-2
ON LINE indicator lamp fails to light when ON/OFF switch is placed to ON position	Figure 3-3
Cables are connected properly, but unit fails to parallel through switch box	Figure 3-4

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

NOTE

This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

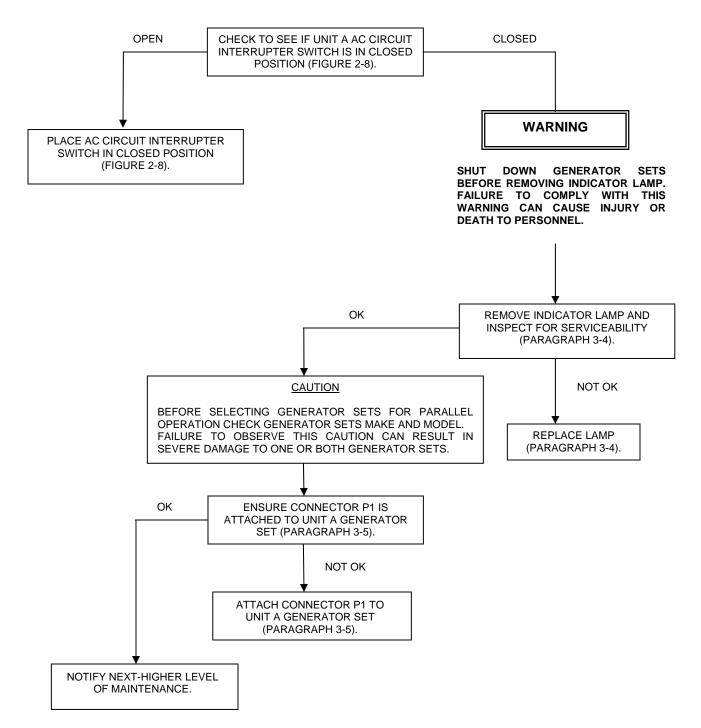


Figure 3-1. Unit A STATUS Indicator Lamp Fails to Light with Generator Set Running.

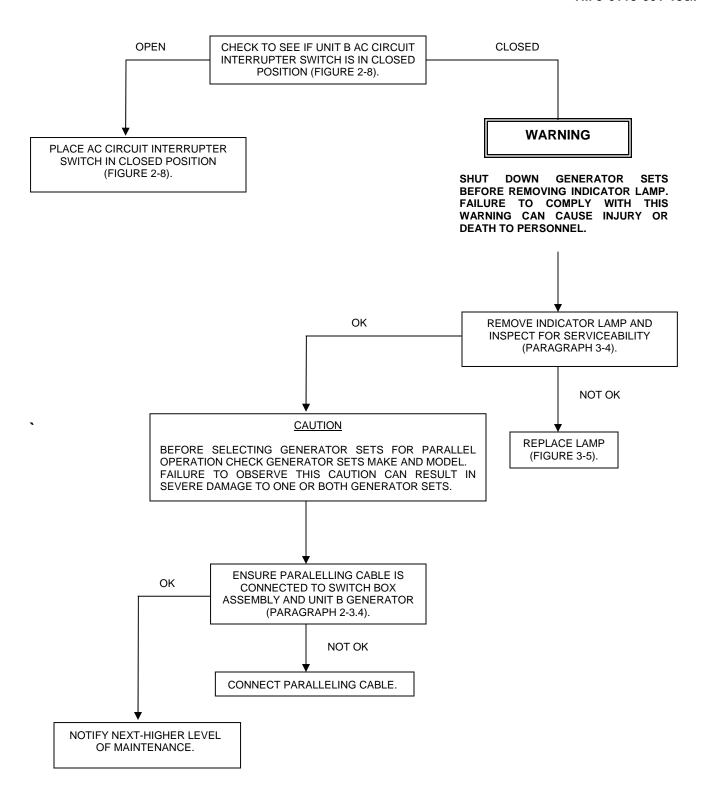
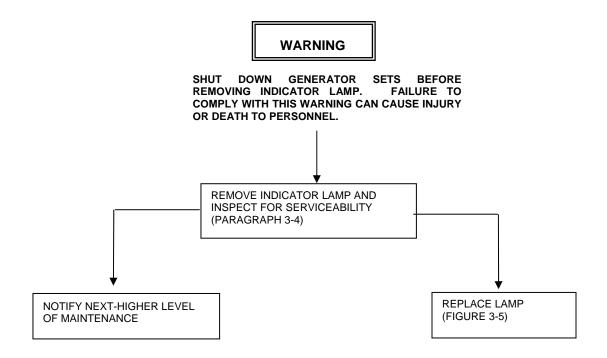


Figure 3-2. Unit B STATUS Indicator Lamp Fails to Light With Generator Set Running.



This troubleshooting chart covers all three versions of the switch boxes, A, B, & C Models.

Figure 3-3. ON LINE Indicator Lamp Fails to Light When ON/OFF Switch is Placed to ON Position.

CONNECT CABLE

WARNING HIGH VOLTAGE IS PRODUCED WHEN THE GENERATOR SET IS IN OPERATION. DO NOT TOUCH LIVE VOLTAGE CONNECTIONS. NEVER ATTEMPT TO CONNECT OR DISCONNECT LOAD CABLES OR PARALLELING CABLES WHILE THE GENERATOR SET IS RUNNING. FAILURE TO COMPLY WITH THIS WARNING CAN CAUSE INJURY OR **DEATH TO PERSONNEL.** CONNECTED CHECK INSTALLATION OF NOT CONNECTED PARALLELING CABLE FROM J3 (15, FIGURE 2-6) ON SWITCH BOX (16) TO J16 IN GENERATOR SET. CONNECT CABLE CHECK INSTALLATION OF PARALLELING NOT CONNECTED CABLE (11, FIGURE 2-6) BETWEEN PARALLELING RECEPTACLÉS LOCATED ON GENERATOR SET CONTROL PANELS. CONNECTED CONNECT CABLE CONNECTED NOT CONNECTED

This troubleshooting chart covers all three versions of the switch boxes, A, B, & C Models.

CHECK W19 POWER CABLE (12, FIGURE 2-6) BETWEEN J2 (14) ON SWITCH BOX (16) OF UNIT A TO LOAD TERMINALS (9) OF UNIT B.

NOTIFY NEXT-HIGHER

LEVEL OF MAINTENANCE

Figure 3-4. Cables are Connected Properly, But Unit Fails to Parallel Through Switch Box.

Section III. MAINTENANCE PROCEDURES

3-3 OPERATOR MAINTENANCE

Refer to TM 9-6115-643-10 for generator set maintenance instructions; refer to TM 9-2330-202-14&P, TM 9-2330-205-14&P, and TM 9-2330-392-14&P for trailer maintenance instructions. The maintenance functions for the power units/power plants are provided in paragraphs 3-4 and 3-5.

3-4 INDICATOR LAMP AND/OR LENS REPLACEMENT.

This task covers: a. Remove

b. Install

INITIAL SETUP

Equipment Conditions

Reference

Both generator sets shut down, paragraph 2-5.3.1.

Trailer support devices are lowered, paragraph 2-3.2.1.

WARNING

Shut down generator sets before removing indicator lamp. Failure to comply with this warning can cause injury or death to personnel.

REMOVE

- 1. Release clamping catch (7, figure 3-5) and open control panel access cover (3).
- 2. Grip and unscrew lens cap (1).
- 3. Remove lamp (2) by grasping the base and pulling outward.

- 1. Insert lamp (2) into lens cap (1) and push inward.
- 2. Install lens cap (1) with lamp (2) by threading lens cap (1) into housing. Tighten lens cap (1) firmly.
- 3. Close control panel access cover (3) and secure clamping catch (7).

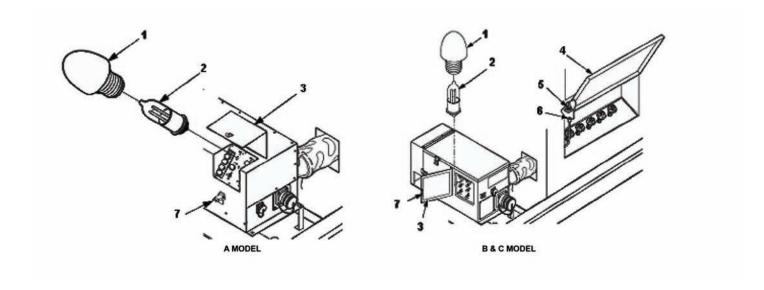


Figure 3-5. Indicator Lamps and P1 Connector Maintenance.

3-5 ATTACHING CONNECTOR P1 TO UNIT A.

This task covers: a. Install

INITIAL SETUP

Equipment Conditions

Reference

Both generator sets shut down, paragraph 2-5.3.1. Trailer support devices are lowered, paragraph 2-3.2.1.

- 1. Open access panel (4, figure 3-5) to unit A generator load terminals.
- 2. Attach connector P1 (6) to J16 (5) inside generator set.

CHAPTER 4

UNIT MAINTENANCE

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Section I. REPAIR PARTS; SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND SUPPORT EQUIPMENT

4-1 COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

4-2 SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools or support equipment are required for maintenance of the power units or power plants. Refer to TM 9-6115-643-24P for generator set special tools and/or support equipment. Refer to TM 9-2815-254-24P for engine special tools and/or support equipment.

4-3 REPAIR PARTS

Refer to TM 9-6115-643-24P for generator set parts and TM 9-2815-254-24P for engine parts. Refer to TM 9-2330-202-14&P for 1 ton trailer (M116A3) repair parts, TM 9-2330-205-14&P for 2 ½ ton trailer (M200A1) repair parts, and TM 9-2330-392-14&P for the Light Tactical Trailer repair parts. Power plant and power unit repair parts not covered in the generator, engine, or trailer RPSTL are listed and illustrated in Appendix F.

Section II. SERVICE UPON RECEIPT

4-4 SERVICE UPON RECEIPT OF MATERIEL

4-4.1 <u>Unpacking Power Unit</u>. (Refer to figure 4-1.) The power unit is wrapped in plastic prior to shipment to OCONUS units. It is secured by metal banding for shipment to CONUS units. The PU-800, PU-801, PU-801A and PU-802 are identical, with the exception of the electrical output frequency of the generator sets. Two Power Units are modified to make up a Power Plant. Therefore, the unpacking procedures and figure 4-1 are typical for each configuration. Each generator set is packed in place on its respective trailer.

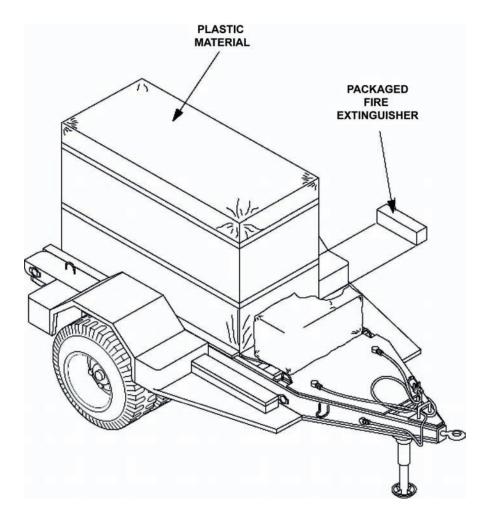


Figure 4-1. Power Unit Packed for Shipment

a. Remove and set aside packing list from side of box. Also remove and set aside shortage packing list if there is one.

Steel strapping used in packaging of the power plant/power unit has sharp edges. Wear gloves and use care when cutting and handling steel strapping. Failure to comply with this warning can cause injury to personnel.

- b. Using metal cutters, carefully cut strapping from plastic covering generator set, accessory box, and, when unpacking unit A, the switch box. Remove strapping.
- c. Remove plastic cover over generator set by lifting off the cover.
- d. Technical manuals are packaged and may be attached to barrier material. If so, remove and save technical manuals.
- e. Remove packaged fire extinguisher from within generator set enclosures. Unpack and secure fire extinguisher in bracket on trailer.
- f. Open accessory box and remove all packaging/cushioning material from accessories.
- g. Using the packing list(s) removed in step a, inventory the accessories. Check missing items against shortage packing list (if any). Report any discrepancies to your supervisor.

4-4.2 Checking Equipment.

- a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Report of Discrepancy (ROD).
- b. Check the equipment against the packing list(s) to see if the equipment is complete. Report all discrepancies in accordance with the instructions in DA Pam 738-750, Functional User's Manual for the Army Maintenance Management System (TAMMS).
- c. Check to see whether the equipment has been modified.

4-4.3 Deprocessing Equipment.

Refer to DA Form 2258, Depreservation Guide for Vehicles and Equipment, packed with the equipment. The depreservation guide explains what was done to the equipment prior to packaging. It also explains what has to be done before placing the equipment in operation. Perform all depreservation actions required by the depreservation guide.

4-5 INSTALLATION INSTRUCTIONS

4-5.1 TOOLS, TEST EQUIPMENT, AND MATERIALS REQUIRED FOR INSTALLATION.

A general mechanics tool kit is required for installation of the power unit/power plant.

4-5.2 ASSEMBLY OF EQUIPMENT.

NOTE

The following warnings apply to assembly of all model power plants and power units covered in this technical manual.

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing inspection of load cables. Failure to comply with this warning can cause injury or death to personnel.

4-5.2.1 Assembly Of Power Plants.

NOTE

There are two possible configurations for the ground terminal on the one ton and 2 $\frac{1}{2}$ ton trailers, a load terminal or a stud with associated hardware. The Light Tactical Trailer (LTT) uses the load terminal only.

Refer to figure 4-2 and assemble the AN/MJQ-39, AN/MJQ-48 or AN/MJQ-48A power plants as follows.

- a. Remove power cable provided with Unit B power unit, located on Unit B (left fender).
- b. Locate the leads and ensure they are marked L1, L2, L3, N, and GND.

NOTE

The neutral terminal may be designated "LO" instead of "N."

- c. GND (ground) should be marked as a separate lead.
- d. Open the access door panel (5, figure 4-2) to Unit B generator load terminals, then connect power cable leads as follows:
 - (1) Connect lead marked L3 to generator set load terminal L3.
 - (2) Connect lead marked L2 to generator set load terminal L2.
 - (3) Connect lead marked L1 to generator set load terminal L1.

- (4) Connect lead marked N to generator set load terminal N.
- (5) Connect lead marked GND to generator set GND terminal.
- e. For units A and B remove 60 inch ground wire (2) from accessory box and connect as follows:
 - (1) If necessary, remove one inch of insulation from both ends of ground wire (2). Loosen top nut (1) and insert bare end of ground wire into ground stud slot.
 - (2) Tighten top nut (1) until ground wire (2) is firmly secured.

Ensure nuts on ground terminals are properly secured creating a good ground. Failure to comply with this warning can cause injury or death to personnel.

- (3) Route ground wire (2) through power cable sock (3).
- (4) Connect ground wire (2) to generator set ground terminal (4).

4-5.2.2 Assembly Of Power Units.

NOTE

There are two possible configurations for the ground terminal on the one ton and 2 $\frac{1}{2}$ ton trailers, a load terminal or a stud with associated hardware. The Light Tactical Trailer (LTT) uses the load terminal only.

Refer to figure 4-2 and assemble the PU-800, PU-801, PU-801A or PU-802 as follows:

- a. Remove 60 inch ground wire (2, figure 4-2) from accessory box. If necessary, remove one inch of insulation from both ends of ground wire (2) and connect as follows.
 - (1) If a trailer having the load terminal is being used, perform steps (5) through (8). Otherwise perform steps (2), (3), (4), (7), and (8).
 - (2) Remove and retain wing nut (6), washers (7 and 9), and nut (8) from trailer ground stud (10) and install ground terminal (11) to ground stud (10).
 - (3) Install washers (7 and 9) and nut (8) on ground stud (10).
 - (4) Install wing nut (6) on ground stud (10) and tighten.
 - (5) Loosen nut (1) on trailer ground terminal.

NOTE

Ground terminal will have two cables in slot after the following step is performed.

(6) Insert ground wire (2) through slot of ground terminal.

Ensure nuts on ground terminals are properly secured creating a good ground. Failure to comply with this warning can cause injury or death to personnel.

- (7) Route ground wire (2) through power cable sock (3).
- (8) Connect ground wire (2) to generator set ground terminal (4).

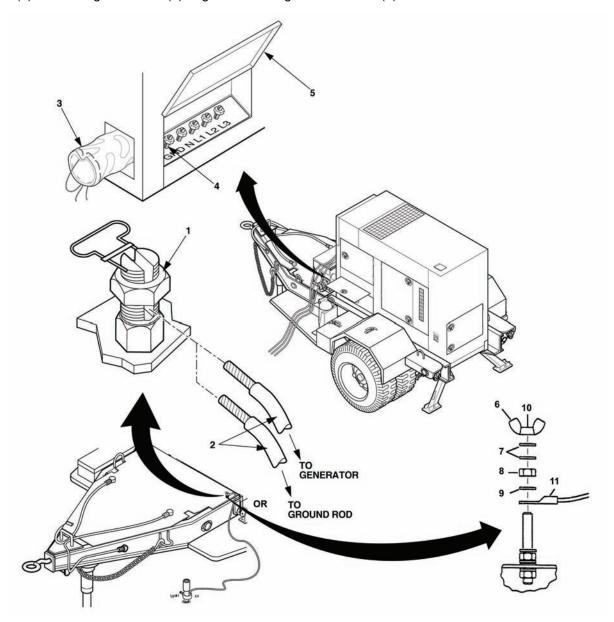


Figure 4-2. Installation Instructions

4-6 PRELIMINARY SERVICING AND ADJUSTMENT OF EQUIPMENT

Refer to TM 9-6115-643-24 for generator set and TM 9-2815-254-24 for engine. Refer to TM 9-2330-205-14&P for 2 ½ ton trailer, TM.9-2330-202-14&P for 1 ton trailer, and TM 9-2330-392-14&P for the Light Tactical Trailer.

Section III. UNIT LUBRICATION

4-7 POWER UNIT/POWER PLANT LUBRICATION

Refer to LO 9-6115-643-12, for generator set and TM 9-2330-205-14&P for 2 ½ ton trailer. For 1 ton trailer lubrication, refer to TM 9-2330-202-14&P. For Light Tactical Trailer lubrication, refer to TM 9-2330-392-14&P. The rear leveling-support jack is a modification to the standard 1 ton and Light Tactical Trailer chassis. Lubrication of this leveling-support jack is not covered in these trailer manuals. Refer to Figure 4-3 and lubricate the leveling-support jack semiannually, as follows:

WARNING

Solvent used to clean parts is potentially dangerous to personnel and property. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes. Wear goggles and rubber gloves to protect eyes and skin. Wash exposed skin thoroughly. Do not smoke or use near open flame or excessive heat. Failure to comply with this warning can cause injury to personnel and/or damage to the equipment.

- a. Clean the lubrication fitting (1) with solvent (1, Appendix E).
- b. Inject sufficient GAA grease (3, Appendix E) into lubrication fitting to lubricate screw threads (3) inside leg base (4).
- c. Apply OE lubricating oil (4, appendix E) to both ends of leg prop assembly pivot shaft (2).

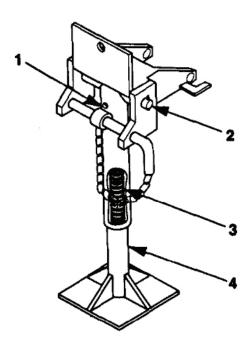


Figure 4-3. Rear Leveling-Support Jack Lubrication Points.

Section IV. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

4-8 INTRODUCTION TO UNIT PMCS TABLE

Table 4-1 (PMCS table) has been provided so you can keep your equipment in good operating condition and ready for its primary mission.

4-8.1 Warnings, Cautions, and Notes. Always observe the **WARNINGS, CAUTIONS,** and **NOTES** appearing in your PMCS table. Warnings and cautions appear before applicable procedures. You must observe **WARNINGS** to prevent serious injury to yourself and others. You must observe **CAUTIONS** to prevent your equipment from being damaged. You must observe **NOTES** to ensure procedures are performed properly.

4-8.2 Explanation of Table Entries.

- **4-8.2.1** <u>Item No. Column</u>. Numbers in this column are for reference. When completing DA Form 2404 (Equipment Inspection and Maintenance Worksheet), include the item number for the check/service indicating a fault. Item numbers also appear in the order that you must do checks and services for the intervals listed.
- **4-8.2.2** <u>Interval Column</u>. This column tells you when you must do the procedure described in the procedure column. Perform procedures such as Monthly or Quarterly at the listed calendar interval. Perform procedures designated by number of hours when the equipment has been operated for that many hours.
- 4-8.2.3 Item to be Checked or Serviced Column. This column lists the item to be checked or serviced.
- **4-8.2.4 Procedure Column.** This column gives the procedure for checking or servicing the item listed in the item to be checked or serviced column. You must perform the procedure to know if the power unit or power plant is ready or available for its intended mission or operation. You must do the procedure at the time stated in the interval column.
- **4-8.2.5 Not Fully Mission Capable if: Column.** Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If you perform checks or services that show faults listed in this column, do not operate the equipment.
- **4-8.3 Other Table Entries.** Be sure to observe all special information and notes that appear in your table.
- **4-8.4 Special Instructions.** Preventive maintenance is not limited to performing the checks and services listed in the PMCS table. Refer to figure 4-4 for PMCS routing. Covering unused receptacles, stowing unused accessories, and performing other routine procedures such as equipment inventory, cleaning components, and touch-up painting are not listed in the table. These are things you should do any time you see that they need to be done. If a routine check is listed in the PMCS table, it is because experience has shown that problems may occur with this item. Take along tools and cleaning cloths needed to perform the required checks and services. Use the information in the following paragraphs to help you identify problems at any time, and to help identify potential problems before and during checks and services.

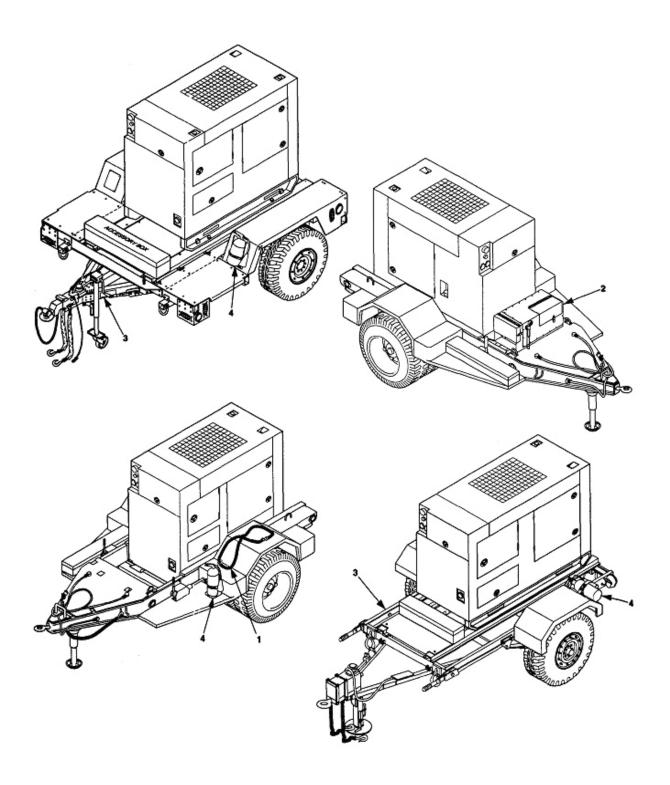


Figure 4-4. Unit PMCS Routing Diagram.

Table 4-1. Unit Preventive Maintenance Checks and Services for PU-800, PU-801, PU-801A, PU-802, AN/MJQ-39, AN/MJQ-48 and AN/MJQ-48A

This PMCS table lists the checks and services as performed on a single power unit. These procedures must be duplicated on each power unit that makes up the power plants.

Unit B of the power plants and the power units do not have a switch box. Maintenance for the switch box is only applicable to Unit A of the power plants.

Item		Item to be		Not Fully Mission		
No.	Interval	Checked or Serviced	Procedure	Capable if:		
	WARNING Before performing any maintenance that requires climbing on or under trailer, make sure that trailer handbrakes are set, trailer front landing leg/support leg is lowered, and leveling-support jack is lowered. Failure to comply with this warning can cause injury or death to personnel from					
1	Semi -annually	POWER CABLE (AN/MJQ-39/48/48A)	Inspect power cable for worn, frayed, or cracked insulation, loose terminal lugs, and loose connections. Tighten as needed.	Power cable is unserviceable.		
2	Semi -annually	SWITCH BOX ASSEMBLY (AN/MJQ-39/48/48A)	a. Inspect switch box assembly. Refer to paragraph 4-12.1, 4-12.2.	Loose, missing or broken parts; worn wire insulation.		
			b. Inspect mounting brackets for cracks or for loose or missing hardware.	Mounting bracket is cracked; loose or missing hardware.		
3	Semi -annually	MOUNTING RAILS	Inspect for cracks and deformation.	Mounting rail is cracked or deformed.		
4	Semi -annually	FIRE EXTINGUISHER	a. Inspect for broken seal and damage to handle.	Seal broken or missing.		
			b. Weigh to determine whether charge is sufficient. Weight is about 13 pounds when fully charged. If weight is 12.5 pounds or less, send to specialized activity for recharging.	Fire extinguisher not charged.		
5	Semi -annually	ACCESSORY BOX	Inspect clamping catch, hasp, and rivets for rust, corrosion, and wear.	Clamping catch and hasp are unserviceable		

Section V. TROUBLESHOOTING PROCEDURES

4-9 GENERAL

Refer to TM 9-6115-643-24 for generator set troubleshooting procedures and to TM 9-2815-254-24 for engine troubleshooting procedures. Refer to TM 9-2330-205-14&P for 2 ½ ton trailer (M200A1) troubleshooting procedures, TM 9-2330-202-14&P for 1 ton trailer (M116A3) troubleshooting procedures, and TM 9-2330-392-14&P for Light Tactical Trailer troubleshooting procedures. The symptom index for the power plant lists faults associated with switch box operation. Figure 4-4 through figure 4-8 provide an OK-NOT OK flowchart of each malfunction. Each malfunction listed includes a reference to the applicable figure that contains a chart to help you determine probable causes and corrective actions to take. The symptom index cannot list all faults that may occur, nor all the tests or inspections and corrective actions. If a malfunction is not listed or cannot be corrected by listed corrective actions, notify next-higher level of maintenance for assistance.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. SHUT DOWN generator set and make sure it is free of any power source before attempting any repair or maintenance on the generator set, switch box or cables, unless specifically directed otherwise in the troubleshooting procedures. Failure to comply with this warning can cause injury or death to personnel.

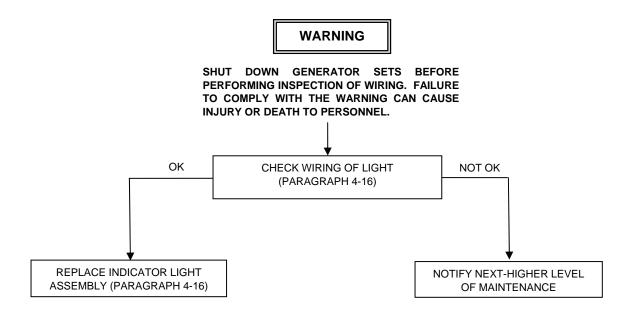
WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

SYMPTOM INDEX

Symptom	Procedure
Indicator lamp is good but does not light	Figure 4-5
Unit A has no power	
Unit B has no power	Figure 4-7
Power is absent at all switch box load terminals	
Cables are connected properly, but unit fails to parallel through switch box	Figure 4-9

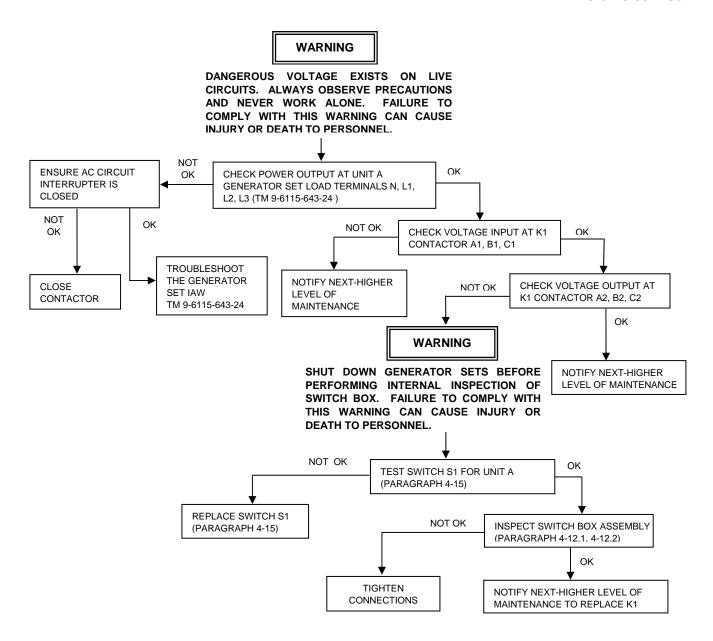
Verify the problem is resolved after performing each corrective action.



NOTE

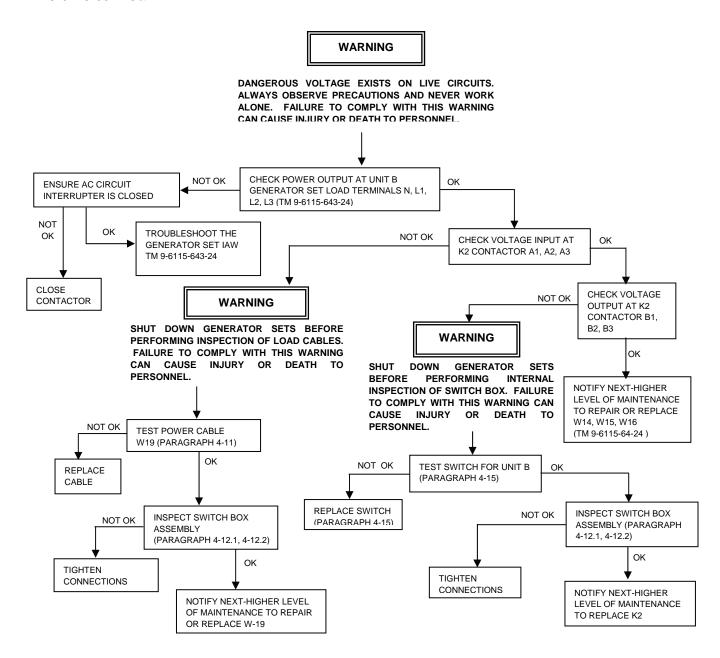
This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

Figure 4-5. Indicator Lamp Is Good But Does Not Light



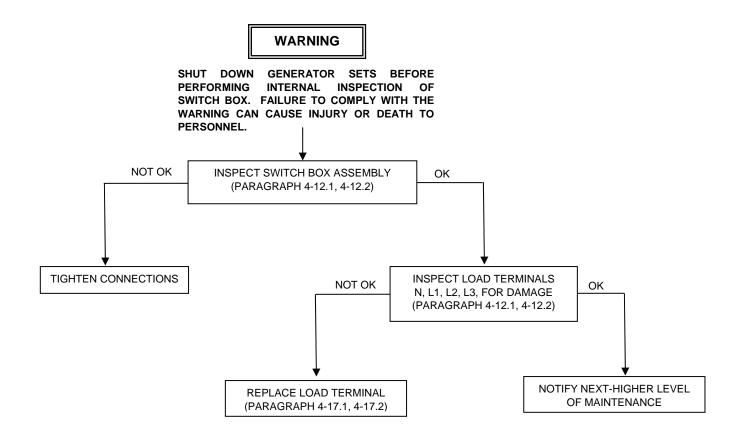
This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

Figure 4-6. Unit A Has No Power



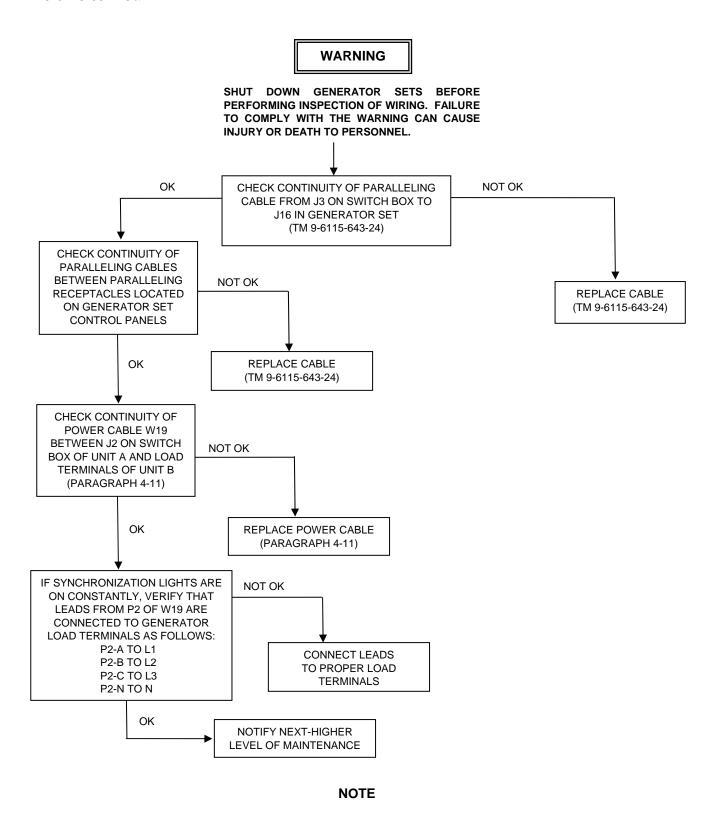
This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

Figure 4-7. Unit B Has No Power



On previous model switch boxes, load terminal N is designated L0. This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

Figure 4-8. Power Is Absent at All Switch Box Load Terminals



On previous model switch boxes, load terminal N is designated L0. This troubleshooting chart covers all three versions of the switch boxes, A, B, and C.

Figure 4-9. Cables are Connected Properly, but Unit Fails to Parallel Through Switch Box

Section VI. MAINTENANCE PROCEDURES

4-10 MAINTENANCE OF GENERATOR SETS

Refer to TM 9-6115-643-24 for generator sets and to TM 9-2815-254-24 for the engine.

4-11 POWER CABLE W19 MAINTENANCE

This task covers:

a. Remove

b. Test

c. Install

INITIAL SETUP

<u>Tools</u>	Equipment Conditions

Tool Kit, General Mechanic's (item 1, Section III, appendix B)
Multimeter (item 4, Section III, appendix B)

Reference
Both generator sets shut down,
paragraph 2-5.3.3, steps a-g.
Power plant prepared for movement,
Paragraph 2-7.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-11.

TM 9-6115-661-13&P

REMOVE

Disconnect electrical leads of power cable (12, figure 2-6) from unit B.

TEST

- 1. Set multimeter for resistance.
- 2. Refer to FO-1 and check continuity of each electrical lead from P2.

NOTE

Pins G1, G2, G3, and G4 are common points and should read continuity to each green wire. Ensure that G1, G2, G3, and G4 are common points and read continuity to each other.

Table 4-2. Cable Assembly W19

Wire Color	From	То
Black	P2-A	L1
Red	P2-B	L2
Blue	P2-C	L3
White	P2-N	N
Green	P2-G1	GND
Green	P2-G2	GND
Green	P2-G3	GND
Green	P2-G4	GND

INSTALL

Connect the five leads of the power cable to the generator set on unit B.

4-12.1 SWITCH BOX ASSEMBLY MAINTENANCE (A Model)

This task covers:

- a. Remove
- b. Inspect
- c. Install

INITIAL SETUP

Tools

Equipment Conditions

Tool Kit, General Mechanic's (item 1, Section III, appendix B)

Reference Both generator sets are shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are

lowered, paragraph 2-3.2.1.

Materials/Parts

Lock-nuts Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-12.1.

REMOVE

1. Remove four lock-nuts (14, figure 4-10.1), eight flat washers (5), and four cap screws (6) that secure the switch box assembly. Discard lock-nuts (14).

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- 2. Disconnect L1, L2, L3, and N from generator set load terminals (9).
- 3. Disconnect GND from the generator set ground terminal (10).
- 4. Disconnect P1 (7) from J16 (8) of generator set.
- 5. Remove switch box assembly.

INSPECT

- 1. Release clamping catch (15) and open control panel access cover (4).
- 2. Inspect control panel assembly (16) for missing or broken parts.
- Close control panel access cover (4) and secure with clamping catch (15).
- 4. Release clamping catch (17) and open load terminal door (18).
- 5. Inspect load terminals (9) and ground terminal (10) for missing or broken parts.
- 6. Close load terminal door (18) and secure with clamping catch (17).
- 7. Remove cap screws (3), lock washers (2), and flat washers (1). Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. Slide the switch box cover from the switch box assembly carefully to prevent damage to control-panel wiring harness.

- 8. Carefully position switch box cover (19) in front of switch box assembly.
- 9. Disconnect P3 (11) from J4 (13).
- 10. Remove switch box cover (19).
- 11. Inspect for loose component mounting and missing connections. Tighten all loose connections.
- 12. Inspect all leads and wires for worn or deteriorated insulation that reveals bare spots in conductors. If found, notify next-higher level of maintenance.
- 13. Position switch box cover (19) in front of switch box assembly.
- 14. Connect P3 (11) to J4 (13).
- 15. Position switch box cover (19) over switch box assembly and align mounting holes.
- 16. Install flat washers (1), new lock washers (2), and cap screws (3), which secure the switch box cover (19).

INSTALL

1. Position switch box assembly on switch box support (22) and front platform.

- 2. Route electrical leads (20) and cable harness (21) through the power cable sock (12).
- 3. Align mounting holes of the switch box assembly and switch box support (22).
- 4. Install four cap screws (6), eight flat washers (5), and four new lock-nuts (14), to secure switch box assembly.
- 5. Connect P1 (7) to J16 (8) of generator set.
- 6. Connect W1, W2, W3, W4, and W5 to the load terminals (9) of the generator set as follows:
 - a. Connect W1 to L1.
 - b. Connect W2 to L2.
 - c. Connect W3 to L3.
 - d. Connect W4 to L0.
- 7. Connect W5 to GND (10).

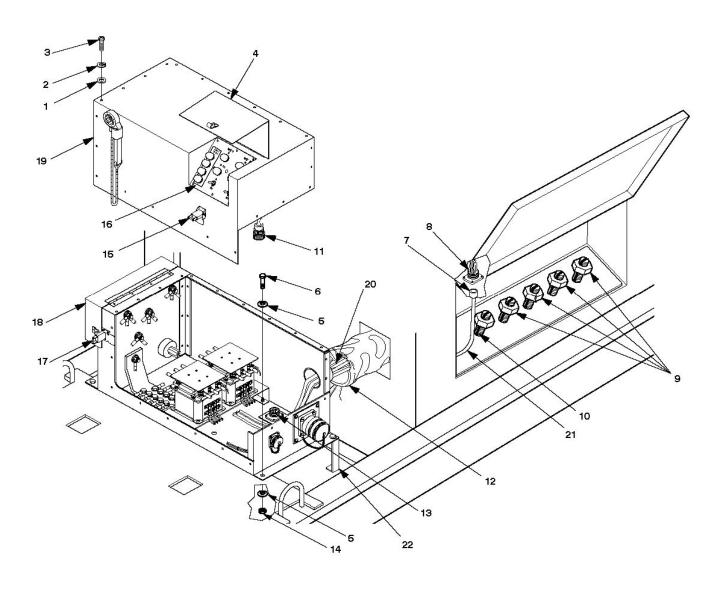


Figure 4-10.1. Switch Box Assembly Maintenance (Typical A Model)

4-12.2 SWITCH BOX ASSEMBLY MAINTENANCE (B&C Models)

This task covers:

- a. Remove
- b. Inspect
- c. Install

INITIAL SETUP

Tools

Equipment Conditions

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Reference Both generator sets are shut down,

Materials/Parts

paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-12.2.

REMOVE

- 1. Remove nuts (12, figure 4-10.2), lock washers (15), flat washers (3), and cap screws (2) that secure the switch box assembly. Discard lock washers (15).
- 2. Disconnect L1, L2, L3, and N from the generator set load terminals (8).

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- 3. Disconnect GND from the generator set ground terminal (9).
- 4. Disconnect P1 (6) from J16 (7) of the generator set.
- 5. Remove switch box assembly, carefully pulling P1 (6) through the power cable sock (11).

INSPECT

- 1. Release clamping catch (13) and open the control panel access cover (14).
- 2. Inspect control panel assembly for missing or broken parts.
- 3. Close control panel access cover (14) and secure with clamping catch (13).
- 4. Release clamping catches and open load terminal door (1).
- 5. Inspect load terminals (8) and ground terminal (9) for missing or broken parts.
- 6. Close load terminal door (1) and secure with clamping catches.
- Release clamping catches (13) of switch box cover (4) in front of switch box assembly.
- 8. Lift switch box cover (4).
- 9. Inspect for loose component mounting and missing connections. Tighten all loose connections.
- 10. Inspect all leads and wires for worn or deteriorated insulation that reveals bare spots in conductors. If found, notify next-higher level of maintenance.
- 11. Close switch box cover (4) and secure clamping catches (13) in front of switch box assembly.

- 1. Position switch box assembly on the front platform.
- 2. Route electrical leads (5) and cable harness (10) through the power cable sock (11).
- 3. Align mounting holes of switch box assembly.
- 4. Install cap screws (2), flat washers (3), new lock washers (15), and nuts (13) to secure switch box assembly.
- 5. Connect P1 (6) to J16 (7) of generator set.
- 6. Connect W1, W2, W3, W4, and W5 to load terminals (8) of generator set as follows:
 - a. Connect W1 to L1.
 - b. Connect W2 to L2.
 - c. Connect W3 to L3.
 - d. Connect W4 to N.
- 7. Connect W5 to GND (9).

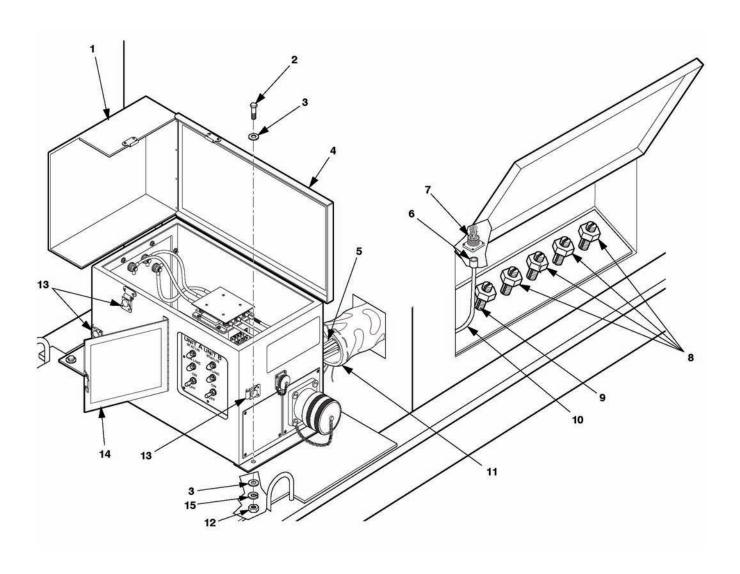


Figure 4-10.2. Switch Box Assembly Maintenance (Typical B&C Models)

4-13.1 LOAD TERMINAL WRENCH ASSEMBLY MAINTENANCE (A MODEL)

This task covers: a. Remove

b. Repair

c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, Section III, appendix B)

Materials/Parts

Washers, Lock

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

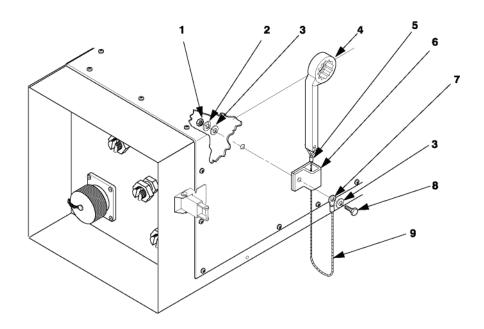


Figure 4-11.1. Switch Box Load Terminal Wrench Assembly Replacement (A Model)

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

The above warnings apply to all procedures listed in paragraph 4-13.1.

REMOVE

- 1. Refer to paragraph 4-12.1 and perform steps 7 through 10 of Inspect.
- 2. Remove cap screw (8, figure 4-11.1), two flat washers (3), lock washer (2), nut (1), loop clamp (6), and box wrench (4) with attached rope (9). Discard lock washer (2).

REPAIR

When the rope (9) requires replacement, perform the following:

- 1. Cut old rope (9) from box wrench (4).
- 2. On new rope, heat each end to prevent unraveling.
- 3. Install new terminal lug (7) to one end of rope (9).
- 4. Thread other end of rope through the opening in handle of box wrench (4).
- 5. Install conductor splice (5) to secure rope (9) to box wrench (4).

- 1. Place loop clamp (6) so mounting holes are aligned with switch box cover (19, figure 4-10.1) holes.
- 2. Drop terminal lug end of rope (9, figure 4-11.1) with box wrench (4) through loop clamp (6), as shown in figure 4-11.1.
- 3. Install cap screw (8), two flat washers (3), terminal lug (7), new lock washer (2), and nut (1) which secure loop clamp (6) to switch box cover (19, figure 4-10.1).
- 4. Refer to paragraph 4-12.1 and perform steps 13 through 16 of Inspect.

4-13.2 LOAD TERMINAL WRENCH ASSEMBLY MAINTENANCE (B&C MODELS)

This task covers:

- a. Remove
- b. Repair
- c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B) Drill, ¼ inch (component of item 2, section III, appendix B)

Materials/Parts

Rivets, Blind Head

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

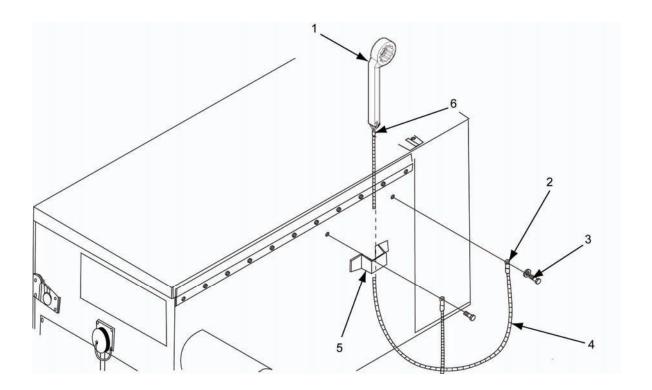


Figure 4-11.2. Switch Box Load Terminal Wrench Assembly Replacement (B&C Models)

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-13.2.

REMOVE

- 1. Drill out rivet (3, figure 4-11.2) that secures rope (4) to switch box.
- 2. Remove box wrench (1) with attached rope (4) from loop clamp (5).

REPAIR

When the rope (4) requires replacement, perform the following:

- 1. Cut old rope (4) from box wrench (1).
- 2. On new rope, heat each end to prevent unraveling.
- 3. Install new terminal lug (2) to one end of rope (4).
- 4. Thread other end of rope (4) through opening in handle of box wrench (1).
- 5. Install conductor splice (6) to secure rope (4) to box wrench (1).

- 1. Replace box wrench (1) with attached rope (4) in loop clamp (5).
- 2. Position terminal lug end (2) of rope (4) over mounting hole and secure with rivet (3).

4-14.1 CLAMPING CATCH MAINTENANCE (A MODEL)

This task covers: a. Remove

b. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)
Drill, 1/4-inch (component of item 2, section III, appendix B)
Riveter, Blind Head (component of item 3, section III, appendix B)

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Rivets, Blind Head

NOTE

A new clamping catch and latch have been added to the supply system. The figure depicts the old clamping catch and latch. The remove and install procedures remain the same.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-14.1.

REMOVE

- 1. Drill out rivets (1, figure 4-12.1) that secure clamping catch (2).
- 2. Remove defective clamping catch (2).

- 1. Position new clamping catch (2) and secure with rivets (1).
- 2. Close cover.

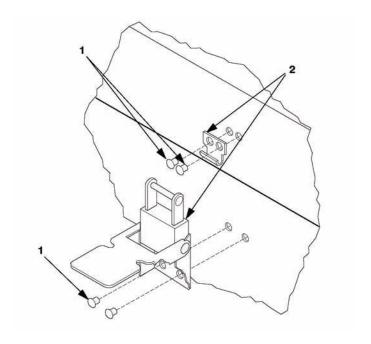


Figure 4-12.1. Clamping Catch Replacement (A Model)

4-14.2 CLAMPING CATCH MAINTENANCE (B&C MODELS)

This task covers: a. Remove

b. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)
Drill, 1/4-inch (component of item 2, section III, appendix B)
Riveter, Blind Head (component of item 3, section III, appendix B)

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Rivets, Blind Head

NOTE

A new clamping catch and latch have been added to the supply system. The figure depicts the old clamping catch and latch. The remove and install procedures remain the same.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-14.2.

REMOVE

- 1. Drill out rivets (1, figure 4-12.2) that secure clamping catch (2).
- 2. Remove defective clamping catch (2).

- 1. Position new clamping catch (2) and secure with rivets (1).
- 2. Close cover.

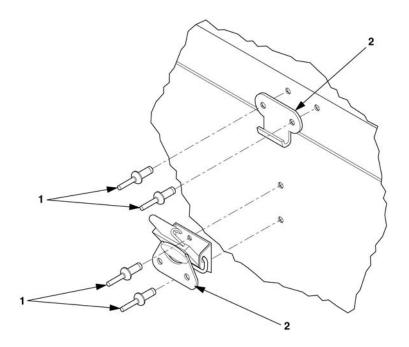


Figure 4-12.2. Clamping Catch Replacement (B&C Models)

4-15 SWITCH BOX TOGGLE SWITCH MAINTENANCE (A, B, & C MODELS)

This task covers:

- a. Remove
- b. Test
- c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, appendix B) Multimeter, AN/PSM-45A (item 4, appendix B)

Materials/Parts

Washers, Lock

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

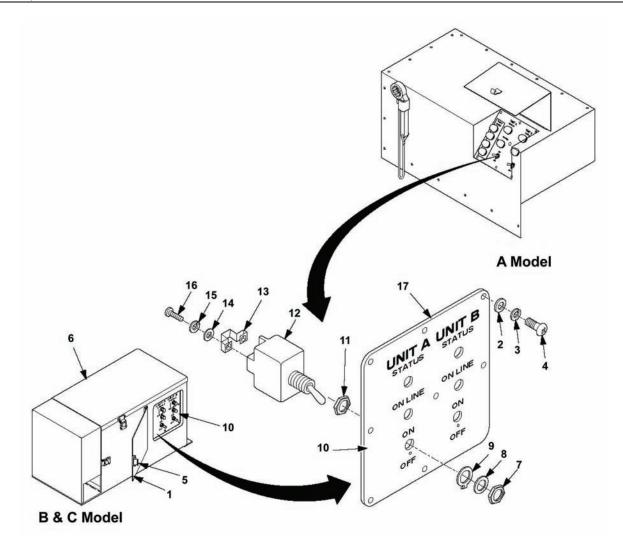


Figure 4-13. Toggle Switch Replacement (A, B, & C Models)

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-15.

REMOVE

- 1. Release clamping catch (5, figure 4-13) and open the control panel access cover (1).
- 2. Remove cap screws (4), lock washers (3), and flat washers (2). Remove control panel assembly (10) from switch box cover (6). Discard lock washers (3).
- 3. Tag wires on terminals 3, 4, and 6 on back of switch (12).
- 4. Remove terminal screws (16), lock washers (15), flat washers (14) and conductor bus (13) from switch terminals. Discard lock washers (15).
- 5. Remove nut (7), lock washer (8), locking ring (9) and switch (12).

TEST

- 1. Set multimeter for continuity test.
- 2. With switch (12) in center position, check continuity of switch between terminals 3 and 5.
- 3. If no continuity in step 2, replace switch.

- 4. With switch (12) in OFF position, check continuity of switch between:
 - a. Terminals 3 and 5
 - b. Terminals 2 and 6
 - c. Terminals 3 and 6
 - d. If there is continuity in steps a, b, or c, replace switch.

INSTALL

- 1. Remove nut (7), lock washer (8), and locking ring (9) from new switch.
- 2. Hand-tighten nut (11) on switch.

NOTE

Make sure terminals 3 and 6 of switch are toward bottom of panel when installing toggle switch.

- 3. Insert switch body (12) into mounting hole and position nut (11) against control panel assembly (10).
- 4. Install locking ring (9) into keyway of switch until alignment tip goes into control panel assembly (10).
- 5. Install lock washer (8) against locking ring (9).
- 6. Install nut (7) and tighten, making sure that locking ring (9) alignment tip is engaged in control panel assembly (10).
- 7. Remove screws (16) with washers from terminals of new switch (12).
- 8. Install conductor bus (13) between terminals 2 and 5.
- 9. Install tagged wires, terminal screws (16), new lock washers (15), and flat washers (14) to terminals.
- 10. Position control panel assembly (10) with gasket (17) on switch box cover (6) and align mounting holes.
- 11. Install flat washers (2), new lock washers (3), and cap screws (4).
- 12. Close control panel access cover (1) and secure with clamping catch (5).

4-16 INDICATOR LIGHT MAINTENANCE (A, B, & C MODELS)

This task covers:

- a. Remove
- b. Test
- c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B) Multimeter, AN/ASM-45A (item 4, appendix B) Solder gun (component of item 2, section III, appendix B)

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1

Materials/Parts

Solder (component of item 7, appendix E) Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before removing indicator lamp. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-16.

REMOVE

- 1. Release clamping catch (8, figure 4-14) and open control panel access cover (7).
- 2. Remove screws (11), flat washers (9), lock washers (10) and control panel assembly (12). Discard lock washers (10).

NOTE

The switch box assembly has four lamps. Replacement procedures are the same for each indicator lamp.

- 3. Tag leads (16) connected to each terminal of indicator lamp housing to be replaced, peel back heat shrink tubing (13), and unsolder each lead.
- 4. Remove and discard heat shrink tubing (13) from leads (16).
- 5. Remove and retain lens (1), O-ring (14), and lamp (2).
- 6. Remove mounting nut (6) and internal tooth lock washer (5).
- 7. Slide indicator housing (3) out of control panel assembly (12) and remove O-ring (4).

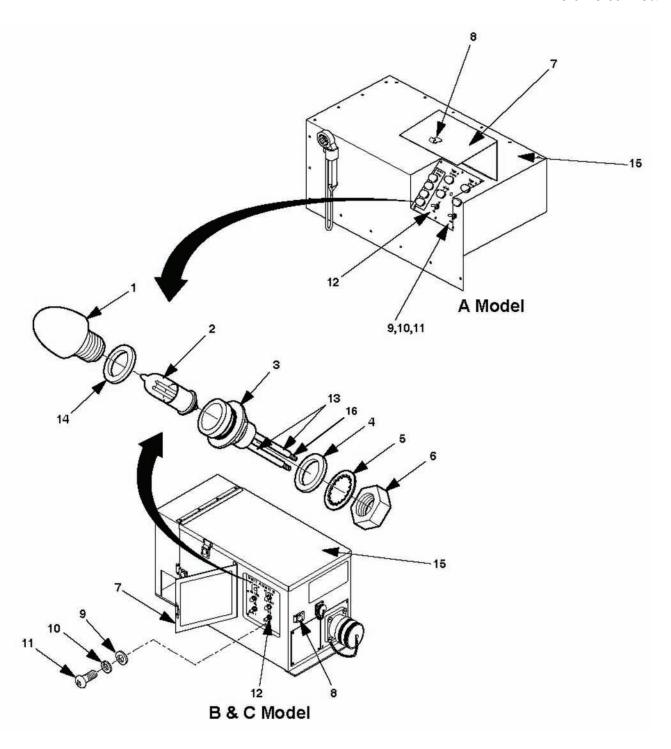


Figure 4-14. Indicator Light Replacement

TEST

Using multimeter, measure continuity between pins (13). If no continuity, replace lamp (2). If lamp (2) does not light and continuity exists, replace indicator housing (3).

- 1. Remove mounting nut (6), internal tooth lock washer (5), and O-ring (4) from new indicator housing (3).
- 2. Install O-ring (4) on indicator housing (3) and insert indicator housing (3) through control panel assembly (12).
- 3. Install internal tooth lock washer (5) on indicator housing (3).
- 4. Install mounting nut (6) on indicator housing (3).
- 5. Slip new heat shrink tubing (13) over leads (16).
- 6. Solder leads (16) to the applicable terminals and remove tags.
- 7. Slide heat shrink tubing (13) over soldered connections and shrink tubing.
- 8. Position control panel assembly (12) with gasket on switch box cover (15) and align mounting holes.

4-17.1 SWITCH BOX LOAD TERMINAL MAINTENANCE (A MODEL)

This task covers:

- a. Remove
- b. Repair
- c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Materials/Parts

Terminal, Load ASTM A313 TY302 CONDB ROND 0.105 Washers, Lock

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-17.1.

REMOVE

1. Release clamping catch (5, figure 4-15.1) and open load terminal door (1).

2. Remove cap screws (2), lock washers (3), and flat washers (4). Discard lock washers (3).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. Slide the switch box cover from the switch box assembly carefully to prevent damage to control-panel wiring harness.

- 3. Carefully position switch box cover (15) in front of switch box assembly.
- 4. Disconnect P3 (6) from J4 (7).
- 5. Remove switch box cover (15).
- 6. Disconnect external load terminal lead from defective terminal (14).

NOTE

For removal of ground load terminal go to step 6.

- 7. Remove nut (8), internal tooth lock washer (9), and leads (10) from defective load terminal (14).
- 8. Remove nut (11) that secures the load terminal (14) to the mounting plate (17).
- 9. Remove load terminal (14).

REPAIR

NOTE

Repair consists of replacing a missing or damaged bail. Removal of terminal is not required. Any other damage to the terminal requires replacement. The bail is fabricated using bulk wire, item 29, Bulk.

- 1. Release clamping catch (5, figure 4-15.1) and open load terminal door (1).
- Cut off 5-3/4 inches of bulk wire (Item 29, Bulk).
- 3. Make sure nut (13) is installed on load terminal (14).
- 4. Fabricate and install terminal clip in accordance with figure 4-16.
- 5. Close load terminal door (1, figure 4-15.1) and secure with clamping catch (5).

- 1. Position new load terminal (14) on mounting plate (17) so alignment pin fits in hole provided.
- 2. Install and tighten nut (11).
- 3. Install leads (10).
- 4. Install internal tooth lock washer (9) and nut (8) on load terminal (14).

- 5. Close load terminal door (1) and secure with clamping catch (5).
- 6. Position switch box cover (15) over switch box assembly and align mounting holes.
- 7. Connect P3 (6) to J4 (7).
- 8. Install flat washers (4), new lock washers (3), and cap screws (2), which secure the switch box cover (15).

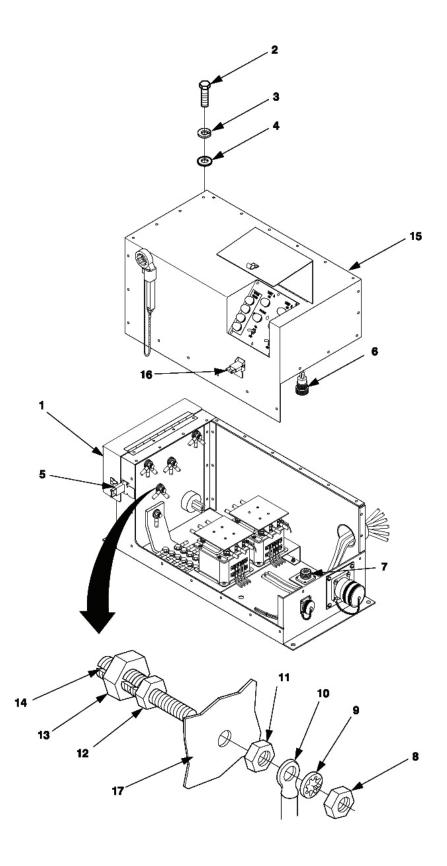


Figure 4-15.1. Switch Box Load Terminal Maintenance (A Model)

4-17.2 SWITCH BOX LOAD TERMINAL MAINTENANCE (B&C MODELS)

This task covers:

- a. Remove
- b. Repair
- c. Install

INITIAL SETUP

<u>Tools</u>

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Materials/Parts

Terminal, Load ASTM A313 TY302 CONDB ROND 0.105

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-17.2.

REMOVE

- 1. Release clamping catch (3, figure 4-15.2) and open load terminal door (1).
- 2. Release clamping catch (3) of switch box cover (2) in front of switch box assembly.

- 3. Lift switch box cover (2).
- 4. Disconnect external load terminal lead from defective terminal (9).

NOTE

For removal of ground load terminal go to step 6.

- 5. Remove nut (4), tooth lock washer (5), and leads (6) from defective load terminal (9).
- 6. Remove nut (7) that secures load terminal (9) to mounting plate (10).
- 7. Remove load terminal (9).

REPAIR

NOTE

Repair consists of replacing a missing or damaged bail. Removal of terminal is not required. Any other damage to the terminal requires replacement. The bail is fabricated using bulk wire, item 29, Bulk.

- 1. Release clamping catch (3) and open load terminal door (1).
- 2. Cut off 5-3/4 inches of bulk wire.
- Make sure nut (8) is installed on terminal load (9).
- 4. Fabricate and install terminal clip in accordance with figure 4-16.
- 5. Close load terminal door (1, figure 4-15.2) and secure with clamping catch (3).

- 1. Position new load terminal (9) on mounting plate (10) so that alignment pin fits in hole provided.
- 2. Install and tighten nut (7).
- 3. Install leads (6).
- 4. Install tooth lock washer (5) and nut (4) on load terminal (9).
- 5. Close load terminal door (1) and secure with clamping catch (3).
- 6. Close switch box cover (2) of switch box assembly.

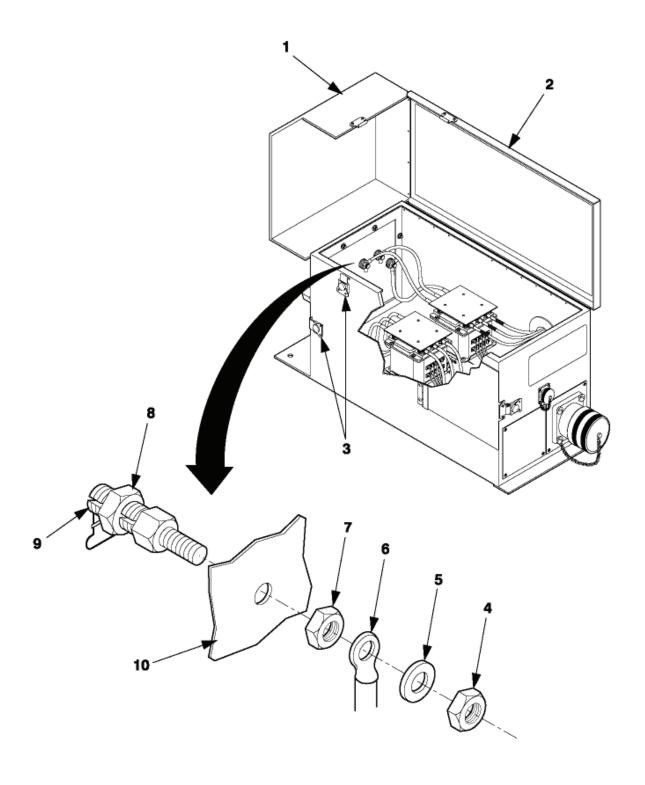


Figure 4-15.2. Switch Box Load Terminal Maintenance (B&C Models)

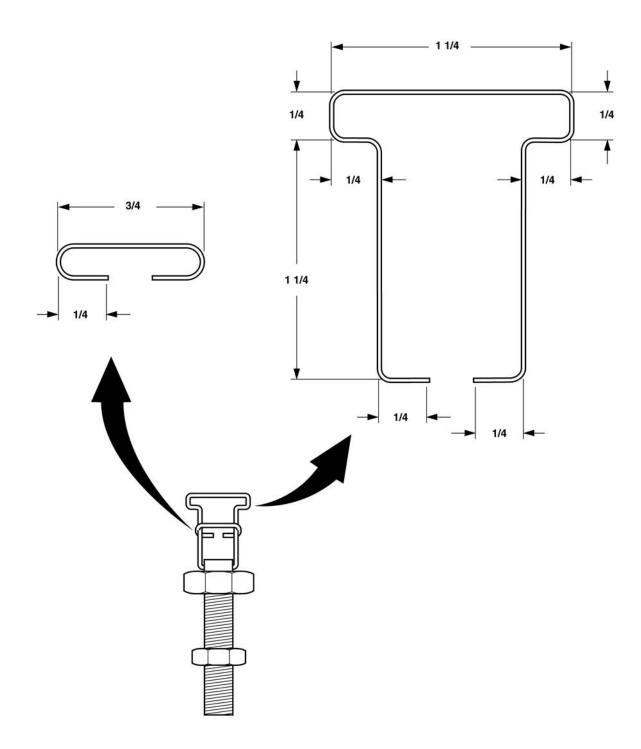


Figure 4-16. Switch Box Load Terminal Repair (A, B, & C Models)

4-18 REAR STEPS MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's (item 1, appendix B)

Reference Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Nut, Self-locking

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-18.

REMOVE

- 1. To remove either rear step, remove self-locking nuts (5, figure 4-17), flat washers (3), and bolts (2) that secure rear step (4) to trailer frame. Discard self-locking nuts (5).
- 2. Remove self-locking nuts (5), flat washers (3), and bolts (2), that secure rear step (4) to fender (1). Discard self-locking nuts.
- 3. Remove rear step (4) from trailer.

- 1. Position rear step on trailer frame and align five mounting holes of the rear step (4) and fender (1).
- 2. Install bolts (2), flat washers (3), and new self-locking nuts (5) that secure rear step (4) to fender (1). Do not tighten bolts.
- 3. Install bolts (2), flat washers (3), and new self-locking nuts (5) to secure rear step (4) to trailer frame.
- 4. Tighten all bolts.

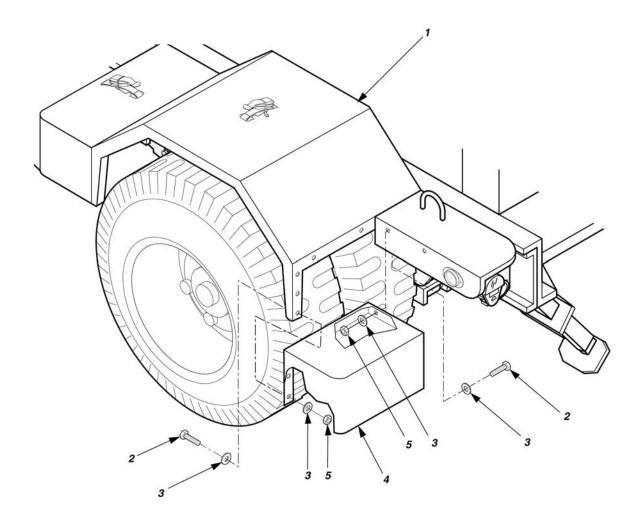


Figure 4-17. Rear Step Replacement (if installed)

ACCESSORY BOX MAINTENANCE 4-19

This task covers:

- a. Remove
- b. Repair
- c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B) Drill, 1/4-inch (component of item 2, appendix B)

Materials/Parts

Nuts, Self-locking Rivets, Blind Head

Equipment Conditions

Reference Trailer support devices are lowered, paragraph 2-3.2.1.

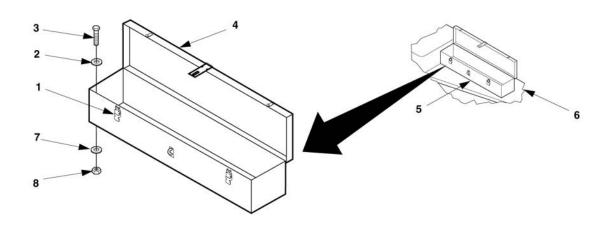


Figure 4-18. Accessory Box Replacement

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

The above warnings apply to all procedures listed in paragraph 4-19.

REMOVE

- 1. Release clamping catches (1, figure 4-18) and open accessory box cover (4).
- 2. Remove any stored accessories from accessory box (5).
- 3. Remove self-locking nuts (8), flat washers (2 and 7), and bolts (3) that secure accessory box (5) to trailer chassis (6). Discard self-locking nuts (8).
- 4. Lift accessory box (5) off trailer chassis (6).

REPAIR

Refer to paragraph 4-14.1 (A Model) or 4-14.2 (B&C Models), and replace clamping catches.

- 1. Position accessory box (5) over mounting holes in trailer chassis (6).
- 2. Install bolts (3), flat washers (2 and 7), and new self-locking nuts (8) that secure accessory box (5).
- 3. Store in accessory box (5) accessories removed in step 2 of remove.
- 4. Close accessory box cover (4) and secure with clamping catches (1).

4-20 STRAP ASSEMBLY MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Equipment Conditions

Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Washers, Lock

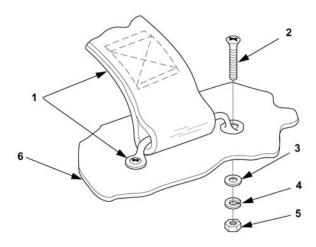


Figure 4-19. Strap Assembly Maintenance

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-20.

REMOVE

- 1. Remove nuts (5, figure 4-19), lock washers (4), flat washers (3), and screws (2) that secure strap assembly (1) to trailer chassis (6).
- 2. Remove strap assembly (1).

- 1. Position strap assembly (1) over mounting holes.
- 2. Install screws (2), new lock washers (4), new flat washers (3), and nut (5) that secure strap assembly.

4-21 2 ½ TON TRAILER (M200A1) FENDER MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

<u>Tools</u> <u>Equipment Conditions</u>

Tool Kit, General Mechanic's Reference

(item 1, section III, appendix B)

Trailer support devices are lowered, paragraph 2-3.2.1.

<u>Materials/Parts</u> <u>Personnel Required</u>

Nuts, Self-locking Two

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Use the aid of an assistant when removing the fender, splash guard, and switch box as an assembly. Failure to comply with this warning can cause injury to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-21.

REMOVE

- 1. Remove seventeen self-locking nuts (5, figure 4-20), flat washers (4), bolts (2), and flat washers (3), securing fender (1) to trailer frame. Discard self-locking nuts (5).
- 2. Remove fender (1).

- 1. Position fender (1) on trailer.
- 2. Install bolt (2) on front step (6) and bolt (2) on rail (7), leaving new self-locking nuts (5) loose.
- 3. Install fifteen bolts (2), flat washers (3 and 4), and new self-locking nuts (5). Tighten all self-locking nuts.

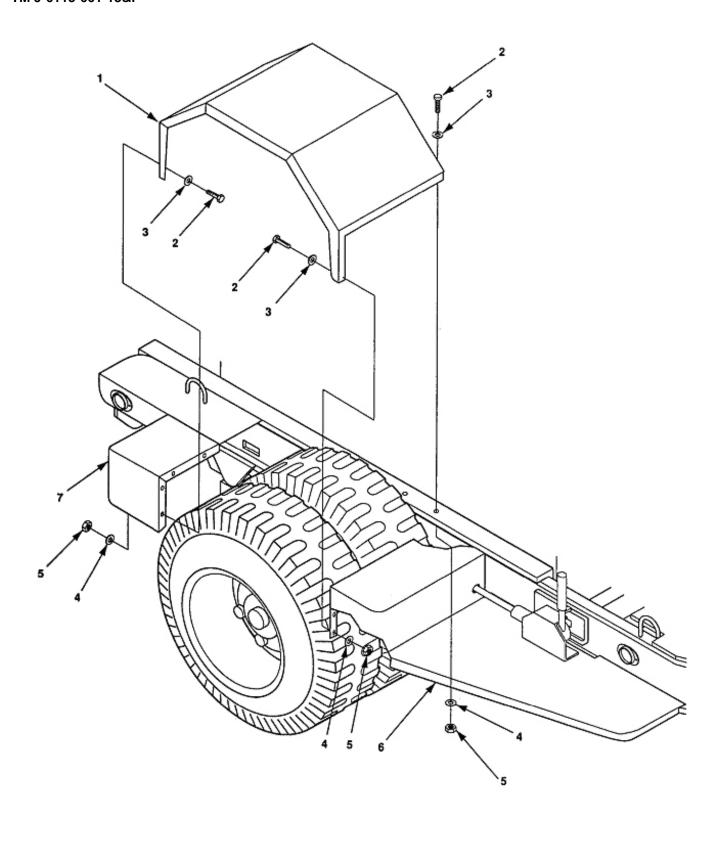


Figure 4-20. Fender Replacement, 2 $\frac{1}{2}$ Ton Trailer

4-22 1 TON TRAILER (M116A3) FENDER MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 1, section III, appendix B)

Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Nuts, Self-locking

Personnel Required

Two

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Use the aid of an assistant when removing the fender, splash guard, and switch box as an assembly. Failure to comply with this warning can cause injury to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-22.

REMOVE

NOTE

When replacing fender, remove fire extinguisher bracket for use on new fender.

- 1. Remove four self-locking nuts (7, figure 4-21), flat washers (8), cap screws (9) and remove bracket (6). Discard self-locking nuts (7).
- 2. Remove six self-locking nuts (1), flat washers (2 and 3), cap screws (4) and remove fender (5). Discard self-locking nuts (1).
- 3. Remove deck covering by peeling from fender (5).

- 1. Position fender (5) on trailer.
- 2. Install six cap screws (4), flat washers (2 and 3) and new self-locking nuts (1).
- 3. Install fire extinguisher bracket (6), cap screws (9), flat washers (8), and new self-locking nuts (7).
- 4. Install deck covering.

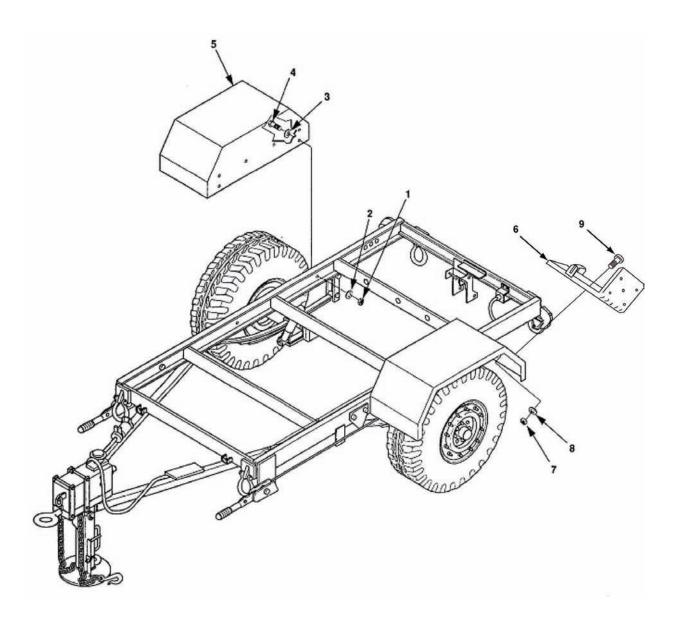


Figure 4-21. Fender Replacement, 1 Ton Trailer.

4-23 FRONT STEPS MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 1, section III, appendix B)

Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Cotter pin (TM 9-2330-205-14&P)

Nuts, Self-locking

Personnel Required

Two

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-23.

REMOVE

- 1. When replacing roadside front step, remove fire extinguisher bracket (paragraph 4-28). When replacing curbside front step, remove accessory box (paragraph 4-19).
- 2. Release brake.
- 3. Remove cotter pin (13, figure 4-22), spacer (16), and clevis pin (22), securing handbrake cable to handbrake lever mechanism (15). Discard cotter pin (13).
- 4. Remove self-locking nuts (26), flat washers (25), and cap screws (14) which secure handbrake bracket (19) to trailer frame. Discard self-locking nuts (26).
- 5. Remove self-locking nuts (21), flat washers (18), and cap screws (17), securing handbrake bracket (19) to front step (3). Discard self-locking nuts (21).
- 6. Remove handbrake bracket (19) and handbrake mechanism (15).
- 7. Remove self-locking nuts (11), flat washers (12), and cap screws (23), which secure brake cable bracket (24) to front step (3). Remove clevis (20). Discard self-locking nuts (11).

- 8. Remove self-locking nuts (1), flat washers (2), and cap screws (10), securing front step (3) to front edge of fender. Discard self-locking nuts (1).
- 9. Remove self-locking nuts (9), flat washers (5), and cap screws (4), securing front step (3) to trailer frame. Discard self-locking nuts (9).
- 10. Remove self-locking nuts (8), flat washers (7), and cap screws (6), securing front step (3) to chassis. Discard self-locking nuts (8).
- 11. Remove front step (3).

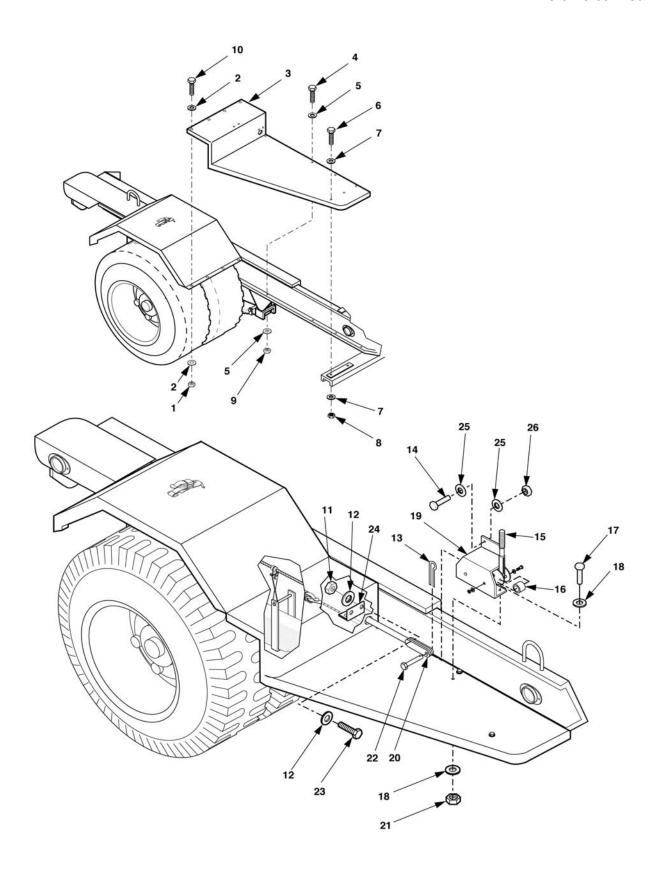


Figure 4-22. Front Step Replacement

- 1. Position front step (3, Figure 4-22) on cross braces and trailer frame. Insert handbrake clevis (20) through hole in front step (3).
- 2. Install cap screws (6), flat washers (7), and new self-locking nuts (8), which secure front step (3) to chassis.
- 3. Install cap screws (4), flat washers (5), and new self-locking nuts (9), which secure front step (3) to trailer frame.
- 4. Install cap screws (10), flat washers (2), and new self-locking nuts (1), which secure front step (3) to fender.
- 5. Install cap screws (23), flat washers (12), and new self-locking nuts (11), which secures brake cable bracket (24) to front step (3).
- 6. Position handbrake bracket (19) and handbrake lever mechanism (15) on front step (3).
- 7. Install cap screws (17), flat washers (18), and new self-locking nuts (21), which secure hand break bracket (19) and hand break mechanism (15) to front step (3).
- 8. Install cap screws (14), flat washers (25), and new self-locking nuts (26) which secure hand break bracket (19) to trailer frame.
- 9. Position handbrake cable to handbrake mechanism (15) and install clevis pin (22), spacer (16), and secure with new cotter pin (13).
- 10. Install either fire extinguisher bracket or accessory box removed in step 1. Refer to paragraph 4-19 to install accessory box. Install fire extinguisher bracket (paragraph 4-28).

4-24 2 ½ TON TRAILER (M200A1) FRONT PLATFORM MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 1, section III, appendix B)

Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Personnel required

Nuts, Self-locking Washers, Lock

Two

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-24.

REMOVE

1. Older Version:

- a. When removing front platform (4, figure 4-23.1) on Unit A, refer to paragraph 4-12.1 and remove switch box.
- b. To remove switch box supports (3) from the older model platform, remove hex nuts (8), flat washers (2), lock washers (7), and cap screws (1) which secure switch box supports (3). Discard lock washers (7).
- c. To remove the platform from the trailer, remove self-locking nuts (9), flat washers (6 and 10), and cap screws (5) which secure the platform (4) to trailer. Discard self-locking nuts (9).

2. Newer Version:

- a. When removing front platform on Unit A, refer to paragraph 4-12.2 and remove switch box.
- b. Remove hex nuts (4, figure 4-23.2), flat washers (3), lock washers (5), and cap screws (2). Discard lock washers (5).
- c. To remove the platform from trailer, remove hex nuts (4), flat washers (3), lock washers (5), and cap screws (2), which secure new platform (1) to trailer. Discard lock washers (5).
- 3. Remove front platform.

Refer to RPSTL illustration, F-29, for pictorial differences in front platform.

INSTALL

1. Older Version:

- a. Position new front platform (4) on trailer over mounting holes.
- b. Install cap screws (5), flat washers (6 and 10), and new self-locking nuts (9) to secure platform (4) to trailer.
- c. Install cap screws (1), new lock washers (7), flat washers (2), and hex nuts (8), which secures switch box supports (3).
- d. When replacing front platform for Unit A, refer to paragraph 4-12.1 and install switch box assembly.

2. Newer Version:

- a. Position front platform (1) on trailer over mounting holes.
- b. Install cap screws (2), flat washers (3), new lock washers (5), and hex nuts (4) to secure platform (1) to trailer.
- c. Install cap screws (2), flat washers (3), new lock washers (5), and hex nuts (4) which secures switch box assembly.
- d. When replacing front platform for Unit A, refer to paragraph 4-12.2 and install switch box assembly.

NOTE

Refer to RPSTL illustration, Figure F-29, for pictorial differences on front platform.

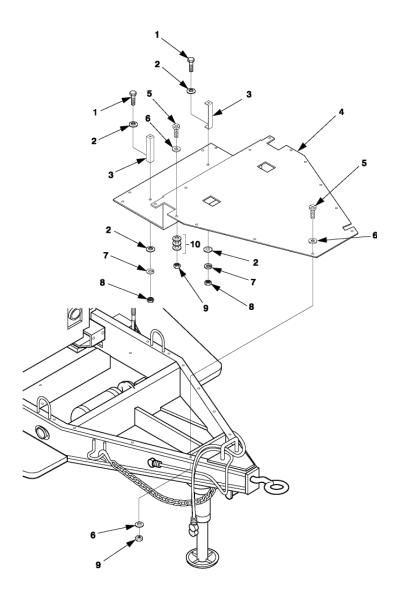


Figure 4-23.1 Front Platform Replacement , 2 ½ Ton Trailer (Older Model)

This platform (figure 4-23.1) is used with power plants equipped with older model switch boxes.

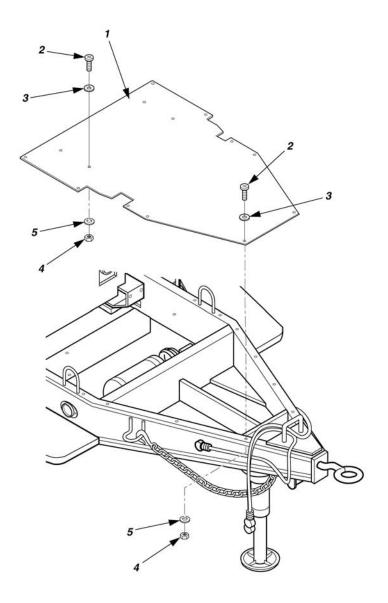


Figure 4-23.2 Front Platform Replacement, 2 ½ Ton Trailer (Newer Model)

This newer model platform is used with power plants with modified trailer.

NOTE 2

This platform (figure 4-23.2) comes with drill holes to accommodate Unit A. Unit B platform does not contain drill holes.

4-25 1 TON TRAILER (M116A3) FRONT PLATFORM MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 1, section III, appendix B)

Trailer support devices are lowered, paragraph 2-3.2.1.

Materials/Parts

Nuts, Self-locking

Two

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-25.

REMOVE

- 1. Refer to paragraph 4-19 and remove accessory box (5, figure 4-18).
- 2. Remove four self-locking nuts (2, figure 4-24), flat washers (3), cap screws (4), and front platform (5). Discard self-locking nuts (2)

- 1. Install front platform (5), cap screws (4), flat washers (3), and new self-locking nuts (2).
- 2. Refer to paragraph 4-19 and install accessory box (5, figure 4-18).

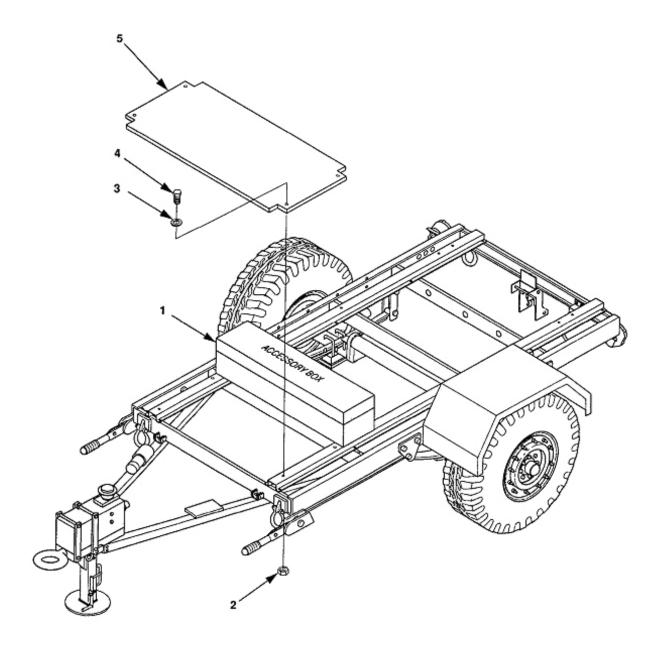


Figure 4-24. Front Platform Replacement, 1 Ton Trailer.

4-26 1 TON TRAILER (M116A3) REFLECTOR MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

<u>Tools</u> <u>Equipment Conditions</u>

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Reference Trailer hand

Trailer handbrakes set, front support leg/landing leg lowered, and rear leveling-support jack lowered, paragraph 2-3.2.1.

Materials/Parts

Nuts, Self-locking

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-26.

REMOVE

Remove two self-locking nuts (1, figure 4-25), flat washers (2), and cap screws (4), and remove reflector (3). Discard self-locking nuts (1).

INSTALL

Install reflector (3) with two cap screws (4), flat washers (2), and new self-locking nuts (1).

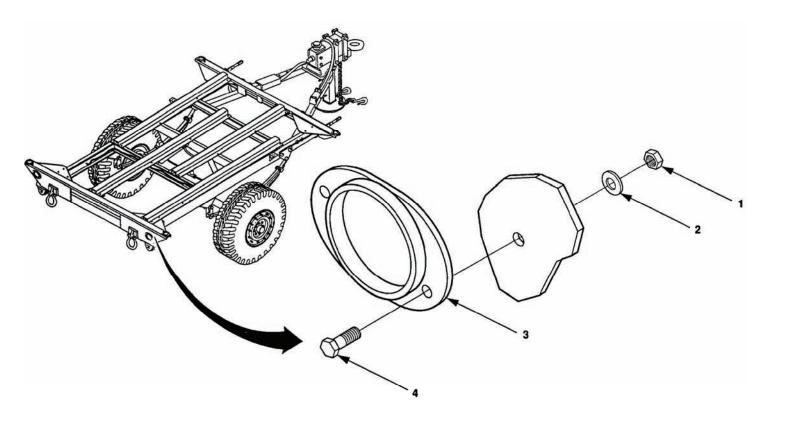


Figure 4-25. Reflector Replacement, 1 Ton Trailer.

4-27 1 TON TRAILER (M116A3) LEVELING-SUPPORT JACK MAINTENANCE

This task covers:

a. Remove

b. Install

c. Repair

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)

Equipment Conditions

Reference

Trailer handbrakes set, front support leg/landing leg lowered, paragraph 2-3.2.1.

Materials/Parts

Pin, Cotter
Nut, Self-locking
Pin, Spring
Fitting Lubrication (if

Fitting, Lubrication (if needed) Grease, GAA (item 3 Appendix E)

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Before removing trailer leveling-support jack, support rear of trailer with jack stand(s). Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-27.

REMOVE

- 1. Support rear of trailer with jack stands.
- 2. Turn leg base (11, figure 4-26) to take weight off leveling-support jack.
- 3. Remove either one of two cotter pins (16 or 7) from pivot shaft (15). Discard cotter pin (16 or 7).
- 4. Hold leg base (11) steady and remove pivot shaft (15) with remaining retaining pin (8).

TM 9-6115-661-13&P

- 5. Lift leg base (11) slightly to take weight off retaining pin (8) and remove retaining pin (8). Move leg base (11) and attached parts out of bracket (6).
- 6. Remove self-locking nut (4), flat washers (5 and 9), and cap screw (10). Discard self-locking nut (4).
- 7. Remove self-locking nut (3), flat washers (2 and 14), and cap screw (13). Remove bracket (6) from trailer chassis (1). Discard self-locking nut (3).

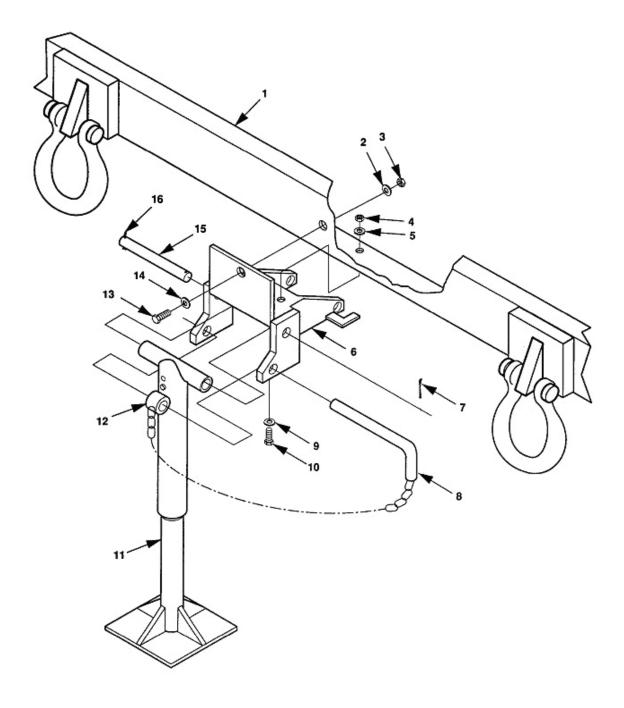


Figure 4-26. Leveling-Support Jack Replacement, 1 Ton Trailer.

INSTALL

- 1. Install bracket (6, figure 4-26) on trailer chassis (1), with flat washer (14) and cap screw (13), through mounting hole in bracket (6) on trailer chassis (1).
- 2. Install flat washer (2) and new self-locking nut (3) on cap screw (13).
- 3. Install screw (10), flat washers (9 and 5), and new self-locking nut (4).
- 4. Position leg base (11) in bracket (6) and install retaining pin (8) through holder (12).
- 5. Position leg base (11) and install pivot shaft (15).
- 6. Install new cotter pin (16 or 7) in pivot shaft.
- 7. Lube leveling-support jack.

REPAIR

NOTE

Disassemble the trailer leveling-support jack only to the extent necessary to replace worn, defective, or damaged parts

- 1. Disassemble trailer leveling-support jack.
 - a. Clamp leg assembly in a vise with spring pin (2, figure 4-27) facing up.
 - b. Drive the spring pin (2) out of upper leg (1) and remove leg base (4).
 - c. If defective, remove lubrication fitting (3).

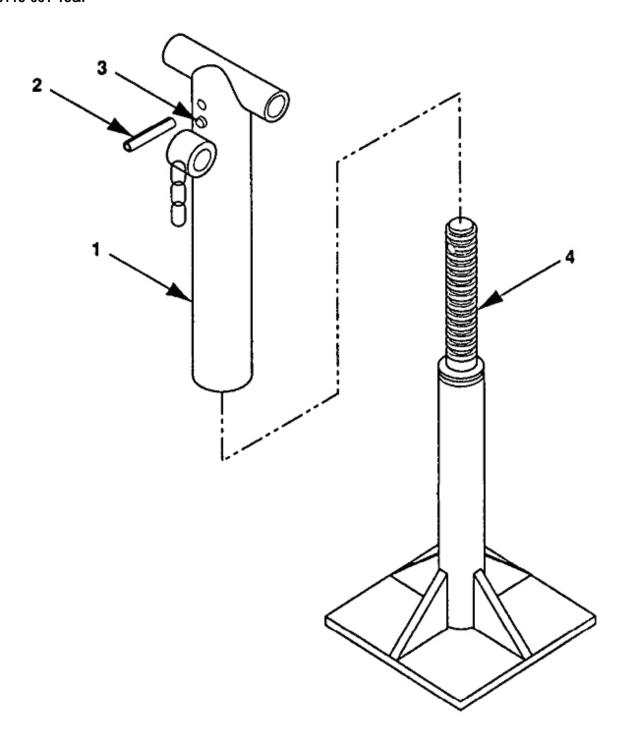


Figure 4-27 Leveling -Support Jack Repair, 1 Ton Trailer.

4-28 FIRE EXTINGUISHER BRACKET MAINTENANCE

This task covers:

a. Remove

b. Install

INITIAL SETUP

<u>Tools</u> <u>Equipment Conditions</u>

Tool Kit, General Mechanic's (item 1, section III, appendix B)

tem 1, section III, appendix B)

Traile

Materials/Parts

Nuts, Self-locking

Trailer handbrakes set, front support leg/landing leg lowered, and rear leveling-support jack lowered, paragraph 2-3.2.1.

WARNING

Reference

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-28.

REMOVE

- 1. Remove fire extinguisher from bracket (1, figure 4-28).
- 2. Remove self-locking nuts (4), flat washers (3), and cap screws (2). Remove fire extinguisher bracket (1) from fender. Discard self-locking nuts (4).

INSTALL

- 1. Install fire extinguisher bracket (1), cap screws (2), flat washers (3), and new self-locking nuts (4). Tighten self-locking nuts (4).
- 2. Place fire extinguisher in bracket (1).

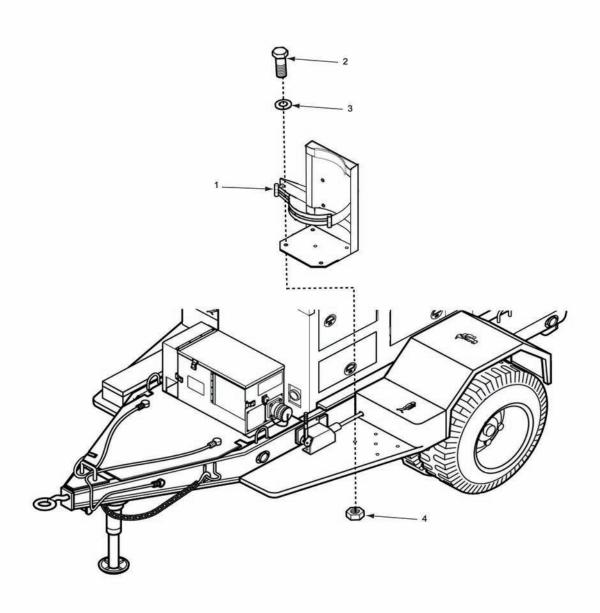


Figure 4-28. Fire Extinguisher Bracket

4-29 DATA PLATE REPLACEMENT (LTT TRAILER)

This task covers:

a. Remove

b. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B) Rivet Gun (item 7, section III, appendix B)

Materials/Parts

Rivets (item 3, appendix I)

Equipment Conditions

Reference Trailer handbrakes set, front support leg/landing leg lowered, and rear levelingsupport jack lowered, paragraph 2-3.2.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-29.

REMOVE

Remove rivets (1, figure 4-29) and data plate (2).

INSTALL

Position data plate (2) on trailer and install rivets (1).

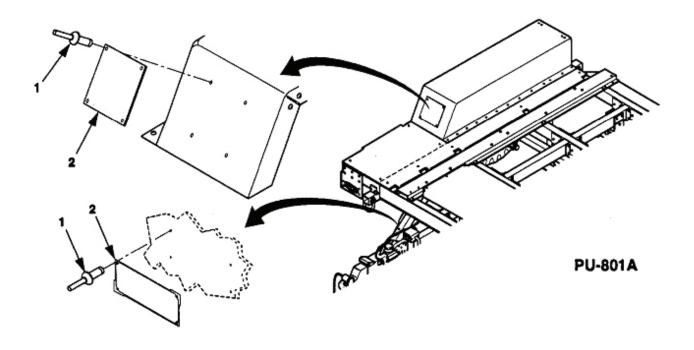


Figure 4-29. Data Plate Replacement (LTT Trailer).

4-30 **PU-801A GROUND STUD REPLACEMENT**

This task covers:

a. Remove

b. Install

INITIAL SETUP

Equipment Conditions Tools

Tool Kit, General Mechanic's (item 1, section III, appendix B)

leg/landing leg lowered, and rear leveling-

Materials/Parts support jack lowered, paragraph 2-3.2.1.

Washer, Lock (item 4, appendix I) Both generator sets shut down; paragraph 2-5.3.3.

WARNING

Reference

Trailer handbrakes set, front support

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when this generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 4-30.

REMOVE

- 1. Loosen nut (1, figure 4-30) and remove ground wire (2) from ground stud (3).
- 2. Remove nut (4), lock washer (5), flat washer (6), and ground stud (3). Discard lock washer (5).

INSTALL

- 1. Install ground stud (3), flat washer (6), new lock washer (5), and nut (4). Tighten nut (4).
- 2. Install ground wire (2) in slot of ground stud (3) and tighten nut (1).

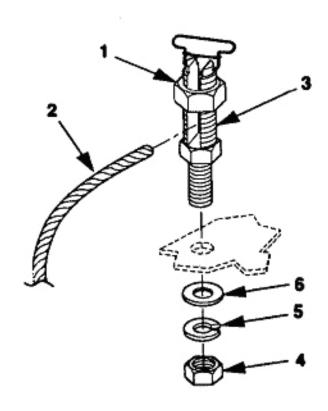


Figure 4-30. PU-801A Ground Stud Replacement

Section VII. PREPARATION FOR STORAGE AND SHIPMENT

4-31 ADMINISTRATIVE STORAGE

- **4-31.1** Short-Term Storage. This type of storage is used when the equipment is expected to be stored from 1 to 45 days. The storage may be at destination after domestic shipment, or may be administrative storage when there is a shortage of maintenance manpower. For administrative storage:
 - a. Perform maintenance services and serviceability criteria evaluations before placing equipment in administrative storage. Correct shortcomings and deficiencies.
 - b. If possible, select an inside storage site. If inside storage is not available, a truck, van container, or other suitable container may be used.
 - c. When in administrative storage, the equipment should be capable of being made mission ready within 24 hours unless a different time frame is directed by the approving authority.
 - d. Additional Level A or B preservation and packing may be required.
- **4-31.2** <u>Intermediate-Term Storage</u>. This type of storage is used when the equipment is expected to be stored from 45 to 180 days. Level A or B preservation and packing may be required.
- **4-31.3** <u>Long-Term Storage</u>. This type of storage is used when the equipment is expected to be stored for more than 180 days. Level A preservation and packing may be required.

CHAPTER 5

DIRECT SUPPORT MAINTENANCE

Subject	Index	Page
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5-5 5-6 5-7 5-8.1 5-8.2 5-9.1 5-9.2 5-10 5-11.1 5-11.2 5-12 5-13.1	General. Replace Generator Set. Switch Box Assembly Maintenance (A, B, & C Models). Wiring Harness Maintenance (B&C Models). Wiring Harness Maintenance (A Model). Electrical Leads Maintenance (A Model). Electrical Leads Maintenance (B&C Models). Bus Bar Maintenance (A Model). Contactor Maintenance (A Model). Contactor Maintenance (B&C Models). 2 ½ Ton Trailer Fuel Drain Assembly Maintenance. 1 Ton Trailer Generator Mounting Rail Maintenance (PU-801 and	5-19 5-22 5-34 5-36 5-38 5-40 5-42 5-46 5-49
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Section I. REPAIR PARTS; SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND SUPPORT EQUIPMENT

5-1 COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

5-2 SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools or support equipment are required for maintenance of the power units or power plant. Refer to TM 9-6115-643-24P for the generator set and TM 9-2815-254-24P for the engine, TM 9-2330-202-14&P for the 1 ton trailer, TM 9-2330-392-14&P for the Light Tactical Trailer (LTT), and TM 9-2330-205-14&P for 2 ½ ton trailer.

5-3 REPAIR PARTS

Refer to TM 9-6115-643-24P for the generator set and TM 9-2815-254-24P for the engine. Refer to TM 9-2330-202-14&P for 1 ton trailer parts, TM 9-2330-392-14&P for LTT parts, and TM 9-2330-205-14&P for 2 ½ to trailer parts. Power units and power plant repair parts not covered in the generator, engine, or trailer RPSTL are listed and illustrated in Appendix F.

Section II. TROUBLESHOOTING PROCEDURES

5-4 GENERAL

Refer to TM 9-6115-643-24 for generator set troubleshooting procedures and to TM 9-2815-254-24 for engine troubleshooting procedures. Refer to TM 9-2330-205-14&P for 2 ½ ton trailer troubleshooting procedures, TM 9-2330-202-14&P for 1 ton trailer troubleshooting procedures, and TM 9-2330-392-14&P for light tactical trailer troubleshooting procedures. The symptom index for the power plants lists faults associated with switch box assembly operation. Figures 5-1 through 5-9 provide a go-no-go flowchart of each malfunction. Each malfunction listed includes a reference to the applicable figure that contains a chart to help you determine probable causes and corrective actions to take. The symptom index cannot list all faults that may occur, nor all the tests or inspections and corrective actions. If a malfunction is not listed or cannot be corrected by listed corrective actions, notify next- higher level of maintenance for assistance.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

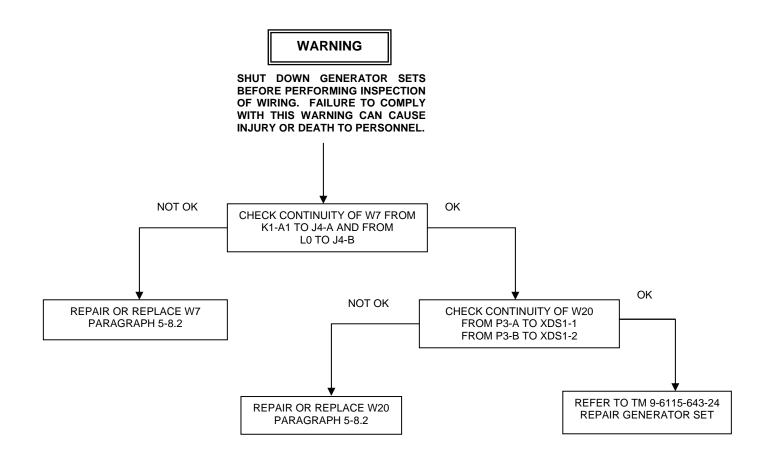
High voltage is produced when the generator set is in operation. Never attempt to start the generator set unless it is properly grounded. Failure to comply with this warning can cause injury or death to personnel.

SYMPTOM INDEX

	Troubleshooting Procedure
Unit A STATUS lamp does not light with generator set AC CIRCUIT INTERRUPTER	
switch closed (A Model)	Figure 5-1.1
Unit A STATUS lamp does not light with generator set AC CIRCUIT INTERRUPTER	
switch closed (B&C Models)	Figure 5-1.2
Unit A has no input power to K1	
Unit A has no output power from K1(A Model)	
Unit A has no output power from K1 (B&C Models)	

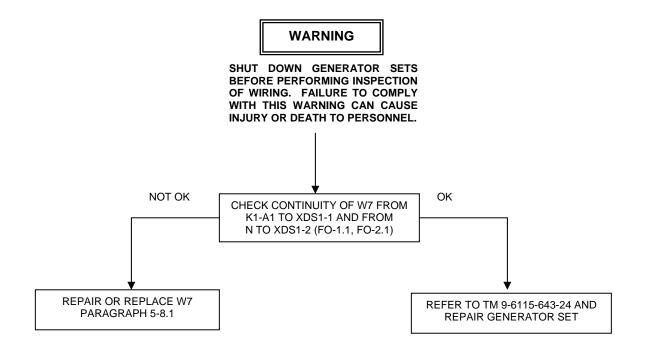
TM 9-6115-661-13&P

Unit A has output power from K1 but no output at one or more load terminals	Figure 5-4
Unit B STATUS lamp does not light with generator set AC CIRCUIT INTERRUPTER	_
switch closed (A Model)	Figure 5-5.1
Unit B STATUS lamp does not light with generator set AC CIRCUIT INTERRUPTER	
switch closed (B&C Models)	Figure 5-5.2
Unit B has no input power to K2	Figure 5-6
Unit B has no output power from K2 (A Model)	Figure 5-7.1
Unit B has no output power from K2 (B&C Models)	Figure 5-7.2
Unit B has output power from K2 but no output at one or more load terminals	Figure 5-8
Power cable W19 and paralleling cable are good, but unit fails to parallel through switch box	Figure 5-9



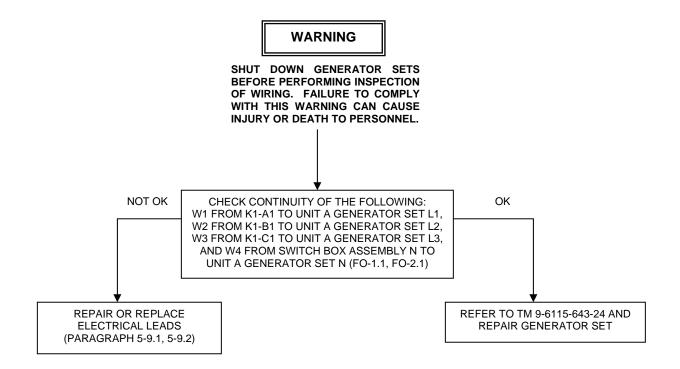
Load terminal Neutral is designated L0. This troubleshooting chart covers the A Model of the switch box.

Figure 5-1.1 Unit A STATUS Lamp Does Not Light with Generator Set AC CIRCUIT INTERRUPTER Switch Closed (A Model).



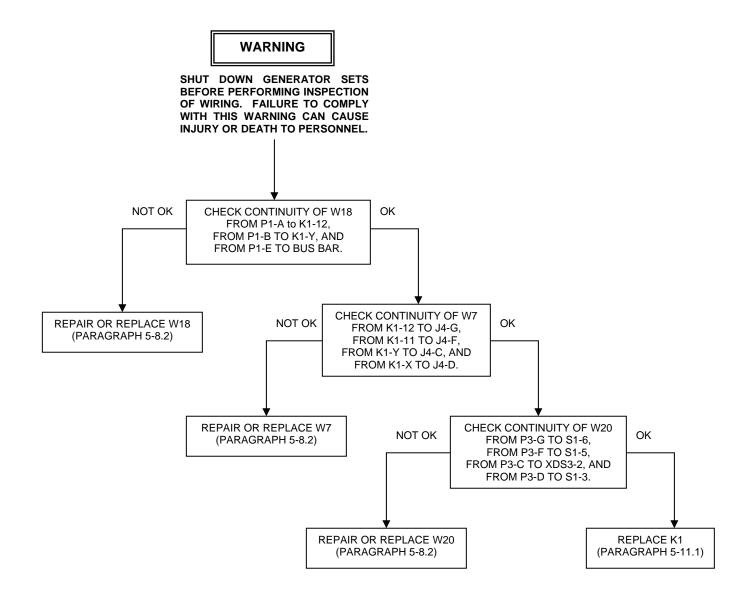
On previous model switch boxes, load terminal N is designated L0. This troubleshooting chart covers the B&C Models of the switch box.

Figure 5-1.2 Unit A STATUS Lamp Does Not Light with Generator Set AC CIRCUIT INTERRUPTER Switch Closed (B&C Models).



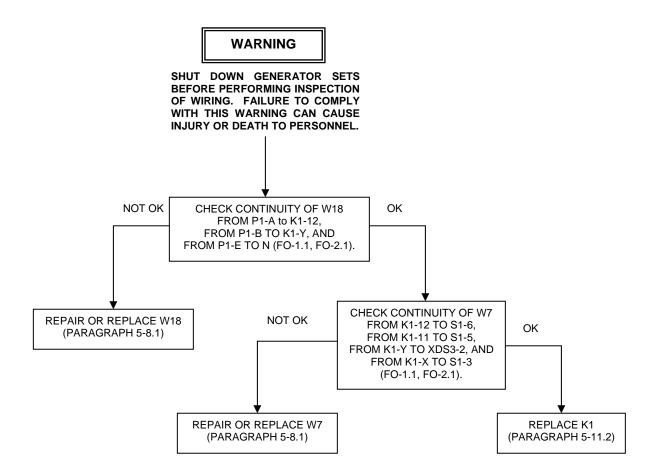
On previous model switch boxes, load terminal N is designated L0. This troubleshooting chart covers A, B, & C Models of the switch box.

Figure 5-2. Unit A Has No Input Power to K1.



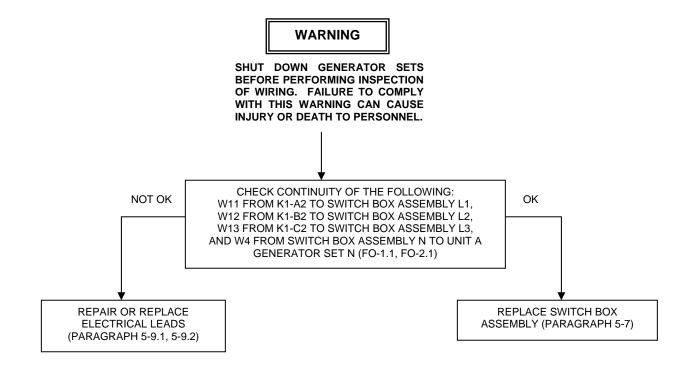
This troubleshooting chart covers the A Model of the switch box.

Figure 5-3.1. Unit A Has No Output Power from K1 (A Model).



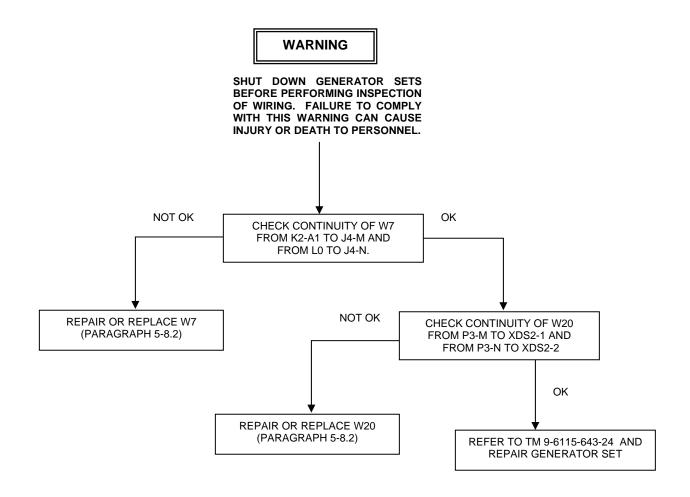
This troubleshooting chart covers the B&C Models of the switch box.

Figure 5-3.2. Unit A Has No Output Power from K1 (B&C Models).



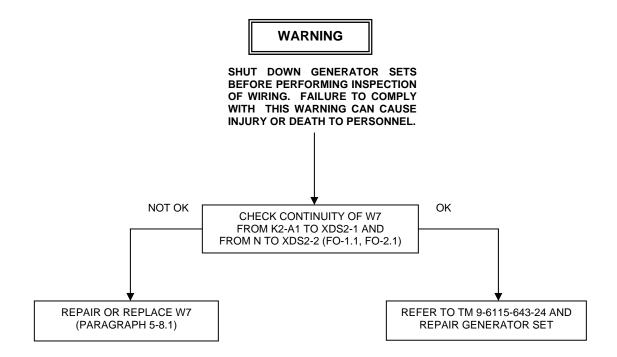
On previous model switch boxes, load terminal N was designated L0. This troubleshooting chart covers A, B, & C Models of the switch box.

Figure 5-4. Unit A Has Output Power from K1 but No Output at One or More Load Terminals.



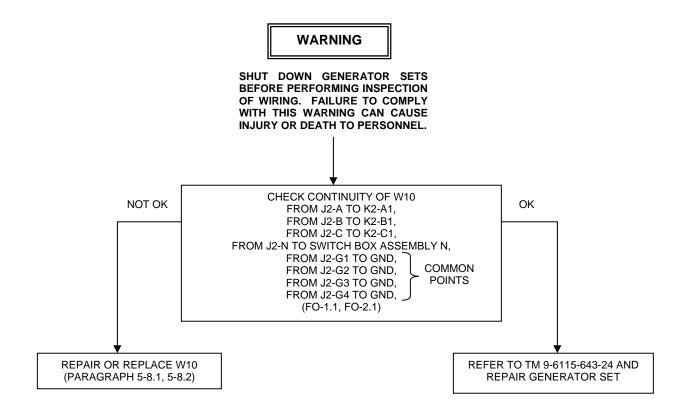
This troubleshooting chart covers the A Model of the switch box.

Figure 5-5.1. Unit B STATUS Lamp Does Not Light with Generator Set AC CIRCUIT INTERRUPTER Switch Closed (A Model).



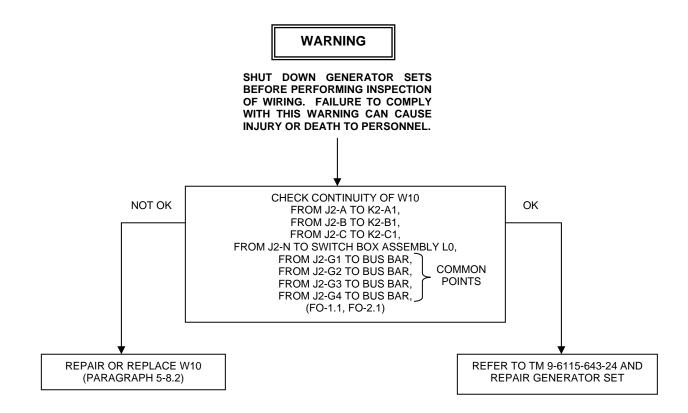
This troubleshooting chart covers the B&C Models of the switch box.

Figure 5-5.2. Unit B STATUS Lamp Does Not Light with Generator Set AC CIRCUIT INTERRUPTER Switch Closed (B&C Models).



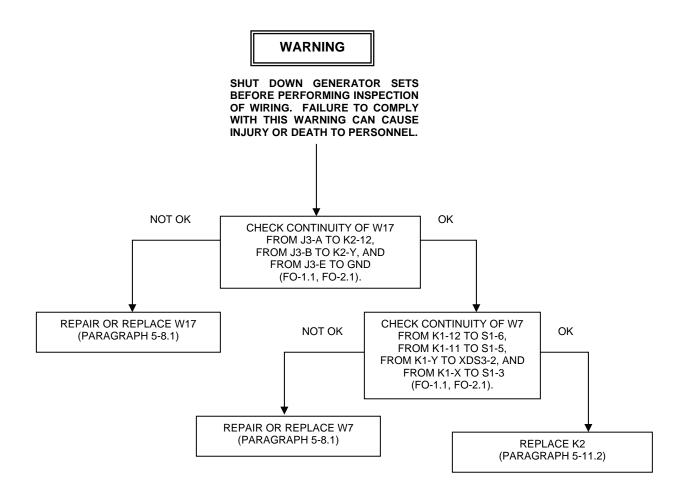
On previous model switch boxes, load terminal N was designated L0. This troubleshooting chart covers A, B, & C Models of the switch box.

Figure 5-6. Unit B has No Input Power to K2.



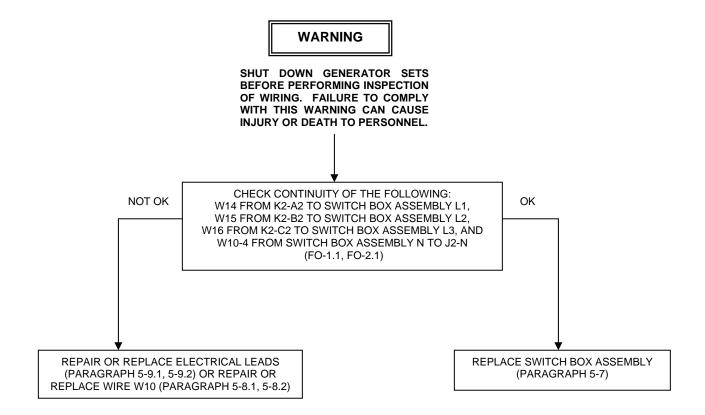
This troubleshooting chart covers only the A Model of the switch box.

Figure 5-7.1. Unit B Has No Output Power from K2 (A Model).



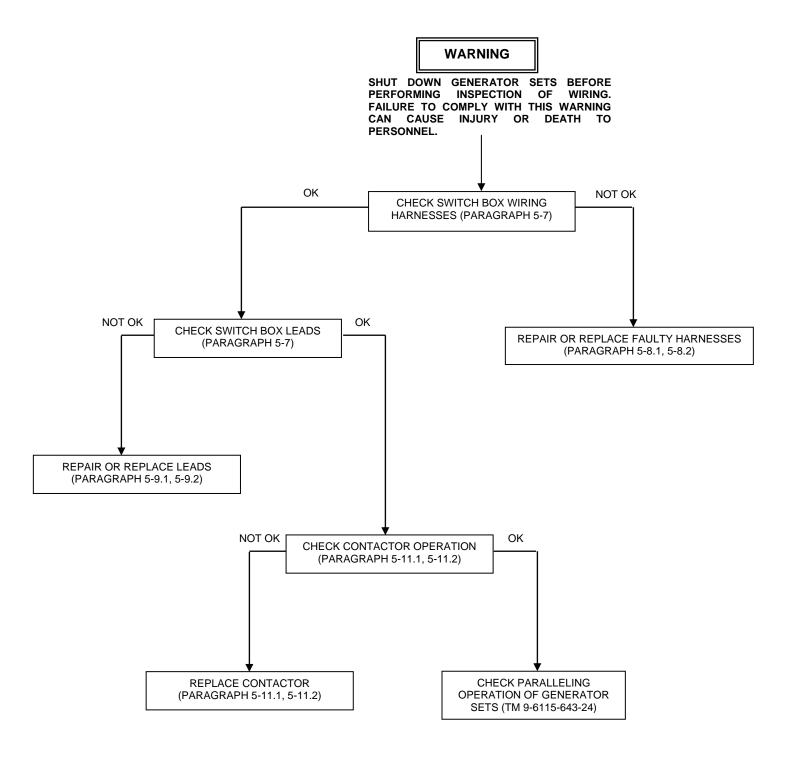
This troubleshooting chart covers the B&C Models of the switch box.

Figure 5-7.2. Unit B Has No Output Power from K2 (B&C Models).



On previous model switch boxes, load terminal N was designated L0. This troubleshooting chart covers A, B, & C Models of the switch box.

Figure 5-8. Unit B Has Output Power from K2 but No Output at One or More Load Terminals.



This troubleshooting chart covers A, B, & C Models of the switch box.

Figure 5-9. Power Cable W19 and Paralleling Cable are Good, but Unit Fails to Parallel Through Switch Box.

Section III. MAINTENANCE PROCEDURES

5-5 GENERAL

Refer to TM 9-6115-643-24 for generator set maintenance and to TM 9-2815-254-24 for engine maintenance. Refer to TM 9-2330-202-14&P for 1 ton trailer maintenance, TM 9-2330-205-14&P for 2 ½ ton trailer maintenance, and TM 9-2330-392-14&P for light tactical trailer maintenance. Direct Support level maintenance procedures are provided in paragraphs 5-6 through 5-16.

5-6 REPLACE GENERATOR SET

This task covers: a. Remove b. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 1, appendix B)

Both generator sets shut down, paragraph 2-5.3.3, steps a-g.

Materials/Parts Personnel Required

Nuts, Self-locking Four

Rope

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

When lifting generator set, use lifting equipment with minimum lifting capacity of 6000 pounds (2722 kg). Do not stand or put arms, legs, or any part of the body under hoisted load. Do not permit generator set to swing. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

NOTE

The above warnings apply to all procedures listed in paragraph 5-6.

REMOVE

1. When removing the generator set from Unit A of the power plant, detach power cable connector P1 (3, figure

- 5-10) from generator set and pull power cable (3) out of generator set through power cable sock (12).
- Loosen L1, L2, L3, N, and GND terminals (4 and 5) of Unit A/Unit B generator sets, disconnect electrical leads (13) from generator set and pull electrical leads (13) out of generator set through power cable sock (12).

Step 3 must be performed only if removing a PU-801A generator set that has not had the mounting hardware modification accomplished (self-locking nuts replacing lock washers and nuts).

- 3. If removing PU-801A generator set without the mounting hardware modification installed, perform this step and then go to step 5. Remove four nuts (6), lock washers (11), eight flat washers (7) and four screws (1). Discard nuts (6) and lock washers (11).
- 4. For all other units, remove the four screws (1), eight flat washers (7), and four self-locking nuts (6) securing the generator set to the trailer. Discard self-locking nuts (6).
- 5. Attach lifting equipment (2) with a minimum capacity of 6000 lbs.
- 6. Insert ropes (10) through each of four lifting rings (8) on generator set (9).
- 7. With one person at each rope (10) to steady and guide generator set (9), lift generator set.

INSTALL

- 1. Attach lifting equipment (2) with a minimum lifting capacity of 6000 lb.
- 2. Insert rope (10) through four lifting rings (8) on generator set (9).
- 3. With one person at each rope (10) to steady and guide generator set (9), lift generator set.
- 4. Guide generator set skids into position on trailer and lower generator set onto trailer.

NOTE

Step 5 applies to all generator sets

- 5. For all power units, install four screws (1), eight flat washers (7), and four new self-locking nuts (6) that secure generator set (9).
- 6. Disconnect lifting equipment (2).
- 7. Route power cable (3) and electrical leads (13) through power cable sock (12) on front of Unit A generator set (9).
- 8. Connect ground cable to GND terminal (5) of generator set (9) and tighten nut.
- 9. Reconnect electrical leads (4) and connector P1 (3) to generator set when installing generator set on Unit A.

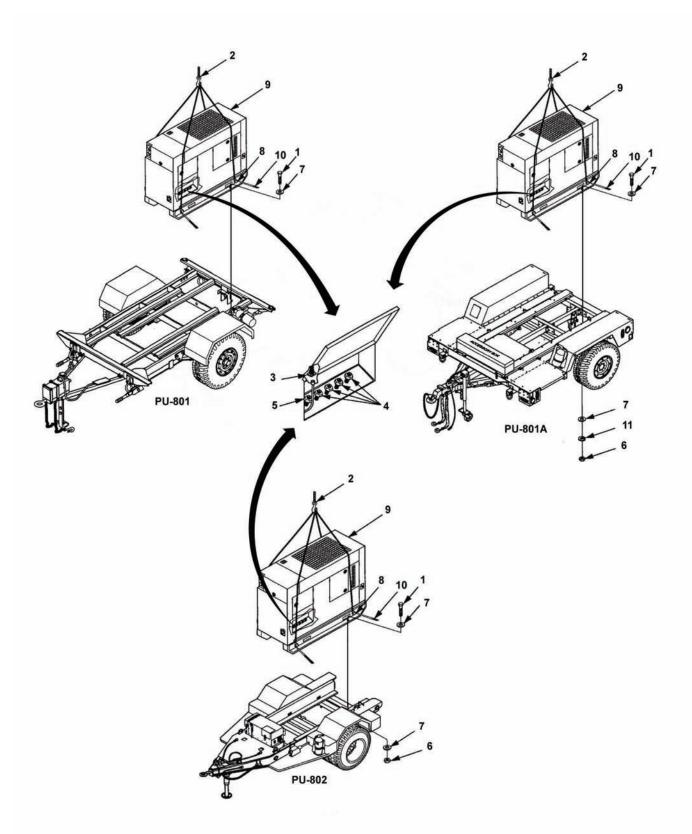


Figure 5-10 Generator Set Removal.

5-7 SWITCH BOX ASSEMBLY MAINTENANCE (A, B, & C MODELS)

This task covers:

a. Replace

- b. Repair
- c. Test

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, appendix B) Multimeter, AN/PSM-45A (item 4, appendix B) 120VAC Power Source (item 5, appendix B)

Materials/Parts

Washers, Lock

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g. Trailer support devices are lowered, paragraph 2-3.2.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-7.

REPLACE

Refer to paragraph 4-12.1 and 4-12.2 to remove and install switch box assembly.

REPAIR

Repair is accomplished by identifying the fault and determining the proper procedure for returning the switch box to operational status.

TEST (A Model)

- 1. Disassemble switch box assembly for test as follows:
 - a. Remove 21 screws (1, figure 5-11.1), flat washers (3), and lock washers (2) that secure the switch box cover (4) to the switch box assembly. Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. To prevent damage to control panel wiring harness, use caution removing switch box cover. Failure to observe this caution could result in equipment damage.

- b. Carefully position switch box cover (4) in front of switch box.
- c. Disconnect P3 (8) from J4 (11) and set switch box cover (4) out of the way.
- 2. Remove two lamps for Unit A and two lamps for Unit B from switch box control panel.
- 3. Refer to power plant wiring diagram (figure FO-1) for identification of components inside switch box assembly and check.
 - a. Refer to table 5-1 and check continuity of wiring harness W20 (7).

Table 5-1. Wiring Harness W20

Wire Number	From	То
1	XDS1-1	P3-A
2	XDS1-2	P3-B
3	XDS3-2	P3-C
4	S1-3	P3-D
5	S1-5	P3-F
6	S1-6	P3-G
7	S2-6	P3-H
8	S2-5	P3-I
9	S2-3	P3-K
10	XDS4-2	P3-L
11	XDS2-1	P3-M
12	XDS2-2	P3-N
13	S1-3	XDS3-1
14	S2-3	XDS4-1

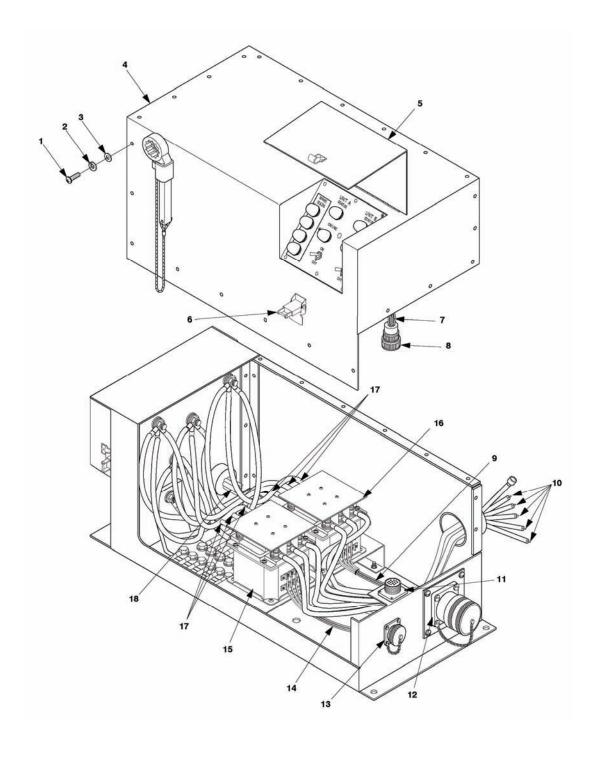


Figure 5-11.1. Switch Box Assembly Test (A Model).

b. Remove electrical connector cover; refer to table 5-2 and check continuity of wiring harness W9 (18).

NOTE

The bus bar is physically connected to L0 of the switch box assembly and is a common ground. Wires connected to bus bar may be connected to any terminal on the bus bar.

Table 5-2. Wiring Harness W9

Wire Number	From	То
1	J1-A	L1
2	J1-B	L2
3	J1-C	L3
4	J1-N	L0
5	J1-G1	BUS BAR
6	J1-G2	BUS BAR
7	J1-G3	BUS BAR
8	J1-G4	BUS BAR

c. Refer to table 5-3 and check continuity of wiring harness W10 (12).

Table 5-3. Wiring Harness W10

Wire Number	From	То
1	J2-A	K2-A1
2	J2-B	K2-B1
3	J2-C	K2-C1
4	J2-N	L0
5	J2-G1	BUS BAR
6	J2-G2	BUS BAR
7	J2-G3	BUS BAR
8	J2-G4	BUS BAR

d. Refer to table 5-4 and check continuity of wiring harness W17 (13).

Table 5-4. Wiring Harness W17

Wire Number	From	То
1	J3-A	K2-12
2	J3-B	K2-Y
3	J3-E	BUS BAR

e. Refer to table 5-5 and check continuity of wire harness W18 (9).

Table 5-5. Wiring Harness W18

Wire Identification	From	То
1	P1-A	K1-12
2	P1-B	K1-Y
3	P1-E	BUS BAR

NOTE

The cannon electrical plug connector for the W7 wiring harness is small. Ensure that multimeter leads are making good contact with the pins of the electrical plug connector.

f. Refer to table 5-6 and check continuity of wiring harness W7 (14).

Table 5-6. Wiring Harness W7

Wire Identification	From	То
1	K1-A1	J4-A
2	Switch Box Assembly L0	J4-B
3	K1-Y	J4-C
4	K1-X	J4-D
5	K1-11	J4-F
6	K1-12	J4-G
7	K2-12	J4-H
8	K2-11	J4-I
9	K2-X	J4-K
10	K2-Y	J4-L
11	K2-A1	J4-M
12	Switch Box Assembly L0	J4-N

g. Refer to table 5-7 and check continuity for each power lead, W1 through W5 (10).

Table 5-7. Input Power Leads

Wire Identification	From	То
W1	K1-A1	Unit A Generator Set L1
W2	K1-B1	Unit A Generator Set L2
W3	K1-C1	Unit A Generator Set L3
W4	Switch Box Assembly L0	Unit A Generator Set LO(N)
W5	BUS BAR	Unit A Generator Set GND

h. Refer to table 5-8 and check continuity for each power lead, W11 through W16 (17).

Table 5-8. Output Power Leads

Wire Identification	From	То
W11	K1-A2	Switch Box Assembly L0
W12	K1-B2	Switch Box Assembly L0
W13	K1-C2	Switch Box Assembly L0
W14	K2-A2	Switch Box Assembly L0
W15	K2-B2	Switch Box Assembly L0
W16	K2-C2	Switch Box Assembly L0

- 4. Test contactor as follows:
 - a. Using a multimeter, test contactor K1 (15, Figure 5-11.1) as follows:
 - (1) Refer to figure 5-12 and perform the following continuity checks. If any multimeter indication is not correct, replace contactor (Paragraph 5-11.1).

Lead Placement

Multimeter Indication
continuity
open circuit

(2) Connect 120 VAC power source to terminals X and Y of contactor.

WARNING

Dangerous voltage exists on live circuits. Always observe precautions and never work alone. Failure to comply with this warning can cause injury or death to personnel.

- (3) Turn on power source.
- (4) Listen for sound of contactor operation; if necessary, have second person listen for contactor operation.
- (5) Perform following continuity checks. If any multimeter indication is not correct, replace contactor (Paragraph 5-11.1).

Lead Placement

Contactor Terminals	Multimeter Indication
32 and 33 21 and 22 11 and 12 A1 and A2 B1 and B2	open circuit continuity continuity continuity continuity
C1 and C2 A1 and B1 B1 and C1 C1 and A1	continuity open circuit open circuit open circuit

- (6) Measure resistance across terminals X and Y of contactor.
- (7) Turn off power source and disconnect lines connected in step a(2).
- b. Repeat steps a(1) through (7) for contactor K2 (16, figure 5-11.1).
- 5. Install two lamps for Unit A and two lamps for Unit B into switch box control panel.
- 6. Reassemble switch box assembly as follows:
 - a. Refer to paragraphs 5-8 through 5-11.2 and repair or replace any defective parts.
 - b. Carefully position switch box cover (4, figure 5-11.1) in front of switch box.

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- c. Connect P3 (8) to J4 (11) and place switch box cover (4) on the switch box assembly.
- d. Install 21 screws (1), flat washers (3), and new lock washers (2) that secure the switch box cover (4) to the switch box assembly.

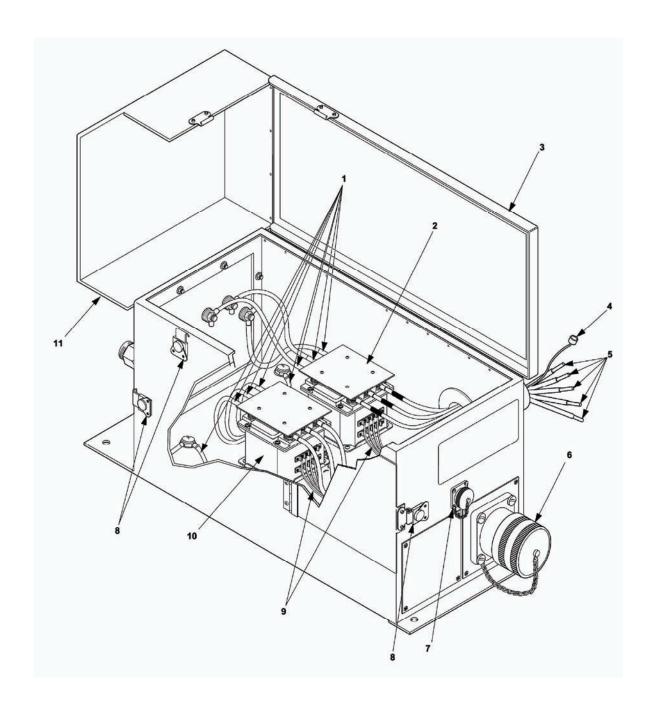


Figure 5-11.2. Switch Box Assembly Test (B&C Models).

TEST (B&C Model)

- 1. Release clamping catches (8, figure 5-11.2), on switch box cover (3) and load terminal cover (11). Lift switch box cover (3).
- 2. Refer to power plant wiring diagram (figure FO-1) for identification of components inside switch box assembly and check.
 - a. Refer to table 5-9. and check continuity of wiring harness W7 (9, figure 5-11.2).

Table 5-9. Wiring Harness W7

Wire Number	From	То
1	XDS1-1	K1-A1
2	XDS1-2	Switch Box Assembly N
3	XDS3-2	K1-Y
4	S1-3	K1-X
5	S1-5	K1-11
6	S1-6	K1-12
7	S2-6	K2-12
8	S2-5	K2-11
9	S2-3	K2-X
10	XDS4-2	K2-Y
11	XDS2-1	K2-A1
12	XDS2-2	Switch Box Assembly N
13	S1-3	XDS3-1
14	S2-3	XDS4-1
15	GND	GND 1

b. Refer to table 5-10 and check continuity of wiring harness W10 (6).

Table 5-10. Wiring Harness W10

Wire Number	From	То
1	J2-A	K2-A1
2	J2-B	K2-B1
3	J2-C	K2-C1
4	J2-N	N
5	J2-G1	GND 2
6	J2-G2	GND 2
7	J2-G3	GND 2
8	J2-G4	GND 2

c. Refer to table 5-11 and check continuity of wiring harness W17 (7).

Table 5-11. Wiring Harness W17

Wire Number	From	То
1	J3-A	K2-12
2	J3-B	K2-Y
3	J3-E	GND 2

d. Refer to table 5-12 and check continuity of wire harness W18 (4).

Table 5-12. Wiring Harness W18

Wire Identification	From	То
1	P1-A	K1-12
2	P1-B	K1-Y
3	P1-E	GND 2

e. Refer to table 5-13 and check continuity of wiring harness W-1 through W-5 (5).

Table 5-13. Input Power Leads

Wire Identification	From	То
W1	K1-A1	Unit A Generator Set L1
W2	K1-B1	Unit A Generator Set L2
W3	K1-C1	Unit A Generator Set L3
W4	Switch Box Assembly N	Unit A Generator Set N
W5	GND 1	Unit A Generator Set GND

f. Refer to table 5-14 and check continuity for each power lead, W-11 through W-16, W21, W22 (1).

Table 5-14. Output Power Leads/Ground Leads

Wire Identification	From	То
W11	K1-A2	Switch Box Assembly L1
W12	K1-B2	Switch Box Assembly L2
W13	K1-C2	Switch Box Assembly L3
W14	K2-A2	Switch Box Assembly L1
W15	K2-B2	Switch Box Assembly L2
W16	K2-C2	Switch Box Assembly L3
W21	GND1	GND2
W22	GND1	GND

- 3. Test contactor as follows:
 - a. Using a multimeter, test contactor K1 (10, Figure 5-11.2) as follows:
 - (1) Refer to figure 5-12 and perform the following continuity checks. If any multimeter indication is not correct, replace contactor (Paragraph 5-11.2).

Lead Placement

Multimeter Indication
continuity
open circuit

(2) Connect 120VAC power source to terminals X and Y of contactor.

WARNING

Dangerous voltage exists on live circuits. Always observe precautions and never work alone. Failure to comply with this warning can cause injury or death to personnel.

- (3) Turn on power source.
- (4) Listen for sound of contactor operation; if necessary, have second person listen for contactor operation.
- (5) Perform following continuity checks. If any multimeter indication is not correct, replace contactor (paragraph 5-11.2).

Lead Placement

Contactor Terminals	Multimeter Indication
32 and 33	open circuit
21 and 22	continuity
11 and 12	continuity
A1 and A2	continuity
B1 and B2	continuity
C1 and C2	continuity
A1 and B1	open circuit
B1 and C1	open circuit
C1 and A1	open circuit

- (6) Measure resistance across terminals X and Y of contactor.
- (7) Turn off power source and disconnect lines connected in step a(2).
- b. Repeat steps a (1) through (7) for contactor K2 (2, figure 5-11.2).
- 4. Reassemble switch box assembly as follows:
 - a. Refer to paragraphs 5-8 through 5-11.2 and repair or replace any defective parts.
 - b. Close the switch box cover (3, figure 5-11.2) and secure clamping catches (8).

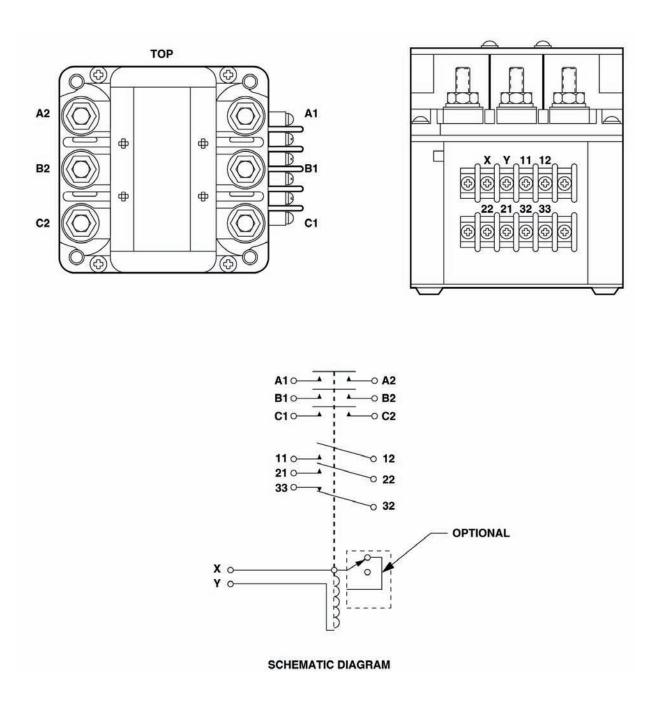


Figure 5-12. Contactor Test Points (A, B, & C Models).

5-8.1 WIRING HARNESS MAINTENANCE (B&C MODELS)

This task covers:

a. Remove

b. Inspect

c. Repaird. Install

Equipment Conditions

INITIAL SETUP

<u>Tools</u>

Reference

Tool Kit, General Mechanic's (Item 4, appendix B)

Both generator sets shut down, paragraph 2-5.3.3, steps a-g.

Materials/Parts Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-8.1.

REMOVE

- 1. Release clamping catches (8, figure 5-11.2) on switch box cover (3).
- Lift switch box cover (3).
- 3. Refer to figure FO-1.1, FO-2.1. Label all leads and plugs at each end of the wiring harness (9) to be replaced.

- 4. Disconnect and tag all leads and plugs.
- 5. Remove wiring harness (9).

INSPECT

Visually inspect wiring harness (9) for damaged or frayed wires, and loose, broken, or corroded connections.

REPAIR

Refer to appendix G and repair or manufacture wiring harness (9).

- 1. Position the new wiring harness (9) in place.
- 2. Connect leads and plugs as indicated on wiring diagram (FO-1).
- 3. Close switch box cover (3) and secure clamping catches (8).

5-8.2 WIRING HARNESS MAINTENANCE (A MODEL)

This task covers:

- a. Remove
- b. Inspect

- c. Repair
- d. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 1, Section III, appendix B)
Crimp Tool (component of item 3, Section III, appendix B)

Equipment Conditions

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g.

Materials/Parts

Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-8.2.

REMOVE

1. Remove screws (1, figure 5-11.1), lock washers (2), and flat washers (3) that secure the switch box cover (4) to switch box assembly. Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. To prevent damage to control panel wiring harness, use caution removing switch box cover. Failure to observe this caution could result in equipment damage.

- 2. Carefully position switch box cover (4) in front of switch box assembly.
- 3. Disconnect P3 (8) from J4 (11) and set switch box cover (4) out of the way.
- 4. Refer to FO-1.1, FO-2.1. Then label all leads and plugs at each end of wiring harness (7) to be replaced.
- 5. Disconnect all leads and plugs.
- 6. Remove wiring harness (7).

INSPECT

Visually inspect wiring harness for damaged or frayed wires, and loose, broken, or corroded connections.

REPAIR

Refer to appendix G and repair or manufacture wiring harness (7).

- 1. Position new wiring harness (7) in place.
- 2. Connect leads and plugs as indicated on wiring diagram (FO-1.1, FO-2.1).
- 3. Connect P3 (8) to J4 (11) and position switch box cover (4) over switch box assembly.
- 4. Install screws (1), flat washers (3), and new lock washers (2) that secure the switch box cover (4) to the switch box assembly.

5-9.1 ELECTRICAL LEADS MAINTENANCE (A MODEL)

This task covers:

a. Remove
b. Inspect
c. Repair
d. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's (item 4, appendix B)

Both generator sets shut down, paragraph 2-5.3.3, steps a-g.

Reference

Materials/Parts

Washers, Lock

REMOVE

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-9.1.

1. Remove screws (1, figure 5-11.1), flat washers (3), and lock washers (2) that secure switch box cover (4) to the switch box assembly. Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. To prevent damage to control panel wiring harness, use caution removing switch box cover. Failure to observe this caution could result in equipment damage.

- 2. Carefully slide switch box cover (4) off switch box and set in front of switch box assembly.
- 3. Disconnect P3 (8) from J4 (11) and set switch box cover (4) out of the way.
- 4. Refer to FO-1. Then label each end of lead to be replaced.
- 5. Disconnect and remove lead.

INSPECT

Visually inspect lead for loose, broken, or corroded connections.

REPAIR

Refer to appendix G, and repair or fabricate lead.

- 1. Position new lead in place.
- 2. Connect lead as indicated on wiring diagram (FO-1.1, FO-2.1).
- 3. Connect P3 (8) to J4 (11) and position switch box cover (4) over switch box assembly.
- 4. Install screws (1), flat washers (3), and new lock washers (2) that secure the switch box cover (4) to the switch box assembly.

5-9.2 **ELECTRICAL LEADS MAINTENANCE (B&C MODELS)**

This task covers:

- a. Remove
- c. Repair d. Install b. Inspect

INITIAL SETUP

Tools **Equipment Conditions**

Tool Kit. General Mechanic's

(item 2, appendix B)

Reference Both generator sets shut down, paragraph 2-5.3.3, steps a-g.

Materials/Parts

Washers, Lock

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-9.2.

REMOVE

- 1. Release clamping catches (8, figure 5-11.2) on switch box cover (3).
- Lift switch box cover (3).
- 3. Refer to FO-1.1, FO-2.1. Label each end of lead to be replaced.

4. Disconnect and remove lead.

INSPECT

Visually inspect lead for loose, broken, or corroded connections.

REPAIR

Refer to appendix G and repair or fabricate lead.

- 1. Position new lead in place.
- 2. Connect lead as indicated on wiring diagram (FO-1.1, FO-2.1).
- 3. Close switch box cover (3) and secure clamping catches (8).

5-10 BUS BAR MAINTENANCE (A MODEL)

This task covers:

- a. Inspect
- b. Remove

- c. Repair
- d. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's

(component of item 4, appendix B)

Materials/Parts

Washers, Lock

Reference

Both generator sets shut down, Paragraph 2-5.3.3, steps a-g.

NOTE

The Bus Bar is not a component of the B&C Model switch boxes.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-10.

INSPECT

Visually inspect for corrosion, damage, or for loose or missing hardware.

REMOVE

1. Remove screws (1, figure 5-11.1), flat washers (3), and lock washers (2) that secure the switch box cover (4) to the switch box assembly. Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. To prevent damage to control panel wiring harness, use caution removing switch box cover. Failure to observe this caution could result in equipment damage.

- 2. Carefully position switch box cover (4) in front of switch box assembly.
- 3. Disconnect P3 (8) from J4 (11) and set switch box cover (4) out of the way.

NOTE

The bus bar is physically connected to L0 of the switch box assembly and is a common ground. Leads connected to bus bar may be connected to any terminal on the bus bar.

- 4. Remove cap screws (4, figure 5-13), lock washers (10), flat washers (9), and electrical leads (5) from bus bar (1). Discard lock washers (10).
- 5. Remove nut (3) and lock washer (2).
- 6. Remove nut (6), lock washer (7), and flat washer (8). Discard lock washer (7).
- 7. Remove bus bar (1).

REPAIR

- 1. Disconnect and label electrical leads (5) connected to bus bar (1).
- 2. Remove defective insert (11).
- 3. Using a suitable insertion tool, rotate handle counter-clockwise until you can install insert (11) into barrel with tang toward hole.
- 4. Turn handle clockwise until one thread of insert (11) protrudes from hole.
- 5. Position over bus bar (1) and turn handle clockwise until insert (11) is installed.
- 6. Turn handle counter-clockwise to remove insertion tool.
- 7. Install small punch into hole until it contacts tang. Break off and remove tang.

- 1. Position bus bar (1, figure 5-13) in place.
- 2. Install flat washer (8), new lock washer (7), and nut (6).

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- 3. Install lock washer (2) and nut (3).
- 4. Install electrical leads (5), flat washers (9), new lock washers (10), and cap screws (4).
- 5. Connect P3 (8, figure 5-11.1) to J4 (11) and position switch box cover (4) over switch box assembly.
- 6. Install flat washers (3), lock washers (2), and screws (1) that secure the switch box cover (4) to the switch box assembly.

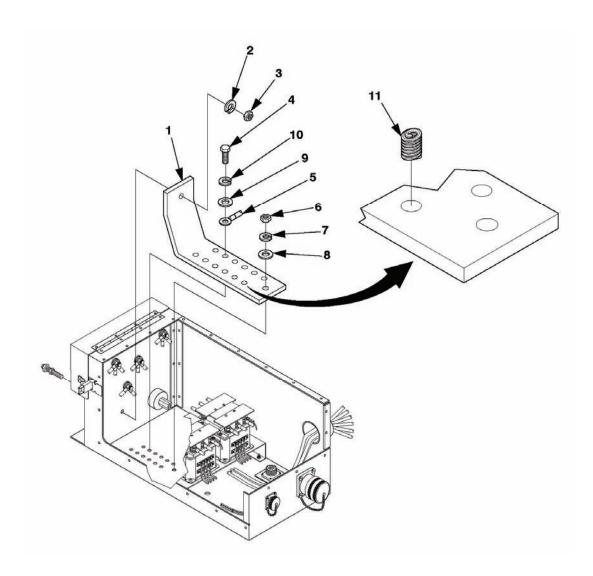


Figure 5-13. Bus Bar Maintenance (A Model).

5-11.1 CONTACTOR MAINTENANCE (A MODEL)

This task covers:

- a. Remove
- b. Install
- c. Test

INITIAL SETUP

Tools

Equipment Conditions

Tool Kit, General Mechanic's (item 1, appendix B)

Reference Both generator sets shut down, para 2-5.3.1, paragraph 2-5.3.3, steps a-g.

Materials/Parts

Washers, Lock Contactor

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-11.1.

REMOVE

1. Remove screws (1, figure 5-14.1), lock washers (2), and flat washers (3) that secure switch box cover (4) to switch box assembly. Discard lock washers (2).

CAUTION

The control panel connector P3 is connected to connector J4. Movement of the switch box cover is limited. To prevent damage to control panel wiring harness, use caution removing switch box cover. Failure to observe this caution could result in equipment damage.

- 2. Carefully position switch box cover (4) in front of switch box assembly.
- 3. Disconnect P3 (5) from J4 (6) and set switch box cover (4) out of the way.
- 4. Remove screws (7) and one terminal shield (8) from the contactor (9).
- 5. Remove nuts (10) and flat washers (11). Tag and remove leads from contactor (9).
- 7. Remove terminal screws (12) and flat washers (13). Tag and remove wiring harnesses from contactor (9).
- 8. Remove nuts (14), lock washers (18), screws (15), flat washers (16), and contactor (9). Discard lock washers (18).

INSTALL

- 1. Position new contactor (9) over mounting holes in bracket (17).
- 2. Install a flat washer (16) on each screw (15).
- 3. Install screws (15), flat washers (16), new lock washers (18), and nuts (14) to secure contactor (9).
- 4. Remove screws (7) and terminal shield (8) from the new contactor (9).
- 5. Connect wiring harness and electrical leads. Install washers (13 and 11), screws (12), and nuts (10).
- 6. Install terminal shield (8) on new contactor (9) and secure with screws (7).
- 7. Connect P3 (5) to J4 (6) and position switch box cover (4) over switch box assembly.
- 8. Install flat washers (3), new lock washers (2), and screws (1) that secure the switch box cover (4) to the switch box assembly.

TEST

Refer to paragraph 5-7.

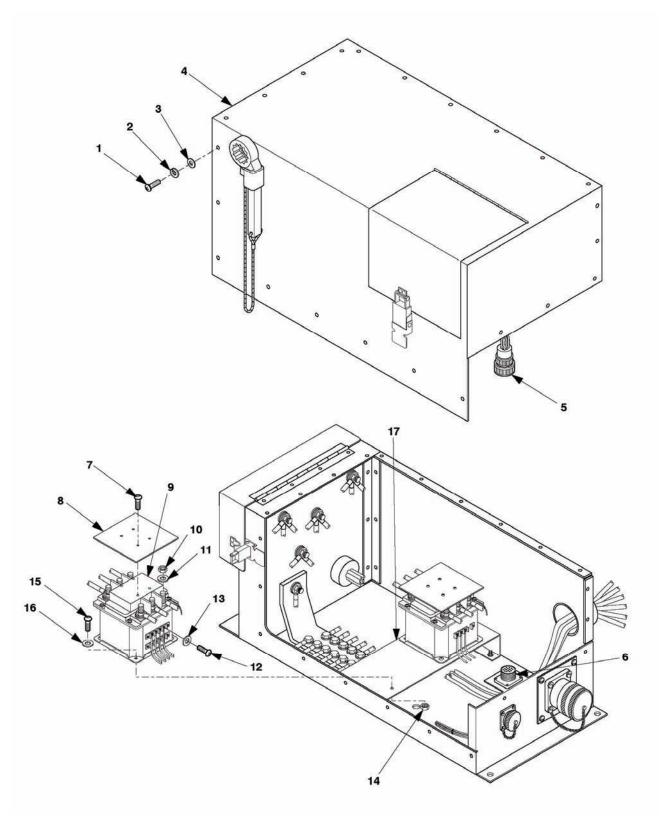


Figure 5-14.1. Contactor Maintenance (A Model).

5-11.2 CONTACTOR MAINTENANCE (B&C MODELS)

This task covers:

- a. Remove
- b. Install
- c. Test

INITIAL SETUP

<u>Tools</u>

Equipment Conditions

Tool Kit, General Mechanic's (component of item 1, appendix B)

Reference Both generator sets shut down, para 2-5.3.1, paragraph 2-5.3.3, steps a-q.

Materials/Parts

Washers, Lock Contactor

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

High voltage is produced when the generator set is in operation. Make sure unit or units are completely shut down and free of any power source before attempting any repair or maintenance on the unit, switch box or when connecting or disconnecting load cables. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Shut down generator sets before performing internal inspection of switch box. Failure to comply with this warning could cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-11.2.

REMOVE

- 1. Release clamping catches (1, figure 5-14.2) on switch box cover (2).
- 2. Lift switch box cover (2).
- 3. Remove screws (10) and terminal shield (11) from the contactor (9).

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- 4. Remove nuts (7) and flat washers (6). Tag and remove six leads from contactor (9).
- 5. Remove terminal screws (4) and flat washers (5). Tag and remove wiring harnesses from contactor (9).
- 6. Remove screws (12), lock washers (3), flat washers (13), and contactor (9). Discard lock washers (3).

INSTALL

- 1. Position new contactor (9) over mounting holes in bracket (8).
- 2. Install a flat washer (13) and lock washer (3) on each screw (12).
- 3. Install screws (12) with new lock washers (3) and flat washers (13) to secure contactor (9).
- 4. Remove screws (10) and terminal shield (11) from new contactor (9).
- 5. Connect wiring harness and six electrical leads (14). Install flat washers (5 and 6), screws (4), and nuts (7).
- 6. Install terminal shield (11) on new contactor (9) and secure with screws (10).

TEST

Refer to paragraph 5-7.

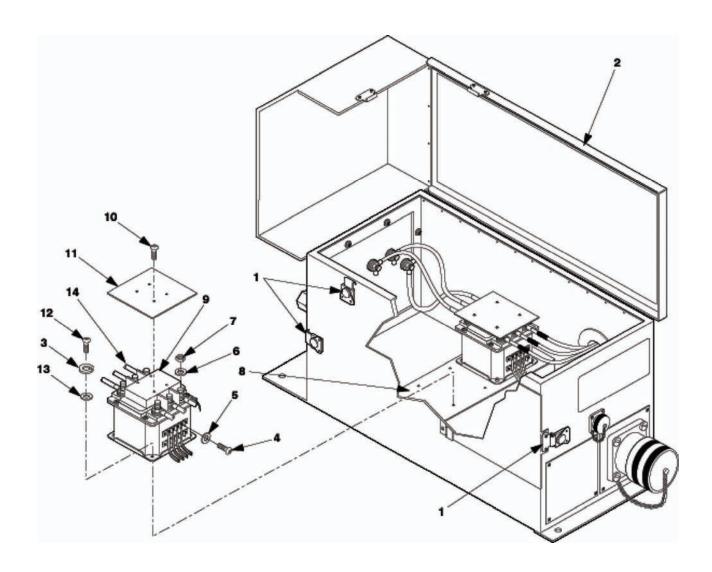


Figure 5-14.2. Contactor Maintenance (B&C Models).

5-12 2 1/2 TON TRAILER FUEL DRAIN ASSEMBLY MAINTENANCE

This task covers: a. Remove

b. Repair

c. Install

INITIAL SETUP

<u>Tools</u>

Tool Kit, General Mechanic's (item 4, appendix B)

Equipment Conditions

Reference

Generator set removed,

paragraph 5-6.

Trailer support devices are lowered,

paragraph 2-3.2.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Fuels used in the generator set are flammable. Do not smoke or use open flames when performing maintenance. Failure to comply with this warning can cause injury or death to personnel, and damage to the generator set.

WARNING

Diesel fuel is flammable and toxic to eyes, skin, and respiratory tract. Skin and eye protection are required when working in contact with diesel fuel. Avoid repeated or prolonged contact. Provide adequate ventilation. Operators are to wash exposed skin and change chemical soaked clothing promptly if exposed to fuel. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-12.

REMOVE

- 1. Close valve (9 (P/O generator set), figure 5-15).
- 2. Close drain cock valve (4, figure 5-15) and remove cap (2) from fuel drain assembly.
- 3. Place container beneath fuel drain assembly.

- 4. Disconnect hose fittings (3) from drain cock valve (4).
- 5. Remove hose assembly (1).
- 6. Remove drain cock valve (4), retaining nut (6), and flat washer (5) from tube nipple (7).
- 7. Remove tube nipple (7).

REPAIR

Refer to appendix G and replace fuel drain assembly.

- 1. Position tube nipple (7) on the hose fitting (8).
- 2. Install flat washer (5) on tube nipple (7).
- 3. Install tube nipple (7), with flatwasher (5), through mounting hole and secure with retaining nut (6).
- 4. Install drain cock valve (4) on tube nipple (7).
- 5. Install hose assembly (1) and tighten hose fittings (8).
- 6. Install hose fitting (3) and tube cap (2) on drain cock valve (4).
- 7. Close drain cock valve (4) and open valve (9).

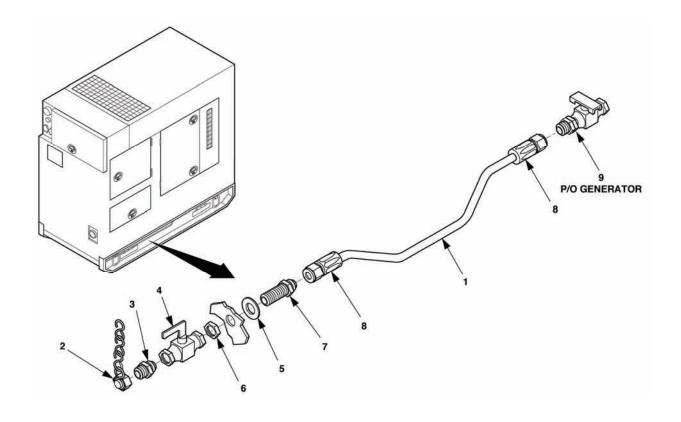


Figure 5-15. Fuel Drain Assembly Replacement

5-13.1 1 TON TRAILER GENERATOR MOUNTING RAIL MAINTENANCE (PU-801 AND AN/MJQ-48 ONLY)

This task covers:

a. Remove

b. Install

INITIAL SETUP

Materials/Parts

Nuts, Self-Locking

Tools Equipment Conditions

Tool Kit, General Mechanic's Reference

(item 4, appendix B) Trailer handbrakes set, front support leg/landing leg,

Lowered, and rear leveling-support jack lowered

paragraph 2-3.2.1.

Generator set removed, paragraph 5-6. Accessory box removed, paragraph 4-19.

Front platform removed, paragraph 4-25.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-13.1.

REMOVE

- 1. Remove ten self-locking nuts (5, figure 5-16), twenty flat washers (3 and 4), and ten cap screws (2) from each generator mounting rail (1). Discard self-locking nuts (5).
- 2. Lift generator mounting rails (1) off trailer frame (6). Save generator mounting rails (1)
- 3. Remove two locknuts (7), four flat washers (8), two bolts (9), and bracket (10).

- 1. Install bracket (10, figure 5-16), using two bolts (9), four flat washers (8), and two locknuts (7).
- 2. Place generator mounting rails (1) on trailer frame (6). Align mounting holes in generator mounting rails (1) with mounting holes in trailer frame (6).
- 3. Place a flat washer (3) on each cap screws (2). Insert cap screws (2) through mounting holes in generator mounting rails (1) and trailer frame (6).
- 4. Install a flat washer (4) and a new self-locking nut (5) on each of ten cap screws (2).

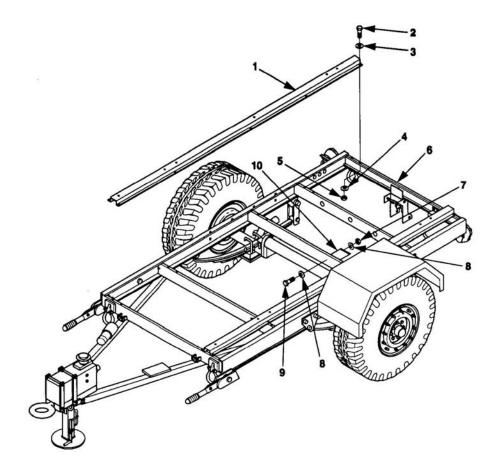


Figure 5-16. Generator Mounting Rails on 1 Ton Trailer.

5-13.2 LTT TRAILER GENERATOR MOUNTING RAIL MAINTENANCE (PU-801A AND AN/MJQ-48A ONLY)

This task covers:

a. Remove

b. Repair

c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 4, appendix B)

Rivet Gun (item 7, appendix B)

Drill (item 6, appendix B)

Materials/Parts

Rivets (items 8, 9, and 10, appendix I)

Equipment Conditions

Reference

Trailer handbrakes set, front support leg/landing leg, Lowered, and rear leveling-support jack lowered

paragraph 2-3.2.1.

Generator set removed, paragraph 5-6, Center floor removed, paragraph 5-16.1.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-13.2.

REMOVE

Remove rivets (1 and 2, figure 5-17) and mounting rail (3) from trailer chassis (4).

REPAIR

Repair the generator mounting rails consists of replacing rivets (5) and double plates (6 and 7), and rivets (8) and angle supports (9 and 10).

INSTALL

Place mounting rail (3) on trailer chassis (4) and secure with rivets (1 and 2).

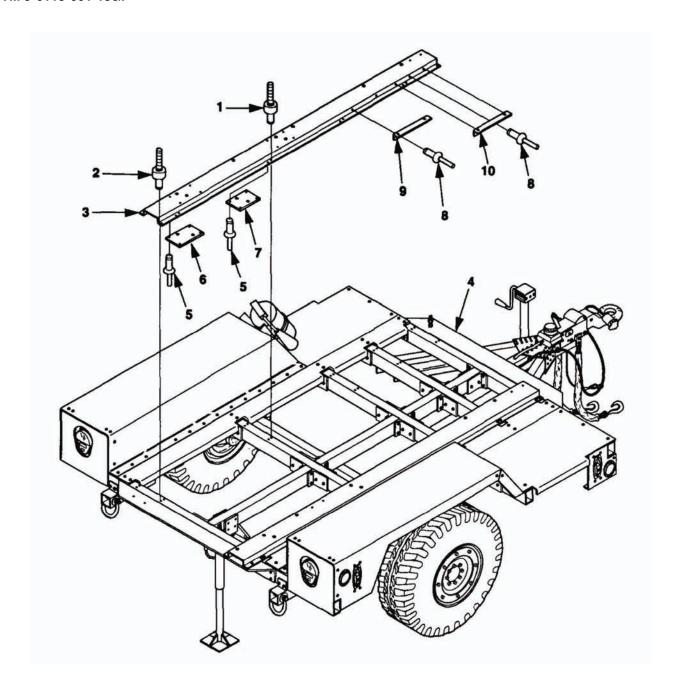


Figure 5-17. PU-801A and AN/MJQ-48A Generator Mounting Rail Replacement.

5-14 TRAILER MODIFICATIONS REPAIR (PU-800, PU-801, PU-802, AN/MJQ-39 AND AN/MJQ-48 ONLY)

Repair of the rear steps, fender, front steps and front platform is limited to bending, straightening, and welding. Refer to TM 9-237 for repair procedures.

5-15 PU-801A AND AN/MJQ-48A FLOOR AND FENDER MAINTENANCE

This task covers:

a. Remove

b. Repair

c. Install

INITIAL SETUP

Tools Equipment Conditions

Tool Kit, General Mechanic's (item 4, appendix B)

Rivet Gun (item 7, appendix B)

Materials/Parts

Reference

Trailer handbrakes set, front support leg/landing leg lowered, and rear leveling-support jack lowered,

paragraph 2-3.2.1.

Generator set removed, paragraph 5-6.

Rivets (items 6 and 7, appendix I)

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-15.

REMOVE

1. Floors.

NOTE

PU-801A trailer has center and side floors or platforms riveted to the trailer. The side floors are in two sections

Remove rivets (1, figure 5-18) and floor sections (2) from trailer chassis (3).

- 2. Fenders.
 - a. If necessary, remove the following:
 - (1) Data plate (paragraph 4-29)
 - (2) Fire extinguisher and bracket (paragraph 4-28)
 - (3) Side marker light and reflector (TM 9-2330-392-14&P)

b. Remove rivets (1, figure 5-19) and fender (2) from trailer chassis (3).

REPAIR

1. Floors.

Repair of floors consists of welding, straightening, and spot painting as required.

2. Fenders.

Repair of fenders consists of welding, straightening, and spot painting as required, and replacement of rivets (4, figure 5-19), fender angle support (5), and tail light bracket (6).

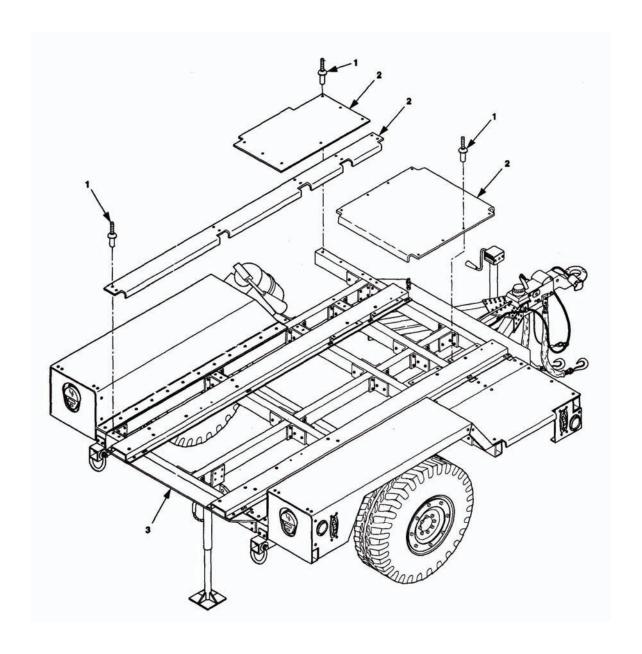


Figure 5-18. PU-801A and AN/MJQ-48A Floor Maintenance.

INSTALL

1. Floors.

Place floor sections (2, figure 5-18) on trailer chassis (3) and secure with rivets (1).

- 2. Fenders.
 - a. Place fender (2, figure 5-19) on trailer chassis (3), and secure with rivets (1).
 - b. If removed, install the following:
 - (1) Data plate (paragraph 4-22).
 - (2) Fire extinguisher and bracket (paragraph 4-20)
 - (3) Side marker light (TM 9-2330-392-14&P)

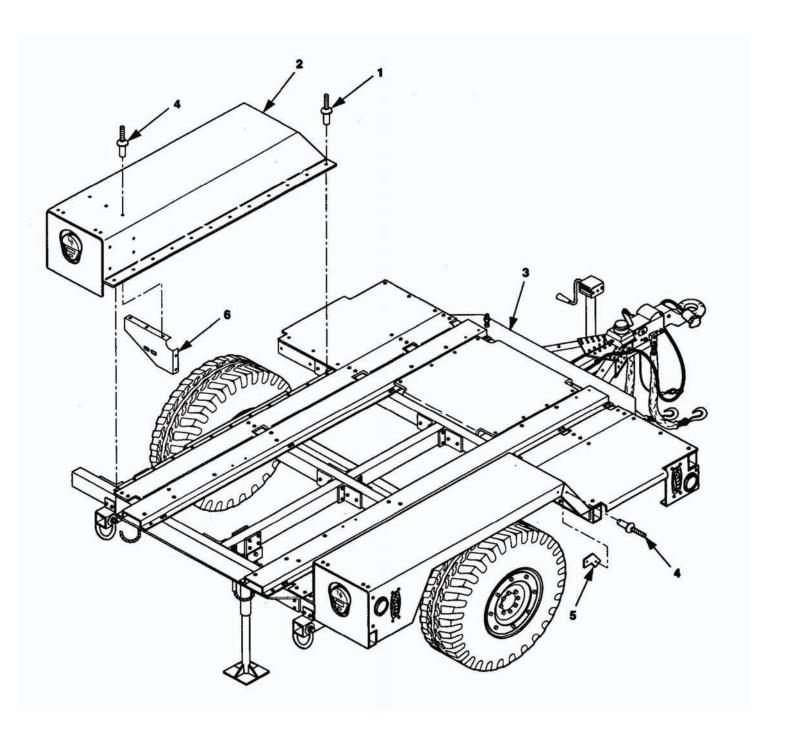


Figure 5-19. PU-801A and AN/MJQ-48A Fender Replacement.

5-16 LTT TRAILER REAR LEVELING-SUPPORT JACK MAINTENANCE

This task covers:

a. Remove

b. Repair

c. Install

INITIAL SETUP

Tools

Tool Kit, General Mechanic's (item 4, appendix B)
Jack Stand (item 2, appendix B)
Rivet Gun (item 7, appendix B)

Materials/Parts

Pin, Cotter Fitting, Lubrication (if needed) Grease, GAA (item 2, appendix E) Rivets (item 11, appendix 1)

Equipment Conditions

Reference

Trailer handbrakes set, front support leg/landing leg lowered, and rear leveling-support jack lowered paragraph 2-3.2.1.

Both generator sets shut down, paragraph 2-5.3.3.

WARNING

All metal jewelry can conduct electricity and become entangled in generator set components. Remove all jewelry when working on generator set. Failure to comply with this warning can cause injury or death to personnel.

WARNING

DO NOT wear loose clothing when performing checks, services and maintenance. Failure to comply with this warning can cause injury or death to personnel.

WARNING

Before removing trailer leveling-support jack, support rear of trailer with jack stand(s). Failure to comply with this warning can cause injury or death to personnel.

NOTE

The above warnings apply to all procedures listed in paragraph 5-16.

REMOVE

- 1. Support rear of trailer with jack stands.
- 2. Turn leg base (1, figure 5-20) to take weight off leg prop.
- 3. Remove either one of two cotter pins (2 or 3) from pivot shaft (4) and discard cotter pin.
- 4. Hold leg base (1) steady and remove pivot shaft (4) with remaining cotter pin in place.
- 5. Lift leg base (1) slightly to take weight off retaining pin (5) and remove retaining pin (5). Move leg base (1) and attached parts out of bracket (7).

TM 9-6115-661-13&P

6. Remove three rivets (6) and bracket (7) from trailer chassis (8).

REPAIR

Refer to paragraph 4-27.

INSTALL

- 1. Install bracket (7, figure 5-20) on trailer chassis (8), with three rivets (6)
- 2. Position leg base (1) and attached parts in bracket (7) and install retaining pin (5).
- 3. Position leg base (1) and install pivot shaft (4).
- 4. Install new cotter pin (2 or 3) in pivot shaft (4).
- 5. Lube rear leveling-support jack.

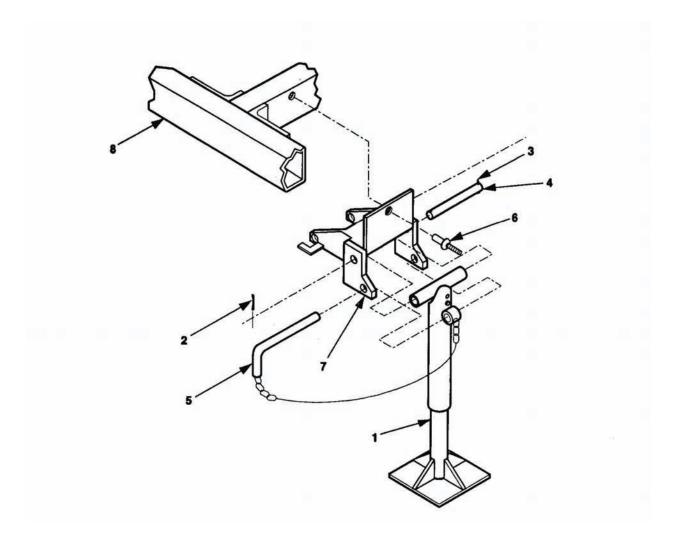


Figure 5-20. Rear Leveling-Support Jack Replacement; LTT Trailer

REFERENCES

A-1 SCOPE.

This appendix lists all forms, regulations, pamphlets, specifications, standards, technical manuals, technical bulletins, lubrication orders, field manuals, and miscellaneous publications referenced in this TM.

A-2 FORMS.

Recommended Changes to Publications and Blank Forms. Recommended Changes to Equipment Technical Publications. Hand Receipt. Depreservation Guide for Vehicles and Equipment. Equipment Inspection and Maintenance Worksheet. Maintenance Request. Equipment Log Assembly (Records). Equipment Control Record. Oil Analysis Log. Equipment Inspection and Maintenance Worksheet. Preventive Maintenance Schedule and Record. Accident Identification Card. Processing and Deprocessing Record for Shipment, Storage, and Issue of Vehicles and Spare Engines. Motor Vehicle Accident Report. Transportation Discrepancy Report. Report of Discrepancy. Product Quality Deficiency Report.	DA Form 2028 DA Form 2028-2 DA Form 2062 DA Form 2258 DA Form 2404 DA Form 2407 DA Form 2408-9 DA Form 2408-20 DA Form 5988-E DD Form 314 DD Form 518 DD Form 1397 SF Form 91 SF Form 364 SF Form 368
A-3 ARMY REGULATIONS.	
Dictionary of United States Army Terms	AR 310-25
A-4 DEPARTMENT OF THE ARMY PAMPHLETS.	
The Army Maintenance Management System (TAMMS)	DA PAM 738-50
A-5 MILITARY SPECIFICATIONS.	
Cables (Power and Special-Purpose) and Wire, Electrical (300 and 600 Volts) Connectors, Plugs, and Receptacles, Electrical, Waterproof, Quick Disconnect, Heavy Duty Type, General Specification for Electrical Wiring, Procedures for Insulation Sleeving, Electrical, Heat Shrinkable, Polyolefin, Flexible, Crosslinked Wire, Electrical, Polyvinyl Chloride Insulated; PVC-Glass-Nylon, Tin Coated Copper Conductor, 600 Volt, 105°C	MIL-C-3432 MIL-C-22992E MIL-E-45782C MIL-I-23053/5 MIL-W-5086/2(C)1
A-6 COMMERCIAL ITEM DESCRIPTIONS.	
Panels, Wood/Wood-Based, Construction and Decorative	A-A-55057 A-A-1051 ASTM-D6251 (PPP-B-601)

REFERENCES (CONT'D)

Standard Specification for Pressure-Sensitive Tape for Packing, Box Closure, and Sealing	ASTM-D5486/D5486M ASTM-D3953-87 PPP-G-2919 ASME-Y14.38M
A-7 MILITARY STANDARDS.	
Marking for Shipment and Storage. Identification Marking of U.S. Military Property Standard Requirements for Soldered Electrical and Electronic Assemblies. Preservation, Methods of. General Guidelines for Electronic Equipment Corrosion and Corrosion Prevention Metals Requirements for Soldering Fluxes Requirements for Soldering Pastes Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications.	MIL-STD-129P MIL-STD-130L MIL-STD-2000 MIL-STD-2073-1 MIL-HDBK-454A MIL-HDBK-729 J-STD-004 J-STD-005
A-8 TECHNICAL MANUALS.	
Procedures for Destruction of Equipment to Prevent Enemy Use (Mobility Equipment Command)	TM 750-244-3
Operator's Unit, Direct Support and General Support Maintenance Manual (Include Tools List), TRAILER, CARGO: ¾-Ton, 2-wheel M101A1 (NSN 2330-00-898-6779) M101A2 (NSN 2330-01-101-4697) M101A3 (NSN 2330-01-372-5641)	ding Repair Parts and Special
TRAILER, CHASSIS: ¾-Ton, 2-wheel M116A1 (NSN 2330-00-898-6780) M116A2 (NSN 2330-01-101-8434) M116A2E1 (2330-01-333-9773)	
TRAILER, CHASSIS: 1-Ton, 2-wheel M116A3 (2330-01-359-0080)	TM 9-2330-202-14&P
Operator's Unit, Direct Support and General Support Maintenance Manual (Include Tools List), TRAILER, CARGO: LIGHT, 2-wheel M1101 (NSN 2330-01-387-5443) TRAILER, CARGO: HEAVY, 2-wheel	ding Repair Parts and Special
M1102 (NSN 2330-01-387-5426) TRAILER, CHASSIS: 2-wheel	TM 0 0000 000 1405
NSN 2330-01-387-5424	TM 9-2330-392-14&P

REFERENCES (CONT'D)

Operator's Unit, Direct Support and General Support Maintenance Manual (Including Tools List),	ng Repair Parts and Special
TRAILER, CHASSIS: 2 ½-Ton, 2-wheel M200A1 (NSN 2330-00-331-2307)	TM 9-2330-205-14&P
Organizational, Direct Support, and General Support Maintenance. Care, Maintenar Tires and Inner Tubes	nce and Repair of Pneumatic TM 9-2610-200-24
Operator's Manual, Generator Set, Skid-Mounted, Tactical Quiet, 15 kW, 50/60 and 4 MEP-804A (50/60 Hz) (NSN 6115-01-274-7388)	00 Hz,
MEP-814A (400 Hz) (NSN 6115-01-274-7393)	TM 9-6115-643-10
Unit, Direct Support and General Support Maintenance Manual for Generator Set, S 15 kW, 50/60 and 400 Hz, MEP-804A (50/60 Hz) (NSN 6115-01-274-7388)	Skid-Mounted, Tactical Quiet,
MEP-814A (400 Hz) (NSN 6115-01-274-7393)	TM 9-6115-643-24
Unit, Direct Support and General Support Maintenance Manual for Repair Parts and Set, Skid-Mounted, Tactical Quiet, 15 kW, 50/60 and 400 Hz, MEP-804A (50/60 Hz) (NSN 6115-01-274-7388)	Special Tools List: Generator
, , ,	TM 9-6115-643-24P
Unit, Direct Support and General Support Maintenance Instructions, Diesel Engine, M 4 Cylinder, 2.4 Liter, NSN: 2815-01-350-2207	lodel C-240PW-28, TM 9-2815-254-24
Unit, Direct Support and General Support Maintenance Manual, Repair Parts and Spe Diesel Engine, NSN 2815-01-350-2207, Model C-240PW-28, 4 Cylinder, 4 Cycle,	,
Fuel Injected	TM 9-2815-254-24P
Operator Welding Theory and Operation	TM 9-237
A-9 TECHNICAL BULLETINS.	
Installation of Communications Electronic Equipment: Hookup of Electrical Cables Fielded Equipment to Meet Electrical Safety Standards	to Mobile Generator Sets on TB 43-0125
A-10 LUBE ORDERS.	
Generator Set, Skid Mounted, Tactical Quiet 15KW, 50/60 and 400Hz MEP-804A, Tactical Quiet, 50/60Hz, NSN 6115-01-274-7388 MEP-814A, Tactical Quiet, 400Hz, NSN 6115-01-274-7393	LO 9-6115-643-12
A-11 FIELD MANUALS.	
Chemical and Biological Contamination Avoidance NBC Protection NBC Decontamination First Aid Camouflage	FM 3-3 FM 3-4 FM 3-5 FM 4-25.11 FM 5-20

REFERENCES (CONT'D)

Operation and Maintenance of Ordnance Materiel in Cold Weather (0° to –65°) Electrical Power Generation in the Field	FM 9-207 FM 20-31 FM 21-6
Military Symbols	FM 21-30 FM 21-40
Manual for Wheeled Vehicle Driver Basic Cold Weather Manual	FM 21-305 FM 31-70
Northern Operations Mountain Operations	FM 31-71 FM 90-6
A-12 MISCELLANEOUS PUBLICATIONS.	

APPENDIX B

OPERATOR AND FIELD MAINTENANCE TWO-LEVEL MAINTENANCE ALLOCATION CHART (MAC)

Section 1. INTRODUCTION

B-1 The Army Maintenance System MAC

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

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

Field Level – includes three subcolumns, C (operator/crew), O (unit) maintenance, and F (direct support).

Sustainment Level – includes two subcolumns, H (general support) and D (depot).

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

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

B-2 Maintenance Functions

Maintenance functions are limited to and defined as follows:

- 1. <u>Inspect</u>. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g. by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.
- 2. <u>Test</u>. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- 3. <u>Service</u>. Operations required periodically to keep an item in proper operating condition; e.g., to mark (restore obliterated identification), to clean (includes decontaminate, when required), to preserve, to drain, to touchup paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms.
- 4. <u>Adjust</u>. 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. <u>Calibrate</u>. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of, which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- 7. <u>Removal/Install</u>. To remove and install the same item when required to perform a service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

B-2 Maintenance Functions - Continued

- 8. **Replace**. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance, and Recoverability (SMR) code.
- 9. **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/ installation, disassembly/assembly procedures, painting, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

Services. Inspect, test, service, adjust, align, calibrate, and/or replace.

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

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

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

- 10. <u>Overhaul</u>. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR/NMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- 11. <u>Rebuild</u>. 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.

B-3 Explanation of Columns in the MAC

<u>Column (1) Group Number</u>. Column (1) lists functional group code (FGN) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

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

<u>Column (3) Maintenance Function</u>. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above).

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

Field:

C - Operator or Crew maintenance

O - Unit maintenance

F - Direct Support maintenance

B-3 Explanation of Columns in the MAC - Continued

Sustainment:

- L Specialized Repair Activity (SRA)
- H General Support maintenance
- D Depot maintenance

NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a 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.

<u>Column (5) Tools and Test Equipment Reference Code</u>. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), 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.

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

B-4 Explanation of Columns in the Tools and Test Equipment Requirements

<u>Column (1) - Tool or Test Equipment Reference Code</u>. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

<u>Column (2) - Maintenance Level</u>. The lowest level of maintenance authorized to use the tool or test equipment under the two-level MAC.

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, model number, or type number.

B-5 Explanation of Columns in the Remarks

Column (1) - Remarks Code. The code recorded in column (6) of the MAC.

<u>Column (2) - Remarks</u>. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

Section II. MAINTENANCE ALLOCATION CHART FOR

POWER UNITS PU-800, PU-801, PU-801A, PU-802, POWER PLANTS AN/MJQ-39, AN/MJQ-48, AND AN/MJQ-48A

(1)	(2)	(3)		(4) Maintenance Level			(5)	(6)	
			Field		eld Sustainment		ment		
			U	nit	Direct Support	General Support	Depot		
Group Number	Component/Assembly	Maintenance Function	С	0	F	н	D	Tools and Equipment Reference Code	Remarks Code
00	POWER PLANT/POWER UNIT	INSPECT	0.4						J
0100	GENERATOR SET	INSPECT TEST SERVICE ADJUST REPAIR REMOVE/INSTALL REPLACE	0.2	1.0	1.0 1.5 1.5 1.5			1,2 1,2	J F,G E,F,G F,G E,F,G E,F,H
0200	ELECTRICAL SYSTEM	INSPECT	0.5						J
0201	CABLE ASSEMBLY, W19	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE	0.1	0.1 0.3 0.3	0.6			1,2,4 1,2	J K I
0202	SWITCH BOX ASSEMBLY (A, B, & C SWITCH BOXES)	INSPECT REMOVE/INSTALL REPAIR REPLACE TEST	0.1	0.1 0.5 0.3 0.5	1.0 0.5			1 1 1	J I
020201	LOAD TERMINAL WRENCH ASSEMBLY (A, B, & C SWITCH BOXES)	INSPECT REMOVE/INSTALL REPLACE		0.1 0.2 0.2				1	J I
020202	CONTROL PANEL ASSEMBLY (A, B, & C SWITCH BOXES)	INSPECT REMOVE/INSTALL REPLACE REPAIR	0.1	0.1	1.0 1.0			1	J I
02020201	LEADS/HARNESSES, W20 (A SWITCH BOX ONLY)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.9 0.4			1,2 1,2	K I
02020202	LIGHT, INDICATOR (A, B, & C SWITCH BOXES)	REMOVE/INSTALL TEST REPLACE		0.2 0.2 0.2				1,2 1,2,4 1,2	I
020203	TERMINALS, LOAD (A, B, & C SWITCH BOXES)	INSPECT REMOVE/INSTALL REPAIR REPLACE	0.1	0.5 0.2 0.5				1 1 1	J
020204	LEADS/HARNESSES, W9 (A SWITCH BOX ONLY)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.8 0.4			1,2 1,2 1	K I

Section II. MAINTENANCE ALLOCATION CHART FOR POWER UNITS PU-800, PU-801, PU-801A, PU-802, POWER PLANTS AN/MJQ-39, AN/MJQ-48, AND AN/MJQ-48A (Continued)

(1)	(2)	(3)	(4) Maintenanc				(5)	(6)	
				Field		Sustainment			
			Unit		Direct Support	General Support	Depot		
Group Number	Component/Assembly	Maintenance Function	С	0	F	н	D	Tools and Equipment Reference Code	Remarks Code
020205	LEADS/HARNESSES, W10 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.8 0.4			1,2 1 1,2 1	J K I
020206	LEADS/HARNESSES, W17 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.8 0.4			1,2 1 1,2 1	J K I
020207	LEADS/HARNESSES, W7 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.8 0.4			1,2 1 1,2	J K I
020208	LEADS/HARNESSES, W11-W16, W21, W22 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.8 0.4			1,2 1 1,2 1	J K I
020209	BUS BAR GROUNDING (A SWITCH BOX ONLY)	INSPECT REMOVE/INSTALL REPAIR REPLACE			0.1 0.5 0.8 0.5			1 1 1	J
020210	CONTACTOR (A, B, & C SWITCH BOXES)	REMOVE/INSTALL TEST REPLACE			0.5 0.2 0.5			1 1,2,5 1	ı
020211	POWER LEADS, W1-W5 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.5 1.0 0.5			1,2 1 1,3	A,B,C,J
020212	POWER SWITCH HARNESS, W18 (A, B, & C SWITCH BOXES)	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.2 0.2 0.2			1,2 1 1,3	J
020213	SWITCH BOX SUPPORT	INSPECT REMOVE/INSTALL REPLACE		0.1 0.2 0.2				1	J

Section II. MAINTENANCE ALLOCATION CHART FOR POWER UNITS PU-800, PU-801, PU-801A, PU-802, POWER PLANTS AN/MJQ-39, AN/MJQ-48, AND AN/MJQ-48A (Continued)

(1)	(2)	(3)	(4) Maintenance Lev		vel		(5)	(6)	
				Field		Sustainment			
			Ur	nit	Direct Support	Gener al Suppo rt	Depot		
Group Number	Component/Assembly	Maintenance Function	С	0	F	н	D	Tools and Equipment Reference Code	Remarks Code
0300	ACCESSORIES	INSPECT	0.1						J
0301	OIL DRAIN AND FIRE EXTINGUISHER	INSPECT	0.1	0.1					J
0302	FUEL DRAIN ASSEMBLY	INSPECT REMOVE/INSTALL	0.1		0.3 0.3			1	J
		REPAIR			0.3			1	G, K
		REPLACE			0.3 0.3 0.3			1	I
0400	TRAILER ASSEMBLY	INSPECT	0.2	0.2					J
0401	REAR STEPS	INSPECT REMOVE/INSTALL REPAIR REPLACE	0.1	0.1 0.5 0.5	1.0			1 1,3 1	A, B, C, J H
0402	ACCESSORY BOX	INSPECT REMOVE/INSTALL REPAIR REPLACE	0.1	0.2 0.5 0.2				1 1,3 1	J
0403	FENDERS	INSPECT REMOVE/INSTALL REPAIR REPLACE	0.1	1.0	1.0			1,7 1,3 1,7	J
0404	BRAKE ASSEMBLY	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE			0.1 0.2 0.4 0.9 0.4			1,2 1 1,2 1	J G G L
0405	FRONT STEPS	INSPECT REMOVE/INSTALL REPAIR REPLACE	0.1	0.1 0.5 0.5	1.0			1 1,3 1	A, B, C, J H

Section II. MAINTENANCE ALLOCATION CHART FOR

POWER UNITS PU-800, PU-801, PU-801A, PU-802, POWER PLANTS AN/MJQ-39, AN/MJQ-48, AND AN/MJQ-48A (Continued)

	1		Untilli	iou,				ı	
(1)	(2)	(3)		(4) Maintenance Level			(5)	(6)	
				Field		Sustai	nment		
			U	nit	Direct Support	Gener al Suppo rt	Depot		
Group Number	Component/Assembly	Maintenance Function	С	o	F	н	D	Tools and Equipment Reference Code	Remarks Code
0406	FRONT PLATFORM	INSPECT REMOVE/INSTALL REPLACE	0.2	0.2 0.5 0.5				1,2 1,2	J I
0407	GROUND STUD	INSPECT REMOVE/INSTALL REPLACE	0.1	0.5 0.5				1	J
0408	TRAILER CHASSIS	INSPECT TEST REMOVE/INSTALL REPAIR REPLACE	0.1	0.1	0.1 0.2 0.4 0.8 0.4			1,2 1 1,2	G G I
0409	TRAILER LEVELING SUPPORT JACK	INSPECT SERVICE REMOVE/INSTALL REPAIR REPLACE	0.1	0.2 0.3 0.8 0.3				1 1 1.7 1 1 1.7	M 1

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS FOR POWER UNITS PU-800, PU-801, PU-801A, PU-802, POWER PLANTS AN/MJQ-39, AN/MJQ-48, AND AN/MJQ-48A

(1) REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER	(5) TOOL NUMBER
1	O, F	TOOL KIT, GENERAL MECHANIC'S	5180-00-177-7033	SC 5180-95-CL-N26
2	0	SHOP EQUIPMENT, AUTOMOTIVE MAINTENANCE AND REPAIR: ORGANIZATIONAL MAINTENANCE COMMON #1, LESS POWER	4910-00-754-0654	SC 4910-95-CL-A74
3	O, F	TOOL KIT, BODY AND FENDER REPAIR	5180-00-357-7731	SC 5180-95-CL-N62
4	F	MULTIMETER	6625-01-265-6000	AN/PSM-45A
5	F	120VAC POWER SOURCE		
6	F	DRILL		
7	F	RIVET GUN, PNEUMATIC		

Section IV. REMARKS

(1) REFERENCE CODE	(2) REMARKS
А	AN/MJQ-39/48/48A UNIT A ONLY.
В	AN/MJQ-39/48/48A UNIT B ONLY.
С	PU-800, PU-801, PU-801A, AND PU-802 ONLY.
D	REFER TO TM 9 6115-643-10 FOR GENERATOR SET OPERATOR MAINTENANCE.
Е	REFER TO TM 9 6115-643-24 FOR GENERATOR SET UNIT AND HIGHER-LEVEL MAINTENANCE.
F	REFER TO TM 9-2815-254-24 FOR ENGINE MAINTENANCE.
G	REFER TO TM 9-2330-202-14&P, TM 9-2330-392-14&P, AND TM 9-2330-205-14&P FOR TRAILER MAINTENANCE.
Н	REMOVAL AND INSTALLATION ARE THE SAME AS REPLACEMENT.
I	REPLACE IS THE SAME AS REMOVAL AND INSTALLATION.
J	PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS).
K	REFER TO APPENDIX G FOR REPAIR.

APPENDIX C

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

Section I. INTRODUCTION

C-1 SCOPE

This appendix lists components of the end items and basic issue items for the power unit and power plant to help you inventory the items for safe and efficient operation of the equipment.

C-2 GENERAL

The Components of End Item (COEI) and Basic Issue Items (BII) lists are divided into the following sections:

- **C-2.1** <u>Section II, Components of End Item (COEI)</u>. This listing is for information purposes only and is not authority to requisition replacements. There are no components of end item for the power units and power plant.
- **C-2.2** Section III, Basic Issue Items (BII). These essential items are required to place the (enter name of end item) in operation, operate it, and do emergency repairs. Although shipped separately packaged, BIIs must be with the power units and power plants during operation and when they are 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 TOE/MTOE. Illustrations are furnished to help you find and identify the items.

C-3 EXPLANATION OF COLUMNS

- C-3.1 Column (1), Illus Number. Column (1), Item, gives you the number of the item illustrated.
- **C.3.2** Column (2), National Stock Number (NSN). Column (2), National Stock Number, identifies the stock number of the item to be used for requisitioning purposes.
- C-3.3 <u>Column (3), Description and Usable On Code (UOC)</u>. Column (3), Description and Usable On Code, identifies the federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (Commercial and Government Entity Code) (in parentheses) and the part number. If the item you need is not the same for different models of the equipment, a Usable On Code will appear on the right side of the description column on the same line as the part number. These codes are identified below:

CODE	USED ON	CODE	USED ON
YJV	AN/MJQ-39	YEZ	PU-801
91D	AN/MJQ-48	FMG	PU-801A
91E	AN/MJQ-48A	YFV	PU-802
YFW	PU-800		

- **C-3.4** Column (4), U/I (unit of issue). Column (4), U/I (unit of issue), indicates how the item is issued for the National Stock Number shown in column (2).
- C-3.5 Column (5), Qty Required. Column (5), Qty Required, indicates the quantity required.

Section II. COMPONENTS OF END ITEM

(1) Item	(2) National Stock Number	(3) Description CAGEC and Part Number	(4) U/I	(5) Qty Required
1	6115-01-317-2137	PU-800	EA	1
2	2330-00-331-2307	2.5 Ton Trailer, M200A1, PN:13229E9332	EA	1
1	6115-01-274-7393	Generator, 15kw 400Hz, MEP-814A	EA	1
1	6115-01-319-9033	PU-801	EA	1
2	2330-01-359-0080	1 Ton Trailer, M116A3, PN:13229E5640-TRL	EA	1
3	6115-01-274-7388	Generator, 15kw 50/60Hz, MEP-804A	EA	1
1	6115-01-413-3821	PU-801A	EA	1
2	2330-01-387-5424	Light Tactical Trailer (LTT) PN: 13230E6565	EA	1
3	6115-01-274-7388	Generator, 15kw 50/60Hz, MEP-804A	EA	1
1	6115-01-317-2138	PU-802	EA	1
2	2330-00-331-2307	2.5 Ton Trailer, M200A1, PN:13229E9332	EA	1
3	6115-01-274-7388	Generator, 15kw 50/60Hz, MEP-804A	EA	1
1	6115-01-299-6034	PP-AN/MJQ-39	EA	1
2	2330-00-331-2307	2.5 Ton Trailer, M200A1, PN:13229E9332	EA	2
3	6115-01-274-7393	Generator, 15kw 400Hz, MEP-814A	EA	2
4	5930-01-457-7114	Switch Box (A, B, or C Model), PN 13229E5795-	EA	1
1	6115-01-540-8433		EA	1
2	2330-01-359-0080	PP-AN/MJQ-48	EA	2
3	6115-01-274-7388	1 Ton Trailer, M116A3, PN:13229E5640-TRL	EA	2
4	5930-01-457-7115	Generator, 15kw 50/60Hz, MEP-804A Switch Box (B or C Model) PN 13229E5795-2	EA	1
1	6115-01-540-9465		EA	1
2	2330-01-387-5424	PP-AN/MJQ-48A	EA	2
3	6115-01-274-7388	Light Tactical Trailer (LTT) PN: 13230E6565	EA	2
4	5930-01-457-7115	Generator, 15kw 50/60Hz, MEP-804A Switch Box (B or C Model) PN 13229E5795-2	EA	1

Section III. BASIC ISSUE ITEMS

NOTE

The following UOCs apply to all illustrations on the BII list, YJV, 91D, 91E, YFW, YEZ, FMG and YFV

(1)	(2) National	(3)	(4)	(5)
Illus.	Stock	Description		Qty
No.	Number	(CAGEC) and Part Number	U/M	PU/PP
1	5342-00-066-1235	Adapter Assy, Fuel Drum (06076) 13211E7541	EA	1/2
2	4710-00-185-6948	Pipe (97403) 13211E7543	EA	1/2
3	4710-00-597-8731	Pipe, Extension (97403) 13211E7542	EA	1/2
4	5120-00-251-4489	Hammer, Hand, Engineers, Double, 8# (58536) A-A-1293	EA	1/2
5	5120-01-013-1676	Slide Hammer, Ground Rod (97403) 13226E7741	EA	1/2
6	4210-01-361-6921	Extinguisher, Fire, Carbon Dioxide (54905) 322	EA	1/2
7	5975-00-878-3791	Rods, Ground (w/attachments), Sectional 9 Ft. (58536) A-A-55804-III-B	EA	1/2
8	4730-00-809-9703	Elbow, Pipe to Hose (97403) 13236380-4	EA	1/2
9	4730-01-470-2409	Clamp, Hose, Low Pressure, Type F, Size 12, SAE J1508 (30554), 88-20561-2	EA	1/2
10	4720-01-386-4210	Hose, Nonmetallic (98441) 160-12-24	EA	1/2
11		TM9-6115-661-13&P	EA	1/2

TM 9-6115-661-13&P **TECHNICAL MANUAL** Introduction 1-1 **OPERATOR AND FIELD MAINTENANCE MANUAL** (OPERATOR, UNIT, AND DIRECT SUPPORT) **Equipment Description** 1-8 (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) Operating Instructions 2-1 **FOR** Operator PMCS POWER UNIT, DIESEL ENGINE DRIVEN, 2 1/2 TON TRAILER MOUNTED, 15 kW, 400 Hz, PU-800 (NSN: 6115-01-317-2137) Operator Maintenance 3-1 POWER UNIT, DIESEL ENGINE DRIVEN. 3-2 Operator Lubrication 1 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-801 (NSN: 6115-01-319-9033) Unit Maintenance 4-1 POWER UNIT, DIESEL ENGINE DRIVEN, LIGHT TACTICAL TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-801A (NSN: 6115-01-413-3821) Service Upon Receipt 4-4 POWER UNIT. DIESEL ENGINE DRIVEN. Unit Lubrication 4-9 2 1/2 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, PU-802 (NSN: 6115-01-317-2138) Unit PMCS 4-10 POWER PLANT, DIESEL ENGINE DRIVEN, 2 1/2 TON TRAILER MOUNTED, 15 kW, 400 Hz, Troubleshooting 4-13 AN/MJQ-39 (NSN: 6115-01-299-6034) POWER PLANT, DIESEL ENGINE DRIVEN, Direct Support Maintenance 5-1 1 TON TRAILER MOUNTED, 15 kW, 50/60 Hz, AN/MJQ-48 (NSN: 6115-01-540-8433) References A-1 POWER PLANT, DIESEL ENGINE DRIVEN, LIGHT TACTICAL TRAILER MOUNTED, 15 kW, MAC 50/60 Hz, AN/MJQ-48A (NSN: 6115-01-540-9465) **RPSTL** F-1 This manual supersedes TM 9-6115-661-13&P dated 15 October 1993, including Changes 1 through 4. DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited. HEADQUARTERS, DEPARTMENT OF THE ARMY 1 April 2007

Item 11 Basic Issue Items. TM 9-6115-661-13&P

APPENDIX D

ADDITIONAL AUTHORIZATION LIST (AAL)

Section I. INTRODUCTION

D-1 SCOPE.

This appendix lists additional items you are authorized to use for the support of the power unit/power plant.

D-2 GENERAL.

The AAL (Table 1) identifies items that do not have to accompany the power unit/power plant and that do not have to be turned in with it. These items are all authorized to you by the Common Table of Allowance (CTA), Modification Table of Organization and Equipment (MTOE), Table of Distribution and Allowances (TDA), or Joint Table of Allowances (JTA).

AAL COLUMN DESCRIPTIONS (TABLE 1).

Column (1) – NATIONAL STOCK NUMBER. This column identifies the stock number of the item to be used for requisitioning purposes.

Column (2) – DESCRIPTION, PART NUMBER, AND CAGE. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the CAGE, in parentheses, and the part number.

Column (3) – USABLE ON CODE. When applicable, gives a code if the item you need is not the same for different models of equipment.

Column (4) – U/M. Indicates the unit of measure or count of the item as issued per the National Stock Number shown in column (1).

Column (5) – QTY RECM. Indicates the quantity recommended.

D-3 EXPLANATION OF LISTING.

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name. If the item you require differs between serial numbers of the same model, effective serial numbers are shown in the last line of the description. If item required differs for different models of this equipment, the models are shown under the "Usable on Code" heading in the description column. These codes are identified as:

CODE	USED ON	CODE	USED ON
YJV 91E YEZ YFV	AN/MJQ-39 AN/MJQ-48A PU-801 PU-802	91D YFW FMG	AN/MJQ-48 PU-800 PU-801A

NOTE

All seven "usable on" codes listed above apply to all illustrations on the AAL list.

APPENDIX D

ADDITIONAL AUTHORIZATION LIST (AAL) (CONT'D)

Section II. ADDITIONAL AUTHORIZED ITEMS LIST

Table 1. Additional Authorized List.

(1) NATIONAL	(2)	(3)	(4)	(5)
STOCK NUMBER	DESCRIPTION, CAGEC, AND PART NUMBER	USABLE ON CODE	U/M	QTY RECM
5975-00-878-3791	RODS, GROUND (WITH ATTACHMENTS), SECTIONAL 9		EA	1
	(58536) AA55804-III-B			
5975-00-794-2523	COUPLINGS, (THREE IN SET)		EA	1
5975-00-924-9927	DRIVE/HEAD STUD		EA	1
6145-00-395-8799	WIRE, ELECTRICAL, NO. 6 AWG, 7 STRANDS, CLASS B, TEMPER, 6FT LONG ASTM B8		EA	1
5999-00-186-3912	CLAMP		EA	1
5940-00-271-9504	GROUND TERMINAL LUG		EA	1
5310-01-477-1264	WASHER, FLAT (30554) 88-20564-15		EA	1
5310-01-365-5788	NUT, SELF LOCKING HEXAGON, PREVAILING TORQUE (30554) 88-21930-2		EA	1
5120-01-013-1676	HAMMER, SLIDE (93742) 0116-1810		EA	1
4210-00-361-6921	EXTINGUISHER, FIRE, CARBON DIOXIDE, 5 LB (54905) 322		EA	1
5342-00-066-1235	ADAPTER, CONTAINER (97403) 13211E7541		EA	1
4710-00-185-6948	PIPE (97403) 13211E7543		EA	1
4710-00-597-8731	PIPE, EXTENSION (97403) 1311E7542		EA	1
7240-01-337-5269	FUEL CAN		EA	1
7240-00-177-6154	FLEXIBLE SPOUT		EA	1
5100-00-494-1911	WRENCH, PLIER, CURVED JAW (81348) GGG-W-00649, TYPE 1, CLASS2, STYLE B		EA	2

APPENDIX E

EXPENDABLE AND DURABLE ITEMS LIST

Section I. INTRODUCTION

E-1 SCOPE.

This appendix lists expendable and durable items that you will need to operate and maintain the AN/MJQ-39, AN/MJQ-48, AN/MJQ-48A Power Plants and PU-800, PU-801, PU-801A, and PU-802 Power Units. This listing is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-790, Expendable/Durable Items (except medical, class V repair parts, and heraldic items), or CTA 8-1000, Army Medical Department Expendable/Durable Items.

E-2 EXPLANATON OF COLUMNS.

- **E-2.1** Column (1), Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the item (e.g., "Use cleaning solvent, P-D-680. item, 1. Appendix E").
- E-2.2 Column (2), Level. This column identifies the lowest level of maintenance that requires the item.
- **E-2.3** Column (3), National Stock Number. This is the national stock number assigned to the item, which you can use to requisition it.
- E-2.4 <u>Column (4), Item Name, Description, Commercial and government Entity Code (CAGEC), and Part Number</u>. This provides the other information you need to identify the item.
- **E-2.5** Column (5), Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Section II. EXPENDABLE AND DURABLE ITEMS LIST

Table 1. Expendable and Durable Items List.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, AND PART NUMBER	(5) U/M
1	0	6850-01-331-3349	Cleaning compound, solvent (81348) P-D-680	EA
2	О	6850-01-331-3350	Cleaning compound, solvent (81348) P-D-680	EA
3	0	9150-00-190-0904	Grease, Automotive/artillery GAA (81349) MIL-G-10924	EA
4	0	9150-00-189-6727	Oil, Lubrication OE/HDO-10 (81349) MIL-D-2104	EA
5	O,F		Solder, Sn60Pb40 (81348)	EA
6	O,F	8040-00-664-4318	Adhesive, 9995460 (18876)	EA

APPENDIX F

UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

Section I. INTRODUCTION

NOTE

Switchboxes for the power plants (AN/MJQ-39, AN/MJQ-48, and AN/MJQ-48A) have undergone many design changes over the years. The data in this RPSTL contains information relative to the three recent designs: A, B, and C Models.

F-1 SCOPE

This RPSTL 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 unit and direct support maintenance of the power units (PU-800, PU-801, PU-801A, and PU-802) and the power plants (AN/MJQ-39, AN/MJQ-48, and AN/MJQ-48A). It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes. Power Plant AN/MJQ-39 is made up of two PU-800 Power Units and a switch box; Power Plant AN/MJQ-48 is made up of two PU-801A Power Units and a switch box.

F-2 GENERAL

In addition to Section I, Introduction, this RPSTL is divided into the following sections:

- **F-2.1** Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts that 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.
- **F-2.2** <u>Section III.</u> <u>Special Tools List.</u> A list 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) for the performance of maintenance. There is no Section III with this appendix.
- **F-2.3** <u>Section IV. Cross-Reference Indexes</u>. There are three cross-reference indexes in this RPSTL. The National Stock Number (NSN) Index lists, in National Item Identification Number (NIIN) sequence, all National stock numbered items cross-referenced to figure and item number. The Part Number Index lists part numbers cross-referenced to each NSN, and each illustration figure and item number appearance. The Figure and Item Number index lists figure and item numbers in alphanumeric sequence, cross-referenced to NSN, CAGEC, and part number.

F-3 EXPLANATION OF COLUMNS (Sections II and III)

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

Source Code XX	Maintenance Code XX		Recoverability Code X	
1 st two positions:	3 rd position	4 th position	5 th position	
How to get an item.	Who can install, replace, or use the item.	Who can do complete repair* on the item.	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 to restore serviceability to a failed item.

<u>Source Code</u>. The source code tells you how you get an item needed for maintenance, repair, or overhaul, of an end item/equipment. Explanations of source codes follow:

Source Code	Application/Explanation
PA PB PC** PD PE PF	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3 rd position of the SMR code.
PG	**NOTE
	Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requisitioned/requested individually. They are part of a kit which is authorized to the maintenance level indicated in the 3 rd position of the SMR code. The completed kit must be requisitioned and applied.
MO-Made at unit/ AVUM level MF-Made at DS/ AVIM level MH-Made at GS Level ML-Made at SRA MD-Made at depot	Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group of the RPSTL. If the item is authorized to you by the 3 rd position of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.
AO-Assembled by Unit/AVUM level AF-Assembled by DS/AVIM level AH-Assembled by GS/level AL-Assembled by SRA	Items with these codes are not to be requisitioned/requested 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 3 rd position of the SMR code authorizes you to replace the item, but the source code

AD-Assembled by Depot	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 P/N.
XC	Installation drawing, diagram, instruction sheets, field service drawings; identified by manufacturer's P/N.
XD	Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N 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 the requirements of AR 750-1.

<u>Maintenance Code</u>. 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.

Maintenance Code	Application/Explanation
С	Crew or operator maintenance done within unit/AVUM maintenance.
0	Unit level/AVUM maintenance can remove, replace, and use the item.
F	Direct support/AVIM maintenance can remove, replace, and use the item.
Н	General support maintenance can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot can remove, replace, and use the item.

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.

Maintenance Code	Application/Explanation
0	Unit/AVUM is the lowest level that can do complete repair of the item.
F	Direct support/AVIM is the lowest level that can do complete repair of the item.
Н	General support is the lowest level that can do complete repair of the item.
L	Specialized repair activity is the lowest level that can do complete repair of the item.
D	Depot is the lowest level than can do complete repair of the item.
Z	No reparable. No repair is authorized.
В	No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

<u>Recoverability Code</u>. 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:

Recoverability Code	Application/Explanation
Z	Non-reparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the $3^{\rm rd}$ position of SMR code.
0	Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit level.
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
Н	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
Α	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.

CAGE (Column (3)). 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 (4)). 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 P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

- 1. The federal item name, and when required, a minimum description to identify the item.
- 2. P/Ns 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.

QTY (Column (6)). 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, sub functional 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.

F-4 EXPLANATION OF CROSS-REFERENCE INDEXES AND COLUMNS (Section IV)

F-4.1. National Stock Number (NSN) Index.

<u>STOCK NUMBER Column</u>. This column lists the NSN in National identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

<u>NSN</u> (e.g., 5385-<u>01-574-1476)</u> NIIN 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.

<u>FIG. Column</u>. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list.

<u>ITEM Column</u>. The item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.

F-4.2. Part Number (P/N) Index. P/Ns in this index are listed by in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter or 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).

<u>CAGEC Column</u>. The Commercial and Government Entity Code (CAGEC) is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

PART NUMBER Column. Indicates the P/N assigned to the item.

STOCK NUMBER Column. This column lists the NSN for the item.

<u>FIG. Column</u>. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list.

<u>ITEM Column</u>. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

F-4.3. Figure Number and Item Number Indexes.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts

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list and special tools list.

<u>ITEM column</u>. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

STOCK NUMBER Column. This column lists the NSN for the item.

<u>CAGEC Column</u>. The Commercial and Government Entity Code (CAGEC) is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

PART NUMBER Column. Indicates the P/N assigned to the item.

F-5 SPECIAL INFORMATION

F-5.1 <u>Usable on Code (UOC)</u>. The UOC appears in the lower left corner of the Description Column heading. Usable on codes are shown as "UOC:xxx" in the Description Column (justified left) on the first line under the applicable item/nomenclature. Uncoded items are applicable to all models. Identifications of the UOC used in this publication are

<u>Code</u>	<u>Used On</u>
YJV	AN/MJQ-39
91D	AN/MJQ-48
91E	AN/MJQ-48A
YFW	PU-800
YEZ	PU-801
FMG	PU-801A
YFV	PU-802

- **F-5.2.** Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk materials 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 Appendix G.
- **F-5.3** <u>Index Numbers</u>. 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 / P/N index and the bulk materials list in Section II.

F-6 HOW TO LOCATE REPAIR PARTS

F-6.1. When NSNs or P/Ns Are Not Known.

<u>First</u>. 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.

Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

Third. Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

F-6.2. When NSNs Are Known.

<u>First</u>. If you have the NSN, look in the STOCK NUMBER column of the NSN Index. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

F-6.3. When P/Ns Are Known.

 $\underline{\text{First}}$. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N Index. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list.

F-7 ABBREVIATIONS

Not applicable.

SECTION II. REPAIR PARTS LIST

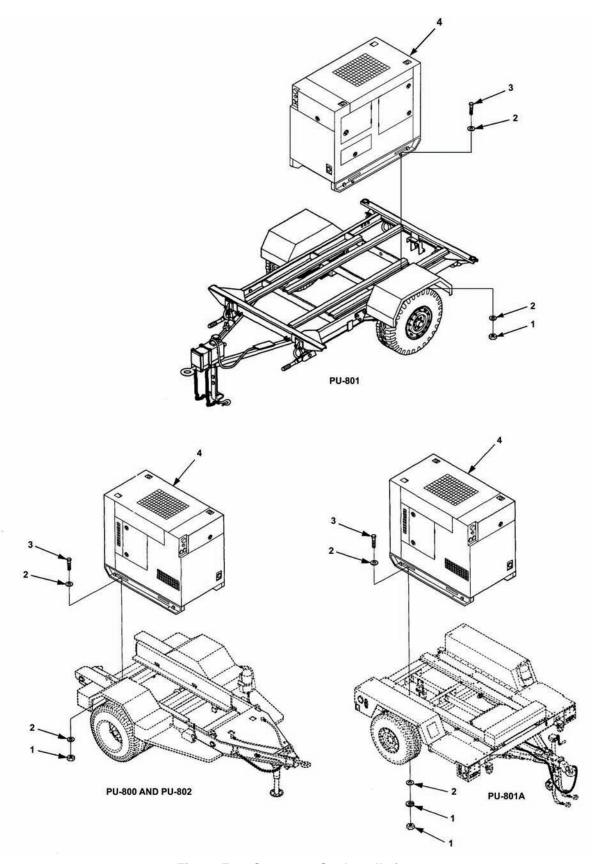


Figure F-1. Generator Set Installation.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 01 GENERATOR SET	
				FIG. F-1 GENERATOR SET INSTALLATION	
1	PAFZZ	97403	13230E6382-14	NUT, SELF-LOCKING, HE UOC: YFV, YEZ, YFW	4
1	PAFZZ	96906	MS51971-5	NUT, PLAIN, HEX HEAD UOC: FMG	4
1	PAFZZ	96906	MS35338-143	WASHER, LOCK UOC: FMG	4
2	PAFZZ	30554	88-20033-45A	WASHER, FLAT UOC: YFV, YEZ, YFW	8
2	PAFZZ	96906	MS15795-817	WASHER, FLAT UOC: FMG	8
3	PAFZZ	80204	B1821BH063C175N	SCREW, CAP, HEXAGON H UOC: YFV, YEZ, YFW	4
3	PAFZZ	96906	MS35307-414	SCREW, CAP, HEXAGON H UOC: FMG	4
4	PDFHH	30554	88-814	GEN SET, 15KW, 400 HZ (SEE TM 9-6115-643-24P FOR PARTS BREAKDOWN) UOC: YFW	1
4	PDFHH	30554	88-804	GEN SET, 15KW, 50/60 HZ (SEE TM 9-6115-643-24P FOR PARTS BREAKDOWN) UOC: YFV, YEZ, FMG	1
				END OF FIGURE	

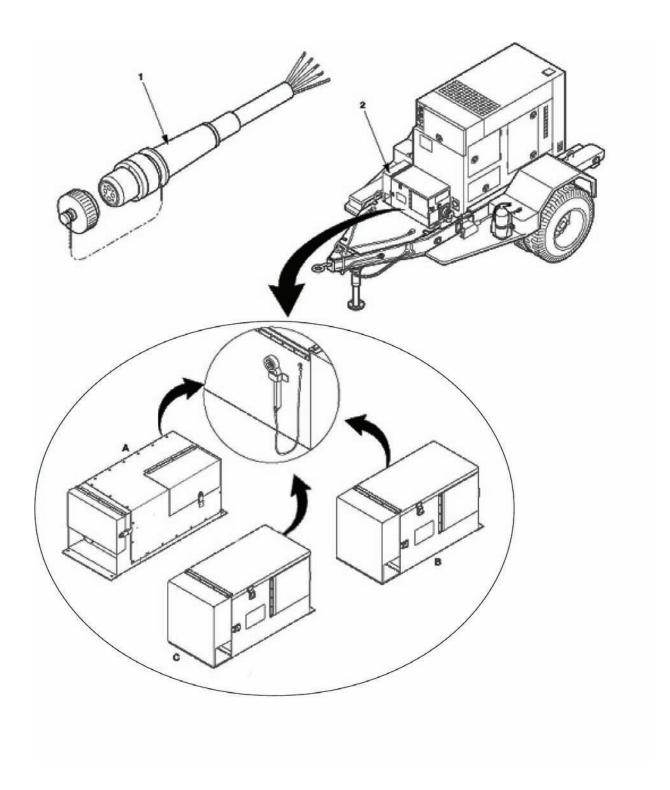


Figure F-1A. Electrical System.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02 ELECTRICAL SYSTEM.	
				FIG. F-1A ELECTRICAL SYSTEM	
1	PBOFF	97403	13229E5674	.CABLE ASSEMBLY, POWER (SEE FIGURE F-2 FOR PARTS BREAKDOWN) UOC: YJV	1
1	PBOFF	97403	13229E5738	.CABLE ASSEMBLY, POWER (SEE FIGURE F-2A FOR PARTS BREAKDOWN) UOC: 91D, 91E	1
2	PDFFF	97403	13229E5795-1.	.SWITCHBOX (A, B&C) (SEE FIGURE F-3 & F-3A FOR PARTS BREAKDOWN) UOC: YJV	1
2	PDFFF	97403	13229E5795-2	.SWITCHBOX (B&C) (SEE FIGURE F-3A FOR PARTS BREAKDOWN) UOC: 91D, 91E	1
				END OF FIGURE	

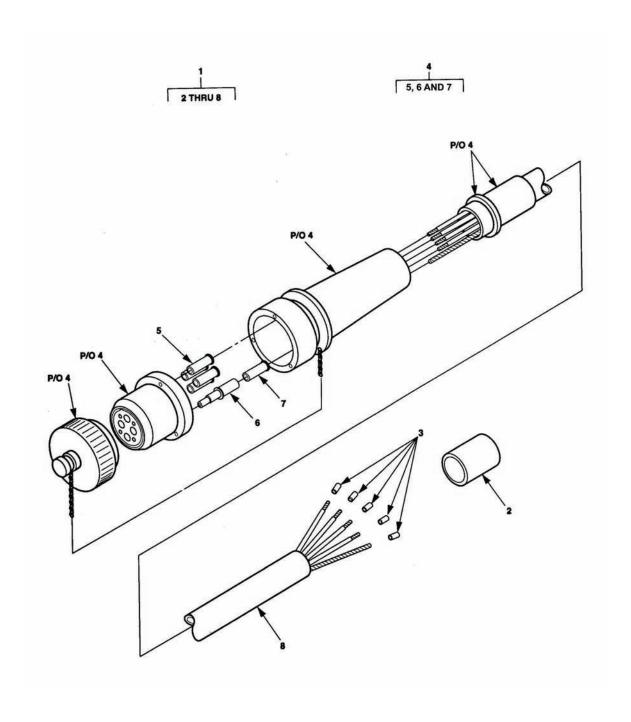


Figure F-2. Cable Assembly, W19, AN/MJQ-39.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0201 CABLE ASSEMBLY, W19	
				FIG. F-2 CABLE ASSEMBLY, W19, AN/MJQ-	-39
1	PBOFF	97403	13229E5674	.CABLE ASSEMBLY, 15KW, 400HZ UOC: YJV	REF
2	MFFZZ	19099	13229E5674-3	INSULATION SLEEVING MAKE FROM P/N M23053/5-112-0 (81349) 3.75 INCHES REQUIRED UOC: YJV	1
3	MFFZZ	19099	13229E5674-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-107-9 (81349) 1 INCH REQUIRED UOC: YJV	5
4	PAFFF	96906	MS90557C32413SY	CONNECTOR, PLUG, ELEC UOC: YJV	1
5	PAFZZ	81349	M39029/49-331	CONTACT, ELECTRICAL UOC: YJV	4
6	PAFZZ	81349	M39029/49-329	CONTACT, ELECTRICAL UOC: YJV	1
7	PAFZZ	96906	MS3348-6-8L	CONTACT, ELECTRICAL UOC: YJV	1
8	MFFZZ	19099	13229E5674-2	CABLE MAKE FROM P/N CO-04HDF(4/4-4/12R)1290 (81349) 200 INCHES REQUIRED UOC: YJV	1
				END OF FIGURE	

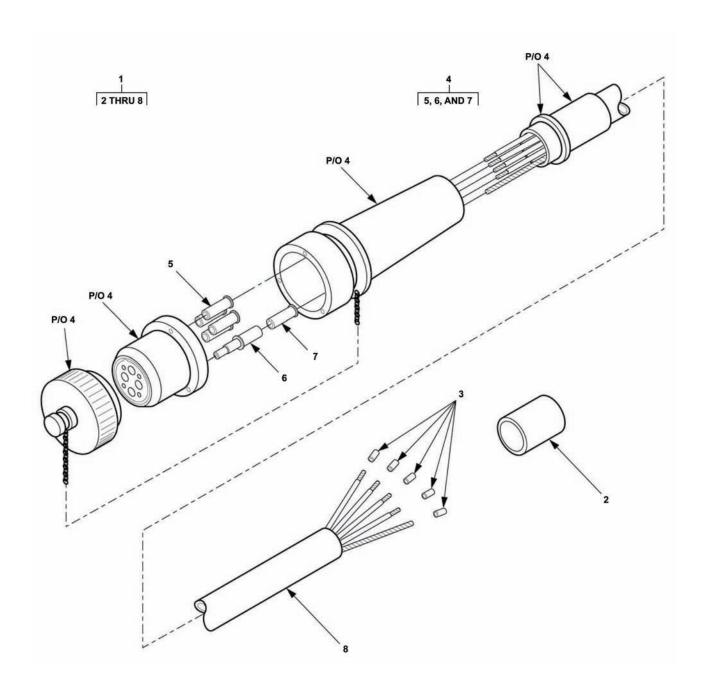


Figure F-2A. Cable Assembly, W19, AN/MJQ-48/48A.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0201 CABLE ASSEMBLY, W19	
				FIG. F-2A CABLE ASSEMBLY, W19, AN/MJ	Q-48/48A
1	PBOFF	97403	13229E5738	.CABLE ASSEMBLY, 15KW, 50/60HZ UOC: 91D, 91E	REF
2	MFFZZ	19099	13229E5738-3	INSULATION SLEEVING MAKE FROM M23053/5-113-0 (81349) 2.5 INCHES REQUIRED UOC: 91D, 91E	2
3	MFFZZ	19099	13229E5738-4	INSULATION SLEEVING MAKE FROM M23053/5-110-9 (81349) 1 INCH REQUIRED UOC: 91D, 91E	5
4	PAFFF	96906	MS90557C44413S	CONNECTOR, PLUG, ELEC UOC: 91D, 91E	1
5	PAFZZ	81349	M39029/49-330	CONTACT, ELECTRICAL UOC: 91D, 91E	4
6	PAFZZ	81349	M39029/49-333	CONTACT, ELECTRICAL UOC: 91D, 91E	1
7	PAFZZ	96906	MS3348-6-8L	CONTACT, ELECTRICAL UOC: 91D, 91E	1
8	MFFZZ	19099	13229E5738-2	CABLE, POWER, ELECTRICAL MAKE FROM 012822 (71102) 325 INCHES REQUIRED UOC: 91D, 91E	1
				END OF FIGURE	

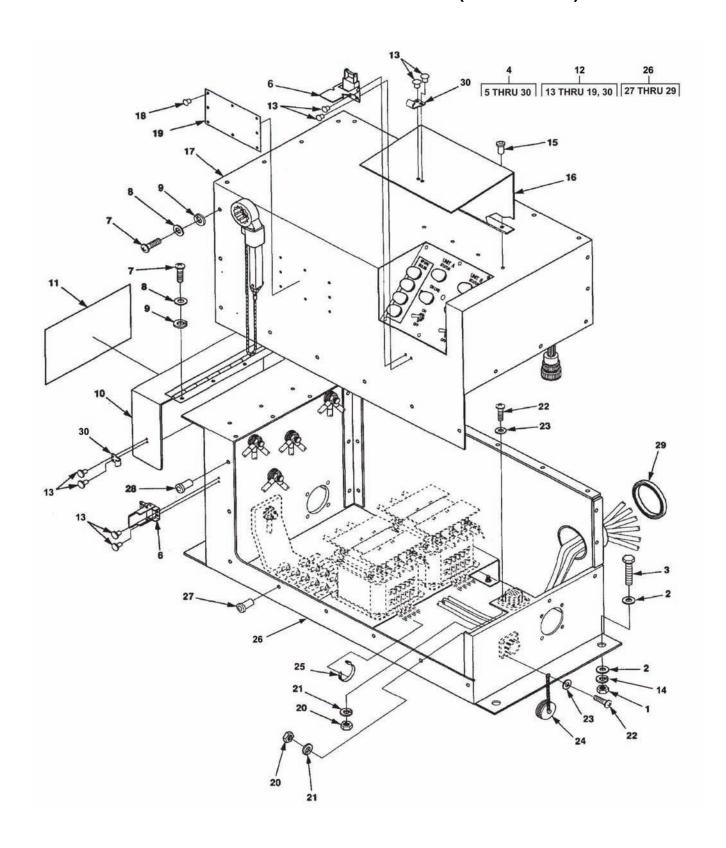


Figure F-3. Switch Box Assembly (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0202 SWITCH BOX ASSEMBLY	
				FIG. F-3 SWITCH BOX ASSEMBLY (A MOD	EL)
1	PAFZZ	97403	13230E6382-6	.NUT, SELF LOCKING, HEXAGON UOC: YJV	4
2	PAFZZ	30554	88-20033-314A	WASHER, FLAT UOC: YJV	8
3	PAFZZ	80204	B1821BH038C138N	.SCREW, CAP, HEXAGON H UOC: YJV	4
4	XDFFF	97403	13229E5795-1	.SWITCH BOX ASSEMBLY UOC: YJV	REF
5	NOT USE	D		00C. 13V	
6	PAOZZ	94222	2-57-1735-07	CATCH, CLAMPING UOC: YJV	2
7	PAOZZ	96906	MS51957-46	SCREW, MACHINE UOC: YJV	25
8	PAOZZ	96906	MS15795-807	WASHER, FLAT UOC: YJV	25
9	PAOZZ	96906	MS35338-137	WASHER, LOCK UOC: YJV	25
10	XDOFF	97403	13229E5804	DOOR, LOAD TERMINAL UOC: YJV	1
11	MDOZZ	97403	13229E5728-2	MARKER, WARNING UOC: YJV	1
12	XDOOO	97403	13229E5801-1	COVER ASSY, SWITCH B UOC: YJV	1
13	PAOZZ	96906	MS20600AD4W3	RIVET, BLIND UOC: YJV	8
14	PAFZZ	97403	13230E6744-46	WASHER, LOCK-SPRING, HEL UOC: YJV	4
15	PAOZZ	96906	MS20470AD4-4-5	RIVET, SOLID UOC: YJV	4
16	XDOZZ	97403	13229E5835	ENCLOSURE, TOP, SWITC UOC: YJV	1
17	XAOZZ	97403	13229E5834	COVER, SWITCH BOX UOC: YJV	1
18	PAOZZ	96906	MS20600AD4W2	RIVET, BLIND UOC: YJV	8
19	MDOZZ	97403	13229E5792-1	PLATE, IDENTIFICATION, SCHEMATIC UOC: YJV	1
20	PAOZZ	96906	MS35649-244	NUT, PLAIN, HEXAGON UOC: YJV	8
21	PAOZZ	96906	MS35338-135	WASHER, LOCK UOC: YJV	8
22	PAOZZ	96906	MS51957-18	SCREW, MACHINE UOC: YJV	8

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0202 SWITCH BOX ASSEMBLY	
				FIG. F-3 SWITCH BOX ASSEMBLY (A MOD	EL)
23	PAOZZ	88044	AN960-C4	WASHER, FLAT	8
24	PAOZZ	96906	MS25043-18DA	UOC: YJV COVER, ELECTRICAL CO	1
25	PAFZZ	96906	MS3367-1-9	UOC: YJV STRAP, TIEDOWN, ELECT UOC: YJV	1
26	XDFFF	97403	13229E5796-1	HOUSING, SWITCH BOX UOC: YJV	1
27	PAOZZ	96906	MS27130-96	NUT, PLAIN, BLIND, RIV UOC: YJV	6
28	PAOZZ	96906	MS27130-93	NUT, PLAIN, BLIND, RIV UOC: YJV	19
29	MOOZZ	19099	13229E5796-1-15	GROMMET, PLASTIC EDGE MAKE FROM P/N MS21266-2N (96906) AS REQUIRED UOC: YJV	1
30	PAOZZ	94222	K3-0334-07 UOC: YJV	KEEPER	2

END OF FIGURE

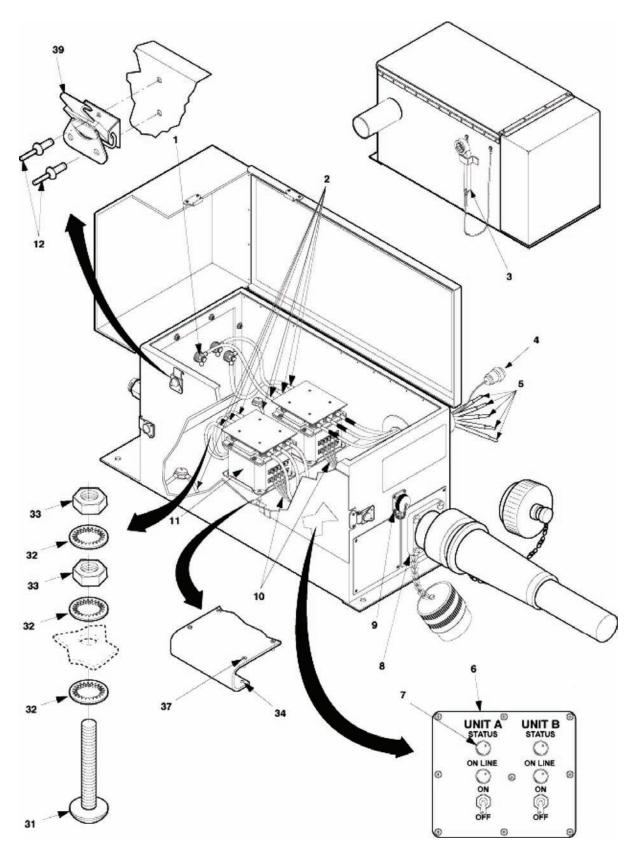


Figure F-3A. Switch Box Assembly, Sheet 1 of 2 (B&C Models).

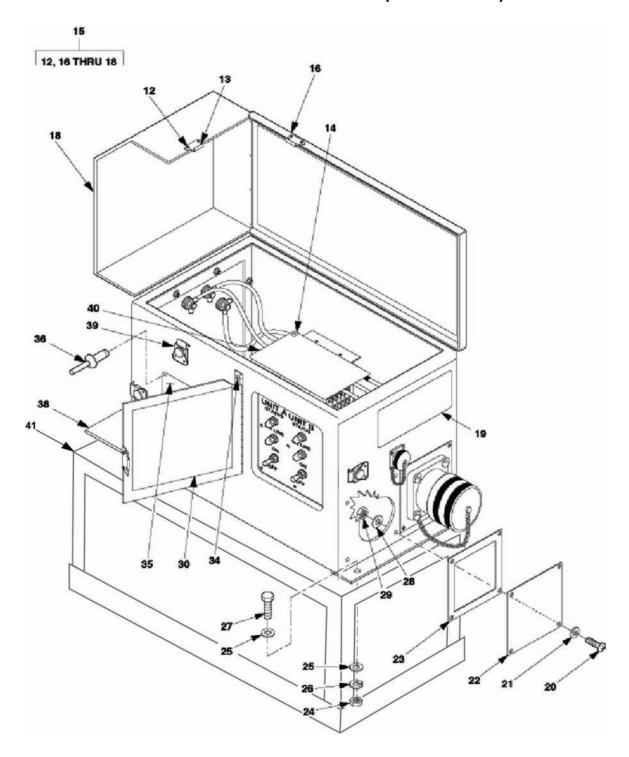


Figure F-3A. Switch Box Assembly, Sheet 2 of 2 (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0202 SWITCH BOX ASSEMBLY	
				FIG. F-3A SWITCH BOX ASSEMBLY (B&C MODELS	3)
1	PAOZZ	96906	MS39347-4	.LOAD TERMINAL ASSY (SEE FIGURE F-8A FOR PARTS BREAKDOWN) UOC: YJV	REF
1	PAOZZ	96906	MS39347-5	LOAD TERMINAL ASSY (SEE FIGURE F-8A FOR PARTS BREAKDOWN) UOC: 91D, 91E	REF
2	MOFFF	97403	13229E5810	.LEADS, ELECTRICAL (SEE FIGURE F-13A FOR PARTS BREAKDOWN)	REF
3	A0000	30554	72-2029-1	UOC: YJV, 91D, 91E LOAD TERMINAL WRENCH ASSEMBLY (SEE FIGURE F-4 FOR PARTS BREAKDOWN)	1
3	A0000	30554	72-2029-2	UOC: YJV .LOAD TERMINAL WRENCH ASSEMBLY (SEE FIGURE F-4 FOR PARTS BREAKDOWN)	1
4	MFFFF	97403	13229E5806-2	UOC: 91D, 91E .WIRING HARNESS, W18 (SEE FIGURE F-17A FOR PARTS BREAKDOWN)	REF
5	MFFFF	97403	13229E5811	UOC: YJV, 91D, 91E .LEADS, POWER (SEE FIGURE F-16A FOR PARTS BREAKDOWN)	REF
6	XBFFF	97403	13229E5802-1	UOC: YJV, 91D, 91E .CONTROL PANEL ASSY. (SEE FIGURE F-5A FOR PARTS BREAKDOWN)	1
7	PAFZZ	97403	13214E1391	UOC: YJV, 91D, 91E LIGHT, INDICATOR, WATERTIGHT (SEE FIGURE F-7A FOR PARTS BREAKDOWN)	4
8	MFFFF	97403	13229E5808-2	UOC: YJV, 91D, 91E .WIRING HARNESS, W10 (SEE FIGURE F-10A FOR PARTS BREAKDOWN)	1
8	MFFFF	97403	13229E5809-2	UOC: YJV, 91D, 91E .WIRING HARNESS, W10 (SEE FIGURE F-10B FOR PART BREAKDOWN)	1
9	MFFFF	97403	13229E5806-1	UOC: YJV, 91D, 91E .WIRING HARNESS, W17 (SEE FIGURE F-11 FOR PARTS BREAKDOWN)	1
10	MFFFF	97403	13229E5800-1	UOC: YJV, 91D, 91E .WIRING HARNESS, W7 (SEE FIGURE F-12A FOR PARTS BREAKDOWN)	1
11	PAFZZ	01XD4	CT350E-120E4	UOC: YJV, 91D, 91E .CONTACTOR (SEE FIGURE F-15A FOR PARTS BREAKDOWN)	2
12	PAOZZ	96906	MS20604AD4W3	UOC: YJV, 91D, 91E RIVET, BLIND UOC: YJV, 91D, 91E	21
13	PAOZZ	94222	K3-0334-07	KEEPER UOC: YJV, 91D, 91E	3
14	PAFZZ	96906	MS3367-1-9	STRAP, TIEDOWN, ELECT UOC: YJV, 91D, 91E	1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0202 SWITCH BOX ASSEMBLY	
				FIG. F-3A SWITCH BOX ASSEMBLY (B&C MODELS	3)
15	XBOOO	97403	13229E5801	.COVER ASSY, SWITCH BOX UOC: YJV, 91D, 91E	1
16	XBOZZ	97403	13229E5834	COVER, SWITCH BOX	1
17	PAOZZ	80205	MS20426AD6-8	UOC: YJV, 91D, 91E RIVET, SOLID (NOT SHOWN) UOC: YJV, 91D, 91E	4
18	XBOZZ	97403	13229E5804	DOOR, LOAD TERMINAL UOC: YJV, 91D, 91E	1
19	XBFZZ	97403	13229E5792-2	LABEL, INSTRUCTION	1
20	PAOZZ	96906	MS51957-83	UOC: YJV, 91D, 91E SCREW, MACHINE UOC: YJV, 91D, 91E	4
21	PAOZZ	80205	MS15795-852	WASHER, FLAT	4
22	XBOZZ	97403	13230E6529	UOC: YJV, 91D, 91E PLATE, BLANKING	1
23	MOOZZ	97403	13229E5815	UOC: YJV, 91D, 91E GASKET, CONNECTOR, PL	1
24	PAOZZ	81349	M45913/1-6CG5C	UOC: YJV, 91D, 91E NUT, SELF-LOCKING, HE UOC: YJV, 91D, 91E	4
25	PAOZZ	96906	MS51412-27	WASHER, FLAT	4
26	PAOZZ	80205	MS35338-46	UOC: YJV, 91D, 91E .WASHER, LOCK	4
27	PAOZZ	80204	B1821BH038C138N		4
28	PAOZZ	96906	MS35338-139	UOC: YJV, 91D, 91E WASHER, LOCK	4
29	PAOZZ	80205	MS35650-3254	UOC: YJV, 91D, 91E NUT, PLAIN, HEXAGON UOC: YJV, 91D, 91E	4
30	XBFZZ	97403	13229E5793-2	LABEL INSTRUCTION	1
31	PAOZZ	96906	MS35214-101	UOC: YJV, 91D, 91E SCREW, MACHINE	2
32	PAOZZ	96906	MS35333-113	UOC: YJV, 91D, 91E WASHER, LOCK	6
33	PAOZZ	96906	MS16203-27	UOC: YJV, 91D, 91E NUT, PLAIN, HEXAGON UOC: YJV, 91D, 91E	4
34	PAOZZ	07707	AD64H	RIVET, BLIND	11
35	XBOZZ	97403	13230E6823-2	UOC: YJV, 91D, 91E PLATE, IDENTIFICATION UOC: YJV, 91D, 91E	1
36	PAOZZ	96906	MS20604AD3W2	RIVET, BLIND	4
37	PAOZZ	96906	MS27130-CR26	UOC: YJV, 91D, 91E NUT, PLAIN, BLIND, RIV	8
38	XBOZZ	97403	13229E5796	UOC: YJV, 91D, 91E HOUSING, SWITCH BOX UOC: YJV, 91D, 91E	1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0202 SWITCH BOX ASSEMBLY	
				FIG. F-3A SWITCH BOX ASSEMBLY (B&C MODELS	3)
39	PAOZZ	94222	2-57-1735-07	CATCH, CLAMPING UOC: YJV, 91D, 91E	3
40	XBOZZ	97403	13229E5792-1	PLATE, SCHEMATIC DIA UOC: YJV	1
40	XBOZZ	97403	13229E5792-2	PLATE, SCHEMATIC DIA UOC: 91D, 91E	1
41	XBOZZ	97403	13230E7004	SWITCH BOX STAND ASSEMBLY (AN/MJQ-48/48A) UOC: 91D, 91E	1

END OF FIGURE

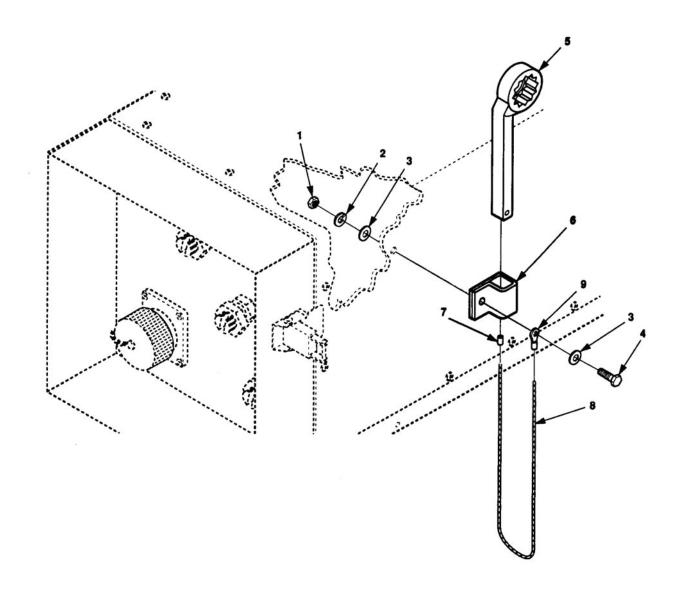


Figure F-4. Load Terminal Wrench Assembly.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020201 LOAD TERMINAL WRENCH ASSE	MBLY
				FIG. F-4 LOAD TERMINAL WRENCH ASSEMBLY	
1	PAOZZ	80205	MS35650-3254	NUT, PLAIN, HEXAGON UOC: YJV, 91D, 91E	1
2	PAOZZ	96906	MS35338-139	WASHER, LOCK UOC: YJV, 91D, 91E	1
3	PAOZZ	80205	MS15795-852	WASHER, FLAT UOC: YJV, 91D, 91E	2
4	PAOZZ	80205	MS35308-306	SCREW, CAP, HEXAGON H UOC: YJV, 91D, 91E	1
5	PAOZZ	12670	CLE-403001	WRENCH, BOX UOC: YJV	1
5	PAOZZ	12670	CLE-403002	WRENCH, BOX UOC: 91D, 91E	1
6	PAOZZ	30554	72-2135	CLAMP, LOOP UOC: YJV, 91D, 91E	1
7	PAOZZ	14726	P1401	SPLICE, CONDUCTOR UOC: YJV, 91D, 91E	1
8	MOOZZ	19099	13229E5795-1-65	ROPE, FIBROUS MAKE FROM P/N C1832 (88001) 40 INCHES REQUIRED UOC: YJV	1
8	MOOZZ	19099	13229E5795-2-65	ROPE, FIBROUS MAKE FROM P/N C1832 (88001) 40 INCHES REQUIRED UOC: 91D, 91E	1
9	PAOZZ	96906	MS20659-111	TERMINAL, LUG UOC: YJV, 91D, 91E	1
				END OF FIGURE	

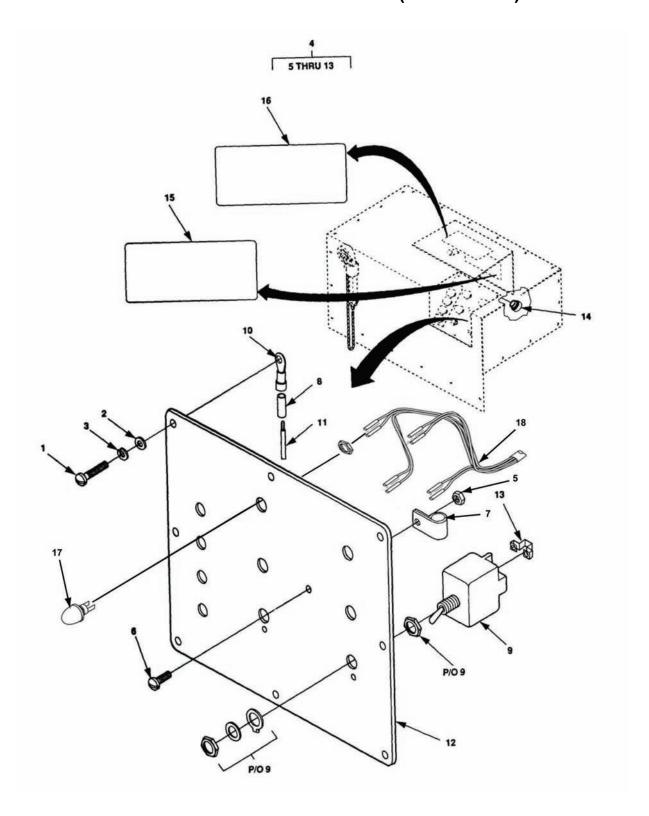


Figure F-5. Control Panel Assembly (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020202 CONTROL PANEL ASSEMBLY	
				FIG. F-5 CONTROL PANEL ASSEMBLY (A MODEL)	
1	PAOZZ	96906	MS51957-45	SCREW, MACHINE UOC: YJV	8
2	PAOZZ	80205	MS15795-807	WASHER, FLAT	8
3	PAOZZ	96906	MS35338-137	UOC: YJV WASHER, LOCK	8
4	XDFFF	97403	13229E5802-1	UOC: YJV CONTROL PANEL ASSEM	1
5	PAOZZ	80205	MS21044C08	UOC: YJV NUT, SELF-LOCKING,HE	1
6	PAOZZ	96906	MS24693-C52	UOC: YJV SCREW, MACHINE	1
7	PAOZZ	96906	MS21322-33	UOC: YJV CLAMP, LOOP	1
8	PAOZZ	19099	13229E5802-1-4	UOC: YJV INSULATION, SLEEVING MAKE FROM P/N M23053/5-107-9 (81349), .75 INCH REQUIRED	16
9	PAOZZ	96906	MS27407-3	UOC: YJV SWITCH, TOGGLE	2
10	PAOZZ	96906	MS25036-153	UOC: YJV TERMINAL, LUG	1
11	PAFZZ	19099	13229E5802-1-10	M22759/16-16-9 (81349), 16AWG AS REQUIRED	1
12	XDOZZ	97403	13229E5805	UOC: YJV PANEL, CONTROL	1
13	PAOZZ	58536	AA59125/28-TBJA	UOC: YJV BUS, CONDUCTOR	2
14	PAOZZ	81349	M45938/1-13C	UOC: YJV NUT, PLAIN, CLINCH	8
15	MDOZZ	97403	13229E5793-1	UOC: YJV LABEL, INSTRUCTION, OPERATING PROCEDURES	1
16	MDOZZ	97403	13229E5793-2	UOC: YJV LABEL, INSTRUCTION, LOAD TRANSFER PROCEDURES	1
17	PAOOO	97403	13214E1391	UOC: YJV LIGHT, INDICATOR (SEE FIGURE F-7 FOR PARTS BREAKDOWN)	8
18	XDFFF	97403	13229E5837	UOC: YJV HARNESS ASSY, CO W20 (SEE FIGURE F-6 FOR PARTS BREAKDOWN) UOC: YJV	1
				END OF FIGURE	

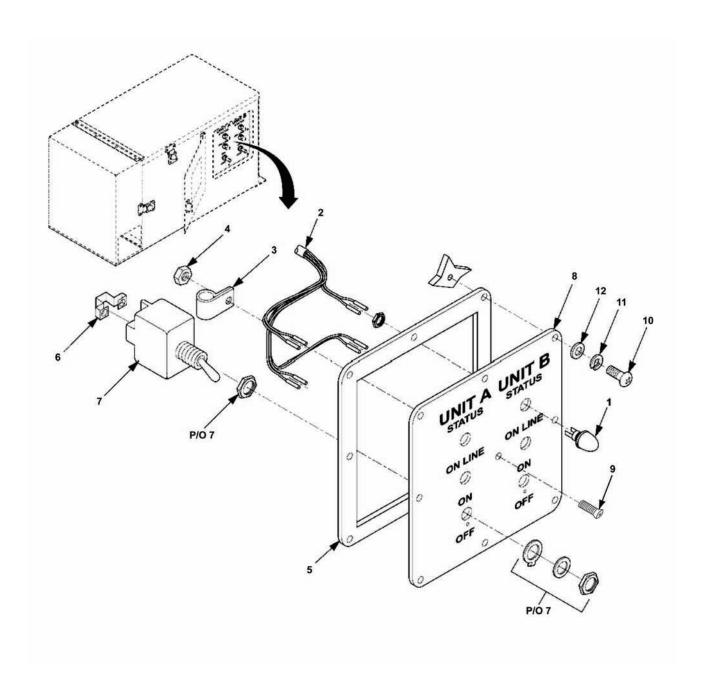
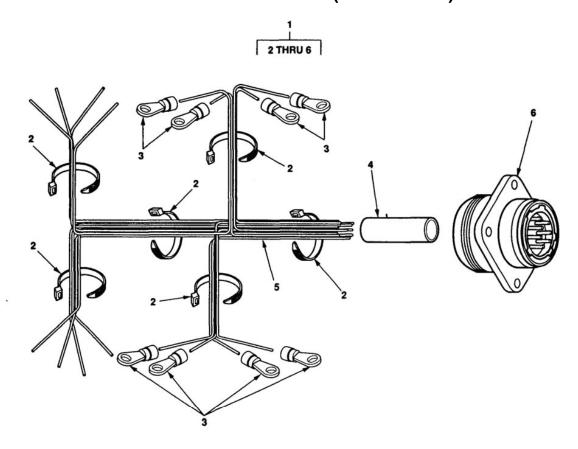


Figure F-5A. Control Panel Assembly (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020202 CONTROL PANEL ASSEMBLY	
				FIG. F-5A CONTROL PANEL ASSEMBLY (B&C MODELS)	
1	PAOOO	97403	13214E1391	.LIGHT, INDICATOR (SEE FIGURE F-7A FOR PARTS BREAKDOWN)	4
2	MFFFF	97403	13229E5800-1	UOC: YJV, 91D, 91E .HARNESS ASSY, CO W7 (SEE FIGURE F-12A FOR PARTS BREAKDOWN)	1
3	PAOZZ	96906	MS21322-33	UOC: YJV, 91D, 91E CLAMP, LOOP UOC: YJV, 91D, 91E	1
4	PAOZZ	80205	MS21044C08	NUT, SELF-LOCKING, HE UOC: YJV, 91D, 91E	1
5	MOOZZ	97403	13230E6516	.GASKET, CONTROL PANEL UOC: YJV, 91D, 91E	1
6	PAOZZ	58536	AA59125/28-TBJA	BUS, CONDUCTOR UOC: YJV, 91D, 91E	2
7	PAOZZ	96906	MS27407-3	SWITCH, TOGGLE UOC: YJV, 91D, 91E	2
8	XBOZZ	97403	13229E5805	.PANEL, CONTROL	1
9	PAOZZ	96906	MS24693-C52	UOC: YJV, 91D, 91E SCREW, MACHINE	1
10	PAOZZ	96906	MS51957-46	UOC: YJV, 91D, 91E SCREW, MACHINE	8
11	PAOZZ	96906	MS35338-137	UOC: YJV, 91D, 91E WASHER, LOCK	8
12	PAOZZ	80205	MS15795-807	UOC: YJV, 91D, 91E WASHER, FLAT UOC: YJV, 91D, 91E	8
				END OF FIGURE	



		WIRE	LIST		
	TERMI	NATION	TERMI	NATION	WIRE ITEM
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	XDS1-1	_	P3-A	6	5
2	XDS1-2	_	P3-B	6	5
3	XDS3-2	_	P3-C	6	5
4	S1-3	3	P3-D	6	5
5	S1-5	3	P3-F	6	5
6	S1-6	3	P3-G	6	5
7	S2-6	3	Р3-Н	6	5
8	S2-5	3	P3-I	6	5
9	S2-3	3	P3-K	6	5
10	XDS4-2		P3-L	6	5
11	XDS2-1	_	P3-M	6	5
12	XDS2-2	_	P3-N	6	5
13	XDS3-1	_	S1-3	3	5
14	XDS4-1	_	S2-3	3	5

Figure F-6. Harness Assembly, W20 (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02020201 HARNESS ASSEMBLY, W20	
				FIG. F-6 HARNESS ASSEMBLY, W20 (A MODEL)	
1	XDFFF	97403	13229E5837	.HARNESS ASSY CONTRO UOC: YJV	REF
2	PAOZZ	96906	MS3367-1-9	STRAP, TIEDOWN, ELECT V UOC: YJV	AR
3	PAOZZ	81343	MS25036-101	TERMINAL, LUG UOC: YJV	8
4	PAOZZ	19099	13229E5837-3	INSULATION, SLEEVING MAKE FROM P/N M23053/5-107-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	1
5	PAFZZ	19099	13229E5837-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-20-9 (81349) AS REQUIRED UOC: YJV	1
6	PAFZZ	96906	MS3106R20-27P	CONNECTOR, PLUG, ELEC UOC: YJV	1
				END OF FIGURE	

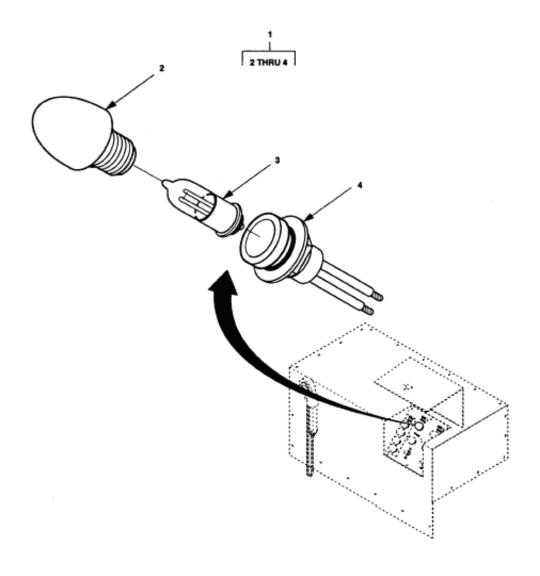


Figure F-7. Light, Indicator (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02020202 LIGHT, INDICATOR	
				FIG. F-7 LIGHT, INDICATOR (A MODEL)	
1	PAOZZ	97403	13214E1391	LIGHT, INDICATOR UOC: YJV	REF
2	PAOZZ	83330	181-0931-001	LENS, CLEAR	1
3	PAOZZ	58224	G9B (GR)	UOC: YJV LAMP	1
4	PAOZZ	83330	181-8836-09-553	UOC: YJV LIGHT, INDICATOR UOC: YJV	1
				END OF FIGURE	

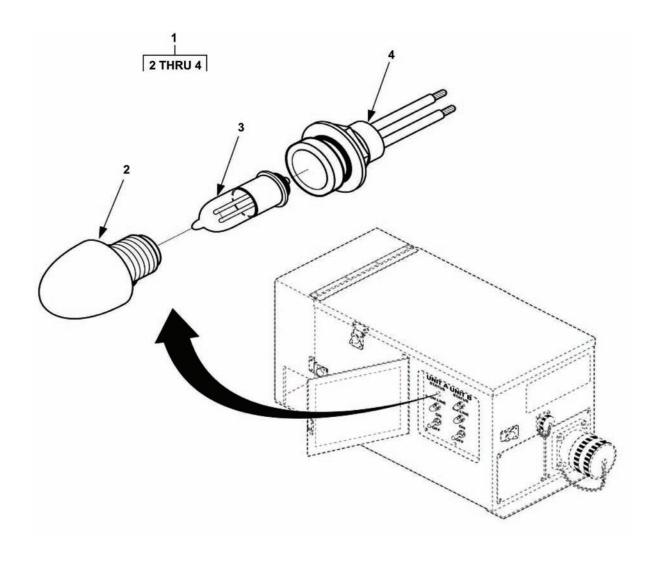


Figure F-7A. Light, Indicator (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02020202 LIGHT,INDICATOR	
				FIG. F-7A LIGHT, INDICATOR (B&C MODELS)	
1	PAOZZ	97403	13214E1391	LIGHT, INDICATOR UOC: YJV, 91D, 91E	REF
2	PAOZZ	83330	181-0937-003	LENS, LIGHT	1
3	PAOZZ	08108	6S6AC130V	UOC: YJV, 91D, 91E LAMP, INCANDESCENT	1
4	PAOZZ	83330	181-8836-09-553	UOC: YJV, 91D, 91E LIGHT, INDICATOR UOC: YJV, 91D, 91E	1
				END OF FIGURE	

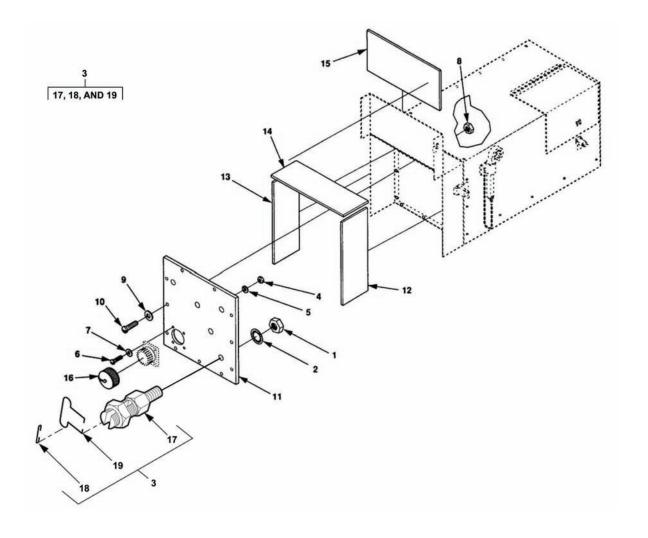


Figure F-8. Terminals, Load (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020203 TERMINALS, LOAD	
				FIG. F-8 TERMINALS, LOAD (A MODEL)	
1	PAOZZ	96906	MS35691-35	NUT, PLAIN, HEXAGON	9
2	PAOZZ	96906	MS35333-113	UOC: YJV WASHER, LOCK	5
3	PAOZZ	96906	MS39347-4	UOC: YJV TERMINAL, STUD	5
4	PAFZZ	96906	MS35650-302	UOC: YJV NUT, PLAIN, HEXAGON	4
5	PAFZZ	96906	MS51415-3	UOC: YJV WASHER, LOCK	4
6	PAFZZ	96906	MS35207-267	UOC: YJV SCREW, MACHINE	4
7	PAFZZ	96906	MS51412-21	UOC: YJV WASHER, FLAT	4
8	PAOZZ	96906	MS51858-4	UOC: YJV NUT, PLAIN, HEXAGON	11
9	PAOZZ	96906	MS51859-4	UOC: YJV WASHER, FLAT	11
10	PAOZZ	96906	MS51957-46	UOC: YJV SCREW, MACHINE	11
11	XDOZZ	97403	13229E5807-1	UOC: YJV PLATE, LOAD TERMINAL	1
12	PAFZZ	19099	13229E5795-1-67	UOC: YJV PLASTIC, SHEET MAKE FROM P/N M24768/2- S-7 (81349) 12.50 X 2.125 INCHES REQUIRED	1
13	PAFZZ	19099	13229E5795-1-68	UOC: YJVPLASTIC, SHEET MAKE FROM P/N M24768/2-S-7 (81349) 11.38 X 3.75 INCHES REQUIRED	1
14	PAFZZ	19099	13229E5795-1-69	UOC: YJV PLASTIC, SHEET MAKE FROM P/N M24768/2- S-7 (81349) 3.75 X 12.50 INCHES REQUIRED	1
15	PAFZZ	19099	13229E5795-1-70	UOC: YJV PLASTIC, SHEET MAKE FROM P/N M24768/2- S-7 (81349) 11.38 X 7.38 INCHES REQUIRED	1
16	PAFZZ	96906	MS90563-3C	UOC: YJV COVER, ELECTRICAL CO	1
17	PAOZZ	96906	MS39347-4A	UOC: YJV BODY	5
18	PAOZZ	19099	MS39347-4B	UOC: YJV BAIL MAKE FROM ASTA A313 (81346), 2.00 INCHES REQUIRED	5
19	PAOZZ	19099	MS39347-4C	UOC: YJV TERMINAL CLIP MAKE FROM ASTM A313 (81346), 5.75 INCHES REQUIRED UOC: YJV	5

END OF FIGURE

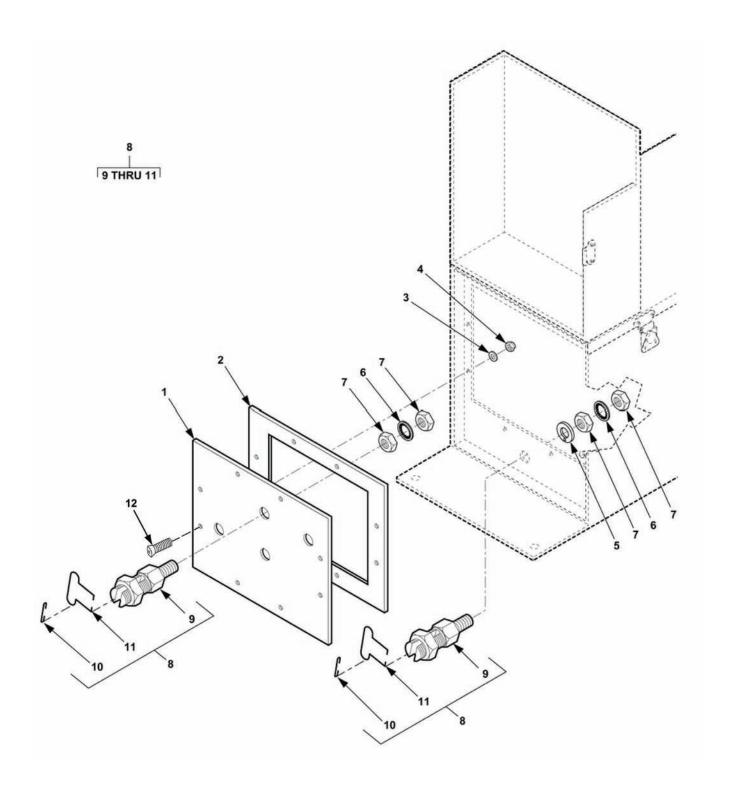
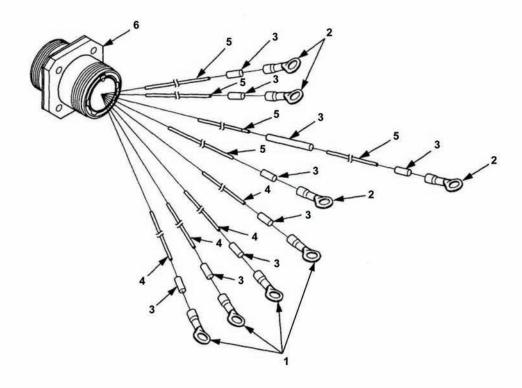


Figure F-8A. Terminals, Load (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020203 TERMINALS, LOAD	
				FIG. F-8A TERMINALS, LOAD (B&C MODELS)	
1	XBOZZ	97403	13229E5807-1	.PLATE, LOAD TERMINAL UOC: YJV	1
1	XBOZZ	97403	13229E5807-2	.PLATE, LOAD TERMINAL	1
2	MFFZZ	97403	13230E6528	UOC: 91D, 91E GASKET, LOAD TERMINAL	1
3	PAOZZ	30554	88-20033-11C	UOC: YJV, 91D, 91E WASHER, FLAT	8
4	PAOZZ	80205	MS21044C3	UOC: YJV, 91D, 91E NUT, SELF-LOCKING, HE UOC: YJV, 91D, 91E	8
5	XBOZZ	97403	13230E4599-1	WASHER, LUG CONNECT UOC: YJV	1
5	XBOZZ	97403	13230E4599-2	WASHER, LUG CONNECT	1
6	PAOZZ	96906	MS35333-113	UOC: 91D, 91E WASHER, LOCK UOC: YJV	5
6	PAOZZ	97403	13230E6743-108	WASHER, LOCK, FLAT-INT TOOTH UOC: 91D, 91E	5
7	PAOZZ	96906	MS35691-35	NUT, PLAIN, HEXAGON UOC: YJV	10
7	PAOZZ	97403	13218E0320-331	NUT, PLAIN, HEXAGON	10
8	PAOZZ	96906	MS39347-4	UOC: 91D, 91E .TERMINAL, STUD	5
8	PAOZZ	96906	MS39347-5	UOC: YJV .TERMINAL, STUD	5
9	PAOZZ	96906	MS39347-4A	UOC: 91D, 91E BODY	5
9	PAOZZ	96906	MS39347-5A	UOC: YJV BODY	5
10	PAOZZ	19099	MS39347-4B	UOC: 91D, 91E BAIL MAKE FROM ASTM A313, 2.00 INCHES REQUIRED	5
10	PAOZZ	19099	MS39347-5B	UOC: YJVBAIL MAKE FROM ASTM A313, 2.00 INCHES REQUIRED	5
11	PAOZZ	19099	MS39347-4C	UOC: 91D, 91ETERMINAL CLIP MAKE FROM ASTM A313, 5.75 INCHES REQUIRED	5
11	PAOZZ	19099	MS39347-5C	UOC: YJV TERMINAL CLIP MAKE FROM ASTM A313, 5.75 INCHES REQUIRED UOC: 91D, 91E	5
12	PAOZZ	96906	MS51960-67	SCREW, MACHINE UOC: YJV, 91D, 91E	8
				END OF FIGURE	

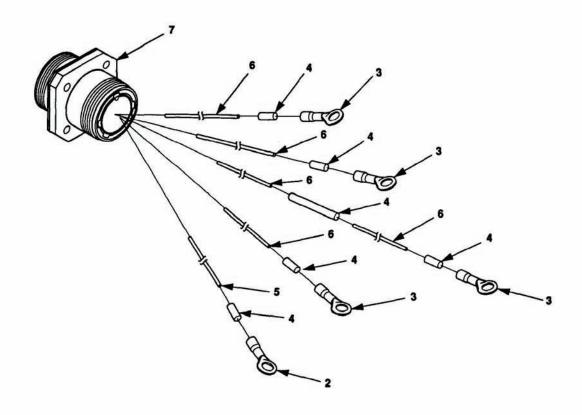


		WIRE	ELIST		
	TERM	NATION	TERMIN	WIRE ITEM	
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J1-A	6	L1	2	5
2	J1-B	6	L2	2	5
3	J1-C	6	L3	2	5
4	J1-N	6	LO	2	5
5	J1-G1	6	BUS BAR	1	4
6	J1-G2	6	BUS BAR	1	4
7	J1-G3	6	BUS BAR	1	4
8	J1-G4	6	BUS BAR	1	4

Figure F-9. Wiring Harness, W9 (A Model).

(1 ITE NC	M SMR	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020204 LEADS/HARNESSES, W9	
				FIG. F-9 WIRING HARNESS, W9 (A MODEL)	
1	PAFZZ	96906	MS25036-120	TERMINAL, LUG UOC: YJV	4
2	PAFZZ	96906	MS20659-145	TERMINAL, LUG UOC: YJV	4
3	PAOZZ	19099	M23053/5-108-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) 2.5 INCHES REQUIRED UOC: YJV	9
4	PAFZZ	19099	M5086/2-6-9	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-6-9 (81349) AS REQUIRED UOC: YJV	4
5	PAFZZ	19099	M5086/2-4-9	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) AS REQUIRED UOC: YJV	4
6	PAFZZ	96906	MS90555C44413S	CONNECTOR, RECEPTACLE UOC: YJV	1
				END OF FIGURE	

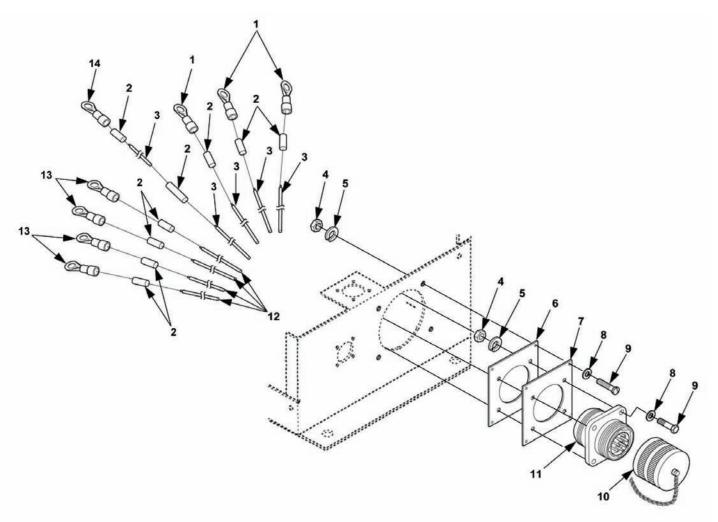




		WIRE	LIST		
	TERMINATION		TERMINATION		WIRE ITEM
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J1-A	7	L1	3	6
2	J1-B	7	L2	3	6
3	J1-C	7	L3	3	6
4	J1-N	7	LO	3	6
5	J1-G	7	GND	2	5

Figure F-9A. Wiring Harness, W9 (B&C Models, AN/MJQ-39).

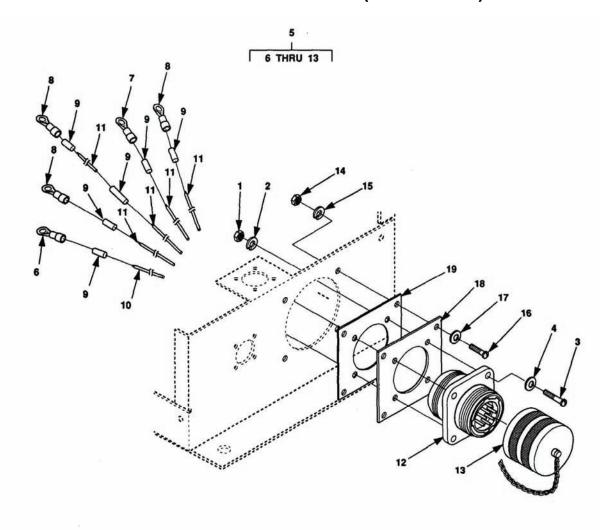
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020204 LEADS/HARNESSES, W9	
				FIG. F-9A WIRING HARNESS, W9 (B&C MODELS, AN/MJQ-39)	
1	XDFFF	97403	13229E5808-1	WIRING HARNESS UOC: YJV	1
2	PAFZZ	96906	MS25036-120	TERMINAL, LUG UOC: YJV	1
3	PAFZZ	96906	MS20659-145	TERMINAL, LUG UOC: YJV	4
4	PAOZZ	19099	13229E5808-1-8	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) 2.50 INCHES REQUIRED UOC: YJV	6
5	PAFZZ	19099	13229E5808-1-4	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-6-9 (81349) AS REQUIRED UOC: YJV	1
6	PAFZZ	19099	13229E5808-1-3	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-4-9 (81349) AS REQUIRED UOC: YJV	4
7	PAFZZ	96906	MS90555C32413SY	CONNECTOR, RECEPTACLE UOC: YJV	1
				END OF FIGURE	



		WIRE	ELIST		
	TERMI	NATION	TERMIN	NATION	WIRE ITEM
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J2-A	11	K2-A1	1	3
2	J2-B	11	K2-B1	1	3
3	J2-C	11	K2-C1	1	3
4	J2-N	11	LO	14	3
5	J2-G1	11	BUS BAR	13	12
6	J2-G2	11	BUS BAR	13	12
7	J2-G3	11	BUS BAR	13	12
8	J2-G4	11	BUS BAR	13	12

Figure F-10. Wiring Harness, W10 (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020205 LEADS/HARNESSES, W10	
				FIG. F-10 WIRING HARNESS, W10 (A MODEL)	
1	PAFZZ	96906	MS25036-125	TERMINAL, LUG UOC: YJV	3
2	PAOZZ	19099	M23053/5-108-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) 2.5 INCHES REQUIRED UOC: YJV	9
3	PAFZZ	19099	M5086/2-4-9	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) AS REQUIRED UOC: YJV	4
4	PAOZZ	80205	MS35650-3254	NUT, PLAIN, HEXAGON UOC: YJV	8
5	PAOZZ	96906	MS35338-139	WASHER, LOCK UOC: YJV	8
6	MFFZZ	97403	13229E5815	GASKET, CONNECTOR, PL UOC: YJV	1
7	XBFZZ	97403	13229E5788-1	PLATE, CONNECTOR, MOU UOC: YJV	1
8	PAOZZ	80205	MS15795-852	WASHER, FLAT UOC: YJV	8
9	PAOZZ	96906	MS51957-83	SCREW, MACHINE UOC: YJV	8
10	PAFZZ	96906	MS90564-7C	COVER, ELECTRICAL CO UOC: YJV	1
11	PAFZZ	96906	MS90558C44413P	CONNECTOR, RECEPTACLE UOC: YJV	1
12	PAFZZ	19099	M5086/2-6-9	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-6-9 (81349) AS REQUIRED UOC: YJV	4
13	PAFZZ	96906	MS25036-120	TERMINAL, LUG UOC: YJV	4
14	PAFZZ	96906	MS20659-145	TERMINAL, LUG UOC: YJV	1
				END OF FIGURE	

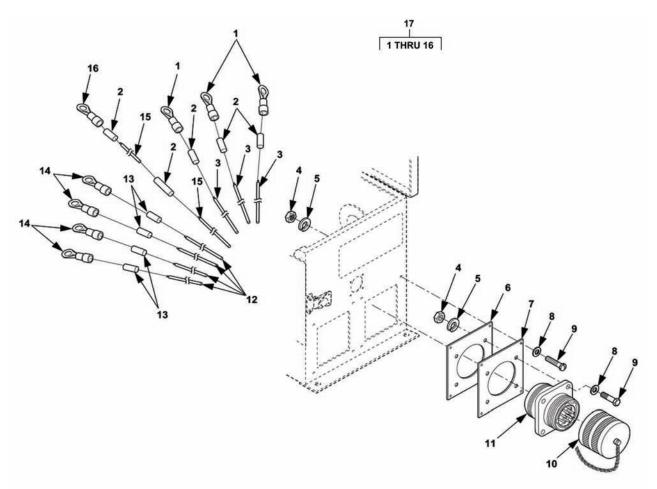


		WIRE	LIST		
	TERMI	INATION	TERMI	WIRE ITEM	
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J2-A	12	K2-A1	8	11
2	J2-B	12	K2-B1	8	11
3	J2-C	12	K2-C1	8	11
4	J2-N	12	N	7	11
5	J2-G	12	GND	6	10

Figure F-10A. Wiring Harness, W10 (B&C Models, AN/MJQ-39).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020205 LEADS/HARNESSES, W10	
				FIG. F-10A WIRING HARNESS, W10 (B&C MODELS, AN/MJQ-39)	
1	PAOZZ	96906	MS35650-302	NUT, PLAIN, HEXAGON UOC: YJV	4
2	PAOZZ	96906	MS51415-3	WASHER, LOCK UOC: YJV	4
3	PAOZZ	96906	MS35207-267	SCREW, MACHINE UOC: YJV	4
4	PAOZZ	96906	MS51412-21	WASHER, FLAT	4
5	XDFFF	97403	13229E5808-2	UOC: YJV WIRING HARNESS UOC: YJV	REF
6	PAFZZ	96906	MS25036-120	TERMINAL, LUG UOC: YJV	1
7	PAFZZ	96906	MS20659-145	TERMINAL, LUG UOC: YJV	1
8	PAFZZ	96906	MS25036-125	TERMINAL, LUG UOC: YJV	3
9	PAOZZ	19099	13229E5808-2-8	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) MAKE 2.5 INCHES REQUIRED	6
10	PAFZZ	19099	13229E5808-2-4	UOC: YJV WIRE, ELECTRICAL MAKE FROM P/N M22759/16-6-9 (81349) AS REQUIRED	1
11	PAFZZ	19099	13229E5808-2-3	UOC: YJV WIRE, ELECTRICAL MAKE FROM P/N M22759/16-4-9 (81349) AS REQUIRED	4
12	PAFZZ	96906	MS90558C32413PY	· · · - · · · · · · · · · · · · · · · ·	1
13	PAFZZ	96906	MS90564-3C	UOC: YJV COVER, ELECTRICAL CO	1
14	PAFZZ	96906	MS35650-3254	UOC: YJV NUT, PLAIN, HEXAGON	4
15	PAFZZ	96906	MS35338-139	UOC: YJV WASHER, LOCK	4
16	PAFZZ	96906	MS35308-306	UOC: YJV SCREW, CAP, HEXAGON H	4
17	PAFZZ	96906	MS15795-852	UOC: YJV WASHER, FLAT	4
18	XDFZZ	97403	13229E5788-1	UOC: YJVPLATE, CONNECTOR HOU	1
19	XDFZZ	97403	13229E5815	UOC: YJV GASKET, CONNECTOR PL UOC: YJV	1

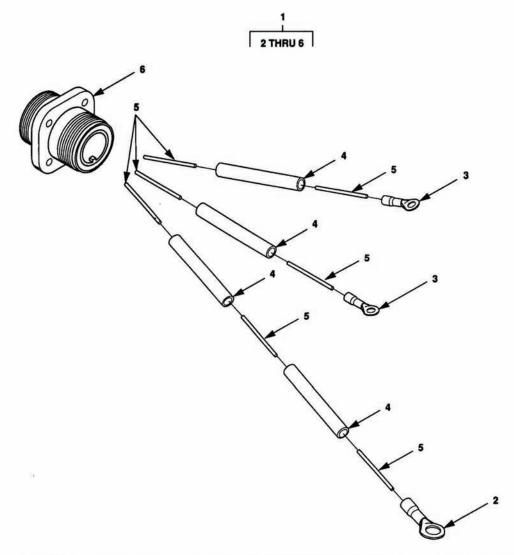
END OF FIGURE



		WIRE	LIST		
	TERMI	NATION	TERMI	NATION	WIRE ITEM
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J2-A	11	K2-A1	1	3
2	J2-B	11	K2-B1	1	3
3	J2-C	11	K2-C1	1	3
4	J2-N	11	N	16	15
5	J2-G1	11	GND2	14	12
6	J2-G2	11	GND2	14	12
7	J2-G3	11	GND2	14	12
8	J2-G4	11	GND2	14	12

Figure F-10B. Wiring Harness, W10 (B&C Models, AN/MJQ-48/48A).

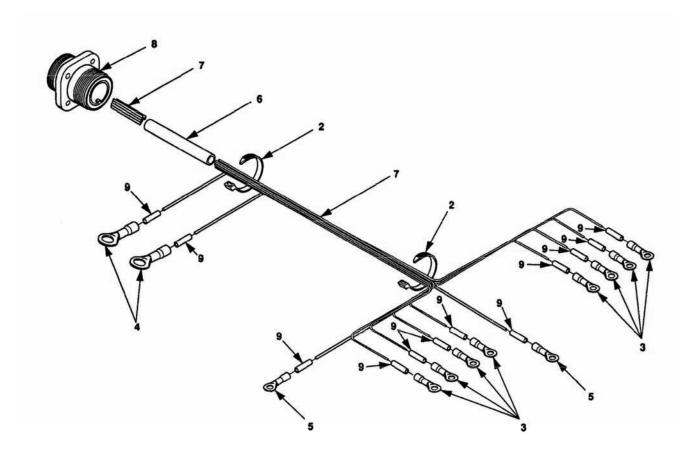
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020205 LEADS/HARNESSES, W10	
				FIG. F-10B WIRING HARNESS, W10 (B&C MODELS, AN/MJQ-48/48A)	
1	PAFZZ	96906	MS25036-130	TERMINAL, LUG UOC: 91D, 91E	3
2	PAOZZ	19099	13229E5809-2-16	INSULATION SLEEVING MAKE FROM P/N M23053/5-109-9 (81349) 2.5 INCHES REQUIRED UOC: 91D, 91E	5
3	PAFZZ	19099	13229E5809-2-6	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 14.5 INCHES REQUIRED	3
4	PAOZZ	80205	MS35650-3254	UOC: 91D, 91E NUT, PLAIN, HEXAGON UOC: 91D, 91E	8
5	PAOZZ	96906	MS35338-139	WASHER, LOCK UOC: 91D, 91E	8
6	MFFZZ	97403	13229E5815	GASKET, CONNECTOR, PL UOC: 91D, 91E	1
7	XBFZZ	97403	13229E5788-2	PLATE, CONNECTOR, MOU UOC: 91D, 91E	1
8	PAOZZ	80205	MS15795-852	WASHER, FLAT UOC: 91D, 91E	8
9	PAOZZ	96906	MS51957-83	SCREW, MACHINE UOC: 91D, 91E	8
10	PAFZZ	96906	MS90564-7C	COVER, ELECTRICAL CO UOC: 91D, 91E	1
11	PAFZZ	96906	MS90558C44413P	CONNECTOR, RECEPTACLE UOC: 91D, 91E	1
12	PAFZZ	19099	13229E5809-2-7	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-6-9 (81349) 22.5 INCHES REQUIRED	4
13	PAOZZ	19099	13229E5809-2-18	UOC: 91D, 91E INSULATION SLEEVING (MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: 91D, 91E	4
14	PAFZZ	96906	MS25036-122	TERMINAL, LUG UOC: 91D, 91E	4
15	PAFZZ	19099	13229E5809-2-6	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 28 INCHES REQUIRED UOC: 91D, 91E	1
16	PAFZZ	96906	MS25036-131	TERMINAL, LUG UOC: 91D, 91E	1
17	XDFFF	97403	13229E5809-2	.WIRING HARNESS UOC: 91D, 91E END OF FIGURE	REF



		WIRE	ELIST		
(2.500.001/42/201	TERM	NATION	TERMIN	WIRE ITEM	
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J3-A	6	K2-12	3	5
2	J3-B	6	K2-Y	3	5
3(A MODEL)	J3-E	6	BUS BAR	2	5
3(B&C MODELS)	J3-E	6	GND2	2	5

Figure F-11. Wiring Harness, W17.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020206 LEADS/HARNESSES, W17	
				FIG. F-11 WIRING HARNESS, W17	
1	XDFFF	97403	13229E5806-1	WIRING HARNESS POWER, SWITCH BOX UOC: YJV, 91D, 91E	REF
2	PAFZZ	96906	MS25036-154	TERMINAL, LUG UOC: YJV, 91D, 91E	1
3	PAFZZ	96906	MS25036-107	TERMINAL, LUG UOC: YJV, 91D, 91E	2
4	PAOZZ	19099	13229E5806-1-5	INSULATION SLEEVING MAKE FROM P/N M23053/5-104-4 (81349) 2.00 INCHES REQUIRED UOC: YJV, 91D, 91E	4
5	PAFZZ	19099	13229E5806-1-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-16-9 (81349) AS REQUIRED UOC: YJV, 91D, 91E	3
6	PAFZZ	96906	MS3102R18-11P	CONNECTOR, RECEPTACLE UOC: YJV, 91D, 91E	1
				END OF FIGURE	



		WIRE	LIST		
V1.7002833201201201	TERM	NATION	TERMI	NATION	WIRE ITEM
WIRE NO.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	J4-A	8	K1-A1	5	7
2	J4-B	8	L0	4	7
3	J4-C	8	K1-Y	3	7
4	J4-D	8	K1-X	3	7
5	J4-F	8	K1-11	3	7
6	J4-G	8	K1-12	3	7
7	J4-H	8	K2-12	3	7
8	J4-1	8	K2-11	3	7
9	J4-K	8	K2-X	3	7
10	J4-L	8	K2-Y	3	7
11	J4-M	8	K2-A1	5	7
12	J4-N	8	LO	4	7

Figure F-12. Wiring Harness, W7 (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020207 LEADS/HARNESSES, W7	
				FIG. F-12 WIRING HARNESS, W7 (A MODEL)	
1	NOT USE)			
2	PAFZZ	96906	MS3367-1-9	STRAP, TIEDOWN, ELECT UOC: YJV	V
3	PAFZZ	96906	MS25036-106	TERMINAL, LUG UOC: YJV	8
4	PAFZZ	96906	MS25036-155	TERMINAL, LUG UOC: YJV	2
5	PAFZZ	96906	MS25036-110	TERMINAL, LUG	2
6	PAOZZ	19099	M23053/5-108-4	UOC: YJV INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) 2.5 INCHES REQUIRED	1
7	PAFZZ	819099	M22759/16-18-9	UOC: YJV WIRE, ELECTRICAL MAKE FROM P/N M22759/16-18-9 (81349) AS REQUIRED UOC: YJV	1
8	PAFZZ	96906	MS3100R20-27S	CONNECTOR, RECEPTACLE UOC: YJV	1
9	PAOZZ	19099	M23053/5-105-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	12
				END OF FIGURE	

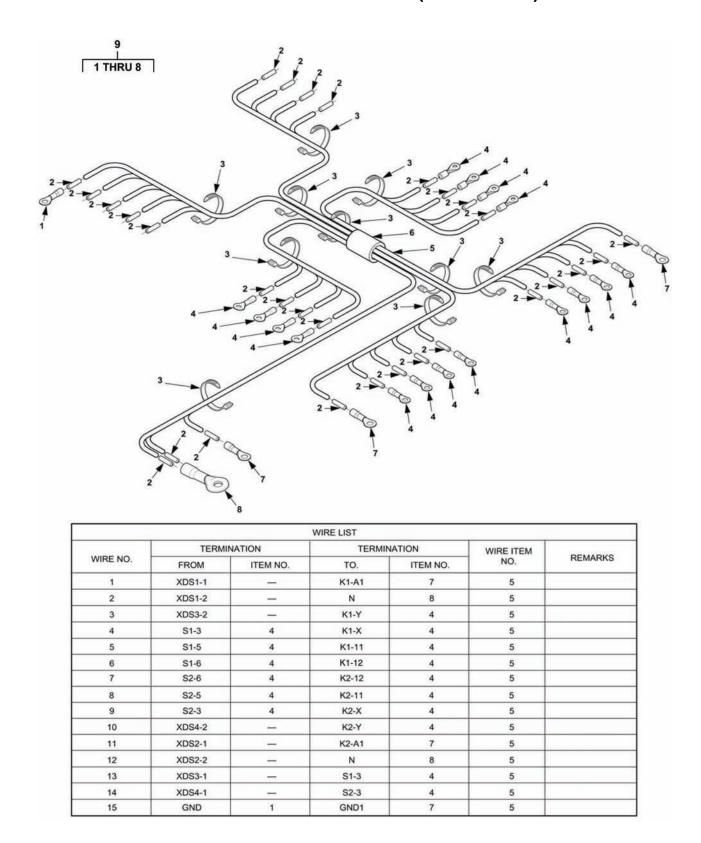


Figure F-12A. Wiring Harness, W7 (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020207 LEADS/HARNESSES, W7	
				FIG. F-12A WIRING HARNESS, W7 (B&C MODELS)	
1	PAFZZ	14726	R4268F	TERMINAL, LUG UOC: YJV, 91D, 91E	1
2	PAOZZ	19099	13229E5800-1-10	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-9 (81349) AS REQUIRED UOC: YJV, 91D, 91E	30
3	PAFZZ	81343	MS3367-1-9	STRAP, TIEDOWN, ELECT UOC: YJV, 91D, 91E	V
4	PAFZZ	14726	R4142F	TERMINAL, LUG UOC: YJV, 91D, 91E	16
5	PAFZZ	19099	13229E5800-1-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-18-9 (81349) AS REQUIRED	15
6	PAOZZ	19099	13229E5800-1-6	UOC: YJV, 91D, 91E INSULATION SLEEVING MAKE FROM P/N M23053/5-110-9 (81349) 2.5 INCHES REQUIRED UOC: YJV, 91D, 91E	1
7	PAFZZ	14726	R4152F	TERMINAL, LUG UOC: YJV, 91D, 91E	3
8	PAFZZ	56501	RB14-12	TERMINAL, LUG	1
9	XDFFF	97403	13229E5800-1	UOC: YJV, 91D, 91E .WIRING HARNESS, CONTROL UOC: YJV, 91D, 91E	REF

END OF FIGURE

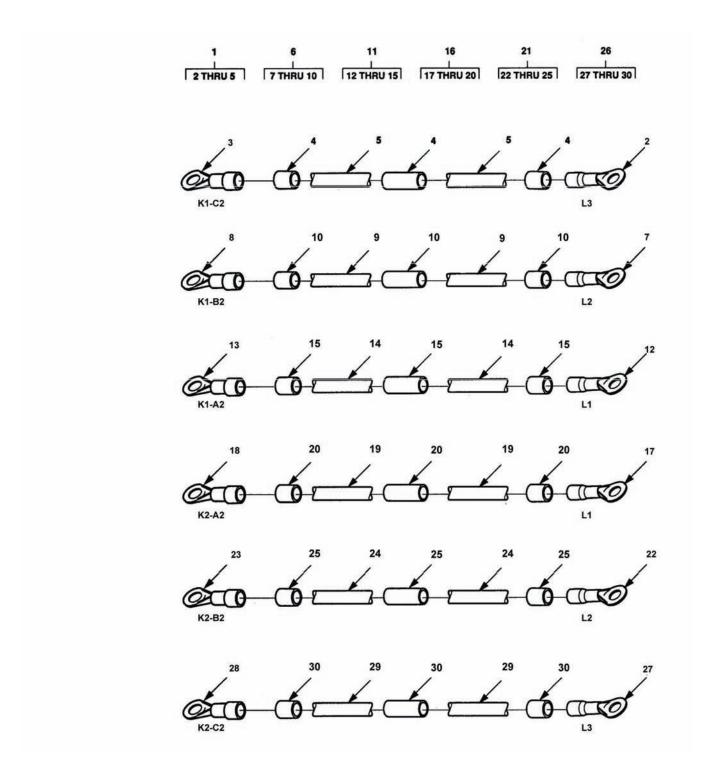


Figure F-13. Electrical Lead, W11 – W16 (AN/MJQ-39, A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020208 LEADS/HARNESSES, W11 – W16 FIG. F-13 ELECTRICAL LEAD, W11 – W16 (AN/MJQ-39, A MODEL)	
1	AFFFF	97403	13229E5810-3	LEAD, ELECTRICAL, W13 UOC: YJV	1
2	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
3	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
4	PAOZZ	19099	13229E5810-3-10	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED	1
5	PAFZZ	19099	13229E5810-3-1	UOC: YJV WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED	1
6	AFFFF	97403	13229E5810-2	UOC: YJV LEAD, ELECTRICAL, W12 UOC: YJV	1
7	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
8	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
9	PAFZZ	19099	13229E5810-2-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED	1
10	PAFZZ	19099	13229E5810-2-10	UOC: YJV INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED	1
11	AFFFF	97403	13229E5810-1	UOC: YJV LEAD, ELECTRICAL, W11 UOC: YJV	1
12	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
13	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
14	PAFZZ	19099	13229E5810-1-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED	1
15	PAOZZ	19099	13229E5810-1-10	UOC: YJV INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
16	AFFFF	97403	13229E5810-11	LEAD, ELECTRICAL, W14 UOC: YJV	1
17	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
18	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
19	PAFZZ	19099	13229E5810-11-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED	1
20	PAOZZ	19099	13229E5810-11-10	UOC: YJV INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	1
21	AFFFF	97403	13229E5810-12	LEAD, ELECTRICAL, W15 UOC: YJV	1
22	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
23	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
24	PAFZZ	19099	13229E5810-12-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED UOC: YJV	1
25	PAOZZ	19099	13229E5810-12-10	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	1
26	AFFFF	97403	13229E5810-13	LEAD, ELECTRICAL, W16 UOC: YJV	1
27	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
28	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
29	PAFZZ	19099	13229E5810-13-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 12.5 INCHES REQUIRED UOC: YJV	1
30	PAOZZ	19099	13229E5810-13-10	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	1
				END OF FIGURE	

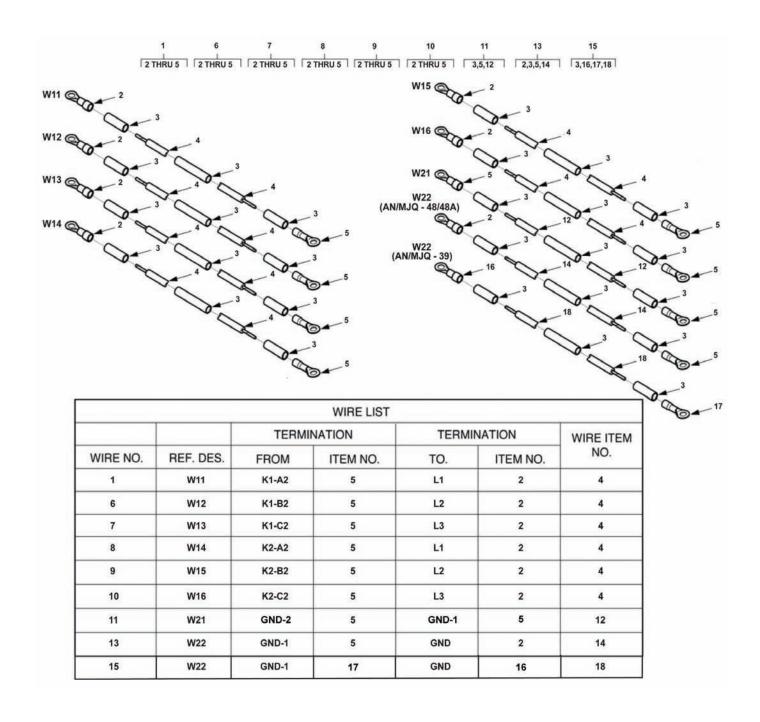


Figure F-13A. Electrical Lead, W11 -W16, W21, W22 (B&C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020208 LEADS/HARNESSES, W11-16, W21, W22	
				FIG. F-13A ELECTRICAL LEAD, W11-16, W21, W22 (B&C MODELS)	
1	AFFFF	97403	13229E5810-1	.LEAD, ELECTRICAL, W11 UOC: YJV	1
1	AFFFF	97403	13229E5810-4	LEAD, ELECTRICAL, W11 UOC: 91D, 91E	1
2	PAFZZ	96906	MS20659-145	TERMINAL, LUG STUD SIZE .500 UOC: YJV	6
2	PAFZZ	96906	MS25036-131	TERMINAL, LUG STUD SIZE .500 UOC: 91D, 91E	7
3	PAOZZ	19099	M23053/5-105-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-105-4 (81349) AS REQUIRED UOC: YJV	24
3	PAOZZ	19099	M23053/5-109-0	INSULATION SLEEVING MAKE FROM P/N M23053/5-109-0 (81349) AS REQUIRED	24
4	PAFZZ	19099	M22759/16-4-9	UOC: 91D, 91E WIRE, ELECTRICAL MAKE FROM P/N M22759/16-4-9 (81349) 12.5 INCHES REQUIRED UOC: YJV	6
4	PAFZZ	19099	M22759/16-1-9	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 12.5 INCHES REQUIRED UOC: 91D, 91E	6
5	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 UOC: YJV	6
5	PAFZZ	96906	MS25036-130	TERMINAL, LUG STUD SIZE .375 UOC: 91D, 91E	9
6	AFFFF	97403	13229E5810-2	LEAD, ELECTRICAL, W12 UOC: YJV	1
6	AFFFF	97403	13229E5810-5	LEAD, ELECTRICAL, W12 UOC: 91D, 91E	1
7	AFFFF	97403	13229E5810-3	LEAD, ELECTRICAL, W13 UOC: YJV	1
7	AFFFF	97403	13229E5810-6	LEAD, ELECTRICAL, W13 UOC: 91D, 91E	1
8	AFFFF	97403	13229E5810-11	LEAD, ELECTRICAL, W14 UOC: YJV	1
8	AFFFF	97403	13229E5810-14	LEAD, ELECTRICAL, W14 UOC: 91D, 91E	1
9	AFFFF	97403	13229E5810-12	LEAD, ELECTRICAL, W15 UOC: YJV	1
9	AFFFF	97403	13229E5810-15	LEAD, ELECTRICAL, W15 UOC: 91D, 91E	1

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
10	AFFFF	97403	13229E5810-13	.LEAD, ELECTRICAL, W16 UOC: YJV	1
10	AFFFF	97403	13229E5810-16	LEAD, ELECTRICAL, W16 UOC: 91D, 91E	1
11	AFFFF	97403	13229E5810-24	LEAD, ELECTRICAL, W21 UOC: YJV, 91D, 91E	1
12	PAFZZ	19099	M22759/16-1-9	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 6.88 INCHES REQUIRED UOC: YJV, 91D, 91E	1
13	AFFFF	97403	13229E5810-22	.LEAD, ELECTRICAL, W22 UOC: 91D, 91E	1
14	PAFZZ	19099	M22759/16-1-9	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 9.5 INCHES REQUIRED UOC: 91D, 91E	1
15	AFFFF	97403	13229E5810-21	.LEAD, ELECTRICAL, W22 UOC: YJV	1
16	PAFZZ	00779	32167	TERMINAL, LUG UOC: YJV	1
17	PAFZZ	09922	YAEV25-L	TERMINAL, LUG UOC: YJV	1
18	PAFZZ	19099	M22759/16-01-9	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-01-9 (81349) 9.5 INCHES REQUIRED UOC: YJV	1

END OF FIGURE

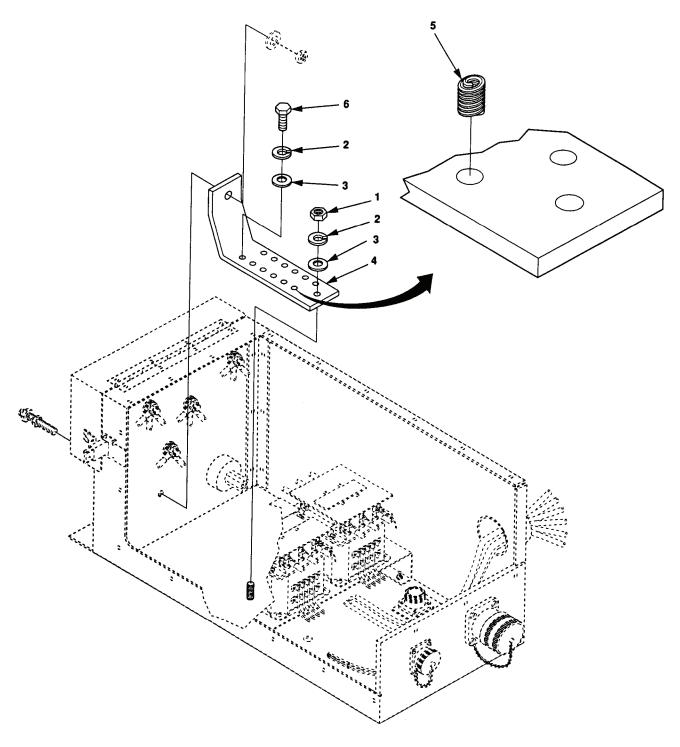


Figure F-14 Bus Bar (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020209 BUS BAR	
				FIG. F-14 BUS BAR (A MODEL)	
1	PAFZZ	80205	MS35649-2254	NUT, PLAIN, HEXAGON UOC: YJV	1
2	PAFZZ	96906	MS35338-139	WASHER, LOCK UOC: YJV	6
3	PAFZZ	80205	MS15795-852	WASHER, FLAT UOC: YJV	6
4	XDFFF	97403	13229E5816-1	BUS BAR, GROUNDING UOC: YJV	1
5	PAFZZ	96906	MS124696	INSERT, SCREW THREAD, .250-28, .375 NOM LENGTH	12
6	PAFZZ	80205	MS35308-3	UOC: YJV SCREW, CAP, HEXAGON H UOC: YJV	5

END OF FIGURE

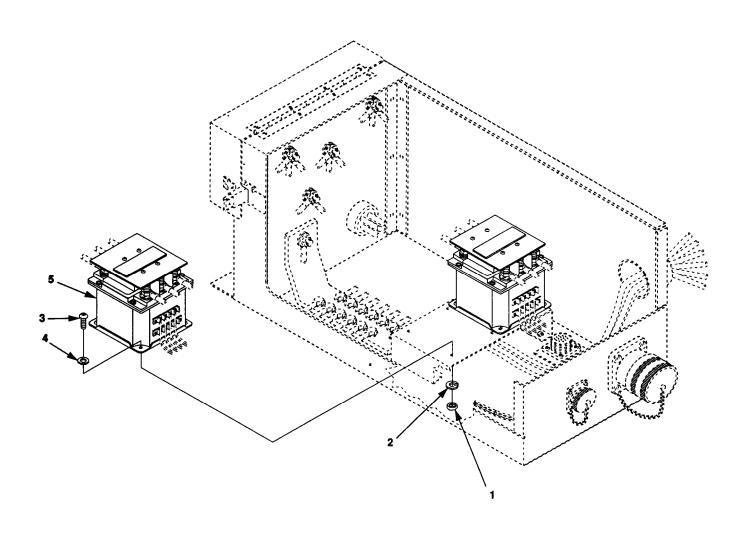


Figure F-15. Contactor (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020210 CONTACTOR FIG. F-15 CONTACTOR (A MODEL)	
1	PAFZZ	80205	MS35649-204	NUT, PLAIN, HEXAGON UOC: YJV	8
2	PAFZZ	96906	MS35338-138	WASHER, LOCK UOC: YJV	8
3	PAFZZ	80205	MS51958-64	SCREW, MACHINE UOC: YJV	8
4	PAFZZ	80205	MS15795-857	WASHER, FLAT UOC: YJV	8
5	PAFZZ	01XD4	CT350E-120E4	CONTACTOR UOC: YJV	2
				END OF FIGURE	

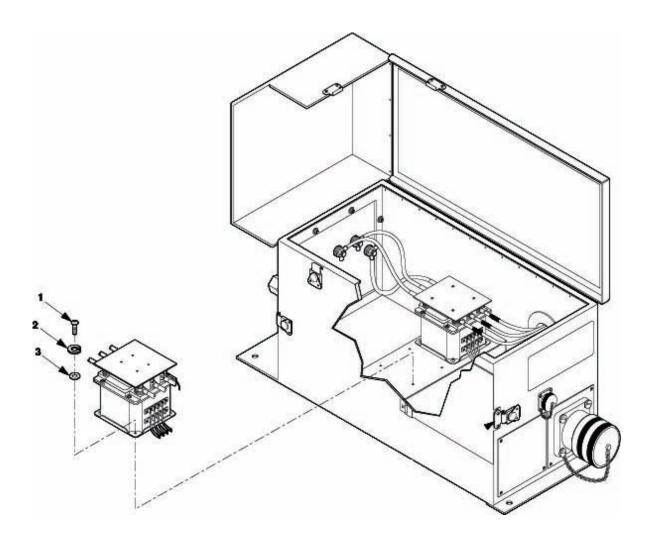


Figure F-15A. Contactor (B & C Models).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020210 CONTACTOR	
				FIG. F-15A CONTACTOR (B & C MODELS)	
1	PAFZZ	80205	MS51958-64	SCREW, MACHINE UOC: YJV, 91D, 91E	8
2	PAFZZ	96906	MS35338-138	WASHER, LOCK UOC: YJV, 91D, 91E	8
3	PAFZZ	30554	88-20033-11C	WASHER, FLAT UOC: YJV, 91D, 91E	8
				END OF FIGURE	

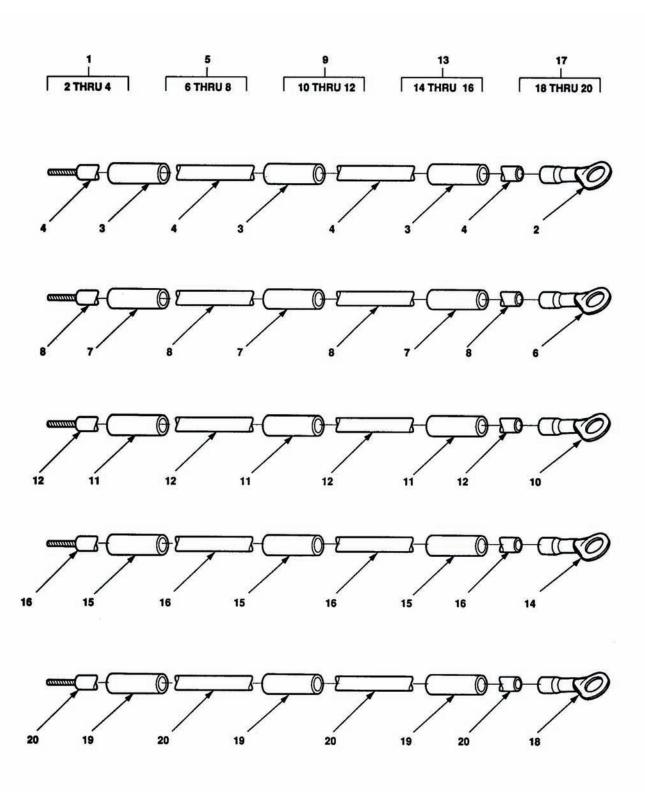


Figure F-16. Power Leads, W1-W5 (AN/MJQ-39).

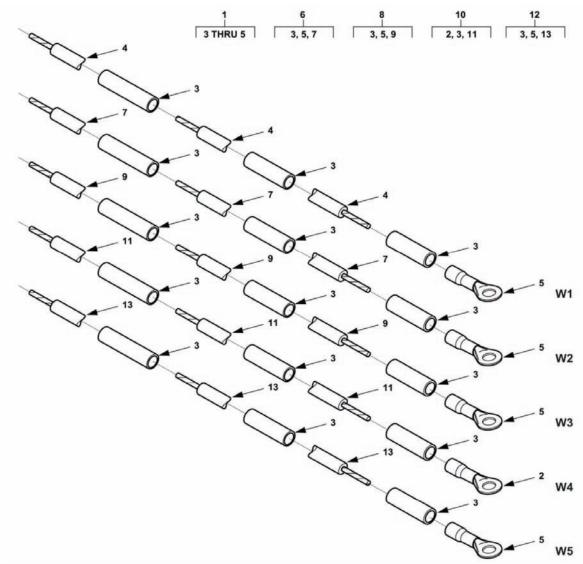
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020211 LEADS/HARNESSES, W1-W5 FIG. F-16 POWER LEADS, W1-W5 (AN/MJQ-39)	
1	AFFZZ	97403	13229E5811-1	.LEAD, POWER, W1	1
2	PAFZZ	96906	MS25036-125	UOC: YJV TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
3	PAOZZ	19099	13229E5811-1-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	3
4	PAFZZ	19099	13229E5811-1-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 54 INCHES REQUIRED (A MODEL) 37 INCHES REQUIRED (B&C MODELS) UOC: YJV	1
5	AFFZZ	97403	13229E5811-2	LEAD, POWER, W2 UOC: YJV	1
6	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
7	PAOZZ	19099	13229E5811-2-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	3
8	PAFZZ	19099	13229E5811-2-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 59 INCHES REQUIRED (A MODEL) 39 INCHES REQUIRED (B&C MODELS) UOC: YJV	1
9	AFFZZ	97403	13229E5811-3	LEAD, POWER, W3 UOC: YJV	1
10	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
11	PAOZZ	19099	13229E5811-3-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	3
12	PAFZZ	19099	13229E5811-3-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 64 INCHES REQUIRED (A MODEL) 41 INCHES REQUIRED (B&C MODELS) UOC: YJV	1
13	AFFZZ	97403	13229E5811-4	LEAD, POWER, W4 UOC: YJV	1
14	PAFZZ	96906	MS25039-145	TERMINAL, LUG STUD SIZE .500 INCHES UOC: YJV	1
15	PAOZZ	19099	13229E5811-4-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	3

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
16	PAFZZ	19099	13229E5811-4-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 45 INCHES REQUIRED (A MODEL) 49 INCHES REQUIRED (B&C MODELS) UOC: YJV	1
17	AFFZZ	97403	13229E5811-5	.LEAD, POWER, W5 UOC: YJV	1
18	PAFZZ	96906	MS25036-125	TERMINAL, LUG STUD SIZE .375 INCHES UOC: YJV	1
19	PAOZZ	19099	13229E5811-5-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-9 (81349) 2.5 INCHES REQUIRED UOC: YJV	3
20	PAFZZ	19099	13229E5811-5-1	WIRE, ELECTRICAL MAKE FROM P/N M5086/2-4-9 (81349) 37 INCHES REQUIRED (A MODEL) 45 INCHES REQUIRED (B&C MODELS) UOC: YJV	1

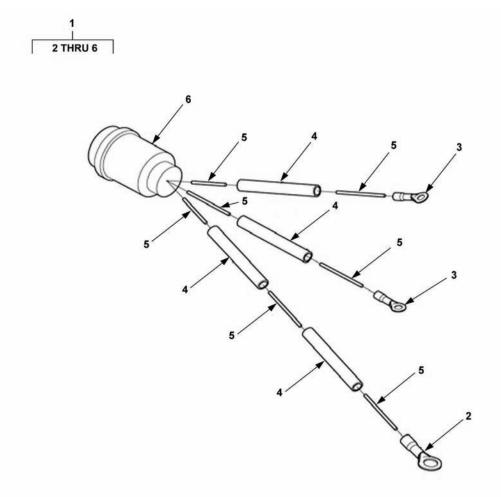
END OF FIGURE



			WIRE LIST			
WIRE NO.		TERMINATION		TERMINATION		WIRE ITEM
	REF. DES.	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	W1	G1-L1	-	K1-A1	5	4
6	W2	G1-L2	-	K1-B1	5	7
8	W3	G1-L3	-	K1-C1	5	9
10	W4	G1-N	-	N	2	11
12	W5	G1-GND	-	GND-1	5	13

Figure F-16A. Power Leads, W1-W5 (AN/MJQ-48/48A).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020211 LEADS/HARNESSES, W1-W5	
				FIG. F-16A POWER LEADS, W1-W5 (AN/MJQ-48/48A).	
1	AFFZZ	97403	13229E5811-6	.LEAD, POWER, W1 UOC: 91D, 91E	1
2	PAFZZ	96906	MS25036-131	TERMINAL,LUG UOC: 91D, 91E	1
3	PAOZZ	19099	M23053/5-108-4	INSULATION SLEEVING MAKE FROM P/N M23053/5-108-4 (81349) 2.5 INCHES REQUIRED	15
4	PAFZZ	19099	13229E5811-6-2	UOC: 91D, 91E WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 33 INCHES REQUIRED UOC: 91D, 91E	1
5	PAFZZ	96906	MS25036-130	TERMINAL,LUG UOC: 91D, 91E	4
6	AFFZZ	97403	13229E5811-7	.LEAD,POWER, W2	1
7	PAFZZ	19099	13229E5811-7-2	UOC: 91D, 91E WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 39 INCHES REQUIRED UOC: 91D, 91E	1
8	AFFZZ	97403	13229E5811-8	.LEAD,POWER, W3 UOC: 91D, 91E	1
9	PAFZZ	19099	13229E5811-8-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 42 INCHES REQUIRED UOC: 91D, 91E	1
10	AFFZZ	97403	13229E5811-9	.LEAD,POWER, W4 UOC: 91D, 91E	1
11	PAFZZ	19099	13229E5811-9-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 48 INCHES REQUIRED UOC: 91D, 91E	1
12	AFFZZ	97403	13229E5811-10	.LEAD,POWER, W5 UOC: 91D, 91E	1
13	PAFZZ	19099	13229E5811-10-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-1-9 (81349) 39 INCHES REQUIRED UOC: 91D, 91E	1
				END OF FIGURE	



001		WIRE	LIST		g.
WIRE NO.	TERMI	NATION	TERMINATION		WIRE ITEM
	FROM	ITEM NO.	TO.	ITEM NO.	NO.
1	P1-A	6	K1-12	3	5
2	P1-B	6	K1-Y	3	5
3 (A MODEL)	P1-E	6	BUS BAR	2	5
3 (B & C MODELS)	P1-E	6	GND 2	2	5

Figure F-17. Power Switch Harness, W18

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020212 POWER LEAD/HARNESS, W18	
				FIG. F-17 POWER SWITCH HARNESS, W18	
1	XDFFF	97403	13229E5806-2	.WIRING HARNESS POWER, SWITCHBOX UOC: YJV, 91D, 91E	1
2	PAFZZ	96906	MS25036-154	TERMINAL, LUG UOC: YJV, 91D, 91E	1
3	PAFZZ	96906	MS25036-107	TERMINAL, LUG UOC: YJV, 91D, 91E	2
4	PAOZZ	19099	13229E5806-2-5	INSULATION SLEEVING MAKE FROM P/N M23053/5-104-4 (81349) 2.00 INCHES REQUIRED UOC: YJV, 91D, 91E	4
5	PAFZZ	19099	13229E5806-2-2	WIRE, ELECTRICAL MAKE FROM P/N M22759/16-16-9 (81349) AS REQUIRED UOC: YJV, 91D, 91E	3
6	PAFZZ	96906	MS3456W18-11S	CONNECTOR, PLUG, ELEC UOC: YJV, 91D, 91E	1
				END OF FIGURE	

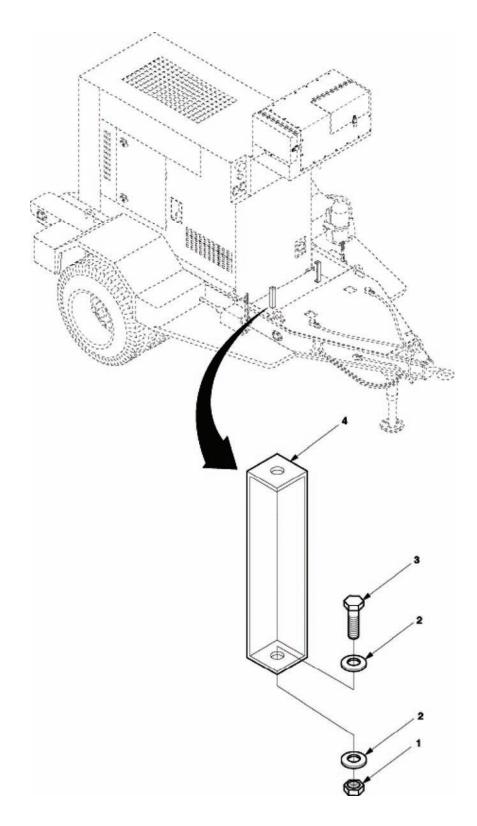


Figure F-18. Switch Box Support (A Model).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 020213 SWITCH BOX SUPPORT	
				FIG. F-18 SWITCH BOX SUPPORT (A MODEL)	
1	PAFZZ	96906	MS35649-2382	NUT, PLAIN, HEXAGON UOC: YJV	1
2	PAFZZ	96906	MS51412-27	WASHER, FLAT UOC: YJV	2
3	PAFZZ	80204	B1821BH038C138N	SCREW, CAP, HEXAGON UOC: YJV	1
4	XBFZZ	97403	13230E4592	SUPPORT, SWITCH BOX UOC: YJV NOTE: The Switch Box Support (4) and its mounting hardware are used only on models of the trailer that of the old, step-down type of Front Platform. An example	
				this platform can be seen in Fig. F-29.	

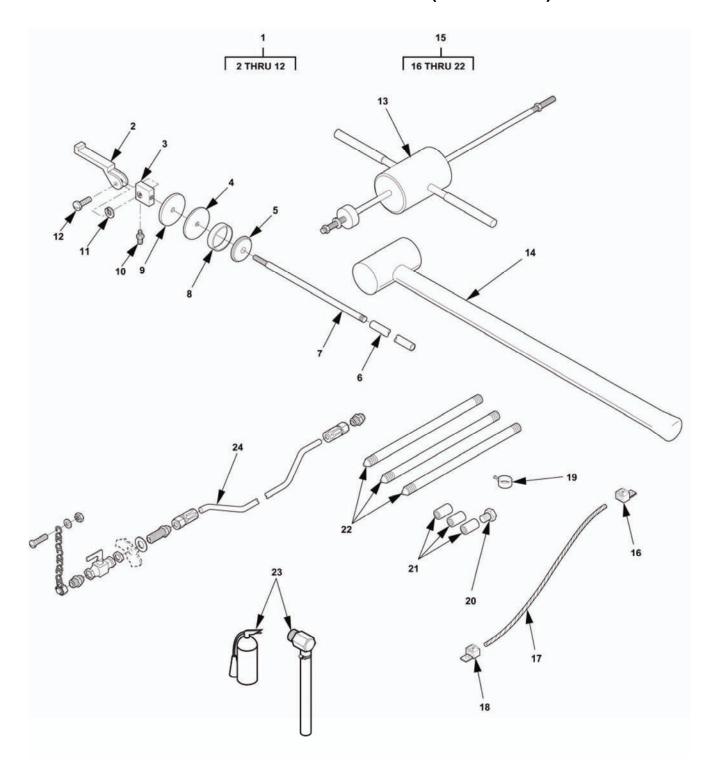


Figure F-19. Accessories.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 ACCESSORIES	
				FIG. F-19 ACCESSORIES	
1	PAOZZ	06076	13211E7541	.ADAPTER, CONTAINER UOC: YFW, YEZ, FMG, YFV	1
2	XBOZZ	97403	13200E6363	CLAMP, STRAINER UOC: YFW, YEZ, FMG, YFV	1
3	XBOZZ	97403	13211E7548	HEAD UOC: YFW, YEZ, FMG, YFV	1
4	XBOZZ	97403	13211E7547	WASHER, FLAT UOC: YFW, YEZ, FMG, YFV	1
5	PAOZZ	97403	13211E7544	WASHER, RECESSED	1
6	PAOZZ	97403	13211E7542	UOC: YFW, YEZ, FMG, YFVPIPE, METALLIC	1
7	PAOZZ	97403	13211E7543	UOC: YFW, YEZ, FMG, YFVPIPE, METALLIC	1
8	PAOZZ	97403	13211E7546	UOC: YFW, YEZ, FMG, YFV GASKET	1
9	XBOZZ	97403	13200E6361	UOC: YFW, YEZ, FMG, YFV WASHER, FLAT UOC: YFW, YEZ, FMG, YFV	1
10	PAOZZ	96906	MS51500A8-4	ADAPTER, STRAIGHT	1
11	PAOZZ	96906	MS35335-60	UOC: YFW, YEZ, FMG, YFVWASHER, LOCK	2
12	PAOZZ	29440	PL-19-3	UOC: YFW, YEZ, FMG, YFV SCREW, SHOULDER UOC: YFW, YEZ, FMG, YFV	2
13	PAOZZ	97403	13226E7741	.DRIVER/PULLER	1
14	PAOZZ	58536	A-A-1293	UOC: YFW, YEZ, FMG, YFV .HAMMER, HAND	1
15	PAOZZ	58536	A-A-55804-3B	UOC: YFW, YEZ, FMG, YFV .ROD, GROUND WITH ATTA UOC: YFW, YEZ, FMG, YFV	1
16	PAOZZ	01667	CBA-70	TERMINAL, LUG UOC: YFW, YEZ, FMG, YFV	1
17	PAFZZ	81348	QQW343C06B1B	WIRE, ELECTRICAL MAKE AS REQUIRED	1
18	PAOZZ	96906	MS25036-122	UOC: YFW, YEZ, FMG, YFVTERMINAL, LUG	1
19	PAOZZ	04655	70-801074	UOC: YFW, YEZ, FMG, YFV CLAMP,ELECTRICAL UOC: YFW, YEZ, FMG, YFV	1
20	PAOZZ	73616	GRB58	DRIVE HEAD UOC: YFW, YEZ, FMG, YFV	1
21	PAOZZ	0BKK8	GRC 58	COUPLING,GROUND ROD UOC: YFW, YEZ, FMG, YFV	3
22	PAOZZ	58536	A-A-55804	ROD, GROUND UOC: YFW, YEZ, FMG, YFV	3

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 ACCESSORIES	
				FIG. F-19 ACCESSORIES	
23	AFFZZ	30554	13230E6380-4A	OIL DRAIN AND FIRE EXTINGUISHER (SEE FIGURE F-20 FOR PARTS BREAKDOWN) UOC: YFW, YEZ, FMG, YFV	REF
24	AFFZZ	30554	13230E6381-2A		REF
				END OF FIGURE	

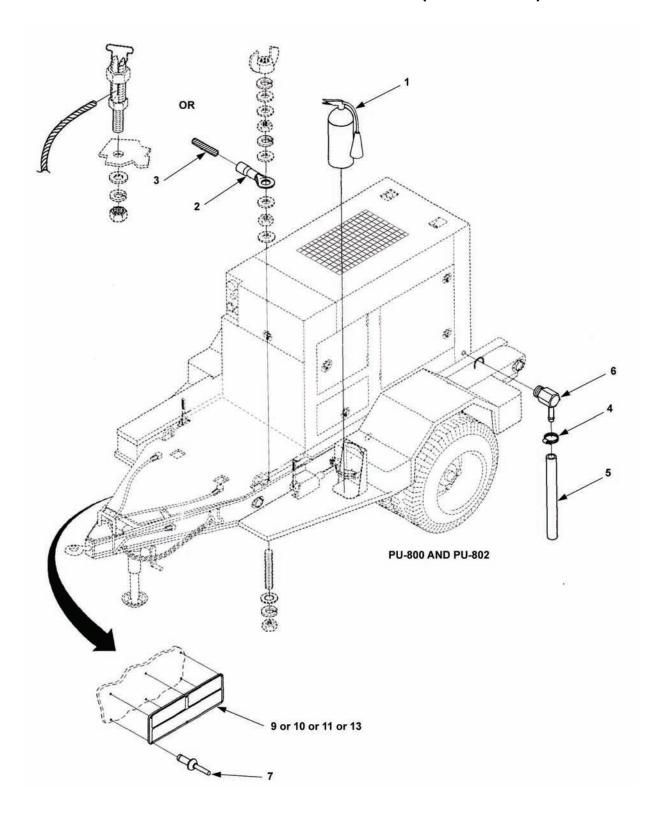


Figure F-20. Oil Drain, Fire Extinguisher and Ground Cable (Sheet 1 of 3).

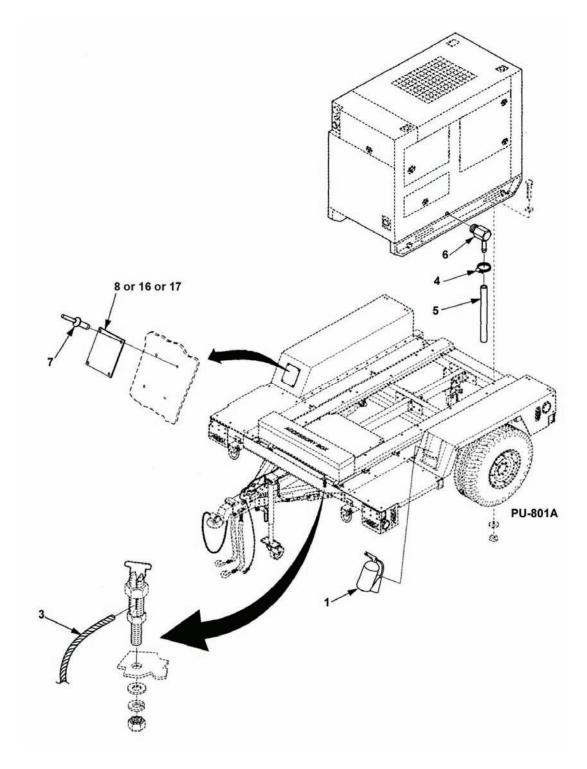


Figure F-20. Oil Drain, Fire Extinguisher and Ground Cable (Sheet 2 of 3).

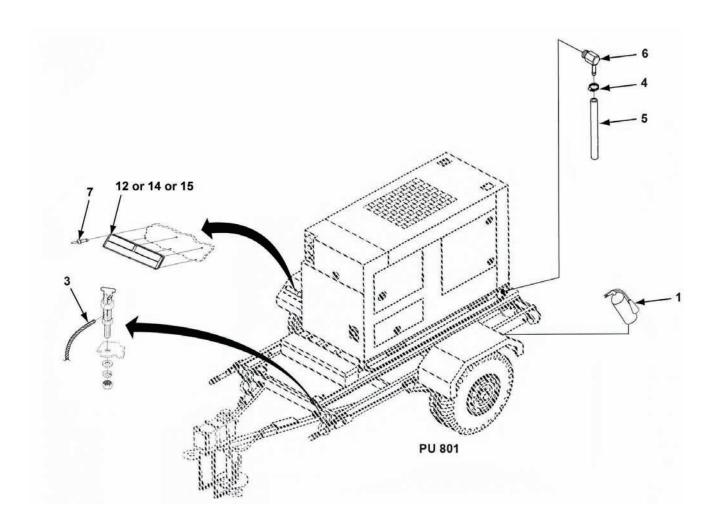


Figure F-20. Oil Drain, Fire Extinguisher and Ground Cable (Sheet 3 of 3).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 ACCESSORIES FIG. F-20 OIL DRAIN, FIRE EXTINGUISHER AND GROUND CABLE	
1	PAOZZ	97403	13230E6831	.EXTINGUISHER, FIRE	1
2	PAOZZ	96906	MS25036-122	UOC: YFW, YEZ, FMG, YFV .TERMINAL, LUG	1
3	PAFZZ	19099	QQW343C06B1B	UOC: YFW, YEZ, FMG, YFV .WIRE, ELECTRICAL MAKE AS REQUIRED	1
4	PAOZZ	96906	MS35842-11	UOC: YFW, YEZ, FMG, YFV .CLAMP, HOSE	1
5	PAOZZ	19099	M6000F00200	UOC: YFW, YEZ, FMG, YFV .HOSE, NONMETALLIC MAKE AS REQUIRED	1
6	PAOZZ	96906	MS24519-9	UOC: YFW, YEZ, FMG, YFV .ELBOW, PIPE TO HOSE	1
7	PAOZZ	81349	M24243/1-B604	UOC: YFW, YEZ, FMG, YFV .RIVET, BLIND	6
7	PAOZZ	07707	AD45ABS	UOC: UOC: YFW, YEZ, YFV .RIVET, BLIND	4
8	MDOZZ	30554	13230E6521-4	UOC: FMG .PLATE, SHIPPING DATA/IDENTIFICATION	1
9	MDOZZ	97403	13229E5666-6	UOC: FMG .PLATE, IDENTIFICATION/	1
Ü	WD 022	07 100	1022020000	TRANSPORTATION DATA PLATE, UNIT A UOC: YJV	•
10	MDOZZ	97403	13229E5666-16	.PLATE, IDENTIFICATION/ TRANSPORTATION DATA PLATE	1
11	MDOZZ	97403	13229E5666-18	UOC: YFW .PLATE, IDENTIFICATION/ TRANSPORTATION DATA PLATE	1
12	MDOZZ	07400	42220EECCC 47	UOC: YFV	4
12	MDOZZ	97403	13229E5666-17	.PLATE, IDENTIFICATION/ TRANSPORTATION DATA PLATE	1
13	MDOZZ	97403	13229E5666-5	UOC: YEZ .PLATE, IDENTIFICATION/	1
				TRANSPORTATION DATA PLATE, UNIT B UOC: YJV	
14	MDOZZ	97403	13229E5666-46	.PLATE, IDENTIFICATION/ TRANSPORTATION DATA PLATE, UNIT A	1
15	MDOZZ	97403	13229E5666-45	UOC: 91D .PLATE, IDENTIFICATION/	1
				TRANSPORTATION DATA PLATE, UNIT B UOC: 91D	
16	MDOZZ	30554	13230E6521-7	.PLATE, SHIPPING DATA/IDENTIFICATION, UNIT A UOC: 91E	1
17	MDOZZ	30554	13230E6521-6	.PLATE, SHIPPING DATA/IDENTIFICATION, UNIT B UOC: 91E	1

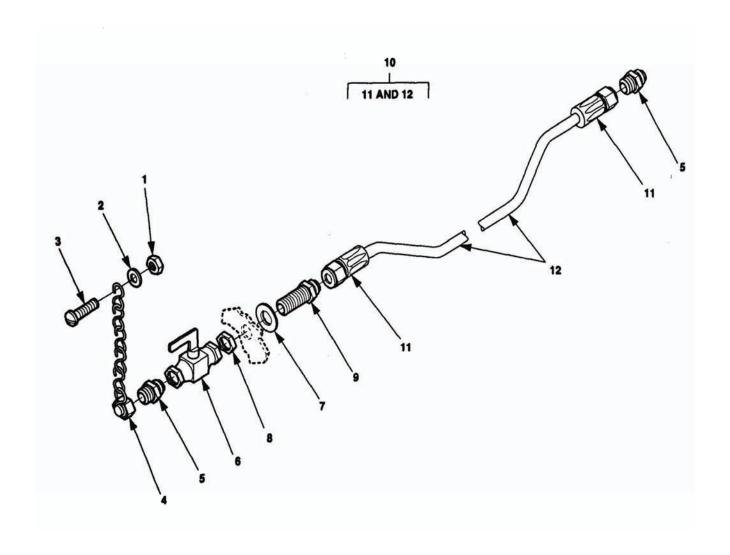


Figure F-21. Fuel Drain Assembly

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 ACCESSORIES	
				FIG. F-21 FUEL DRAIN ASSEMBLY	
1	PAOZZ	96906	MS51922-1	NUT, SELF-LOCKING, HEX	1
2	PAOZZ	96906	MS15795-852	UOC: YFW, YFV WASHER, FLAT	2
3	PAOZZ	96906	MS35206-283	UOC: YFW, YFV _SCREW, MACHINE UOC: YFW, YFV	1
4	PAOZZ	93742	69-539-2	LCAP, TUBE UOC: YFW, YFV	1
5	PAOZZ	96906	MS51519B5Z/A5Z	_NIPPLE, TUBE	1
6	PAOZZ	96906	MS35930-2	UOC: YFW, YFV	1
7	PAOZZ	96906	MS51860-54	UOC: YFW, YFV LOCKNUT, TUBE FITTING	1
8	PAFZZ	96906	MS27183-17	UOC: YFW, YFV LWASHER, FLAT UOC: YFW, YFV	1
9	PAFZZ	96906	MS51520A5Z	NIPPLE, TUBE UOC: YFW, YFV	1
10	AFFFF	96906	MS52103A050400R	.HOSE ASSEMBLY	1
11	PAFZZ	96906	MS24587-5	UOC: YFW, YFVADAPTER, STRAIGHT, TUBE	2
12	PAOZZ	19099	MS52103-2	UOC: YFW, YFV HOSE,NONMETALLIC MAKE FROM P/N FC173-5 (01276) 40 INCHES REQUIRED UOC: YFW, YFV	1

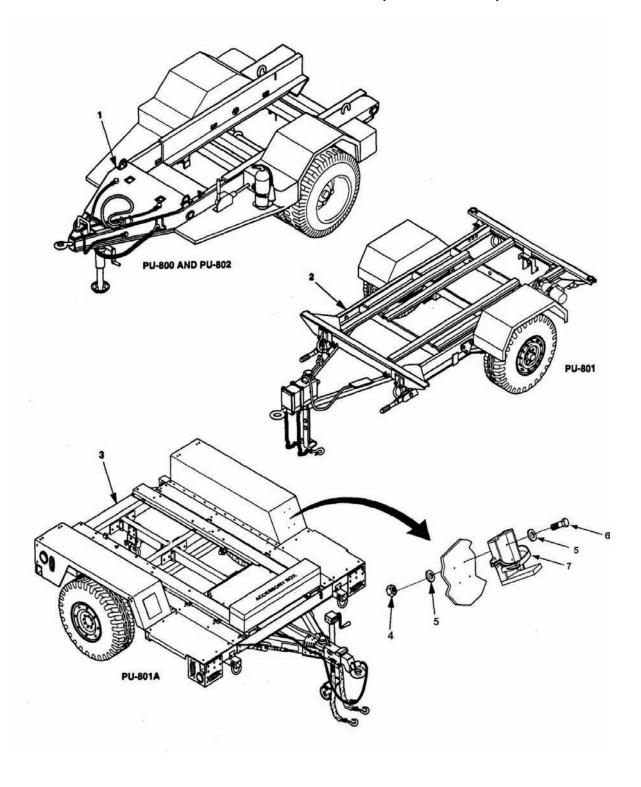


Figure F-22. Trailer Assembly.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-22 TRAILER ASSEMBLY	
1	PBFFF	97403	13229E9632	TRAILER, 2 ½ TON UOC: YFW, YFV	1
2	PBFFF	97403	13230E6829	TRAILER, GENERATOR UOC: YEZ	1
3	PBFFF	30554	13230E6565	TRAILER, GENERATOR UOC: FMG	1
4	PAOZZ	97403	13230E6382-4	.NUT, SELF-LOCKING, HEXAGON UOC: FMG	4
5	PAOZZ	30554	88-20033-25A	.WASHER, FLAT UOC: FMG	8
6	PAOZZ	05049	B1821BH031C100N	.SCREW, CAP, HEXAGON UOC: FMG	4
7	PAOZZ	97403	13230E6858	BRACKET, FIRE EXTING UOC: FMG	1

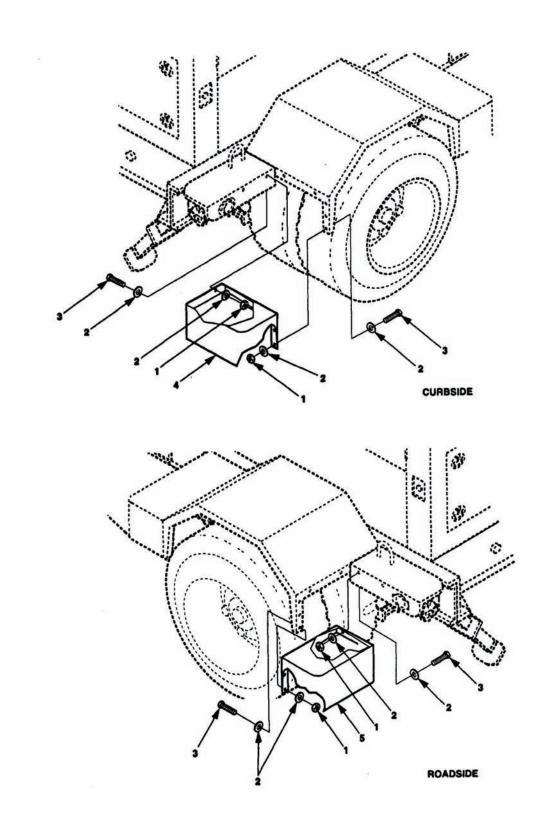


Figure F-23. 2.5 Ton Trailer, Rear Steps.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-23 2.5 TON TRAILER, REAR STEPS	
1	PAOZZ	96906	MS51922-9	.NUT, SELF-LOCKING, HEX	14
2	PAOZZ	96906	MS51412-25	UOC: YFW, YFV .WASHER, FLAT	28
3	PAOZZ	80204	B1821BH031C125N	UOC: YFW, YFV .BOLT, MACHINE	14
4	XDOFF	97403	13214E1259	UOC: YFW, YFV .STEP, REAR CURBSIDE	1
5	XDOFF	97403	13214E1261	UOC: YFW, YFV .STEP, REAR ROADSIDE UOC: YFW, YFV	1
				END OF FIGURE	

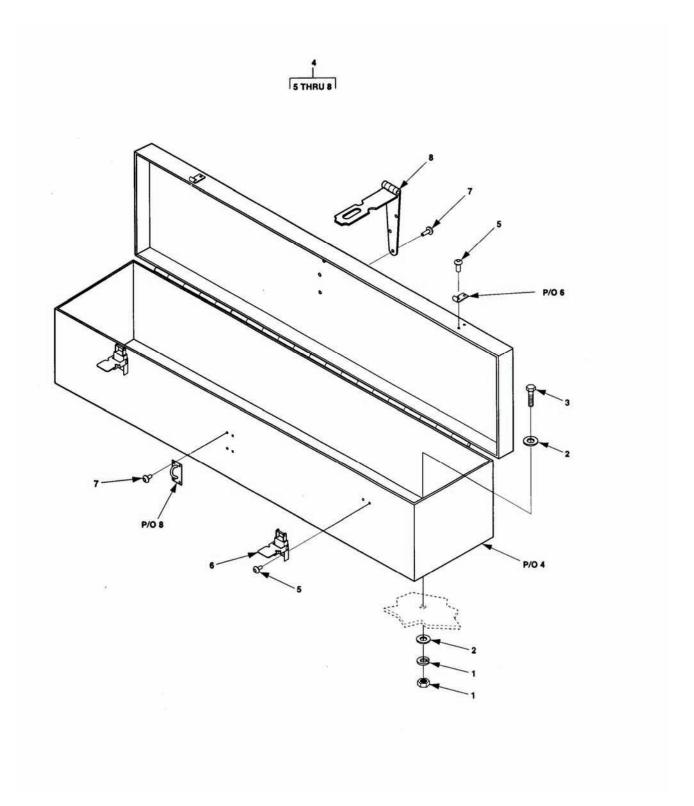


Figure F-24. Accessory Box.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-24 ACCESSORY BOX	
1	PAOZZ	96906	MS51922-9	.NUT, SELF-LOCKING, HEX UOC: YFW, YEZ, YFV	4
1	PAOZZ	96906	MS35650-3314	.NUT, PLAIN, HEX UOC: FMG	4
1	PAOZZ	96906	MS35338-140	.WASHER, LOCK UOC: FMG	4
2	PAOZZ	96906	MS51412-25	.WASHER, FLAT UOC: YFW, YEZ, YFV	8
2	PAOZZ	96906	MS15795-812	.WASHER, FLAT UOC: FMG	8
3	PAOZZ	80204	B1821BH031C100N	BOLT, MACHINE UOC: YEZ	4
3	PAOZZ	80204	B1821BH031C125N	BOLT, MACHINE VOC: YFW, YFV	4
3	PAOZZ	96906	MS35308-334	BOLT, MACHINE UOC: FMG	2
3	PAOZZ	96906	MS35308-338	BOLT, MACHINE UOC: FMG	2
4	XDOZZ	97403	13229E7946	.ACCESSORY BOX UOC: YFW, YEZ, YFV, FMG	1
5	PAOZZ	96906	MS20613-4P5	RIVET, SOLID UOC: YFW, YEZ, YFV, FMG	8
6	PAOZZ	96906	MS18015-1	CATCH, CLAMPING UOC: YFW, YEZ, YFV, FMG	2
7	PAOZZ	96906	MS20427-4C6	RIVET, SOLID UOC: YFW, YEZ, YFV, FMG	8
8	PAOZZ	96906	MS27969-4	HASP, HINGED UOC: YFW, YEZ, YFV, FMG	1

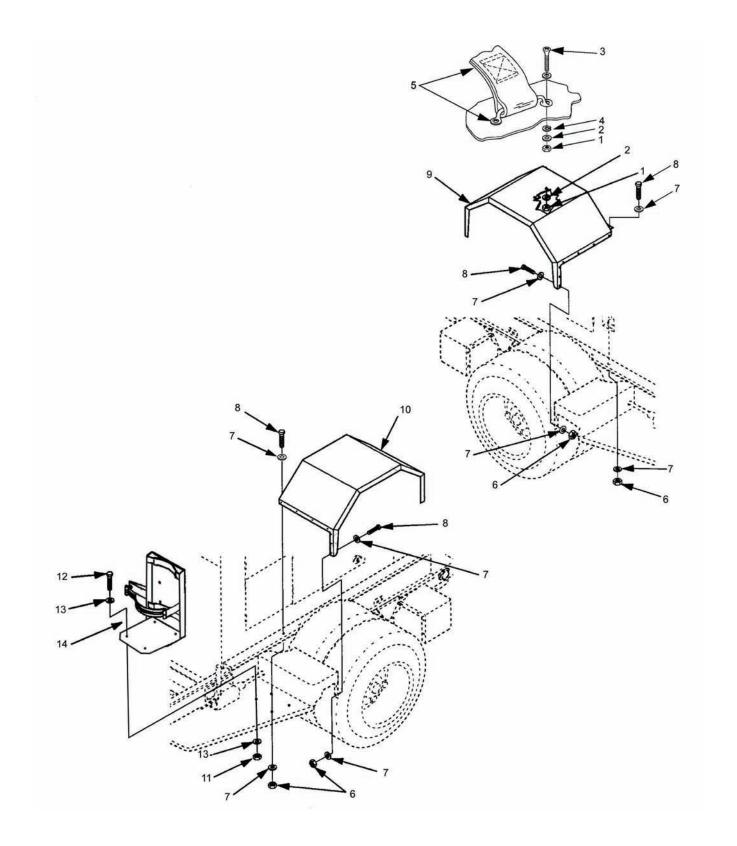


Figure F-25. 2.5 Ton Trailer Fenders.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-25 2.5 TON TRAILER FENDERS	
1	PAOZZ	96906	MS35650-302	.NUT, PLAIN, HEXAGON UOC: YFW, YFV	2
2	PAOZZ	96906	MS51415-3	.WASHER, LOCK UOC: YFW, YFV	2
3	PAOZZ	96906	MS35191-273	SCREW, MACHINE UOC: YFW, YFV	2
4	PAOZZ	96906	MS51412-21	.WASHER, FLAT UOC: YFW, YFV	2
5	PAOZZ	97403	13218E5091	STRAP ASSEMBLY UOC: YFW, YFV	1
6	PAOZZ	96906	MS51922-9	.NUT, SELF-LOCKING, HEX UOC: YFW, YFV	24
7	PAOZZ	96906	MS51412-25	.WASHER, FLAT UOC: YFW, YFV	48
8	PAOZZ	80204	B1821BH031C125N	•	24
9	PAOFF	97403	13214E1263	.FENDER, CURBSIDE UOC: YFW, YFV	1
10	PAOFF	97403	13214E1264	.FENDER, ROADSIDE UOC: YFW, YFV	1
11	PAOZZ	97403	13230E6382-4	.NUT, SELF-LOCKING, HEX UOC: YFW, YFV	4
12	PAOZZ	05047	B1821BH031C100N	,	4
13	PAOZZ	30554	88-20033-25A	.WASHER, FLAT UOC: YFW, YFV	8
14	XDOZZ	97403	13230E6858	.BRACKET, FIRE EXTING UOC: YFW, YFV	1

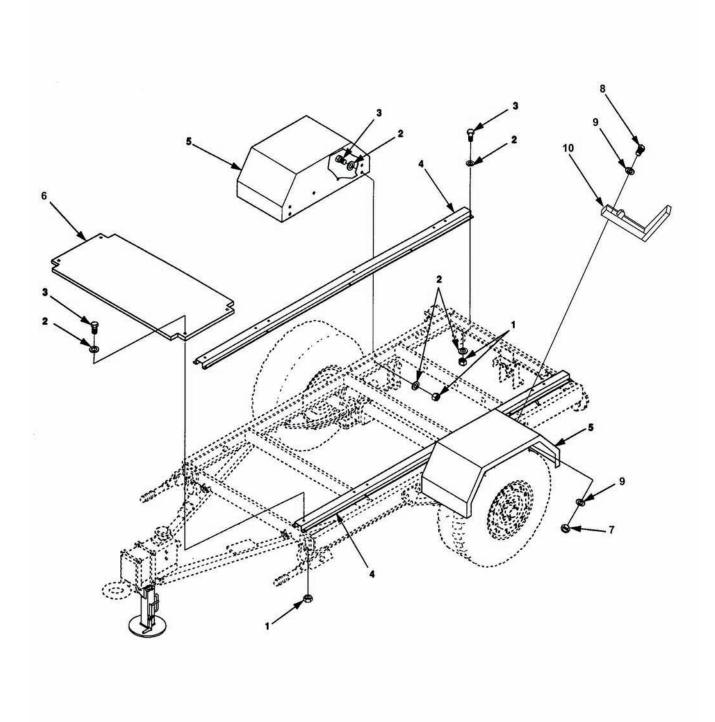


Figure F-26. Fenders One Ton Trailer.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSY	
				FIG. F-26 FENDERS ONE TON TRAILER	
1	PAOZZ	96906	MS51922-17	.NUT, SELF-LOCKING, HEX UOC: YEZ	36
2	PAOZZ	96906	MS27183-57	.WASHER, FLAT UOC: YEZ	68
3	PAOZZ	80204	B1821BH038C125N	.SCREW, CAP, HEXAGON UOC: YEZ	36
4	XDOFF	97403	13229E5744	RAIL UOC: YEZ	2
5	XDOFF	97403	13230E6532	.FENDER UOC: YEZ	2
6	XDOFF	97403	13229E9621-3	.PLATFORM, 1 TON TRLR UOC: YEZ	1
7	PAOZZ	97403	13230E6382-4	.NUT, SELF-LOCKING, HEX UOC: YEZ	4
8	PAOZZ	05047	B1821BH031C100N	.SCREW, CAP, HEXAGON	4
9	PAOZZ	30554	88-20033-25A	UOC: YEZ .WASHER, FLAT	8
10	PAOZZ	97403	13230E6858	UOC: YEZ .BRACKET, FIRE EXTING UOC: YEZ	1

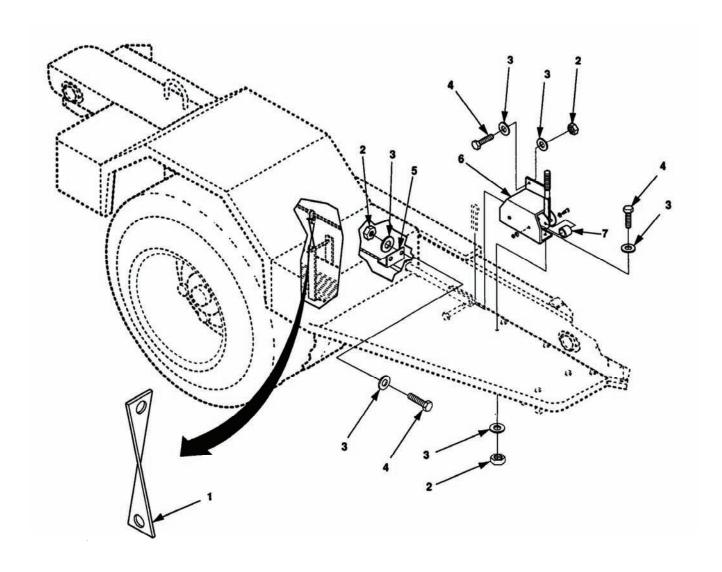


Figure F-27. Brake Assembly 2.5 Ton Trailer.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-27 BRAKE ASSEMBLY 2.5 TON TRAILER	
1	XDOZZ	97403	13214E1271	.STRAP, BRAKE, CABLE	2
2	PAOZZ	96906	MS51922-9	UOC: YFW, YFV .NUT, SELF-LOCKING, HEX	12
3	PAOZZ	96906	MS51412-25	UOC: YFW, YFV .WASHER, FLAT UOC: YFW, YFV	24
4	PAOZZ	80204	B1821BH031C125N	BOLT, MACHINE	12
5	XDOZZ	97403	13214E1270	UOC: YFW, YFV .BRACKET, ANGLE	2
6	XDOZZ	97403	13214E1269	UOC: YFW, YFV .BRACKET, BRAKE UOC: YFW, YFV	2
7	PAOZZ	97403	13214E1272	.SPACER, SLEEVE UOC: YFW, YFV	4

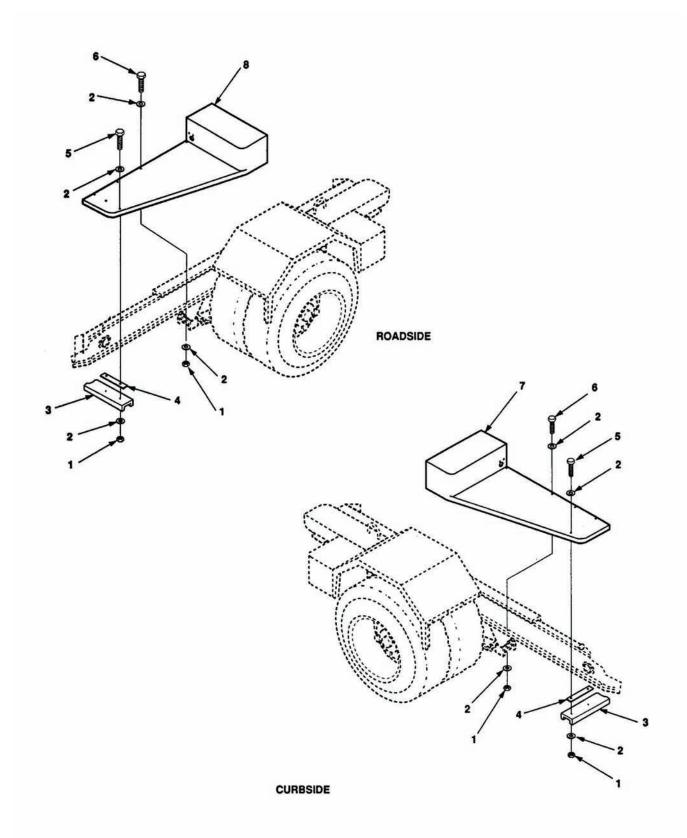


Figure F-28. Front Steps 2.5 Ton Trailer.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-28 FRONT STEPS 2.5 TON TRAILER	
1	PAOZZ	96906	MS51922-9	.NUT, SELF-LOCKING, HEX UOC: YFW, YFV	12
2	PAOZZ	96906	MS51412-25	.WASHER, FLAT UOC: YFW, YFV	24
3	XDOZZ	97403	13214E1268	.CHANNEL 1 UOC: YFW, YFV	
4	PAOZZ	97403	13214E1267-1	.SPACER, PLATE UOC: YFW, YFV	2
5	PAOZZ	80204	B1821BH031C175N	BOLT, MACHINE UOC: YFW, YFV	6
6	PAOZZ	80204	B1821BH031C125N	BOLT, MACHINE UOC: YFW, YFV	6
7	PAOFF	97403	13214E1461	STEP, FRONT, CURBSIDE UOC: YFW, YFV	1
8	PAOFF	97403	13214E1462	STEP, FRONT, ROADSIDE UOC: YFW, YFV	1

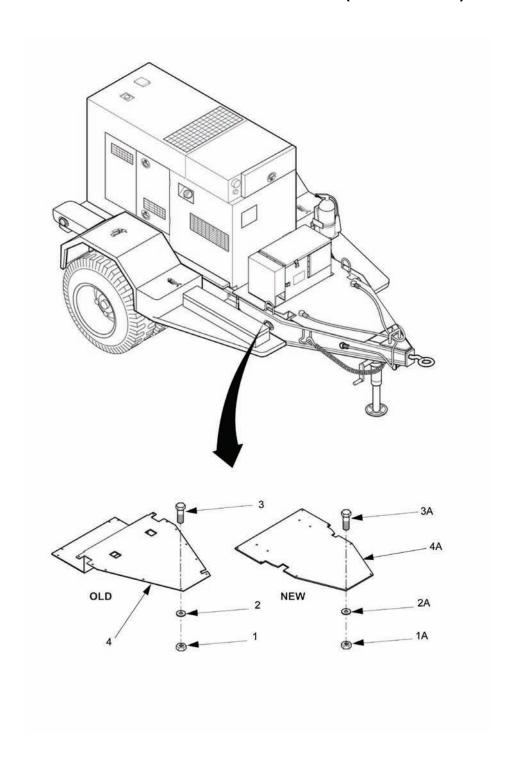


Figure F-29. Front Platform.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0406 FRONT PLATFORM	
				FIG. F-29 FRONT PLATFORM	
1	PAOZZ	81349	MS51922-9	NUT, SELF-LOCKING, HEX UOC: YFW, YFV	15
1A	PAOZZ	81349	MS51922-9	NUT, SELF-LOCKING, HEX UOC: YFW, YFV	8
2	PAOZZ	96906	MS51412-25	WASHER, FLAT UOC: YFW, YFV	15
2A	PAOZZ	96906	MS51412-25	WASHER, FLAT UOC: YFW, YFV	8
3	PAOZZ	80204	B1821BH031C125N	BOLT, MACHINE UOC: YFW, YFV	15
3A	PAOZZ	80204	B1821BH031C125N	BOLT, MACHINE UOC: YFW, YFV	8
4	XDOFF	97403	13229E6108	PLATFORM, FRONT UOC: YFW, YFV	1
4A	XDOFF	97403	13229E6108	PLATFORM, FRONT UOC: YFW, YFV	1

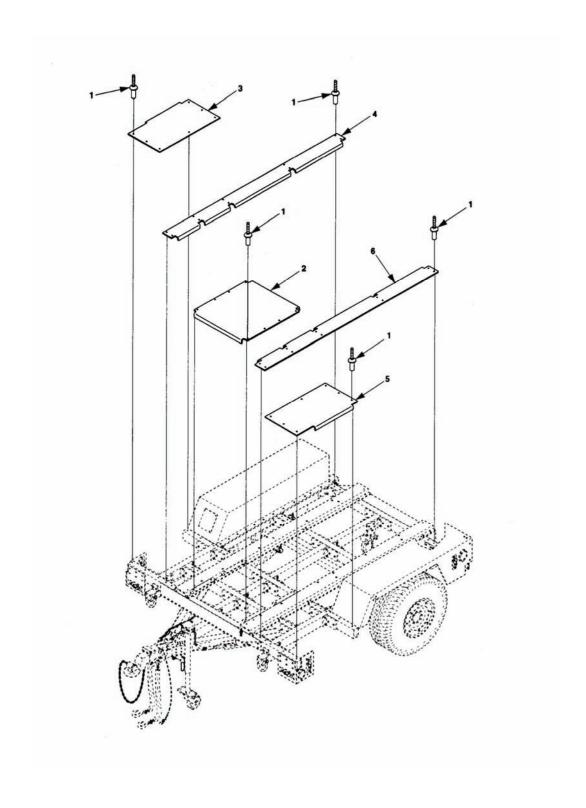


Figure F-29A. LTT Trailer Floors.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-29A LTT TRAILER FLOORS	
1	PAFZZ	17446	MGLP-R8-10	.RIVET, BLIND UOC: FMG	42
2	XDFZZ	30554	13230E6568	.FLOOR, CENTER UOC: FMG	1
3	XDFZZ	30554	13230E6567-1	.FLOOR, SIDE, RH UOC: FMG	1
4	XDFZZ	30554	13230E6564-1	.FLOOR, SIDE, INNER, RH UOC: FMG	1
5	XDFZZ	30554	13230E6567-2	.FLOOR, SIDE, LH UOC: FMG	1
6	XDFZZ	30554	13230E6564-2	.FLOOR, SIDE, INNER, LH UOC: FMG	1

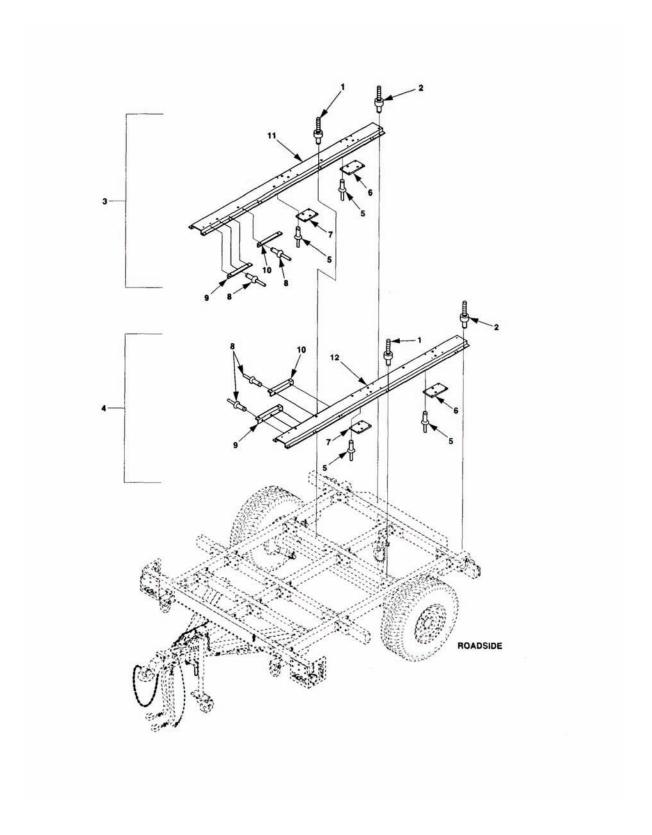


Figure F-29B. LTT Trailer, Mounting Rails and Fenders (Sheet 1 of 2).

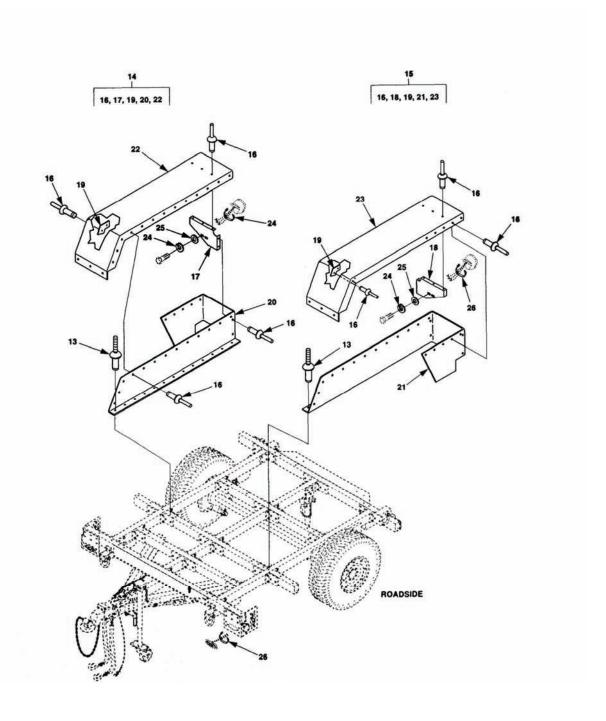


Figure F-29B. LTT Trailer, Mounting Rails and Fenders (Sheet 2 of 2).

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-29B LTT TRAILER, MOUNTING RAILS AND FENDERS	
1	PAFZZ	9K475	BOM-R8-8	.RIVET, BLIND UOC: FMG	40
2	PAFZZ	9K475	BOM-R8-10	.RIVET, BLIND	4
3	XDFFF	30554	13230E6569-1	UOC: FMG .RAIL ASSY, MTG, RH UOC: FMG	1
4	XDFFF	30554	13230E6569-2	RAIL ASSY, MTG, LH UOC: FMG	1
5	PAFZZ	17446	MGL100-R6-9	RIVET, BLIND UOC: FMG	16
6	XDFZZ	30554	13230E6527	PLATE, DOUBLER, MTG R UOC: FMG	2
7	XDFZZ	30554	13230E6576	PLATE, DOUBLER, MTG R UOC: FMG	2
8	PAFZZ	17446	MGLP-R8-10	RIVET, BLIND UOC: FMG	10
9	XDFZZ	30554	13230E6577	ANGLE, SUPPORT, MTG R UOC: FMG	2
10	XDFZZ	30554	13230E6526	ANGLE, SUPPORT, MTG R UOC: FMG	2
11	XDFZZ	30554	13230E6578-1	RAIL, MOUNTING GEN SET, R-H UOC: FMG	1
12	XDFZZ	30554	13230E6578-2	RAIL, MOUNTING GEN SET, L-H UOC: FMG	1
13	PAFZZ	17446	MGLP-R8-6	.RIVET, STEEL SHANK UOC: FMG	38
14	XDFFF	30554	13230E6571-1	.FENDER, ASSEMBLY, RH UOC: FMG	1
15	XDFFF	30554	13230E6571-2	.FENDER, ASSEMBLY, LH UOC: FMG	1
16	PAFZZ	17446	MGLP-R8-6	RIVET, STEEL SHANK UOC: FMG	58
17	XDFZZ	30554	13230E6582-1	BRACKET, INSIDE FEND UOC: FMG	1
18	XDFZZ	30554	13230E6582-2	BRACKET, INSIDE FEND UOC: FMG	1
19	XDFZZ	30554	13230E6579	ANGLE, SUPPORT, FEND UOC: FMG	2
20	XDFZZ	30554	13230E6583-1	FENDER, SIDE, TRAILER UOC: FMG	1
21	XDFZZ	30554	13230E6583-2	FENDER, SIDE, TRAILER UOC: FMG	1
22	XDFZZ	30554	13230E6580-1	FENDER, TOP, TRAILER UOC: FMG	1

TM 9-6115-661-13&P

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
23	XDFZZ	30554	13230E6580-2	FENDER, TOP, TRAILER UOC: FMG	1
24	PAOZZ	96906	MS35338-141	.WASHER, LOCK UOC: FMG	4
25	PAOZZ	96906	MS15795-813	.WASHER, FLAT UOC: FMG	4
26	PAOZZ	96906	MS3367-1-0	.STRAP, TIEDOWN, ELECT UOC: FMG	4

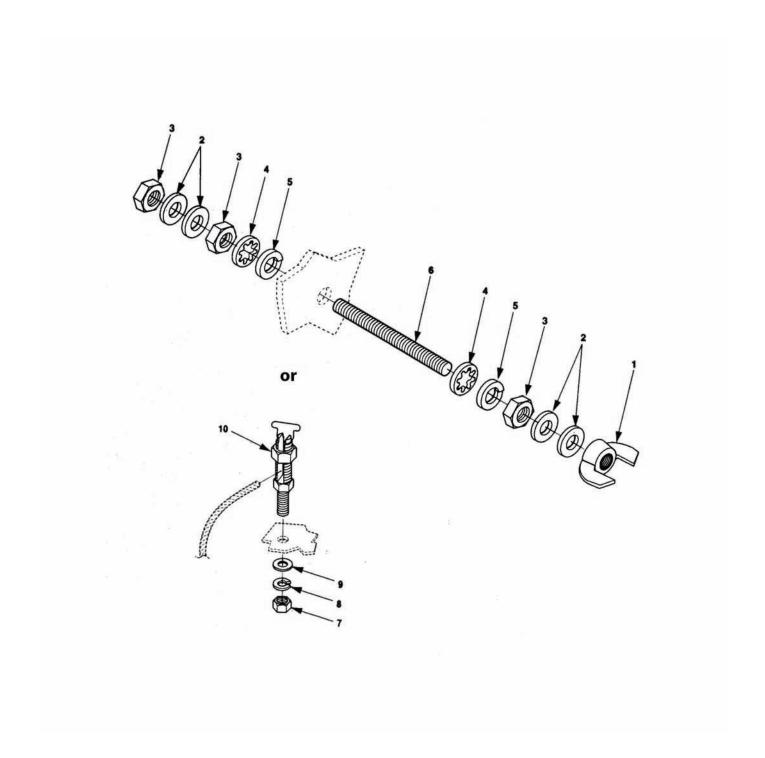


Figure F-30. Ground Stud.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-30 GROUND STUD	
1	PAOZZ	96906	MS35425-75	.NUT, PLAIN, WING UOC: YFW, YEZ, FMG, YFV	1
2	PAOZZ	88044	AN961-616	.WASHER, FLAT UOC: YFW, YEZ, FMG, YFV	4
3	PAOZZ	96906	MS16203-27	.NUT, PLAIN,HEXAGON UOC: YFW, YEZ, FMG, YFV	3
4	PAOZZ	96906	MS35338-103	.WASHER, LOCK UOC: YFW, YEZ, FMG, YFV	2
5	PAOZZ	96906	MS35333-110	.WASHER, LOCK UOC: YFW, YEZ, FMG, YFV	2
6	PAOZZ	97403	13214E1223	STUD, CONTINUOUS THR UOC: YFW, YEZ, FMG, YFV	1
7	PAOZZ	96906	MS35691-3	.NUT, PLAIN, HEXAGON UOC: YFW, YEZ, FMG, YFV	1
8	PAOZZ	96906	MS35338-158	.WASHER, LOCK UOC: YFW, YEZ, FMG, YFV	1
9	PAOZZ	96906	MS15795-810	.WASHER, FLAT	1
10	PAOZZ	96906	MS39347-2	UOC: YFW, YEZ, FMG, YFV .TERMINAL, STUD UOC: YFW, YEZ, FMG, YFV	1

END OF FIGURE

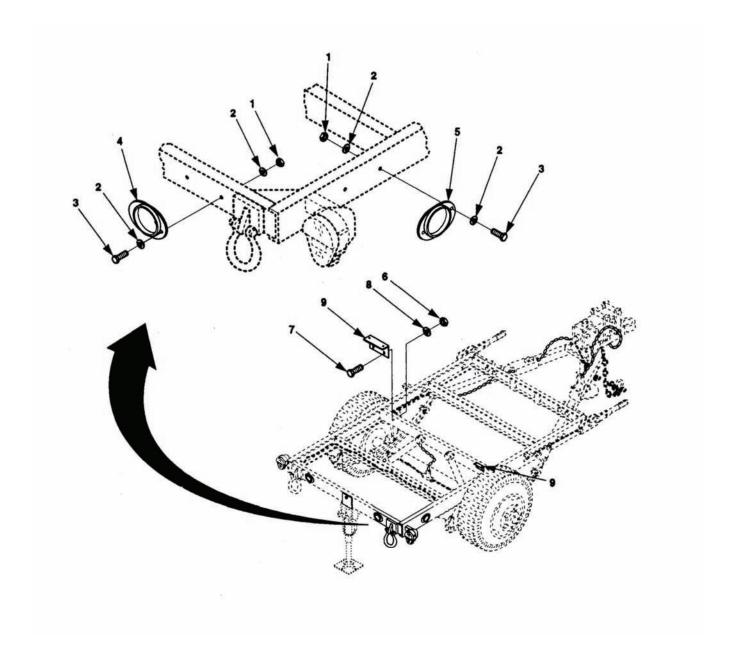


Figure F-31. One Ton Trailer, Reflectors and Brackets.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-31 ONE TON TRAILER, REFLECTORS AND BRACKETS	
1	PAOZZ	96906	MS51922-1	.NUT, SELF-LOCKING, HEX UOC: YEZ	12
2	PAOZZ	96906	MS51412-4	.WASHER, FLAT UOC: YEZ	12
3	PAOZZ	80204	B1821BH025C088N	SCREW, CAP, HEXAGON UOC: YEZ	12
4	PAOZZ	96906	MS35387-1	REFLECTOR, INDICATIN RED UOC: YEZ	4
5	PAOZZ	96906	MS35387-2	REFLECTOR, INDICATING AMBER UOC: YEZ	2
6	PAOZZ	96906	MS51922-17	.NUT, SELF-LOCKING, HEX UOC: YEZ	4
7	PAOZZ	80204	B1821BH038C225N	SCREW, CAP, HEXAGON UOC: YEZ	4
8	PAOZZ	96906	MS27183-57	.WASHER, FLAT	4
9	XDOZZ	97403	13229E5758	UOC: YEZ .BRACKET, RAIL, MOUNTING UOC: YEZ	2

END OF FIGURE

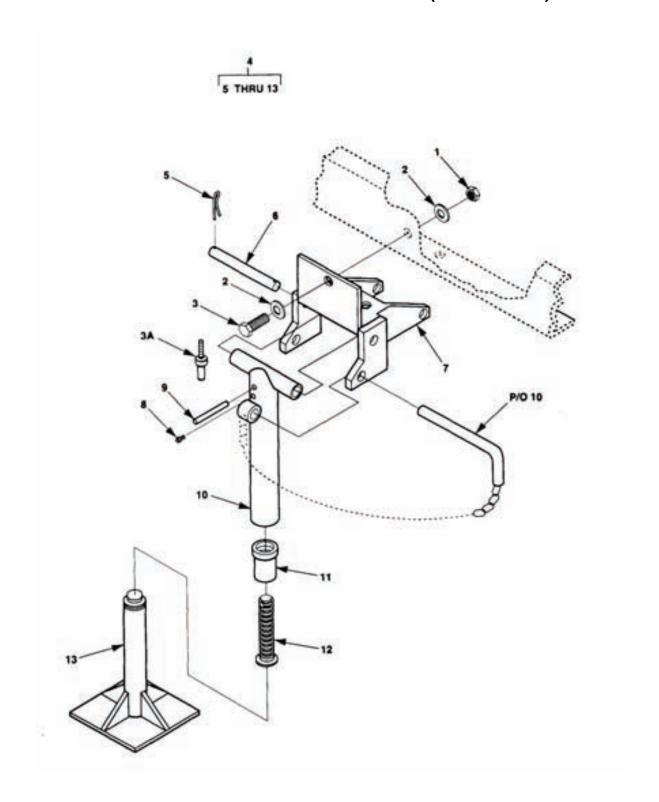


Figure F-32. One Ton and LTT Trailers Leg Prop Assembly.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-32 ONE TON AND LTT TRAILERS LEG PROP ASSEMBLY	
1	PAOZZ	96906	MS51922-17	.NUT, SELF-LOCKING, HEX UOC: YEZ	3
2	PAOZZ	96906	MS27183-57	.WASHER, FLAT UOC: YEZ	6
3	PAOZZ	80204	B1821BH050C125N	.SCREW, CAP, HEXAGON UOC: YEZ	3
3A	PAOZZ	17446	BOM-R12-8	RIVET, BLIND UOC: FMG	3
4	PAFFF	97403	13214E1206-2	.TRAILER LEG PROP ASSY	1
4	PA000	97403	13214E1206-1	UOC: FMG .TRAILERS LEG PROP ASSY	1
5	PAOZZ	96906	MS24665-353	UOC: YEZ PIN, COTTER	2
6	PBOZZ	97403	13214E1209	UOC: YEZ, FMGPIN, STRAIGHT, HEADLESS	1
7	XAOZZ	97403	13214E1207	UOC: YEZ, FMGBRACKET	1
8	PAOZZ	96906	MS15006-1	UOC: YEZ, FMG FITTING, LUBRICATION	1
9	PAOZZ	96906	MS16562-66	UOC: YEZ, FMG PIN, SPRING	1
10	XAOZZ	97403	13214E1208-1	UOC: YEZ, FMG CHAIN, PIN RETAINING	1
11	XAOZZ	97403	13214E1211	UOC: YEZ, FMG NUT, SLEEVE	1
12	XAOZZ	97403	13214E1210	UOC: YEZ, FMG BOLT, MACHINE	1
13	PBOZZ	97403	13214E1212-1	UOC: YEZ, FMG SUPPORT BASE, LEG UOC: YEZ, FMG	1
				END OF FIGURE	

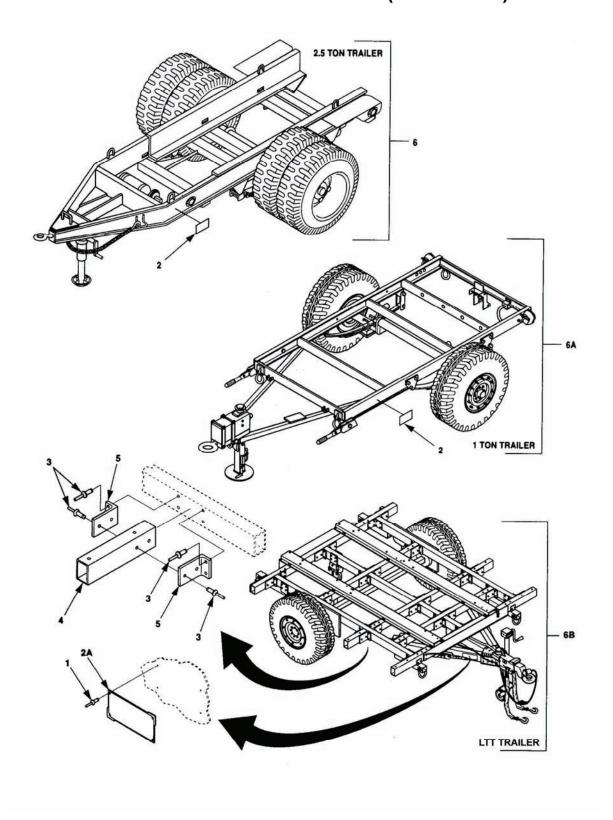


Figure F-33. Trailer Chassis.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 TRAILER ASSEMBLY	
				FIG. F-33 TRAILER CHASSIS	
1	PAOZZ	07707	AD45ABS	.RIVET, BLIND UOC: FMG	4
2	MDOZZ	97403	13205E4918	.PLATE, IDENTIFICATION UOC: YFW, YEZ, YFV	1
2A	MDOZZ	30554	13230E6572	.PLATE, IDENTIFICATION CHASSIS VARIANT UOC: FMG	1
3	PAFZZ	17446	BOM-R8-8	RIVET, BLIND UOC: FMG	16
4	XDFZZ	30554	13230E6514	STRUCTURAL SECTION UOC: FMG	2
5	XDFZZ	30554	13230E6524	.CLIP, FRAME, CORNER UOC: FMG	4
6	XAFFF	97403	13229E9633	.CHASSIS, TRLR, 2.5 TON UOC: YFW, YFV	1
6A	XAFFF	97403	13229E6829	.CHASSIS ASSEMBLY UOC: YEZ	1
6B	XAFFF	19207	12450001	CHASSIS, TRAILER-LTT UOC: FMG	1

END OF FIGURE

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 05 BULK MATERIALS	
				FIG. BULK	
1	PAFZZ	81349	CO-04HDF(4/4- 4/12R)1290	CABLE UOC: YJV	V
2	PAFZZ	71102	012822	CABLE UOC: 91D, 91E	V
3	MOOZZ	96906	MS21266-2N	GROMMET, PLASTIC EDG UOC: YJV	V
4	PAOZZ	81349	M6000-F-00200	HOSE, NONMETALLIC UOC: YFW, YEZ, FMG, YFV	V
5	PAOZZ	01276	FC173-5	HOSE, NONMETALLIC UOC: YFW, YFV	V
6	PAOZZ	81349	M23053/5-104-4	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
7	PAOZZ	81349	M23053/5-105-4	INSULATION SLEEVING UOC: YJV	V
8	PAOZZ	81349	M23053/5-105-9	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
9	PAOZZ	81349	M23053/5-107-9	INSULATION SLEEVING UOC: YJV	V
10	PAOZZ	81349	M23053/5-108-4	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
11	PAOZZ	81349	M23053/5-108-9	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
12	PAOZZ	81349	M23053/5-109-0	INSULATION SLEEVING UOC: 91D, 91E	V
13	PAOZZ	81349	M23053/5-109-9	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
14	PAOZZ	81349	M23053/5-110-9	INSULATION SLEEVING UOC: YJV, 91D, 91E	V
15	PAOZZ	81349	M23053/5-112-0	INSULATION SLEEVING UOC: YJV	V
16	PAOZZ	81349	M23053/5-113-0	INSULATION SLEEVING UOC: 91D, 91E	V

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
17	MOOZZ	88001	C1832	ROPE, FIBROUS UOC: YJV, 91D, 91E	V
18	PAFZZ	81349	M24768/2-S-7	SHEET, PLASTIC UOC: YJV	V
19	PAFZZ	81349	M5086/2-4-9	WIRE, ELECTRICAL UOC: YJV	V
20	PAFZZ	81349	M5086/2-6-9	WIRE, ELECTRICAL UOC: YJV	V
21	PAFZZ	81349	M22759/16-01-9	WIRE, ELECTRICAL UOC: YJV	V
22	PAFZZ	81349	M22759/16-1-9	WIRE, ELECTRICAL UOC: YJV, 91D, 91E	V
23	PAFZZ	81349	M22759/16-4-9	WIRE, ELECTRICAL UOC: YJV	V
24	PAFZZ	81349	M22759/16-6-9	WIRE, ELECTRICAL UOC: YJV, 91D, 91E	V
25	PAFZZ	81349	M22759/16-16-9	WIRE, ELECTRICAL UOC: YJV, 91D, 91E	V
26	PAFZZ	81349	M22759/16-18-9	WIRE, ELECTRICAL UOC: YJV, 91D, 91E	V
27	PAFZZ	81349	M22759/16-20-9	WIRE, ELECTRICAL UOC: YJV	V
28	PAFZZ	81348	QQW343C06B1B	WIRE, ELECTRICAL UOC: YFW, YEZ, FMG, YFV	V
29	PAOZZ	81349	ASTM A313	WIRE, NONELECTRICAL UOC: YJV, 91D, 91E	V

END OF FIGURE

SECTION III. SPECIAL TOOLS GROUP

Special Tools Group

NOT APPLICABLE

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5320-00-005-6279	3	15		12	2
5999-00-014-0952	2	6		12A	3
5940-00-021-3321	30	10	5325-00-074-3301	BULK	3
5306-00-021-3912	24	3		3	29
5306-00-021-4065	24	3	5340-00-078-3615	5	7
5310-00-022-8847	30	5		5A	3
5310-00-042-4229	3A	32	5970-00-082-3942	BULK	8
	8	2	5070 00 000 0040	12A	2
5310-00-043-1680	8A 8	6 5	5970-00-082-3948	BULK 10B	11 13
3310-00-043-1080	10A	2		16	3
	25	2		16	7
5310-00-044-6477	22	5		16	11
	23	2		16	15
	24	2		16	19
	25	7	5310-00-087-4652	3	1
	25	13		3A	24
	26	9		26	1
	27	3		31	6
	28	2 2	F240 00 000 42F4	32	1
	29 29	2 2A	5310-00-088-1251	21 31	1 1
5305-00-052-1457	14	6	5305-00-088-9671	5	6
5320-00-052-1972	20	7	3303-00-000-9071	5 5A	9
0020 00 002 1072	33	1	5970-00-089-6041	BULK	10
5970-00-052-4877	BULK	7		9	3
	12	9		9A	4
	13	4		10	2
	13	10		10A	9
	13	15		12	6
	13	20	5070 00 405 0075	16A	3
	13 13	25 30	5970-00-105-3075	BULK 8	18 12
	13A	3		8	13
5305-00-054-5652	3	22		8	14
5305-00-054-6670	5	1		8	15
5305-00-054-6671	3	7	5930-00-105-5331	5	9
	5A	10		5A	7
	8	10	5940-00-113-8179	11	3
5310-00-056-3395	18	1		17	3
5305-00-059-3660	15	3	5940-00-113-8190	10B	14
F0.40.00.000.400F	15A	1		19	18
5340-00-066-1235 5305-00-068-0511	19 26	1 3	5940-00-113-9833	20 10B	2 16
5305-00-688-2111	3	3	5940-00-113-9655	13A	2
5305-00-071-1318	3A	20		16A	2
0000 00 07 1 1010	10	9	5935-00-114-5781	10A	13
	10B	9	5935-00-114-8061	8	16
5305-00-071-1324	8A	12	5940-00-115-2678	4	9
5305-00-071-2067	32	3	5940-00-115-4996	9	2
5305-00-071-2505	31	3		9A	3
5975-00-074-2072	3	25		10	14
	3A	14		10A	7
	6	2		13	2

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
	13 13 13 13	7 12 17 22	5310-00-400-5503	3A 4 10 10A	29 1 4 14
5940-00-115-5006	13 13A 16 13A	27 2 14 17	5330-00-402-5125 5310-00-408-2561 2590-00-420-8929	10B 19 19 32	4 8 4 4
5940-00-115-5007	10B 13A 16A	1 5 5	5310-00-421-9608 4730-00-441-8700 2590-00-453-8977	8 19 32	8 10 10
5320-00-117-7288 5120-00-138-3790 5940-00-143-4771 5940-00-143-4773	3A 4 12A 12A	17 5 1 7	5320-00-483-0558 5320-00-493-4101 5935-00-506-6540	29B 33 20 6	1 3 7 6
5940-00-143-4774 5940-00-143-4793 4730-00-172-0049 5310-00-184-8971	5 12 32 30	10 5 8 4	5310-00-566-9502 5940-00-557-4338	19 10 10A 13	5 1 8 3
4710-00-185-6948 5999-00-186-3912 5310-00-187-2413 9905-00-202-3639	19 19 30 31	7 19 2 5		13 13 13 13	8 13 18 23
5120-00-203-4856 9905-00-205-2795 5310-00-208-9255 5310-00-209-1239	19 31 8A 19	14 4 4 11		13 13A 16 16	28 5 2 6
5310-00-213-4960 5306-00-226-4827	8 22 24 25	9 6 3 12	5940-00-557-4344	16 16 9 9A	10 18 1 2
5306-00-226-4829	26 23 24 25 27	8 3 3 8 4	5310-00-570-0386 5310-00-571-5090 6145-00-578-6594	10 10A 5 19 BULK	13 6 14 9 20
F200 00 000 4020	28 29 29	6 3 3A	6145-00-578-6595	9 10 BULK	4 12 19
5306-00-226-4832 5307-00-227-1741 5940-00-230-0515	28 30 11 17	5 6 2 2		9 10 13 13	5 3 5 9
5340-00-234-8422 5940-00-237-2703	24 3A 8A	8 1 8		13 13 13	14 19 24
5310-00-250-9477 5310-00-252-8748 4210-00-270-4512 5940-00-277-9504	14 24 20 19	1 1 1 16		13 16 16 16	29 4 8 12
4820-00-277-1765 5940-00-283-5280 5340-00-291-3484 5975-00-296-5324	21 12 14 19	6 3 5 22	5320-00-582-3304 5320-00-582-3305	16 16 3 3	16 20 18 13

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5320-00-582-5677	30	9		7	1
5310-00-584-7995	3A	33		7A	1
	30	3	3740-00-902-1481	19	2
4710-00-597-8731	19	6	4730-00-908-3194	20	4
5310-00-614-3506	1	2	5970-00-914-3118	BULK	12
5310-00-625-5756	24	2		13A	3
5310-00-637-9541	3A	26	5975-00-924-9927	19	20
5305-00-638-8920	31	7	4020-00-928-3438	BULK	17
5940-00-660-3633	12	4		4	8
5320-00-680-8779	24	7	5310-00-933-8118	3	21
5305-00-685-3511	4	4	5310-00-933-8119	3	9
	10A	16		5	3
5305-00-688-2111	3A	27		5A	11
	18	3	5310-00-933-8120	15	2
5305-00-724-7221	1	3		15A	2
5305-00-727-6804	1	3	5310-00-933-8121	3A	28
5970-00-740-2971	BULK	9		4	2
	2 5	3 8		10	5
	5 6	8 4		10A	15 -
5320-00-753-3830	24	5		10B 14	5 2
5310-00-768-0321	2 4 1	1	5310-00-933-8778	1	1
5970-00-781-6826	BULK	16	5310-00-933-0776	3	20
3970-00-781-0020	2A	2	5310-00-934-9751	8	4
5970-00-787-2325	BULK	6	3310-00-334-3731	10A	1
0070 00 707 2020	11	4		25	1
	17	4	5310-00-934-9760	15	1
5975-00-794-2523	19	21	6210-00-941-6690	7A	2
5935-00-801-6622	12	8	5970-00-944-1328	BULK	_ 15
5310-00-802-4701	29B	25		2	2
5310-00-809-5997	21	8	5365-00-944-2692	28	4
5310-00-809-9703	20	6	5305-00-954-9550	3A	31
4730-00-812-1333	21	4	5320-00-954-9568	3A	12
5970-00-812-1360	BULK	13	5320-00-956-7355	3A	34
	10B	2	5310-00-974-6623	24	1
5940-00-813-0698	6	3	5340-00-975-2126	24	6
	12A	4	5310-00-982-6814	5	5
5970-00-822-2775	BULK	14		5A	4
	2A	3	5310-00-984-3806	23	1
	12A	6		24	1
5315-00-838-4584	32	9		25	6
5315-00-839-5822	32	5		27	2
5305-00-841-2681	19	12		28	1
4730-00-842-2201	21	11		29	1
5935-00-852-9611	11	6 7	5075 00 004 C500	29	1A
5940-00-853-3987 5975-00-878-3791	4 19	7 15	5975-00-984-6582	29B	26
5310-00-880-5978	3	8	5310-00-984-7042 5305-00-984-7341	29B 25	24
5510-00-660-5976	5 5	2	5305-00-988-1727	25 21	3 3
	5 5A	12	5310-00-989-0908	30	3 7
5310-00-883-9417	30	8	5365-00-989-3304	30 27	7
6210-00-900-9423	30 3A	7	5310-00-989-5945	8	1
52 10 00 000-3 1 20	5	, 17	0010 00 000-0040	8A	7
	5A	1	5320-00-991-7484	3A	36

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-993-1851	8 10A	6 3	5342-01-226-5766 6145-01-226-9164	27 BULK	6 28
5120-01-013-1676	19	13		19	17
5120-01-019-9564	4	5		20	3
4730-01-020-5607	21	7	6210-01-230-1851	7	4
5935-01-035-5139 6145-01-042-4621	17 BULK	6 27	6240-01-232-8753	7A 7	4 3
0143-01-042-4021	6 6	5	6145-01-240-6923	, BULK	3 22
6145-01-044-8799	BULK	25	0143-01-240-0923	10B	3
0140 01 044 0700	5	11		10B	15
	11	5		13A	4
	17	5		13A	12
6145-01-060-7863	BULK	26		13A	14
	12	7		16A	4
	12A	5		16A	7
6145-01-071-1334	BULK	24		16A	9
	9A	5		16A	11
	10A 10B	10 12	6150-01-261-9826	16A 5	13 13
5310-01-078-5996	30	1	6150-01-261-9626	5 5A	6
9905-01-085-7703	33	2	6115-01-274-7388	1	4
5999-01-091-3187	2	5	6115-01-274-7399	1	4
	2A	4	5340-01-277-5068	4	6
5935-01-092-3451	9	6	6115-01-280-0063	25	5
5935-01-092-4269	10	11	5310-01-280-5796	26	2
	10B	11		31	8
5999-01-130-1897	2A	6		32	2
6145-01-131-2404	BULK	23	5340-01-295-4896	3	30
	9A 10A	6 11	4730-01-297-0185	3A 21	13 5
	13A	4	5310-01-304-8733	3A	21
5999-01-131-5588	2A	5	3310-01-304-0733	4	3
5320-01-140-1479	29B	2		10	8
5310-01-141-6672	3	23		10A	17
5935-01-147-9446	10B	10		10B	8
5310-01-149-0869	32	11		14	3
2330-01-150-9864	28	7		21	2
5935-01-154-2472	2	4	6145-01-305-3882	BULK	1
5935-01-154-2482	10A 9A	12	4700 04 007 E400	2 BULK	8 5
5935-01-154-2483 6145-01-157-2043	9A BULK	7 21	4720-01-337-5130	21	ວ 12
0143-01-131-2043	13A	18	5310-01-352-9599	15	4
5315-01-162-0143	32	6	6240-01-355-4422	7A	3
5310-01-164-4694	3	28	5310-01-385-7083	3A	25
5999-01-167-0838	2	7		18	2
	2A	7	5310-01-386-0481	8	7
2590-01-167-8596	32	13		10A	4
5935-01-172-1004	10	10		25	4
5935-01-175-8419	3	24	4730-01-386-1770	21	9
2510-01-195-4273	25	9 8	4720-01-386-4210	BULK	4 5
2510-01-196-4682 2510-01-213-3242	28 25	8 10	6110-01-388-0318	20 3A	5 11
5310-01-219-3472	25 3A	37	0110-01-300-0310	3A 15	5
5342-01-220-1548	32	7	6115-01-392-0296	22	1
		•	2		-

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5340-01-397-6096	3	6			
	3A	39			
2540-01-417-8036	24	4			
5940-01-433-6259	3A	1			
	8	3			
	8A	8			
6150-01-444-2430	1A	1			
	2A	1			
6150-01-457-0884	1A	1			
	2	1			
5930-01-457-7114	1A	2			
	3	4			
5930-01-457-7115	1A	2			
5940-01-458-9497	12A	8			
5310-01-471-0640	8A	3			
	15A	3			
5310-01-478-5703	3	14			
9505-01-496-6526	BULK	29			
	8	18			
	8	19			
	8A	10			
	8A	11			
5310-01-531-6074	1	2			
4210-01-535-1439	22	7			
	25	14			
	26	10			

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
58536	A-A-1293	5120-00-302-4656	19	14
58536	A-A-55804	5975-00-296-5324	19	22
58536	A-A-55804-3B	5975-00-878-3791	19	15
58536	AA59125/28-TBJA	6150-01-261-9826	5	13
			5A	6
07707	AD45ABS	5320-00-052-1972	20	7
			33	1
07707	AD64H	5320-00-956-7355	3A	34
88044	AN960-C4	5310-01-141-6672	3	23
88044	AN961-616	5310-00-187-2413	30	2
81349	ASTM A313	6145-01-226-9164	BULK	29
80204	B1821BH025C088N	5305-00-071-2505	31	3
05049	B1821BH031C100N	5306-00-226-4827	22 24	6 3
			24 25	ა 12
			26 26	8
80204	B1821BH031C125N	5306-00-226-4829	23	3
00204	B 102 1B1 103 1C 12311	3300-00-220-4029	24	3
			25	8
			27	4
			28	6
			29	3
			29	3A
80204	B1821BH031C175N	5306-00-226-4832	28	5
80204	B1821BH038C125N	5305-00-068-0511	26	3
80204	B1821BH038C138N	5305-00-688-2111	3	3
			3A	27
			18	3
80204	B1821BH038C225N	5305-00-638-8920	31	7
80204	B1821BH050C125N	5305-00-071-2067	32	3
80204	B1821BH062C175N	5305-00-724-7221	1	3
17446	BOM-R12-8		32	3A
9K475	BOM-R8-10	5320-01-140-1479	29B	2
9K475	BOM-R8-8	5320-00-483-0558	29B	1
04047	04000	4000 00 000 0400	33	3
81347	C1832	4020-00-928-3438	BULK	17
01667 12670	CBA-70 CLE-403001	5940-00-271-9504 5120-01-019-9564	19 4	16 5
12670	CLE-403001 CLE-403002	5120-01-019-9364	4 4	5 5
81349	CO-04HDE(4/4-4/12R)129		BULK	1
01XD4	CT350E-120E4	6110-01-388-0318	3A	11
OTABA	010000 12004	0110 01 300 0310	15	5
01276	FC173-5	4720-01-337-5130	BULK	5
58224	G9B (GR)	6240-01-232-8753	7	3
73616	GRB58	5975-00-924-9927	19	20
0BKK8	GRC 58	5975-00-794-2523	19	21
94222	K3-0334-07	5340-01-295-4896	3	30
			3A	13
81349	M22759/16-01-9	6145-01-157-2043	BULK	21
19099			13A	18
81349	M22759/16-16-9	6145-01-044-8799	BULK	25
81349	M22759/16-18-9	6145-01-060-7863	BULK	26

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19099 81349	M22759/16-1-9	6145-01-240-6923	12 BULK 13A 13A	7 22 4 12
19099 81349 81349	M22759/16-20-9 M22759/16-4-9	6145-01-042-4621 6145-01-131-2404	13A BULK BULK	14 27 23
19099 81349 81349 81349	M22759/16-6-9 M23053/5-104-4 M23053/5-105-4	6145-01-071-1334 5970-00-787-2325 5970-00-052-4877	13A BULK BULK BULK	4 24 6 7
19099 81349 81349	M23053/5-105-9 M23053/5-107-9	5970-00-740-2971 5970-00-944-1328	12 13A BULK BULK	9 3 8 9
81349	M23053/5-108-4	5970-00-089-6041	BULK 9 10 12	10 3 2 6
19099 81349 81349 19099	M23053/5-108-9 M23053/5-109-0	5970-00-082-3948 5970-00-914-3118	16A BULK BULK 13A	3 11 12 3
81349 81349 81349	M23053/5-109-9 M23053/5-110-9 M23053/5-112-0	5970-00-812-1360 5970-00-822-2775 5970-00-974-1328	BULK BULK BULK	13 14 15
81349 81349 81349 81349	M23053/5-113-0 M24243/1-B604 M24768/2-S-7 M39029/49-329	5970-00-781-6826 5320-00-493-4101 5970-00-105-3075 5999-00-014-0952	BULK 20 BULK 2	16 7 18 6
81349 81349 81349	M39029/49-330 M39029/49-331 M39029/49-333	5999-01-131-5588 5999-01-091-3187 5999-01-130-1897	2A 2 2A	5 5 6
81349 81349 81349	M45913/1-6CG5C M45938/1-13C M5086/2-4-9	5310-00-087-4652 5310-00-570-0386 6145-00-578-6595	3A 5 BULK 9	24 14 19 5
19099 81349 19099	M5086/2-6-9	6145-00-578-6594	10 BULK 9 10	3 20 4 12
81349 19099 17446	M6000-F-00200 MGL100-R6-9	4720-01-386-4210	BULK 20 29B	4 5 5
17446 17446	MGLP-R8-10 MGLP-R8-6		29A 29B 29B	1 8 13
96906 96906 96906	MS124696 MS15006-1 MS15795-807	5325-00-291-3484 4730-00-172-0049 5310-00-880-5978	29B 14 32 3 5	16 5 8 8 2

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906 96906 96906 96906 80205	MS15795-810 MS15795-812 MS15795-813 MS15795-817 MS15795-852	5310-00-582-5677 5310-00-625-5756 5310-00-802-4701 5310-00-614-3506 5310-01-304-8733	5A 30 24 29B 1 3A 4 10 10A 10B	12 9 2 25 2 21 3 8 17 8
80205 96906	MS15795-857 MS16203-27	5310-01-352-9599 5310-00-584-7995	21 15 3A	2 4 33
96906 96906 80205 96906 96906 96906 96906 96906 96906 96906	MS16562-66 MS18015-1 MS20426AD6-8 MS20427-4C6 MS20470AD4-4-5 MS20600AD4W2 MS20600AD4W3 MS20604AD3W2 MS20604AD4W3 MS20613-4P5 MS20659-111 MS20659-145	5315-00-838-4584 5340-00-975-2126 5320-00-117-7288 5320-00-680-8779 5320-00-582-3304 5320-00-582-3305 5320-00-991-7484 5320-00-954-9568 5320-00-753-3830 5940-00-115-2678 5940-00-115-4996	30 32 24 3A 24 3 3 3A 3A 24 4 9 9A 10 10A 13 13 13 13 13	3 9 6 17 7 15 18 13 36 12 5 9 2 3 14 7 2 7 12 27 27 2 14
80205	MS21044C08	5310-00-982-6814	5 5A	5 4
80205 96906 96906	MS21044C3 MS21266-2N MS21322-33	5310-00-208-9255 5325-00-074-3301 5340-00-078-3615	8A BULK 5 5A	4 3 7 3
96906 96906 96906 96906	MS24519-9 MS24587-5 MS24665-353 MS24693-C52	4730-00-809-9703 4730-00-842-2201 5315-00-839-5822 5305-00-088-9671	20 21 32 5 5A	6 11 5 6
81343 96906 96906	MS25036-101 MS25036-106 MS25036-107	5940-00-813-0698 5940-00-283-5280 5940-00-113-8179	6 12 11	9 3 3 3

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS25036-107	5940-00-113-8179	17	3
96906	MS25036-110	5940-00-143-4793	12	5
96906	MS25036-120	5940-00-557-4344	9	1
			9A	2
			10	13
00000	M005000 400	5040 00 440 0400	10A	6
96906	MS25036-122	5940-00-113-8190	10B	14
			19 20	18
96906	MS25036-125	5940-00-557-4338	10	2 1
30300	W323030-123	3940-00-337-4338	10A	8
			13	3
			13	8
			13	13
			13	18
			13	23
			13	28
			13A	5
			16	2
			16	6
			16	10
	1100-000 100		16	18
96906	MS25036-130	5940-00-115-5007	10B	1
			13A	5
06006	MS25026 121	E040 00 112 0822	16A 10B	5 16
96906	MS25036-131	5940-00-113-9833	13A	2
			16A	2
96906	MS25036-153	5940-00-143-4774	5	10
96906	MS25036-154	5940-00-230-0515	11	2
00000		00.10 00 200 00.10	17	2
96906	MS25036-155	5940-00-660-3633	12	4
96906	MS25043-18DA	5935-01-175-8419	3	24
96906	MS27130-A93	5310-01-164-4694	3	28
96906	MS27130-A96		3	27
96906	MS27130-CR26	5310-01-219-3472	3A	37
96906	MS27183-17	5310-00-809-5997	21	8
96906	MS27183-57	5310-01-280-5796	26	2
			31	8
96906	MS27407-3	5930-00-105-5331	32 5	2 9
90900	101327407-3	3930-00-103-3331	5A	7
96906	MS27969-4	5340-00-234-8422	24	8
96906	MS3100R20-27S	5935-00-801-6622	12	8
96906	MS3102R18-11P	5935-00-852-9611	11	6
96906	MS3106R20-27P	5935-00-506-6540	6	6 6 7
96906	MS3348-6-8L	5999-01-167-0838	2	
			2A	7
96906	MS3367-1-0	5975-00-984-6582	29B	26
96906	MS3367-1-9	5975-00-074-2072	3	25
			3A	14
			6	2

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
			12	2
			12A	3
96906	MS3456W18-11S	5935-01-035-5139	17	6
96906	MS35191-273	5305-00-984-7341	25	3
96906	MS35206-283	5305-00-988-1727	21	3
96906	MS35207-267	5305-00-993-1851	8	6
			10A	3
96906	MS35214-101	5305-00-954-9550	3A	31
96906	MS35307-414	5305-00-727-6804	1	3
80205	MS35308-3	5305-00-052-1457	14	6
80205	MS35308-306	5305-00-685-3511	4	4
			10A	16
96906	MS35308-334	5306-00-021-3912	24	3
96906	MS35308-338	5306-00-021-4065	24	3
96906	MS35333-110	5310-00-022-8847	30	5
96906	MS35333-113	5310-00-042-4229	3A	32
			8	2
00000	14005005.00	5040.00.000.4000	8A	6
96906	MS35335-60	5310-00-209-1239	19	11
96906	MS35338-103	5310-00-184-8971	30	4
96906	MS35338-135	5310-00-933-8118	3	21
96906	MS35338-137	5310-00-933-8119	3	9
			5	3
00000	M005000 400	5040 00 000 0400	5A	11
96906	MS35338-138	5310-00-933-8120	15	2
00000	14005000 400	5040.00.000.0404	15A	2
96906	MS35338-139	5310-00-933-8121	3A	28
			4	2
			10	5
			10A	15
			10B	5 2
00000	MC25220 440	F340 00 074 0033	14 24	1
96906 96906	MS35338-140 MS35338-141	5310-00-974-6623 5310-00-984-7042	24 29B	1 24
96906	MS35338-143	5310-00-964-7042	29B 1	1
96906	MS35338-158	5310-00-933-8778	30	8
80205	MS35338-46	5310-00-637-9541	3A	26
96906	MS35387-1	9905-00-205-2795	31	4
96906	MS35387-1 MS35387-2	9905-00-203-2793	31	5
96906	MS35425-75	5310-01-078-5996	30	1
80205	MS35649-204	5310-01-078-3990	15	1
80205	MS35649-2254	5310-00-954-9700	14	1
96906	MS35649-2382	5310-00-250-9477	18	1
97403	MS35649-244	5310-00-030-3393	3	20
96906	MS35650-302	5310-00-934-9751	8	4
55500	WIG00000 002	0010 00 004 9701	10A	1
			25	1
80205	MS35650-3254	5310-00-400-5503	3A	29
00200	W000000 020T	0010 00 100 0000	4	1
			10	4
			10A	14
			10B	4
			.00	•

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS35650-3314	5310-00-252-8748	24	1
96906	MS35691-3	5310-00-989-0908	30	7
96906	MS35691-35	5310-00-989-5945	8	1_
00000	M005040 44	4720 00 000 0404	8A	7
96906	MS35842-11	4730-00-908-3194	20	4
96906 96906	MS35930-2 MS39347-2	4820-00-277-1765 5940-00-021-3321	21 30	6 10
96906	MS39347-4	5940-00-021-3321	3A	10
90900	10009047-4	3940-01-433-0239	8	3
			8A	8
96906	MS39347-4A		8	17
96906	MS39347-4A		8A	9
19099	MS39347-4B	9505-01-496-6526	8	18
			8A	10
			8	19
			8A	11
96906	MS39347-5	5940-00-237-2703	3A	1
			8A	8
96906	MS39347-5A		8A	9
19099	MS39347-5B	9505-01-496-6526	8A	10
00000	MC54.440.04	5310-01-386-0481	8A	11
96906	MS51412-21	5310-01-386-0481	8 10A	7 4
			25	4
96906	MS51412-25	5310-00-044-6477	23	2
00000	111001112 20	0010 00 011 0111	24	2
			25	7
			27	3
			28	2
			29	2
			29	2A
96906	MS51412-27	5310-01-385-7083	3A	25
00000	M054440.4	5040 04 400 0040	18	2
96906	MS51412-4 MS51415-3	5310-01-103-6042	31	2
96906	101551415-3	5310-00-043-1680	8 10A	5 2
			25	2
96906	MS51500A8-4	4730-00-441-8700	19	10
96906	MS51519B5Z/A5Z	4730-01-297-0185	21	5
96906	MS51520A5Z	4730-01-386-1770	21	9
96906	MS51858-4	5310-00-421-9608	8	8
96906	MS51859-4	5310-00-213-4960	8	9
96906	MS51860-54	4730-01-020-5607	21	7
96906	MS51922-1	5310-00-088-1251	21	1
			31	1
96906	MS51922-17	5310-00-087-4652	26	1
			31	6
00000	MCE4000 0	F240 00 004 2000	32	1
96906	MS51922-9	5310-00-984-3806	23 24	1 1
			24 25	6
			23 27	2
			۷.	_

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
			28 29	1 1
			29	1A
96906	MS51957-18	5305-00-054-5652	3	22
96906	MS51957-45	5305-00-054-6670	5	1
96906	MS51957-46	5305-00-054-6671	3	7
			5A	10
			8	10
96906	MS51957-83	5305-00-071-1318	3A	20
			10	9
			10B	9
80205	MS51958-64	5305-00-059-3660	15	3
			15A	1
96906	MS51960-67	5305-00-071-1324	8A	12
96906	MS51971-5	5310-00-768-0321	1	1
19099	MS52103-2	4720-01-337-5130	21	12
96906	MS52103A050400R	5005 04 454 0400	21	10
96906	MS90555C32413SY	5935-01-154-2483	9A	7
96906	MS90555C44413S MS90557C32413SY	5935-01-092-3451 5935-01-154-2472	9 2	6
96906 96906	MS90557C32413S1 MS90557C44413S	5935-01-154-2472 5935-01-091-9166	2 2A	4
96906	MS90557C44413S MS90558C32413PY	5935-01-154-2482	2A 10A	4 12
96906	MS90558C44413P	5935-01-134-2462	10	11
90900	W390330C44413F	3933-01-092-4209	10B	11
96906	MS90563-3C	5935-00-114-8061	8	16
96906	MS90564-3C	5935-00-114-5781	10A	13
96906	MS90564-7C	5935-01-172-1004	10	10
96906	MS90564-7C	5935-01-147-9446	10B	10
14726	P1401	5940-00-853-3987	4	7
29440	PL-19-3	5305-00-841-2681	19	12
19099	QQW343C06B1B	6145-01-226-9164	BULK	28
			19	17
			20	3
14726	R4142F	5940-00-813-0698	12A	4
14726	R4152F	5940-00-143-4773	12A	7
14726	R4268F	5940-00-143-4771	12A	1
56501	RB14-12	5940-01-458-9497	12A	8
09922	YAEV25-L	5940-00-115-5006	13A	17
71102	012822		BULK	2
00779	32167		13A 33	16
19207	12450001		33	6B
			3 12	5 1
97403	13200E6361	5310-00-571-5090	19	9
97403	13200E6363	3740-00-902-1481	19	2
97403	13205E4918	9905-01-085-7703	33	2
06076	13211E7541	5342-00-066-1235	19	1
97403	13211E7542	4710-00-597-8731	19	6
97403	13211E7543	4710-00-185-6948	19	7
97403	13211E7544	5310-00-566-9502	19	5
97403	13211E7546	5330-00-402-5125	19	8
97403	13211E7547	5310-00-408-2561	19	4

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
97403	13211E7548		19	3
97403	13214E1206-1	2590-00-420-8929	32	4
97403	13214E1206-2		32	4
97403	13214E1207	5342-01-220-1548	32	7
97403	13214E1208-1	2590-00-453-8977	32	10
97403	13214E1209	5315-01-162-0143	32	6
97403	13214E1210		32	12
97403	13214E1211	5310-01-149-0869	32	11
97403	13214E1212-1	2590-01-167-8596	32	13
97403	13214E1223	5307-00-227-1741	30	6
97403	13214E1259		23	4
97403	13214E1261		23	5
97403	13214E1263	2510-01-195-4273	25	9
97403	13214E1264	2510-01-213-3242	25	10
97403	13214E1267-1	5365-00-944-2692	28	4
97403	13214E1268		28	3
97403	13214E1269	5342-01-226-5766	27	6
97403	13214E1270		27	5
97403	13214E1271		27	1
97403	13214E1272	5365-00-989-3304	27	7
97403	13214E1391	6210-00-900-9423	3A	7
			5	17
			5A	1
			7	1
07.100	1001151101	0-10-01-1-0-01	7A	1_
97403	13214E1461	6540-01-150-9864	28	7
97403	13214E1462	2510-01-196-4682	28	8
97403	13218E0320-331	0445 04 000 0000	8A	7
97403	13218E5091	6115-01-280-0063	25	5
97403	13226E7741	5120-01-013-1676	19	13
97403	13229E5666-16		20	10
97403	13229E5666-17		20	12
97403	13229E5666-18		20	11
97403	13229E5666-45		20	15
97403	13229E5666-46		20	14
97403	13229E5666-5		20	13
97403	13229E5666-6	0450 04 457 0004	20	9
97403	13229E5674	6150-01-457-0884	2	1
40000	4222055574.2	C4.4E 04 20E 2002	1A	1
19099	13229E5674-2	6145-01-305-3882	2 2	8
19099	13229E5674-3	5970-00-944-1328		2 3
07402	1222055720 2		2 3	
97403 97403	13229E5728-2	6150 01 444 2420	3 1A	11
97403	13229E5738	6150-01-444-2430	2A	1
10000	1222055720 2		2A 2A	1
19099	13229E5738-2 13229E5738-3	5070 00 791 6926	2A 2A	8 2
19099		5970-00-781-6826	2A 2A	3
19099 97403	13229E5738-4 13229E5744	5970-00-822-2775	2A 26	3 4
97403 97403	13229E5744 13229E5758		∠o 31	9
97403 97403	13229E5788-1		10	9 7
31403	10223LJ100-1		10A	, 18
			IUA	10

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
97403 97403	13229E5788-2 13229E5792-1		10B 3 3A	7 19 40
97403	13229E5792-2		3A 3A 3A	19 40
97403 97403	13229E5793-1 13229E5793-2		5 3A 5	15 30 16
97403	13229E5795-1	5930-01-457-7114	1A 3	2
19099 19099	13229E5795-1-65 13229E5795-1-67	4020-00-928-3438 5970-00-105-3075	4 8 8 8 8	8 12 13 14 15
97403 19099 97403 97403	13229E5795-2 13229E5795-2-65 13229E5796 13229E5796-1	5930-01-457-7115 4020-00-928-3438	1A 4 3A 3	2 8 38 26
19099 97403	13229E5796-1-15 13229E5800-1	5325-00-074-3301	3 3A 5A 12A	29 10 2 9
19099 19099 19099 97403 97403	13229E5800-1-10 13229E5800-1-2 13229E5800-1-6 13229E5801 13229E5801-1 13229E5802-1	5970-00-082-3942 6145-01-060-7863 5970-00-822-2775	12A 12A 12A 3A 3 5 3A	2 5 6 15 12 4 6
19099 19099 97403	13229E5802-1-10 13229E5802-1-4 13229E5804	6145-01-044-8799 5970-00-740-2971	5 5 3 3A	11 8 10 18
97403	13229E5805		5 5A	12 8
97403	13229E5806-1		3A 11	9
19099 19099 97403	13229E5806-1-2 13229E5806-1-5 13229E5806-2	6145-01-0448799 5970-00-787-2325	11 11 3A 17	5 4 4 1
19099 19099 97403	13229E5806-2-2 13229E5806-2-5 13229E5807-1	6145-01-044-8799 5970-00-787-2325	17 17 17 8 8A	5 4 11
97403 97403 19099 19099 19099 97403	13229E5807-2 13229E5808-1 13229E5808-1-3 13229E5808-1-4 13229E5808-1-8 13229E5808-2	6145-01-131-2404 6145-01-071-1334 5970-00-089-6041	9A 9A 9A 9A 9A 3A	1 1 1 6 5 4 8

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19099	13229E5808-2-3	6145-01-131-2404	10A 10A	5 11
19099 19099 97403	13229E5808-2-4 13229E5808-2-8 13229E5809-2	6145-01-071-1334 5970-00-089-6041	10A 10A 3A	10 9 8
19099 19099	13229E5809-2-16 13229E5809-2-18	5970-00-812-1360 5970-00-082-3948	10B 10B 10B	17 2 13
19099	13229E5809-2-6	6145-01-240-6923	10B 10B	3 15
19099 97403 97403	13229E5809-2-7 13229E5810 13229E5810-1	6145-01-071-1334	10B 3A 13	12 2 11
97403	13229E5810-11		13A 13 13A	1 16 8
19099 19099 19099	13229E5810-1-1 13229E5810-1-10 13229E5810-11-1	6145-00-578-6595 5970-00-052-4877 6145-00-578-6595	13 13 13	14 15 19
19099 97403	13229E5810-11-10 13229E5810-12	5970-00-052-4877	13 13 13A	20 21 9
19099 19099 97403	13229E5810-12-1 13229E5810-12-10 13229E5810-13	6145-00-578-6595 5970-00-052-4877	13 13 13 13	24 25 26
19099	13229E5810-13-1	6145-00-578-6595	13A 13	10 29
19099 97403 97403	13229E5810-13-10 13229E5810-14 13229E5810-15	5970-00-052-4877	13 13A 13A	30 8 9
97403 97403	13229E5810-16 13229E5810-2		13A 13 13A	10 6 6
97403 19099 19099	13229E5810-21 13229E5810-2-1 13229E5810-2-10	6145-00-578-6595 5970-00-052-4877	13A 13 13	15 9 10
97403 97403 97403	13229E5810-22 13229E5810-24 13229E5810-3		13A 13A 13	13 11 1
19099	13229E5810-3-1	6145-00-578-6595	13A 13	7 5
19099 97403 97403 97403 97403 97403	13229E5810-3-10 13229E5810-4 13229E5810-5 13229E5810-6 13229E5811 13229E5811-1	5970-00-052-4877	13 13A 13A 13A 3A 16	4 1 6 7 5
97403 19099 19099 19099 97403	13229E5811-10 13229E5811-10-2 13229E5811-1-1 13229E5811-1-4 13229E5811-2	6145-01-240-6923 6145-00-578-6595 5970-00-082-3948	16A 16A 16 16 16	12 13 4 3 5

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19099	13229E5811-2-1	6145-00-578-6595	16	8
19099	13229E5811-2-4	5970-00-082-3948	16	7
97403	13229E5811-3		16	9
19099	13229E5811-3-1	6145-00-578-6595	16	12
19099	13229E5811-3-4	5970-00-082-3948	16	11
97403	13229E5811-4	0445 00 570 0505	16	13
19099	13229E5811-4-1	6145-00-578-6595	16	16
19099	13229E5811-4-4 13229E5811-5	5970-00-082-3948	16 16	15 17
97403 19099	13229E5811-5-1	6145-00-578-6595	16	17 20
19099	13229E5811-5-4	5970-00-082-3948	16	19
97403	13229E5811-6	0370 00 002 0040	16A	1
19099	13229E5811-6-2	6145-01-240-6923	16A	4
97403	13229E5811-7	0.10 0. 2.0 0020	16A	6
19099	13229E5811-7-2	6145-01-240-6923	16A	7
97403	13229E5811-8		16A	8
19099	13229E5811-8-2	6145-01-240-6923	16A	9
97403	13229E5811-9		16A	10
19099	13229E5811-9-2	6145-01-240-6923	16A	11
97403	13229E5815		10	6
			10A	19
			10B	6
07400	1000055010.1		3A	23
97403	13229E5816-1		14	4
97403	13229E5834		3	17 10
07402	122205		3A	16 16
97403 97403	13229E5835 13229E5837		3 5	18
97403	1322913037		6	1
19099	13229E5837-2	6145-01-042-4261	6	5
19099	13229E5837-3	5970-00-740-2971	6	4
97403	13229E6108		29	4
			29	4A
97403	13229E6829		33	6A
97403	13229E7946	2540-01-417-8036	24	4
97403	13229E9621-3		26	6
97403	13229E9632	6115-01-392-0296	22	1
97403	13229E9633		33	6
97403	13230 E 6829		22	2
97403	13230E4592		18	4
97403	13230E4599-1		8A	5
97403	13230E4599-2 13230E6380-4A		8A	5
30554 30554	13230E6380-4A 13230E6381-2A		19 19	23 24
97403	13230E6382-14		19	1
97403	13230E6382-4		22	4
37 400	1020020002 4		25	11
			26	7
97403	13230E6382-6	5310-00-087-4652	3	1
30554	13230E6514		33	4
97403	13230E6516		5A	5
30554	13230E6521-4		20	8

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
30554	13230E6521-6		20	17
30554	13230E6521-7		20	16
30554	13230E6524		33	5
30554	13230E6526		29B	10
30554	13230E6527		29B	6
97403	13230E6528		8A	2
97403	13230E6529		3A	22
97403	13230E6532		26	5
30554	13230E6564-1		29A	4
30554	13230E6564-2		29A	6
30554	13230E6565		22	6 3 3 5 2
30554	13230E6567-1		29A	3
30554	13230E6567-2		29A	5
30554	13230E6568		29A	
30554	13230E6569-1		29B	3
30554	13230E6569-2		29B	4
30554	13230E6571-1		29B	14
30554	13230E6571-2		29B	15
30554	13230E6572		33	2A
30554	13230E6576		29B	7
30554	13230E6577		29B	9
30554	13230E6578-1		29B	11
30554	13230E6578-2		29B	12
30554	13230E6579		29B	19
30554	13230E6580-1		29B	22
30554	13230E6580-2		29B	23
30554	13230E6582-1		29B	17
30554	13230E6582-2		29B	18
30554	13230E6583-1		29B	20
30554	13230E6583-2		29B	21
97403	13230E6743-108		8A	6
96906	13230E6744-46	5310-01-478-5703	3	14
97403	13230E6823-2		3A	35
97403	13230E6831	4210-00-270-4512	20	1
97403	13230E6858	4210-01-535-1439	22	7
			25	14
			26	10
97403	13230E7004		3A	41
83330	181-0931-001		7	2
83330	181-0937-003	6210-00-941-6690	7A	2
83330	181-8836-09-553	6210-01-230-1851	7	4
			7A	4
94222	2-57-1735-07	5340-01-397-6096	3	6
			3A	39
93742	69-539-2	4730-00-812-1333	21	4
08108	6S6AC130V	6240-01-355-4422	7A	3
04655	70-801074	5999-00-186-3912	19	19
30554	72-2029-1A		3A	3
30554	72-2029-2A		3A	3
30554	72-2135	5340-01-277-5068	4	6
30554	88-20033-11C	5310-01-471-0640	8A	3
			15A	3

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
30554	88-20033-25A	5310-00-044-6477	22 25	5 13
			26	9
30554	88-20033-314A		3	2
30554	88-20033-45A	5310-01-531-6074	1	2
30554	88-804	6115-01-774-7388	1	4
30554	88-814	6115-01-274-7393	1	4

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
BULK	1	6145-01-305-3882	81349	CO-04HDF(4/4-4/12R)1290
BULK	2		71102	012822
BULK	3	5325-00-074-3301	96906	MS21266-2N
BULK	4	4720-01-386-4210	81349	M6000-F-00200
BULK	5	4720-01-337-5130	01276	FC173-5
BULK	6	5970-00-787-2325	81349	M23053/5-104-4
BULK	7	5970-00-052-4877	81349	M23053/5-105-4
BULK	8	5970-00-082-3942	81349	M23053/5-105-9
BULK	9	5970-00-740-2971	81349	M23053/5-107-9
BULK	10	5970-00-089-6041	81349	M23053/5-108-4
BULK	11	5970-00-082-3948	81349	M23053/5-108-9
BULK	12	5970-00-914-3118	81349	M23053/5-109-0
BULK	13	5970-00-812-1360	81349	M23053/5-109-9
BULK	14	5970-00-822-2775	81349	M23053/5-110-9
BULK	15	5970-00-944-1328	81349	M23053/5-112-0
BULK	16	5970-00-781-6826	81349	M23053/5-113-0
BULK	17	4020-00-928-3438	88001	C1832
BULK	18	5970-00-105-3075	81349	M24768/2-S-7
BULK	19	6145-00-578-6595	81349	M5086/2-4-9
BULK	20	6145-00-578-6594	81349	M5086/2-6-9
BULK	21	6145-01-157-2043	81349	M22759/16-01-9
BULK	22	6145-01-240-6923	81349	M22759/16-1-9
BULK	23	6145-01-131-2404	81349	M22759/16-4-9
BULK	24	6145-01-071-1334	81349	M22759/16-6-9
BULK	25	6145-01-044-8799	81349	M22759/16-16-9
BULK	26	6145-01-060-7863	81349	M22759/16-18-9
BULK	27	6145-01-042-4621	81349	M22759/16-20-9
BULK	28	6145-01-226-9164	81349	QQW343C06B1B
BULK	29	9505-01-496-6526	81346	ASTM A313
1	1		97403	13230E6382-14
1	1	5310-00-768-0321	96906	MS51971-5
1	1	5310-00-933-8778	96906	MS35338-143
1	2	5310-01-531-6074	30554	88-20033-45A
1	2	5310-00-614-3506	96906	MS15795-817
1	3	5305-00-724-7221	80204	B1821BH063C175N
1	3	5305-00-727-6804	96906	MS35307-414
1	4	6115-01-274-7393	30554	88-814
1	4	6115-01-274-7388	30554	88-804
1A	1	6150-01-457-0884	97403	13229E5674
1A	1	6150-01-444-2430	97403	13229E5738
1A	2	5930-01-457-7114	97403	13229E5795-1
1A	2	5930-01-457-7115	97403	13229E5795-2
2	1	6150-01-457-0884	97403	13229E5674
2	2		19099	13229E5674-3
2	3		19099	13229E5674-4
2	4	5935-01-154-2472	96906	MS90557C32413SY
2	5	5999-01-091-3187	81349	M39029/49-331
2	6	5999-00-014-0952	81349	M39029/49-329
2	7	5999-01-167-0838	96906	MS3348-6-8L
2	8	0450 04 444 0400	19099	13229E5674-2
2A	1	6150-01-444-2430	97403	13229E5738
2A	2		19099	13229E5738-3

2A 3 19099 13229E5738-4 2A 4 5935-01-091-9166 96906 MS90557C44413S 2A 5 5999-01-131-5588 81349 M39029/49-330 2A 6 5999-01-130-1897 81349 M39029/49-333 2A 7 5999-01-167-0838 96906 MS3348-6-8L 2A 8 19099 13229E5738-2 3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS515795-807 3 8 5310-00-933-8119 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5801-1 <td< th=""></td<>
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2A 5 5999-01-131-5588 81349 M39029/49-330 2A 6 5999-01-130-1897 81349 M39029/49-333 2A 7 5999-01-167-0838 96906 MS3348-6-8L 2A 8 19099 13229E5738-2 3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3
2A 6 5999-01-130-1897 81349 M39029/49-333 2A 7 5999-01-167-0838 96906 MS3348-6-8L 2A 8 19099 13229E5738-2 3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20600AD4W3 3 15 5320-00-056279 96906 MS20600AD4W2 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 19 97403 13229E5834
2A 7 5999-01-167-0838 96906 MS3348-6-8L 2A 8 19099 13229E5738-2 3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5804 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-5 3 16 9740
2A 8 19099 13229E5738-2 3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906
3 1 5310-00-087-4652 97403 13230E6382-6 3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5804-1 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906
3 2 30554 88-20033-314A 3 3 5305-00-688-2111 80204 B1821BH038C138N 3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED 3 13229E5795-1 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5804 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 19 97403 13229E5792-1
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3 4 5930-01-457-7114 97403 13229E5795-1 3 5 NOT USED NOT USED 3 6 5340-01-397-6096 94222 2-57-1735-07 3 7 5305-00-054-6671 96906 MS51957-46 3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5804 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-5 3 15 5320-00-005-6279 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 19 97403 13229E5792-1
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3 8 5310-00-880-5978 96906 MS15795-807 3 9 5310-00-933-8119 96906 MS35338-137 3 10 97403 13229E5804 3 11 97403 13229E5728-2 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 MS20470AD4-4-6 3 15 5320-00-005-6279 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 19 97403 13229E5792-1
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3 11 97403 13229E5728-2 3 12 97403 13229E5801-1 3 13 5320-00-582-3305 96906 MS20600AD4W3 3 14 5310-01-478-5703 96906 13230E6744-46 3 15 5320-00-005-6279 96906 MS20470AD4-4-5 3 16 97403 13229E5835 3 17 97403 13229E5834 3 18 5320-00-582-3304 96906 MS20600AD4W2 3 19 97403 13229E5792-1
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3 20 5310-00-934-9748 97403 MS35649-244
3 21 5310-00-933-8118 96906 MS35338-135
3 22 5305-00-054-5652 96906 MS51957-18
3 23 5310-01-141-6672 88044 AN960-C4
3 24 5935-01-175-8419 96906 MS25043-18DA
3 25 5975-00-074-2072 96906 MS3367-1-9
3 26 97403 13229E5796-1
3 27 96906 MS27130-A96
3 28 5310-01-164-4694 96906 MS27130-A93
3 29 19099 13229E5796-1-15
3 30 5340-01-295-4896 94222 K3-0334-07
3A 1 5940-01-433-6259 96906 MS39347-4
3A 1 5940-00-237-2703 96906 MS39347-5
3A 2 97403 13229E5810
3A 3 30554 72-2029-1A
3A 3 30554 72-2029-2A
3A 4 97403 13229E5806-2
3A 5 97403 13229E5811
3A 6 97403 13229E5802-1
3A 7 6210-00-900-9423 97403 13214E1391
3A 8 97403 13229E5808-2
3A 8 97403 13229E5809-2
3A 9 97403 13229E5806-1
3A 10 97403 13229E5800-1
3A 11 6110-01-388-0318 01XD4 CT350E-120E4
3A 12 5320-00-954-9568 96906 MS20604AD4W3
3A 13 5340-01-295-4896 94222 K3-0334-07

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
3A	14	5975-00-074-2072	96906	MS3367-1-9
3A	15		97403	13229E5801
3A	16		97403	13229E5834
3A	17	5320-00-117-7288	80205	MS20426AD6-8
3A	18		97403	13229E5804
3A	19		97403	13229E5792-2
ЗА	20	5305-00-071-1318	96906	MS51957-83
ЗА	21	5310-01-304-8733	80205	MS15795-852
3A	22		97403	13230E6529
3A	23		97403	13229E5815
3A	24	5310-00-087-4652	81349	M45913/1-6CG5C
3A	25	5310-01-385-7083	96906	MS51412-27
3A	26	5310-00-637-9541	80205	MS35338-46
3A	27	5305-00-688-2111	80204	B1821BH038C138N
3A	28	5310-00-933-8121	96906	MS35338-139
3A	29	5310-00-400-5503	80205	MS35650-3254
3A	30		97403	13229E5793-2
3A	31	5305-00-954-9550	96906	MS35214-101
3A	32	5310-00-042-4229	96906	MS35333-113
3A	33	5310-00-584-7995	96906	MS16203-27
3A	34	5320-00-956-7355	07707	AD64H
3A	35	00_0 00 000 . 000	97403	13230E6823-2
3A	36	5320-00-991-7484	96906	MS20604AD3W2
3A	37	5310-01-219-3472	96906	MS27130-CR26
3A	38	33.3 3. 2.3 3 2	97403	13229E5796
3A	39	5340-01-397-6096	94222	2-57-1735-07
3A	40		97403	13229E5792-1
3A	40		97403	13229E5792-2
3A	41		97403	13230E7004
4	1	5310-00-400-5503	80205	MS35650-3254
4	2	5310-00-933-8121	96906	MS35338-139
4	3	5310-01-304-8733	80205	MS15795-852
4	4	5305-00-685-3511	80205	MS35308-306
4	5	5120-01-019-9564	12670	CLE-403001
4	5	5120-00-138-3790	12670	CLE-403002
4	6	5340-01-277-5068	30554	72-2135
4	7	5940-00-853-3987	14726	P1401
4	8		19099	13229E5795-1-65
4	8		19099	13229E5795-2-65
4	9	5940-00-115-2678	96906	MS20659-111
5	1	5305-00-054-6670	96906	MS51957-45
5	2	5310-00-880-5978	80205	MS15795-807
5	3	5310-00-933-8119	96906	MS35338-137
5	4		97403	13229E5802-1
5	5	5310-00-982-6814	80205	MS21044C08
5	6	5305-00-088-9671	96906	MS24693-C52
5	7	5340-00-078-3615	96906	MS21322-33
5	8		19099	13229E5802-1-4
5	9	5930-00-105-5331	96906	MS27407-3
5	10	5940-00-143-4774	96906	MS25036-153
5	11		19099	13229E5802-1-10
5	12		97403	13229E5805

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
5	13	6150-01-261-9826	58536	AA59125/28-TBJA
5	14	5310-00-570-0386	81349	M45938/1-13C
5	15		97403	13229E5793-1
5	16		97403	13229E5793-2
5	17	6210-00-900-9423	97403	13214E1391
5	18		97403	13229E5837
5A	1	6210-00-900-9423	97403	13214E1391
5A	2		97403	13229E5800-1
5A	3	5340-00-078-3615	96906	MS21322-33
5A	4	5310-00-982-6814	80205	MS21044C08
5A	5		97403	13230E6516
5A	6	6150-01-261-9826	58536	AA59125/28-TBJA
5A	7	5930-00-105-5331	96906	MS27407-3
5A	8		97403	13229E5805
5A	9	5305-00-088-9671	96906	MS24693-C52
5A	10	5305-00-054-6671	96906	MS51957-46
5A	11	5310-00-933-8119	96906	MS35338-137
5A	12	5310-00-880-5978	80205	MS15795-807
6	1		97403	13229E5837
6	2	5975-00-074-2072	96906	MS3367-1-9
6	3	5940-00-813-0698	81343	MS25036-101
6	4		19099	13229E5837-3
6	5		19099	13229E5837-2
6	6	5935-00-506-6540	96906	MS3106R20-27P
7	1	6210-00-900-9423	97403	13214E1391
7	2		83330	181-0931-001
7	3	6240-01-232-8753	58224	G9B (GR)
7	4	6210-01-230-1851	83330	181-8836-09-553
7A	1	6210-00-900-9423	97403	13214E1391
7A	2	6210-00-941-6690	83330	181-0937-003
7A	3	6240-01-355-4422	08108	6S6AC130V
7A	4	6210-01-230-1851	83330	181-8836-09-553
8	1	5310-00-989-5945	96906	MS35691-35
8	2	5310-00-042-4229	96906	MS35333-113
8	3	5940-01-433-6259	96906	MS39347-4
8	4	5310-00-934-9751	96906	MS35650-302
8	5	5310-00-043-1680	96906	MS51415-3
8	6	5305-00-993-1851	96906	MS35207-267
8	7	5310-01-386-0481	96906	MS51412-21
8	8	5310-00-421-9608	96906	MS51858-4
8	9	5310-00-213-4960	96906	MS51859-4
8	10	5305-00-054-6671	96906	MS51957-46
8	11		97403	13229E5807-1
8	12		19099	13229E5795-1-67
8	13		19099	13229E5795-1-68
8	14		19099	13229E5795-1-69
8	15		19099	13229E5795-1-70
8	16	5935-00-114-8061	96906	MS90563-3C
8	17		96906	MS39347-4A
8	18		19099	MS39347-4B
8	19		19099	MS39347-4C
8A	1		97403	13229E5807-1

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
8A	1		97403	13229E5807-2
8A	2		97403	13230E6528
8A	3	5310-01-471-0640	30554	88-20033-11C
8A	4	5310-00-208-9255	80205	MS21044C3
8A	5	00.0 00 200 0200	97403	13230E4599-1
8A	5		97403	13230E4599-2
8A	6	5310-00-042-4229	96906	MS35333-113
8A	6	0010 00 042 4220	97403	13230E6743-108
8A	7	5310-00-989-5945	96906	MS35691-35
8A	7	3310-00-303-3343	97403	13218E0320-331
8A	8	5940-01-433-6259	96906	MS39347-4
8A	8	5940-00-237-2703	96906	MS39347-4 MS39347-5
8A	9	3940-00-237-2703	96906	MS39347-4A
8A	9		96906	MS39347-4A MS39347-5A
8A	10		19099	MS39347-3A MS39347-4B
			19099	MS39347-4B MS39347-5B
8A	10			
8A	11		19099	MS39347-4C
8A	11	5005 00 074 4004	19099	MS39347-5C
8A	12	5305-00-071-1324	96906	MS51960-67
9	1	5940-00-557-4344	96906	MS25036-120
9	2	5940-00-115-4996	96906	MS20659-145
9	3		19099	M23053/5-108-4
9	4		19099	M5086/2-6-9
9	5		19099	M5086/2-4-9
9	6	5935-01-092-3451	96906	MS90555C44413S
9A	1		97403	13229E5808-1
9A	2	5940-00-557-4344	96906	MS25036-120
9A	3	5940-00-115-4996	96906	MS20659-145
9A	4		19099	13229E5808-1-8
9A	5		19099	13229E5808-1-4
9A	6		19099	13229E5808-1-3
9A	7	5935-01-154-2483	96906	MS90555C32413SY
10	1	5940-00-557-4338	96906	MS25036-125
10	2		19099	M23053/5-108-4
10	3		19099	M5086/2-4-9
10	4	5310-00-400-5503	80205	MS35650-3254
10	5	5310-00-933-8121	96906	MS35338-139
10	6		97403	13229E5815
10	7		97403	13229E5788-1
10	8	5310-01-304-8733	80205	MS15795-852
10	9	5305-00-071-1318	96906	MS51957-83
10	10	5935-01-172-1004	96906	MS90563-7C
10	11	5935-01-092-4269	96906	MS90558C44413P
10	12		19099	M5086/2-6-9
10	13	5940-00-557-4344	96906	MS25036-120
10	14	5940-00-115-4996	96906	MS20659-145
10A	1	5310-00-934-9751	96906	MS35650-302
10A	2	5310-00-043-1680	96906	MS51415-3
10A	3	5305-00-993-1851	96906	MS35207-267
10A	4	5310-01-386-0481	96906	MS51412-21
10A	5	11.00.0000.01	97403	13229E5808-2
10A	6	5940-00-557-4344	96906	MS25036-120
	J	33 10 33 331 3333	55556	020000 120

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
10A	7	5940-00-115-4996	96906	MS20659-145
10A	8	5940-00-557-4338	96906	MS25036-125
10A	9		19099	13229E5808-2-8
10A	10		19099	13229E5808-2-4
10A	11		19099	13229E5808-2-3
10A	12	5935-01-154-2482	96906	MS90558C32413PY
10A	13	5935-00-114-5781	96906	MS90564-3C
10A	14	5310-00-400-5503	96906	MS35650-3254
10A	15	5310-00-933-8121	96906	MS35338-139
10A	16	5305-00-685-3511	96906	MS35308-306
10A	17	5310-01-304-8733	96906	MS15795-852
10A	18		97403	13229E5788-1
10A	19		97403	13229E5815
10B	1	5940-00-115-5007	96906	MS25036-130
10B	2		19099	13229E5809-2-16
10B	3		19099	13229E5809-2-6
10B	4	5310-00-400-5503	80205	MS35650-3254
10B	5	5310-00-933-8121	96906	MS35338-139
10B	6		97403	13229E5815
10B	7		97403	13229E5788-2
10B	8	5310-01-304-8733	96906	MS15795-852
10B	9	5305-00-071-1318	96906	MS51957-83
10B	10	5935-01-147-9446	96906	MS90564-7C
10B	11	5935-01-092-4269	96906	MS90558C44413P
10B	12		19099	13229E5809-2-7
10B	13		19099	13229E5809-2-18
10B	14	5940-00-113-8190	96906	MS25036-122
10B	15		19099	13229E5809-2-6
10B	16	5940-00-113-9833	96906	MS25036-131
10B	17		97403	13229E5809-2
11	1		97403	13229E5806-1
11	2	5940-00-230-0515	96906	MS25036-154
11	3	5940-00-113-8179	96906	MS25036-107
11	4		19099	13229E5806-1-5
11	5		19099	13229E5806-1-2
11	6	5935-00-852-9611	96906	MS3102R18-11P
12	1	NOT USED		
12	2	5975-00-074-2072	96906	MS3367-1-9
12	3	5940-00-283-5280	96906	MS25036-106
12	4	5940-00-660-3633	96906	MS25036-155
12	5	5940-00-143-4793	96906	MS25036-110
12	6		19099	M23053/5-108-4
12	7		19099	M22759/16-18-9
12	8	5935-00-801-6622	96906	MS3100R20-27S
12	9		19099	M23053/5-105-4
12A	1	5940-00-143-4771	14726	R4268F
12A	2		19099	13229E5800-1-10
12A	3	5975-00-074-2072	81343	MS3367-1-9
12A	4	5940-00-813-0698	14726	R4142F
12A	5		19099	13229E5800-1-2
12A	6		19099	13229E5800-1-6
12A	7	5940-00-143-4773	14726	R4152F

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
12A	8	5940-01-458-9497	56501	RB14-12
12A	9		97403	13229E5800-1
13	1		97403	13229E5810-3
13	2	5940-00-115-4996	96906	MS20659-145
13	3	5940-00-557-4338	96906	MS25036-125
13	4		19099	13229E5810-3-10
13	5		19099	13229E5810-3-1
13	6		97403	13229E5810-2
13	7	5940-00-115-4996	96906	MS20659-145
13	8	5940-00-557-4338	96906	MS25036-125
13	9		19099	13229E5810-2-1
13	10		19099	13229E5810-2-10
13	11		97403	13229E5810-1
13	12	5940-00-115-4996	96906	MS20659-145
13	13	5940-00-557-4338	96906	MS25036-125
13	14		19099	13229E5810-1-1
13	15		19099	13229E5810-1-10
13	16		97403	13229E5810-11
13	17	5940-00-115-4996	96906	MS20659-145
13	18	5940-00-557-4338	96906	MS25036-125
13	19		19099	13229E5810-11-1
13	20		19099	13229E5810-11-10
13	21		97403	13229E5810-12
13	22	5940-00-115-4996	96906	MS20659-145
13	23	5940-00-557-4338	96906	MS25036-125
13	24		19099	13229E5810-12-1
13	25		19099	13229E5810-12-10
13	26		97403	13229E5810-13
13	27	5940-00-115-4996	96906	MS20659-145
13	28	5940-00-557-4338	96906	MS25036-125
13	29		19099	13229E5810-13-1
13	30		19099	13229E5810-13-10
13A	1		97403	13229E5810-1
13A	1		97403	13229E5810-4
13A	2	5940-00-115-4996	96906	MS20659-145
13A	2	5940-00-113-9833	96906	MS25036-131
13A	3		19099	M23053/5-105-4
13A	3		19099	M23053/5-109-0
13A	4		19099	M22759/16-4-9
13A	4		19099	M22759/16-1-9
13A	5	5940-00-557-4338	96906	MS25036-125
13A	5	5940-00-115-5007	96906	MS25036-130
13A	6		97403	13229E5810-2
13A	6		97403	13229E5810-5
13A	7		97403	13229E5810-3
13A	7		97403	13229E5810-6
13A	8		97403	13229E5810-11
13A	8		97403	13229E5810-14
13A	9		97403	13229E5810-12
13A	9		97403	13229E5810-15
13A	10		97403	13229E5810-13
13A	10		97403	13229E5810-16

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
13A	11		97403	13229E5810-24
13A	12		19099	M22759/16-1-9
13A	13		97403	13229E5810-22
13A	14		19099	M22759/16-1-9
13A	15		97403	13229E5810-21
13A	16		00779	32167
13A	17	5940-00-115-5006	09922	YAEV25-L
13A	18		19099	M22759/16-01-9
14	1	5310-00-250-9477	80205	MS35649-2254
14	2	5310-00-933-8121	96906	MS35338-139
14	3	5310-01-304-8733	80205	MS15795-852
14	4		97403	13229E5816-1
14	5	5340-00-291-3484	96906	MS124696
14	6	5305-00-052-1457	80205	MS35308-3
15	1	5310-00-934-9760	80205	MS35649-204
15	2	5310-00-933-8120	96906	MS35338-138
15	3	5305-00-059-3660	80205	MS51958-64
15	4	5310-01-352-9599	80205	MS15795-857
15	5	6110-01-388-0318	01XD4	CT350E-120E4
15A	1	5305-00-059-3660	80205	MS51958-64
15A	2	5310-00-933-8120	96906	MS35338-138
15A	3	5310-01-471-0640	30554	88-20033-11C
16	1	0010 01 471 0040	97403	13229E5811-1
16	2	5940-00-557-4338	96906	MS25036-125
16	3	3940-00-337-4330	19099	13229E5811-1-4
16	4		19099	13229E5811-1-1
16	5		97403	13229E5811-1-1
16	6	5940-00-557-4338	96906	MS25036-125
16	7	3940-00-337-4330	19099	13229E5811-2-4
16	8		19099	13229E5811-2-4
16	9		97403	13229E5811-3
16	10	5940-00-557-4338	96906	MS25036-125
16	11	3940-00-337-4338	19099	13229E5811-3-4
16	12		19099	13229E5811-3-4
16	13		97403	13229E5811-3-1
	13	E040 00 44E 4006		MS20659-145
16		5940-00-115-4996	96906	
16	15 16		19099	13229E5811-4-4
16	16		19099	13229E5811-4-1
16	17	5040.00.557.4000	97403	13229E5811-5
16	18	5940-00-557-4338	96906	MS25036-125
16	19		19099	13229E5811-5-4
16	20		19099	13229E5811-5-1
16A	1	5040.00.440.0000	97403	13229E5811-6
16A	2	5940-00-113-9833	96906	MS25036-131
16A	3		19099	M23053/5-108-4
16A	4	5040.00.445.5007	19099	M22759/16-1-9
16A	5	5940-00-115-5007	96906	MS25036-130
16A	6		97403	13229E5811-7
16A	7		19099	M22759/16-1-9
16A	8		97403	13229E5811-8
16A	9		19099	M22759/16-1-9
16A	10		97403	13229E5811-9

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
16A	11		19099	M22759/16-1-9
16A	12		97403	13229E5811-10
16A	13		19099	M22759/16-1-9
17	1		97403	13226E5806-2
17	2	5940-00-230-0515	96906	MS25036-154
17	3	5940-00-113-8179	96906	MS25036-107
17	4		19099	13229E5806-2-5
17	5		19099	13229E5806-2-2
17	6	5935-01-035-5139	96906	MS3456W18-11S
18	1	5310-00-056-3395	96906	MS35649-2382
18	2	5310-01-385-7083	96906	MS51412-27
18	3	5305-00-688-2111	80204	B1821BH038C138N
18	4		97403	13230E4592
19	1	5340-00-066-1235	06076	13211E7541
19	2	3740-00-902-1481	97403	13200E6363
19	3		97403	13211E7548
19	4	5310-00-408-2561	97403	13211E7547
19	5	5310-00-566-9502	97403	13211E7544
19	6	4710-00-597-8731	97403	13211E7542
19	7	4710-00-185-6948	97403	13211E7543
19	8	5330-00-402-5125	97403	13211E7546
19	9	5310-00-571-5090	97403	13200E6361
19	10	4730-00-441-8700	96906	MS51500A8-4
19	11	5310-00-209-1239	96906	MS35335-60
19	12	5305-00-841-2681	29440	PL-19-3
19	13	5120-01-013-1676	97403	13226E7741
19	14	5120-00-203-4656	58536	A-A-1293
19	15	5975-00-878-3791	58536	A-A-55804-3B
19	16	5940-00-271-9504	01667	CBA-70
19	17	6145-01-226-9164	81348	QQW343C06B1B
19	18	5940-00-113-8190	96906	MS25036-122
19	19	5999-00-186-3912	04655	70-801074
19	20	5975-00-924-9927	73616	GRB58
19	21	5975-00-794-2523	OBKK8	GRC 58
19	22	5975-00-296-5324	58536	A-A-55804
19	23		30554	13230E6380-4A
19	24		30554	13230E6381-2A
20	1	4210-00-270-4512	97403	13230E6831
20	2	5940-00-113-8190	96906	MS25036-122
20	3	6145-01-226-9164	81348	QQW343C06B1B
20	4	4730-00-908-3194	96906	MS35842-11
20	5	4720-01-386-4210	81349	M6000F00200
20	6	4730-00-809-9703	96906	MS24519-9
20	7	5320-00-493-4101	81349	M24243/1-B604
20	7	5320-00-052-1972	07707	AD45ABS
20	8		30554	13230E6521-4
20	9		97403	13230E5666-6
20	10		97403	13230E5666-16
20	11		97403	13230E5666-18
20	12		97403	13230E5666-17
20	13		97403	13230E5666-5
20	14		97403	13230E5666-46

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
20	15		97403	13230E5666-45
20	16		30554	13230E6521-7
20	17		30554	13230E6521-6
21	1	5310-00-088-1251	96906	MS51922-1
21	2	5310-01-304-8733	96906	MS15795-852
21	3	5305-00-988-1727	96906	MS35206-283
21	4	4730-00-812-1333	93742	69-539-2
21	5	4730-01-297-0185	96906	MS51519B5Z/A5Z
21	6	4820-00-277-1765	96906	MS35930-2
21	7	4730-01-020-5607	96906	MS51860-54
21	8	5310-00-809-5997	96906	MS27183-17
21	9	4730-01-386-1770	96906	MS51520A5Z
21	10		96906	MS52103A050400R
21	11	4730-00-842-2201	96906	MS24587-5
21	12	4720-01-337-5130	19099	MS52103-2
22	1	6115-01-392-0296	97403	13229E9632
22	2		19099	13230E6829
22	3		30554	13230E6565
22	4		96906	13230E6382-4
22	5	5310-00-044-6477	96906	88-20033-25A
22	6	5306-00-226-4827	80204	B1821BH031C100N
22	7	4210-01-535-1439	97403	13230E6858
23	1	5310-00-984-3806	96906	MS51922-9
23	2	5310-00-044-6477	96906	MS51412-25
23	3	5306-00-226-4829	80204	B1821BH031C125N
23	4		97403	13214E1259
23	5		97403	13214E1261
24	1	5310-00-984-3806	96906	MS51922-9
24	1	5310-00-252-8748	96906	MS35650-3314
24	1	5310-00-974-6623	96906	MS35338-140
24	2	5310-00-044-6477	96906	MS51412-25
24	2	5310-00-625-5756	96906	MS15795-812
24	3	5306-00-226-4827	80204	B1821BH031C100N
24	3	5306-00-226-4829	80204	B1821BH031C125N
24	3	5306-00-021-3912	96906	MS35308-334
24	3	5306-00-021-4065	96906	MS35308-338
24	4	2540-01-417-8036	97403	13229E7946
24	5	5320-00-753-3830	96906	MS20613-4P5
24	6	5340-00-975-2126	96906	MS18015-1
24	7	5320-00-680-8779	96906	MS20427-4C6
24	8	5340-00-234-8422	96906	MS27969-4
25	1	5310-00-934-9751	96906	MS35650-302
25	2	5310-00-043-1680	96906	MS51415-3
25	3	5305-00-984-7341	96906	MS35191-273
25	4	5310-01-386-0481	96906	MS51412-21
25	5	6115-01-280-0063	97403	13218E5091
25	6	5310-00-984-3806	96906	MS51922-9
25	7	5310-00-044-6477	96906	MS51412-25
25	8	5306-00-226-4829	80204	B1821BH031C125N
25	9	2510-01-195-4273	97403	13214E1263
25	10	2510-01-213-3242	97403	13214E1264
25	11		96906	13230E6382-4
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25 12 5306-00-226-4827 80204 B1821BH031C100N 25 13 5310-00-044-6477 30554 88-20033-25A 26 1 5310-00-087-4652 96906 MS51922-17 26 2 5310-01-280-5796 96906 MS51922-17 26 3 5305-00-068-0511 80204 B1821BH038C125N 26 4 97403 13229E5744 26 5 97403 13229E6632-2 26 6 97403 13229E9621-3 26 7 97403 13229E6632-3 26 8 5306-00-226-4827 80204 B1821BH031C100N 26 9 5310-00-044-6477 30554 88-20033-25A 26 10 4210-01-535-1439 97403 13230E6868 27 1 97403 13230E6868 27 1 97403 13230E6868 27 1 97403 13214E1271 27 2 5310-00-984-3806 96906	FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
25 14 4210-01-535-1439 97403 13230E6858 26 1 5310-00-087-4652 96906 MS51922-17 26 2 5310-01-280-5796 96906 MS27183-57 26 3 5305-00-068-0511 80204 B1821BH038C125N 26 4 97403 13229E5744 26 5 97403 13229E5621-3 26 6 97403 13229E5621-3 26 7 97403 13229E5621-3 26 7 97403 13230E6382-4 26 8 5306-00-226-4827 80204 B1821BH031C100N 26 9 5310-00-044-6477 30554 88-20033-25A 27 1 97403 13214E1271 27 2 5310-00-984-3806 96906 MS51922-9 27 3 5310-00-944-6477 96906 MS51922-9 27 4 5306-00-226-4829 80204 B1821BH031C125N 27 5 97403	25	12	5306-00-226-4827	80204	B1821BH031C100N
26 1 5310-00-087-4652 96906 MS51922-17 26 2 5310-01-280-5796 96906 MS27183-57 26 3 5305-00-068-0511 80204 B18218H038C125N 26 4 97403 13229E56744 26 5 97403 13230E6532 26 6 97403 13230E6532 26 7 97403 13230E6582 26 8 5306-00-226-4827 80204 B1821BH031C10N 26 9 5310-00-044-6477 30554 88-2003-25A 27 1 97403 13230E6858 27 1 97403 13214E1271 27 2 5310-00-984-3806 96906 MS51922-9 27 4 5306-00-226-4829 80204 B1821BH031C125N 27 5 97403 13214E1262 27 6 5342-01-226-5766 97403 13214E1262 27 7 5365-00-988-3304 97403 13214	25	13	5310-00-044-6477	30554	88-20033-25A
26 2 5310-01-280-5796 96906 MS27183-57 26 3 5305-00-068-0511 80204 B1821BH038C125N 26 4 97403 13229E5744 26 5 97403 13239E6532 26 6 97403 13239E6532-13 26 7 97403 13239E6382-4 26 8 5306-00-226-4827 80204 B1821BH031C100N 26 9 5310-00-044-6477 30554 88-20033-25A 26 10 4210-01-535-1439 97403 13214E1271 27 1 97403 13214E1271 27 2 5310-00-984-3806 96906 MS51412-25 27 4 5306-00-226-4829 80204 B1821BH031C125N 27 5 97403 13214E1269 27 7 5365-00-989-3304 97403 13214E1269 27 7 5365-00-989-3304 97403 13214E1269 27 7 5365-00-989-3304 <td>25</td> <td>14</td> <td>4210-01-535-1439</td> <td>97403</td> <td>13230E6858</td>	25	14	4210-01-535-1439	97403	13230E6858
26 3 5305-00-068-0511 80204 B1821BH038C125N 26 4 97403 13229E5744 26 5 97403 13230E6532 26 6 97403 13232E9621-3 26 7 97403 13230E6382-4 26 8 5306-00-226-4827 80204 B1821BH031C100N 26 9 5310-00-044-6477 30554 88-20033-25A 26 10 4210-01-535-1439 97403 13214E1271 27 2 5310-00-984-3806 96906 MS51922-9 27 3 5310-00-984-3806 96906 MS51922-9 27 4 5306-00-226-4829 80204 B1821BH031C125N 27 5 97403 13214E1271 27 6 5342-01-226-5766 97403 13214E1269 27 7 5365-00-989-3304 97403 13214E1272 28 1 5310-00-984-3806 96906 MS51412-25 28 2	26	1	5310-00-087-4652	96906	MS51922-17
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29 2A 5310-00-044-6477 96906 MS51412-25 29 3 5306-00-226-4829 80204 B1821BH031C125N 29 3A 5306-00-226-4829 80204 B1821BH031C125N 29 4 97403 13229E6108 29 4A 97403 13229E6108 29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6576 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B	29	1A	5310-00-984-3806	96906	MS51922-9
29 3 5306-00-226-4829 80204 B1821BH031C125N 29 3A 5306-00-226-4829 80204 B1821BH031C125N 29 4 97403 13229E6108 29 4A 97403 13229E6108 29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	2	5310-00-044-6477	96906	MS51412-25
29 3A 5306-00-226-4829 80204 B1821BH031C125N 29 4 97403 13229E6108 29 4A 97403 13229E6108 29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6576 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	2A	5310-00-044-6477	96906	MS51412-25
29 4 97403 13229E6108 29 4A 97403 13229E6108 29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	3	5306-00-226-4829	80204	B1821BH031C125N
29 4A 97403 13229E6108 29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	3A	5306-00-226-4829	80204	B1821BH031C125N
29A 1 17446 MGLP-R8-10 29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	4		97403	13229E6108
29A 2 30554 13230E6568 29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29	4A		97403	13229E6108
29A 3 30554 13230E6567-1 29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6527 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A	1		17446	MGLP-R8-10
29A 4 30554 13230E6564-1 29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 7 30554 13230E6527 29B 8 17446 MGLP-R8-10 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A			30554	13230E6568
29A 5 30554 13230E6567-2 29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A	3		30554	13230E6567-1
29A 6 30554 13230E6564-2 29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A			30554	13230E6564-1
29B 1 5320-00-483-0558 9K475 BOM-R8-8 29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A			30554	13230E6567-2
29B 2 5320-01-140-1479 9K475 BOM-R8-10 29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29A	6		30554	13230E6564-2
29B 3 30554 13230E6569-1 29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29B		5320-00-483-0558	9K475	BOM-R8-8
29B 4 30554 13230E6569-2 29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577	29B		5320-01-140-1479	9K475	BOM-R8-10
29B 5 17446 MGL100-R6-9 29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577				30554	13230E6569-1
29B 6 30554 13230E6527 29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577					
29B 7 30554 13230E6576 29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577					
29B 8 17446 MGLP-R8-10 29B 9 30554 13230E6577					
29B 9 30554 13230E6577					
29B 10 30554 13230E6526					
	29B	10		30554	13230E6526

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
29B	11		30554	13230E6578-1
29B	12		30554	13230E6578-2
29B	13		17446	MGLP-R8-6
29B	14		30554	13230E6571-1
29B	15		30554	13230E6571-2
29B	16		17446	MGLP-R8-6
29B	17		30554	13230E6582-1
29B	18		30554	13230E6582-2
29B	19		30554	13230E6579
29B	20		30554	13230E6583-1
29B	21		30554	13230E6583-2
29B	22		30554	13230E6580-1
29B	23		30554	13230E6580-2
29B	24	5310-00-984-7042	96906	MS35338-141
29B	25	5310-00-802-4701	96906	MS15795-813
29B	26	5975-00-984-6582	96906	MS3367-1-0
30	1	5310-01-078-5996	96906	MS35425-75
30	2	5310-00-187-2413	88044	AN961-616
30	3	5310-00-584-7995	96906	MS16203-27
30	4	5310-00-184-8971	96906	MS35338-103
30	5	5310-00-022-8847	96906	MS35333-110
30	6	5307-00-227-1741	97403	13214E1223
30	7	5310-00-989-0908	96906	MS35691-3
30	8	5310-00-883-9417	96906	MS35338-158
30	9	5310-00-582-5677	96906	MS15795-810
30	10	5940-00-021-3321	96906	MS39347-2
31	1	5310-00-088-1251	96906	MS51922-1
31	2	5310-01-103-6042	96906	MS51412-4
31	3	5305-00-071-2505	80204	B1821BH025C088N
31	4	9905-00-205-2795	96906	MS35387-1
31	5	9905-00-202-3639	96906	MS35387-2
31	6	5310-00-087-4652	96906	MS51922-17
31	7	5305-00-638-8920	80204	B1821BH038C225N
31	8	5310-01-280-5796	96906	MS27183-57
31	9	5040 00 007 4050	97403	13229E5758
32	1	5310-00-087-4652	96906	MS51922-17
32	2	5310-01-280-5796	96906	MS27183-57
32	3	5305-00-071-2067	80204	B1821BHO50C125N BOM-R12-8
32	3A		17446	
32 32	4 4	2590-00-420-8929	30554 97403	13214E1206-2 13214E1206-1
32	5	5315-00-839-5822	96906	MS24665-353
32	6	5315-00-659-5622	97403	13214E1209
32	7	5342-01-102-0143	96403	13214E1209
32	8	4730-00-172-0049	96906	MS15006-1
32	9	5315-00-838-4584	96906	MS16562-66
32	10	2590-00-453-8977	97403	13214E1208-1
32	11	5310-01-149-0869	97403	13214E1211
32	12	3310-01-143-0003	97403	13214E1211
32	13	2590-01-167-8596	97403	13214E1210
33	1	5320-00-052-1972	07707	AD45ABS
33	2	9905-01-085-7703	97403	13205E4918
30	_	3030 01 000 1100	37 400	.020027010

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
33 33 33 33 33 33	2 2A 3 4 5	9905-01-085-7703 5320-00-483-0558	97403 30554 17446 30554 30554 97403	13205E4918 13230E6572 BOM-R8-8 13230E6514 13230E6524 13229E9633
	-			
33 33	6A 6B		97403 19207	13229E6829 12450001
00	00		10201	12 100001

APPENDIX G

ILLUSTRATED LIST OF MANUFACTURED ITEMS

G-1. INTRODUCTION

This appendix includes complete instructions for making items authorized to be manufactured or fabricated at unit maintenance level and direct support maintenance level.

A part number index in alphanumeric order is provided for cross-referencing the part number of the item to be manufactured to the figure that covers fabrication criteria.

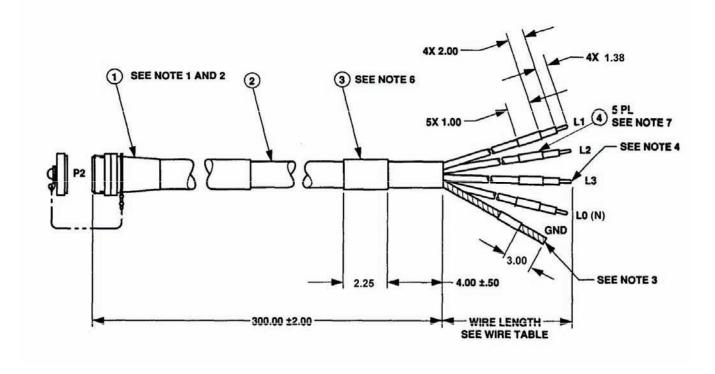
All bulk materials needed for manufacture of an item are listed by part number or specification number in a tabular list on the illustration.

G-2. MANUFACTURED ITEMS PART NUMBER INDEX

Part Number of Manufactured Item	Applicable Figure
13229E5674 (AN/MJQ-39) 13229E5738 (AN/MJQ-48/48A) 13229E5800-1 (AN/MJQ-39, A Model) 13229E5800-1 (AN/MJQ-39/48/48A, B&C Models) 13229E5806-1, 2 13229E5808-1, 2 (AN/MJQ-39, A Model) 13229E5808-1, 2 (AN/MJQ-39, B&C Models) 13229E5809-2 (AN/MJQ-48/48A) 13229E5810-1, 2, 3, 11, 12, 13	G-1 G-1A G-2 G-2A G-3 G-4 G-4A G-4B G-5
(AN/MJQ-39, A Model) 13229E5810-1, 2, 3, 11, 12, 13, 21, 24 (AN/MJQ-39, B&C Models)	G-5A
13229E5810-4, 5, 6, 14, 15, 16, 22, 24 (AN/MJQ-48/48A)	G-5B
13229E5811-1, 2, 3, 4, 5 (AN/MJQ-39) 13229E5811-6, 7, 8, 9, 10 (AN/MJQ-48/48A) 13229E5837 (AN/MJQ-39, A Model) MS52103A050400R	G-6 G-6A G-7 G-8

G-3. GENERAL INSTRUCTIONS

The manufacture of items listed above consists of cutting wires to lengths specified on figures and soldering terminal lugs or connectors on appropriate wires. Use standard shop procedures in the manufacture of these items.



PARTS LIST

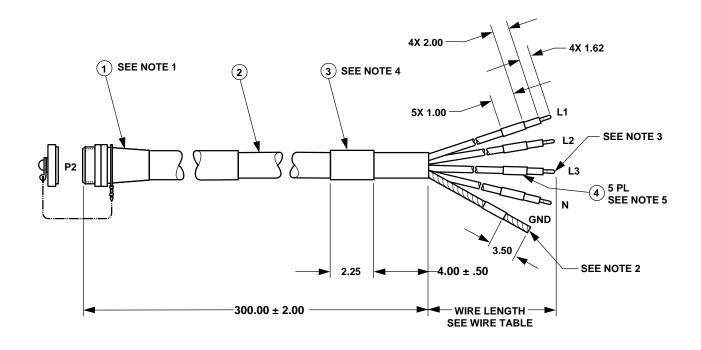
FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS90557C32413SY	1	CONNECTOR, PLUG, ELECT, CABLE CONNECTING	
2	CO-04HDF(4/4- 4/12R)1290	AR	CABLE, SEE NOTE 4	MIL-C-3432
3	M23053/5-112-0	1	INSULATION SLEEVING, HEAT SHRINKABLE, BLK	MIL-I-23053/5
4	M23053/5-107-9	5	INSULATION SLEEVING, HEAT SHRINKABLE, WHT	MIL-I-23053/5
5	Sn60Pb40	AR	SOLDER	QQ-S-571

Figure G-1 Cable Assembly, W19, AN/MJQ-39 (Sheet 1 of 2).

- 1. CRIMP CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 2. AT CONNECTOR END OF CABLE, GROUNDING CONDUCTORS SHALL BE TWISTED TOGETHER TO FORM A SINGLE CONDUCTOR WHICH SHALL BE CRIMPED IN APPLICABLE CONTACT.
- 3. AT PIGTAIL END OF CABLE, THE FOUR 12 AWG GROUNDING CONDUCTORS SHALL BE TWISTED TOGETHER, STARTING AT THE JACKET. CONDUCTORS SHALL BE SOLDER COATED FOR A LENGTH OF .250 FROM END USING SOLDER, FIND NO. 5.
- 4 AT PIGTAIL END OF CABLE, EACH INSULATED CONDUCTOR SHALL HAVE THEIR INDIVIDUAL STRANDS TWISTED TOGETHER AND SOLDER COATED FOR A LENGTH OF .125 FROM END USING SOLDER, FIND NO. 5.
- 5. INSULATION COLORS, IN ACCORDANCE WITH WIRE TABLE, SHALL BE INCLUDED AS PART OF THE ORDERING DATA.
- 6. HOT STAMP "97403-13229E5674", "W19" AND "NSN 6150-01-457-0884" IN .09-.16 HIGH WHITE CHARACTERS ON INSULATION SLEEVING, FIND NO. 3, IN ACCORDANCE WITH MIL-M-60903.
- 7. HOT STAMP TERMINAL DESIGNATION, AS SHOWN IN WIRE TABLE, USING .09-.16 HIGH BLACK CHARACTERS, IN TWO PLACES (180° APART) ON INSULATION SLEEVING, FIND NO. 4, IN ACCORDANCE WITH MIL-M-60903.

TERMIN	NATION	TERM	INATION			
FROM	FIND NO.	TO SEE NOTE 7	FIND NO.	WIRE LENGTH +/50	WIRE COLOR SEE NOTE 5	AWG (REF)
P2-A	1	G2-L1	-	19.50	BLK	
P2-B	1	G2-L2	-	21.50	RED	4
P2-C	1	G2-L3	-	24.50	BLU OR ORN	4
P2-N	1	G2-L0 (N)	-	13.50	WHT	
P2-G	1	G2-GND	-	12.50	GRN OR BARE	12

Figure G-1 Cable Assembly, W19, AN/MJQ-39 (Sheet 2 of 2).



PARTS LIST

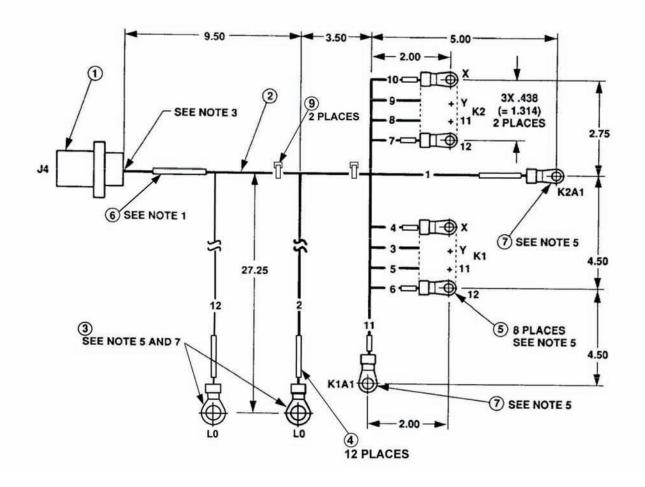
FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS90557C44413S	1	CONNECTOR, PLUG, ELECT, CABLE CONNECTING	
2	012822	AR	CABLE, SEE NOTE 3	MIL-C-3432
3	M23053/5-113-0	2	INSULATION SLEEVING, HEAT SHRINKABLE, BLK	MIL-I-23053/5
4	M23053/5-110-9	5	INSULATION SLEEVING, HEAT SHRINKABLE, WHT	MIL-I-23053/5
5	SN60WRP2 0.125, 1LB	LB	SOLDER, TIN ALLOY	J-STD-004 J-STD-005
	,			J-STD-006

Figure G-1A. Cable Assembly, W19, AN/MJQ-48/48A (Sheet 1 of 2).

- 1. CRIMP CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 2. AT PIGTAIL END OF CABLE, THE FOUR 8 AWG GROUNDING CONDUCTORS SHALL BE TWISTED TOGETHER, STARTING AT THE JACKET. CONDUCTORS SHALL BE SOLDER COATED FOR A LENGTH OF .250 FROM END USING SOLDER, FIND NO. 5.
- 3. AT PIGTAIL END OF CABLE, EACH INSULATED CONDUCTOR SHALL HAVE ITS INDIVIDUAL STRANDS TWISTED TOGETHER AND SOLDER COATED FOR A LENGTH OF .25 FROM END, USING SOLDER, FIND NO. 5.
- 4. HOT STAMP "97403-13229E5738", "W19", AND "NSN 6150-01-444-2430" IN .09-.16 HIGH WHITE CHARACTERS ON INSULATION SLEEVING, FIND NO. 3.
- 5. HOT STAMP TERMINAL DESIGNATION, AS SHOWN IN WIRE TABLE, USING .09-.16 HIGH BLACK CHARACTERS, IN TWO PLACES (180° APART) ON INSULATION SLEEVING, FIND NO. 4.
- 6. INSULATION COLORS, IN ACCORDANCE WITH WIRE TABLE, SHALL BE INCLUDED AS PART OF THE ORDERING DATA.

TERMI	NATION	TERMIN	NATION			
FROM	FIND NO.	TO SEE NOTE 7	FIND NO.	WIRE LENGTH +/50	WIRE COLOR SEE NOTE 6	AWG (REF)
P2-A		G2-L1	-	19.50	BLK	
P2-B		G2-L2	-	21.50	RED	1
P2-C		G2-L3	-	24.50	BLU OR ORN	'
P2-N	1	G2-(N)	-	13.50	WHT	
P2-G1	'		-			
P2-G2		G2-GND	-	12.50	GRN OR BARE	8
P2-G3		02-9ND	-	12.50	ONN ON BANE	3
P2-G4			-			

Figure G-1A. Cable Assembly, W19, AN/MJQ-48/48A (Sheet 2 of 2).



PARTS LIST

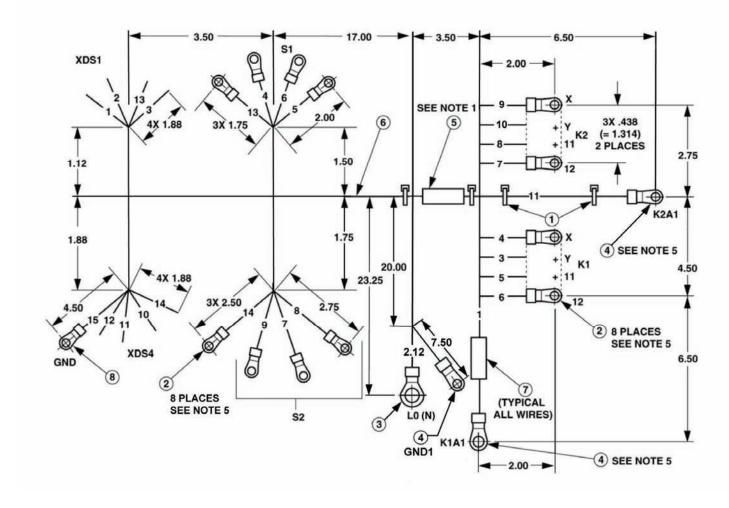
FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS3100R20-27S	1	CONNECTOR, RECEPTACLE, ELECTRICAL	
2	M22759/16-18-9	AR	WIRE, ELECTRICAL, 16 AWG, WHT	MIL-W-22759/16
3	MS25036-155	1	TERMINAL LUG, 16-14 AWG, .500 STUD SIZE	
4	M23053/5-105-4	12	INSULATION SLEEVING, HEAT SHRINKABLE, .187 ID X L AS REQUIRED	MIL-I-23053/5
5	MS25036-106	8	TERMINAL LUG, 16-14 AWG, .138 STUD SIZE	
6	M23053/5-108-4	1	INSULATION SLEEVING, HEAR SHRINKABLE, .500 ID X 2.50 LONG	MIL-I-23053/5
7	MS25036-110	2	TERMINAL LUG, 16-14 AWG, .375 STUD SIZE	
8	Sn60Pb40	AR	SOLDER	QQ-S-571
9	MS3367-1-9	AR	STRAP, TIE DOWN, ELECTRICAL	

Figure G-2. Wiring Harness, W7 (A Model) (Sheet 1 of 2).

- 1. HOT STAMP "W7" AND "97403-13229E5800-1" ON SLEEVING, FIND NO. 6, IN ACCORDANCE WITH MIL-M-60903. LOCATE APPROXIMATELY AS SHOWN.
- 2. HOT STAMP SLEEVING, FIND NO. 4, WITH WIRE ADDRESS WITHIN 2 INCHES OF ITS TERMINATION, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW AND THE TO TERMINATION.
- 3. SOLDER CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-2000, USING SOLDER, FIND NO. 8.
- 4. STRIP AND TIN ENDS IN ACCORDANCE WITH MIL-STD-2000.
- 5. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 6. BUNDLE WIRES USING TIE DOWN STRAPS, FIND NO. 9, AT INTERVALS OF 3.00 MAX. AND AT ALL BREAKOUTS.
- 7. WIRE NO. 2 AND 12 SHALL TERMINATE AT TERMINAL, FIND NO. 3. CRIMP WIRES IN TERMINAL, FIND NO. 3, AND SOLDER.

	TERMI	NATION	TERM	INATION	
WIRE NO.	FROM	FIND NO.	то	FIND NO.	WIRE FIND NO.
1	J4-A		K1-A1	7	
2	J4-B		L0	3	
3	J4-C		K1-Y	5]
4	J4-D		K1-X	5]
5	J4-F		K1-11	5	1
6	J4-G		K1-12	5	_
7	J4-H	1	K2-12	5	2
8	J4-I		K2-11	5	1
9	J4-K		K2-X	5	
10	J4-L		K2-Y	5	
11	J4-M		K2-A1	7	
12	J4-N		L0	3	1

Figure G-2. Wiring Harness, W7 (A Model) (Sheet 2 of 2).



PARTS LIST

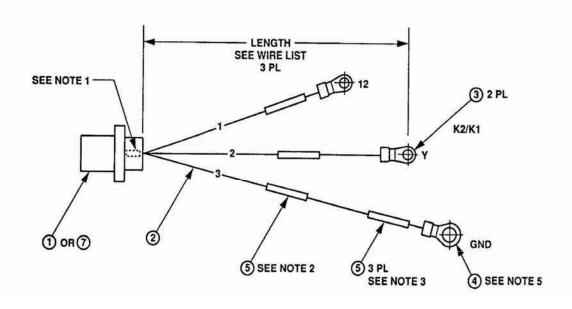
FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS3367-1-9	AR	STRAP, TIE DOWN, ELECTRICAL	
2	R4142F	16	TERMINAL LUG, 22-18 AWG, .138 STUD SIZE	
3	RB14-12	1	TERMINAL LUG, 22-18 AWG, .500 STUD SIZE	
4	R4152F	3	TERMINAL LUG, 22-18 AWG, .375 STUD SIZE	
5	M23053/5-110-9	1	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X 2.50 LONG	MIL-I-23053/5
6	M22759/16-18-9	AR	WIRE, ELECTRICAL, 18 AWG, WHT	
7	M23053/5-105-9	30	INSULATION SLEEVING, HEAT SHRINKABLE, .187 ID X L. AS REQUIRED	MIL-I-23053/5
8	R4268F	1	TERMINAL LUG, 22-18 AWG, .190 STUD SIZE	
9	SN60WRP92 0.125, 1LB	LB	SOLDER, TIN ALLOY	J-STD-004 J-STD-005 J-STD-006

Figure G-2A. Wiring Harness, W7 (B & C Models) (Sheet 1 of 2).

- 1. HOT STAMP "W7" AND "97403-13229E5800-1" ON SLEEVING, FIND NO. 5. LOCATE APPROXIMATELY AS SHOWN.
- 2. HOT STAMP SLEEVING, FIND NO. 7, WITH WIRE ADDRESS WITHIN 2 INCHES OF ITS TERMINATION. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE-HEADED ARROW, AND THE TO TERMINATION.
- 3. SOLDER CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-2000, USING SOLDER, FIND NO. 9.
- 4. STRIP AND TIN ENDS IN ACCORDANCE WITH MIL-STD-2000.
- 5. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 6. BUNDLE WIRES USING TIEDOWN STRAPS, FIND NO. 1, AT INTERVALS OF 3.00 MAX. AND AT ALL BREAKOUTS.
- 7. WIRE NO. 2 AND 12 SHALL TERMINATE AT TERMINAL FIND NO. 3. CRIMP WIRES IN TERMINAL, FIND NO. 3, AND SOLDER.

	TERMIN	NATION	TERM	INATION	
WIRE NO.	FROM	FIND NO.	то	FIND NO.	WIRE FIND NO.
1	XDS1-1	-	K1-A1	4	
2	XDS1-2	-	L0(N)	3	
3	XDS3-2	-	K1-Y	2	
4	S1-3	2	K1-X	2	7
5	S1-5	2	K1-11	2	7
6	S1-6	2	K1-12	2	7
7	S2-6	2	K2-12	2	7
8	S2-5	2	K2-11	2	6
9	S2-3	2	K2-X	2	7
10	XDS4-2	-	K2-Y	2	7
11	XDS2-1	-	K2-A1	4	7
12	XDS2-2	-	L0(N)	3	
13	XDS3-1	-	S1-3	2	
14	XDS4-1	-	S2-3	2	
15	GND	8	GND1	4	

Figure G-2A. Wiring Harness, W7 (B & C Models) (Sheet 2 of 2).



PARTS LIST

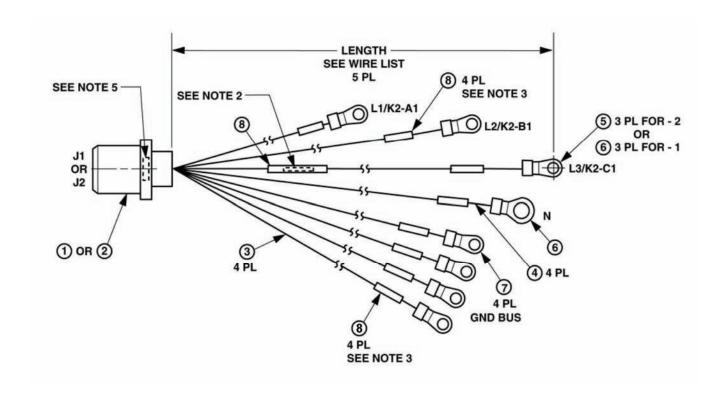
FIND	PART	QUANTITY REQUIRED			
NO.	NO.	-1	-2	DESCRIPTION	SPECIFICATION
1	357-3408-340	1	-	CONNECTOR, RECEPTACLE, ELECTRICAL	
2	M22759/16-16-9	AR	AR	WIRE, ELECTRICAL, .16 AWG, WHT	MIL-W-22759/16
3	MS25036-107	2	2	TERMINAL LUG, CRIMP STYLE, 16-14 AWG, .138 STUD SIZE	
4	MS25036-154	1	1	TERMINAL LUG, CRIMP STYLE, 16-14 AWG, .250 STUD SIZE	
5	M23053/5-104-4	4	4	INSULATION SLEEVING, HEAT SHRINKABLE, .125 ID X 2.00 LONG	MIL-I-23053/5
6	Sn60Pb40	AR	AR	SOLDER	QQ-S-571
7	MS3106R18-11S	-	1	CONNECTOR, PLUG, ELECTRICAL	

Figure G-3. Wiring Harness, W17 and W18 (Sheet 1 of 2).

- 1. MARK REFERENCE DESIGNATION "J3" OR "P1" IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.
- 2. HOT STAMP "W17 OR W18", INDICATED IN WIRE LIST, AND "97403-13229E5806- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 5, IN ACCORDANCE WITH MIL-M-60903. LOCATE APPROXIMATELY AT MIDPOINT OF WIRE.
- 3. HOT STAMP SLEEVING, FIND NO. 5, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.
- 4. SOLDER CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-2000, USING SOLDER, FIND NO. 6.
- 5. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.

DASH		TERMI	NATION	TERMIN	NATION	LENGTH	HARNESS
NO.	WIRE NO.	FROM	FIND NO.	ТО	FIND NO.	+/25	REF DES.
	1	J3-A	1	K2-12	3	15.00	
-1	2	J3-B	1	K2-Y	3	15.00	W17
	3	J3-E	1	GND	4	25.00	
	1	P1-A	7	K1-12	3	48.00	
-2	2	P1-B	7	K1-Y	3	48.00	W18
	3	P1-E	7	GND2	4	60.00	

Figure G-3. Wiring Harness, W17 and W18 (Sheet 2 of 2).



PARTS LIST

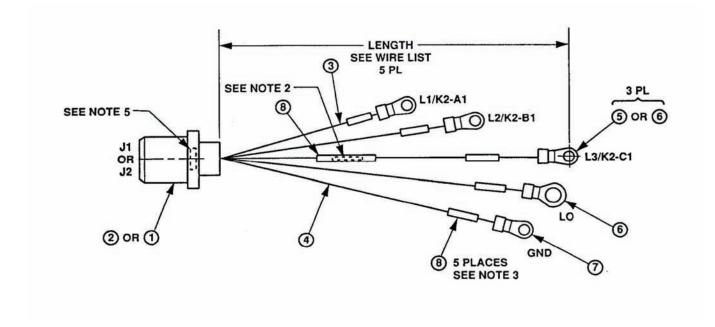
FIND		QUAN REQUI			
NO.	PART NO.	-1	-2	DESCRIPTION	SPECIFICATION
1	MS90555C44413S	1	-	CONNECTOR, RECEPTACLE, ELECTRICAL	
2	MS90558C44413P	-	1	CONNECTOR, RECEPTACLE, ELECTRICAL	
3	M5086/2-6-9	AR	AR	WIRE, ELECTRICAL, 6 AWG, WHT	MIL-W-5086/2
4	M5086/2-4-9	AR	AR	WIRE, ELECTRICAL, 4 AWG, WHT	MIL-W-5086/2
5	MS25036-125	-	3	TERMINAL LUG, 4 AWG, .375 STUD	
6	MS20659-145	4	1	TERMINAL LUG, 4 AWG, .500 STUD SIZE	
7	MS25036-120	4	4	TERMINAL LUG, 6 AWG, .250 STUD SIZE	
8	M23053/5-108-4	9	9	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X 2.50 LONG	MIL-I-23053/5

Figure G-4. Wiring Harness, W9 and W10 (A Model) (Sheet 1 of 2).

- 1. ASSEMBLE WIRE, FIND NO. 3 AND 4, INTO CONNECTOR, FIND NO. 1 OR 2, IN ACCORDANCE WITH MIL-C-22992, CLASS L.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5808- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 8. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP SLEEVING, FIND NO. 8, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE- HEADED ARROW, AND THE TO TERMINATION.
- 4. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 5. MARK CONNECTOR REFERENCE DESIGNATION IN .12 MIN HIGH CHARACTERS, IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.

			TERM	INATION	TERMINA	TION			
DASH NO.	CONN REF DES	WIRE NO.	FROM	FIND NO.	то	FIND NO.	LENGTH +/12	WIRE FIND NO.	HARNESS REF DES
		1	J1-A		L1		14.00		
		2	J1-B		L2	6	17.00	4	
		3	J1-C		L3	0	20.00	4	
-1	J1	4	J1-N	1	N(L0)				
-1	J1	5	J1-G1	ı					W9
		6	J1-G2		BUS BAR		8.00	3	
		7	J1-G3		DUS DAK	7			
		8	J1-G4						
		1	J2-A		K2-A1				
		2	J2-B		K2-B1	5	14.50	4	
		3	J2-C		K2-C1			4	
-2	J2	4	J2-N	2	N(L0)	6	28.00		W10
-2	JZ	5	J2-G1	2					VVIO
		6	J2-G2		DUCDAD	7	22.50	2	
		7	J2-G3		BUS BAR	/	22.50	3	
		8	J2-G4						

Figure G-4. Wiring Harness, W9 and W10 (A Model) (Sheet 2 of 2).



PARTS LIST

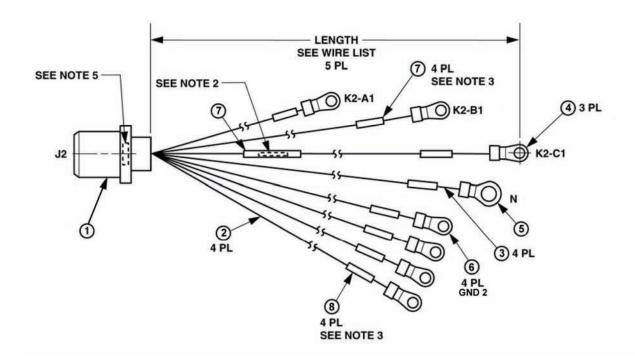
FIND		QUAN REQUI			
NO.	PART NO.	-1	-2	DESCRIPTION	SPECIFICATION
1	MS90555C32413SY	1	-	CONNECTOR, RECEPTACLE, ELECTRICAL	
2	MS90558C32413PY	ı	1	CONNECTOR, RECEPTACLE, ELECTRICAL	
3	M22759/16-4-9	AR	AR	WIRE, ELECTRICAL, 4 AWG, WHT	MIL-W-22759/16
4	M22759/16-6-9	AR	AR	WIRE, ELECTRICAL, 6 AWG, WHT	MIL-W-22759/16
5	MS25036-125	i	3	TERMINAL LUG, 4 AWG, .375 STUD	
6	MS20659-145	4	1	TERMINAL LUG, 4 AWG, .500 STUD SIZE	
7	MS25036-120	1	1	TERMINAL LUG, 6 AWG, .250 STUD SIZE	
8	M23053/5-108-4	6	6	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X 2.50 LONG	MIL-I-23053/5

Figure G-4A. Wiring Harness, W9 and W10 (B & C Models, AN/MJQ-39) (Sheet 1 of 2).

- 1. ASSEMBLE WIRE, FIND NO. 3 AND 4, INTO CONNECTOR, FIND NO. 1 OR 2, IN ACCORDANCE WITH MIL-DTL-22992, CLASS L.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5808- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 8., IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP SLEEVING, FIND NO. 8, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE- HEADED ARROW, AND THE TO TERMINATION.
- 4. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 5. MARK CONNECTOR REFERENCE DESIGNATION IN .12 MIN HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.

	CONN		TERM	INATION	TERMINA	TION		WIRE	
DASH NO.	REF DES	WIRE NO.	FROM	FIND NO.	то	FIND NO.	LENGTH +/- .12	FIND NO.	HARNESS REF DES
		1	J1-A	1	L1		29.00		
		2	J1-B	1	L2	6	27.00	3	
-1	J1	3	J1-C	1	L3	0	29.00	3	W9
		4	J1-N	1	L0(N)		29.50		
		5	J1-G	1	GND	7	30.00	4	
		1	J2-A	2	K2-A1				
		2	J2-B	2	K2-B1	5	12.50	3	
-2	J2	3	J2-C	2	K2-C1			3	W10
		4	J2-N	2	L0(N)	6	28.00		
		5	J2-G	2	GND	7	28.00	4	

Figure G-4A. Wiring Harness, W9 and W10 (B & C Models, AN/MJQ-39) (Sheet 2 of 2).



PARTS LIST

FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS90558C44413P	1	CONNECTOR, RECEPTACLE, ELECTRICAL	
2	M22759/16-6-9	AR	WIRE, ELECTRICAL, 6 AWG, WHT	MIL-W-22759/16
3	M22759/16-1-9	AR	WIRE, ELECTRICAL, 1 AWG, WHT	MIL-W-22759/16
4	MS25036-130	3	TERMINAL LUG, 1 AWG, .375 STUD SIZE	
5	MS25036-131	1	TERMINAL LUG, 1 AWG, .500 STUD SIZE	
6	MS25036-122	4	TERMINAL LUG, 6 AWG, .250 STUD SIZE	
7	M23053/5-109-9	5	INSULATION SLEEVING, HEAT SHRINKABLE, .750 ID X 2.50 LONG	MIL-I-23053/5
8	M23053/5-108-9	4	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X 2.50 LONG	MIL-I-23053/5

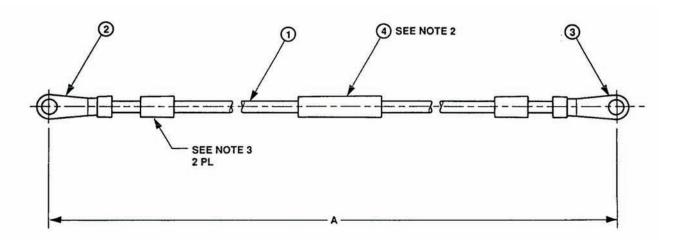
Figure G-4B. Wiring Harness, W10 (B & C Models, AN/MJQ-48/48A) (Sheet 1 of 2).

- 1 ASSEMBLE WIRE, FIND NO. 2 AND 3, INTO CONNECTOR, FIND NO. 1, IN ACCORDANCE WITH MIL-DTL-22992, CLASS L.
- 2. HOT STAMP "W10" AND "97403-13229E5809-2" ON SLEEVING, FIND NO. 7. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP SLEEVING, FIND NOS. 7 AND 8, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE-HEADED ARROW, AND THE TO TERMINATION.
- 4. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.
- 5. MARK CONNECTOR REFERENCE DESIGNATION IN .12 MIN HIGH CHARACTERS, IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.

CONN REF	WIRE	TERM	MINATION	TERM	IINATION	LENGTH	WIRE FIND
DES	NO.	FROM	FIND NO.	то	FIND NO.	+/12	NO.
	1	J2-A	1	K2-A1			
	2	J2-B		K2-B1	4	14.50	3
	3	J2-C		K2-C1		3	3
J2	4	J2-N		N	5	28.00	
JZ	5	J2-G1	ı				
	6	J2-G2		CND a	6	00.50	
	7	J2-G3		GND 2	6	22.50	2
	8	J2-G4					

Figure G-4B. Wiring Harness, W10 (B & C Models, AN/MJQ-48/48A) (Sheet 2 of 2).

TM 9-6115-661-13&P



PARTS LIST

FIND NO.	PART NO.	QUANTITY REQUIRED -1 THRU -3 AND -11 THRU -13	DESCRIPTION	SPECIFICATION
1	M5086/2-4-9	AR	WIRE, ELECTRICAL, 4 AWG, WHT	MIL-W-5086/2
2	MS25036-125	1	TERMINAL LUG, 4 AWG, .375 STUD SIZE	
3	MS20659-145	1	TERMINAL LUG, 4 AWG, .500 STUD SIZE	
4	M23053/5-105-4	3	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X L AS REQUIRED	MIL-I-23053/5

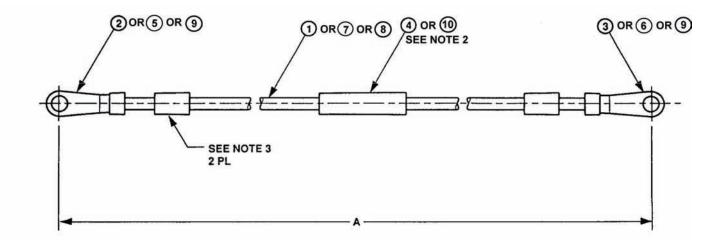
NOTES:

- 1. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 19.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5810-" WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 4, IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP INSULATION SLEEVING, FIND NO. 4, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.

WIRE LIST

		TERMINATION		TERMIN	NATION		WIRE
DASH NO.	REF DES	FROM	FIND NO.	то	FIND NO.	DIM A	FIND NO.
-1	W11	K1-A2		L1			
-2	W12	K1-B2		L2			
-3	W13	K1-C2	2	L3	3	12.50	1
-11	W14	K2-A2	_	L1			·
-12	W15	K2-B2		L2			
-13	W16	K2-C2		L3			

Figure G-5. Electrical Leads, W11-16 (A Model).



PARTS LIST

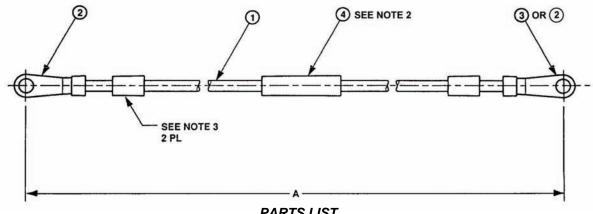
		QUANTITY	REQUIR	ED		
FIND		-1 THRU -3 AND				
NO.	PART NO.	-11 THRU -13	-21	-24	DESCRIPTION	SPECIFICATION
1	M22759/16-4-9	AR	-	-	WIRE, ELECTRICAL	MIL-W-22759/16
2	MS25036-125	1	-	-	TERMINAL LUG, 4 AWG, .375 STUD SIZE	
3	MS20659-145	1	-	-	TERMINAL LUG, 4 AWG, .500 STUD SIZE	
4	M23053/5-108-4	3	-	-	INSULATION SLEEVING, HEAT SHRINKABLE, .500 ID X L AS REQUIRES	MIL-I-23053/5
5	321677	-	1	-	TERMINAL LUG, 1/0, .375 STUD SIZE	
6	YAEV25-L	-	1	-	TERMINAL LUG, 1/0, .500 STUD SIZE	
7	M22759/16-01-9	-	AR	-	WIRE, ELECTRICAL	MIL-W-22759/16
8	M22759/16-1-9	-	-	AR	WIRE, ELECTRICAL	MIL-W-22759/16
9	MS25036-130	-	-	2	TERMINAL LUG, 1 AWG, .375 STUD SIZE	
10	M23053/5-109-0	-	3	3	INSULATION SLEEVING, HEAT SHRINKABLE, .750 ID X L AS REQUIRES	MIL-I-23053/5

Figure G-5A. Electrical Leads, W11-16, W21, W22 (B & C Models) (AN/MJQ-39) (Sheet 1 of 2).

- 1. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 19.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5810- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NOS. 4 AND 10, IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP INSULATION SLEEVING, FIND NOS. 4 AND 10, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.

		TERMII	TERMINATION		NATION		WIRE
DASH NO.	REF DES	FROM	FIND NO.	то	FIND NO.	DIM A	FIND NO.
-1	W11	K1-A2		L1			
-2	W12	K1-B2		L2			
-3	W13	K1-C2	2	L3	3	10.50	4
-11	W14	K2-A2	2	L1	3	12.50	1
-12	W15	K2-B2		L2			
-13	W16	K2-C2		L3			
-21	W22	GND-1	5	GND	6	9.50	7
-24	W21	GND2	9	GND1	9	6.88	8

Figure G-5A. Electrical Leads, W11-16, W21, W22 (B & C Models) (AN/MJQ-39) (Sheet 2 of 2).



PARTS LIST

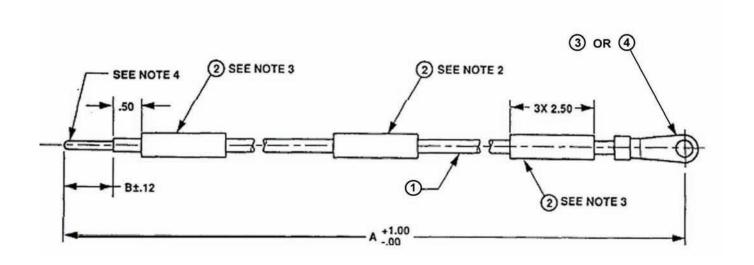
		QUANTITY REQUIRED				
FIND NO.	PART NO.	-4 THRU -6 AND -14 THRU -16	-22	-24	DESCRIPTION	SPECIFICATION
1	M22759/16-1-9	AR	AR	AR	WIRE, ELECTRICAL	MIL-W-22759/16
2	MS25036-130	1	1	2	TERMINAL LUG, 4 AWG, .375 STUD SIZE	
3	MS25036-131	1	1	-	TERMINAL LUG, 6 AWG, .500 STUD SIZE	
4	M23053/5-109-0	3	3	3	INSULATION SLEEVING, HEAT SHRINKABLE, .750 ID X L AS REQUIRED	MIL-I-23053/5

- 1. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT19.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5810- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 4, IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP INSULATION SLEEVING, FIND NO. 4, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.

WIRE LIST

		TERMII	TERMINATION		NOITAN		WIRE
DASH NO.	REF DES	FROM	FIND NO.	то	FIND NO.	DIM A	FIND NO.
-4	W11	K1-A2		L1			
-5	W12	K1-B2		L2			
-6	W13	K1-C2		L3			
-14	W14	K2-A2	2	L1	3	12.50	1
-15	W15	K2-B2	2	L2		12.00	ı
-16	W16	K2-C2		L3			
-22	W22	GND-1		GND		9.50	
-24	W21	GND-2		GND-1	2	6.88	

Figure G-5B. Electrical Leads, W11-16, W21, W22 (B & C Models) (AN/MJQ-48/48A).



PARTS LIST

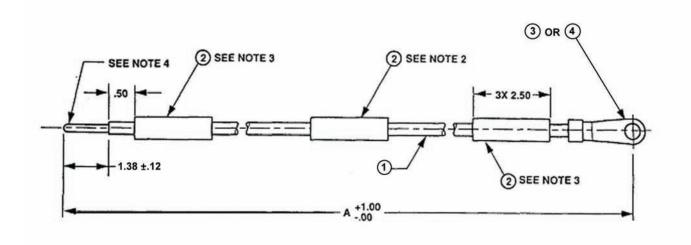
		QUAN' REQUI			
FIND NO.	PART NO.	-1 THRU -3, -5	-4	DESCRIPTION	SPECIFICATION
1	M5086/2-4-9	1	1	WIRE, ELECTRICAL, 4 AWG, WHT	MIL-W-5086/2
2	M23053/5-108-9	3	3	INSULATION SLEEVING, HEAT SHRINKABLE	MIL-I-23053/5
3	MS25036-125	1	-	TERMINAL LUG, CRIMP, 4 AWG, .375 STUD SIZE	
4	MS20659-145	_	1	TERMINAL LUG, CRIMP, 4 AWG, .500 STUD SIZE	

Figure G-6. Power Leads, W1 – W5 (AN/MJQ-39) (Sheet 1 of 2).

- 1. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 19.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5811- " WITH APPROPRIATE DASH NO. ON SLEEVING, FIND NO. 2, IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP INSULATION SLEEVING, FIND NO. 2, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.
- 4. STRIP WIRE IN ACCORDANCE WITH WIRE LIST AND TIN EXPOSED CONDUCTOR FOR A DISTANCE OF .12 +/-.03 INCHES FROM CONDUCTOR END IN ACCORDANCE WITH MIL-STD-2000.

		TERMIN	ATION	TERM	TERMINATION		OIM A	
DASH NO.	REF DES	FROM	FIND NO.	то	FIND NO.	(A MODEL)	(B&C MODELS)	WIRE FIND NO.
-1	W1	G1-L1	-	K1-A1	3	34.00	37.00	1
-2	W2	G1-L2	-	K1-B1	3	59.00	39.00	1
-3	W3	G1-L3	-	K1-C1	3	64.00	41.00	1
-4	W4	G1-N	-	L0(N)	4	45.00	49.00	1
-5 (A MODEL)	W5	G1-GND	-	BUS BAR	3	37.00	-	1
-5 (B&C MODELS)	W5	G1-GND	-	GND-1	3	-	45.00	1

Figure G-6. Power Leads, W1 - W5 (AN/MJQ-39) (Sheet 2 of 2).



PARTS LIST

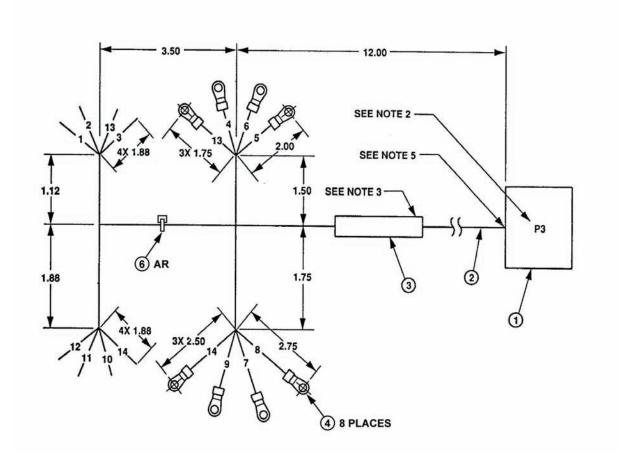
		QUAN REQUI			
FIND NO.	PART NO.	-6 THRU -8, -10	-9	DESCRIPTION	SPECIFICATION
1	M22759/16-1-9	1	1	WIRE, ELECTRICAL, 1 AWG, WHT	MIL-W-22759/16
2	M23053/5-108-4	3	3	INSULATION SLEEVING, HEAT SHRINKABLE	MIL-I-23053/5
3	MS25036-130	1	-	TERMINAL LUG, CRIMP, 1 AWG, .375 STUD SIZE	
4	MS25036-131	-	1	TERMINAL LUG, CRIMP, 1 AWG, .500 STUD SIZE	

Figure G-6A. Power Leads, W1-W5 (AN/MJQ-48/48A) (Sheet 1 of 2)

- 1. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 19.
- 2. HOT STAMP "W_", INDICATED IN WIRE LIST, AND "97403-13229E5811-" WITH APPROPRIATE DASH NO. ON SLEEVING, FIND No. 2, IN ACCORDANCE WITH MIL-M-60903. LOCATE AT MIDPOINT OF WIRE.
- 3. HOT STAMP INSULATION SLEEVING, FIND NO. 2, WITH WIRE ADDRESS, WITHIN 2 INCHES OF ITS TERMINATIONS, IN ACCORDANCE WITH MIL-M-60903. THE ADDRESS CONSISTS OF THE FROM TERMINATION, A DOUBLE HEADED ARROW, AND THE TO TERMINATION.
- 4. STRIP WIRE IN ACCORDANCE WITH WIRE LIST AND TIN EXPOSED CONDUCTOR FOR A DISTANCE OF .12 +/- .03 INCHES FROM CONDUCTOR END IN ACCORDANCE WITH MIL-STD-2000.

		TERMINATION		TERMINA	TION		
DASH NO.	REF DES	FROM	FIND NO.	то	FIND NO.	DIM A	WIRE FIND NO.
-6	W1	G1-L1	-	K1-A1	3	33.00	1
-7	W2	G1-L2	-	K1-B1	3	39.00	1
-8	W3	G1-L3	-	K1-C1	3	42.00	1
-9	W4	G1-N	-	L0(N)	4	48.00	1
-10	W5	G1-GND		GND-1	3	39.00	1

Figure G-6A. Power Leads, W1-W5 (AN/MJQ-48/48A) (Sheet 2 of 2).



PARTS LIST

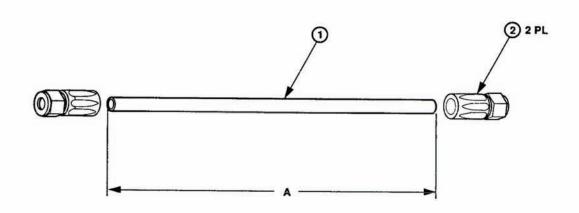
FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS3106R2O-27P	1	CONNECTOR, PLUG, ELECTRICAL	
2	M22759/16-20-9	AR	WIRE, ELECTRICAL, 20 AWG, WHT	MIL-W-22759/16
3	M23053/5-107-9	1	INSULATION SLEEVING, HEAT SHRINK, 2.50 L	MIL-I-23053/5
4	MS25036-101	8	TERMINAL LUG, .22-18 AWG, NO. 6 STUD	
5	Sn60Pb40	AR	SOLDER	QQ-S-571
6	MS3367-1-9	AR	STRAP, TIE DOWN, ELECTRICAL	

Figure G-7. Harness Assembly, W20 (A Model) (Sheet 1 of 2).

- 1. USE TIEDOWN STRAPS, FIND NO. 6, TO BUNDLE WIRES AT INTERVALS OF 3.00 MAX.
- 2. MARK REFERENCE DESIGNATION "P3" IN ACCORDANCE WITH MIL-STD-130, METHOD OPTIONAL.
- 3. HOT STAMP "W20" AND "97403-13229E5837" ON SLEEVING, FIND NO. 3, IN ACCORDANCE WITH MIL-M-60903. LOCATE APPROXIMATELY AT MIDPOINT OF WIRE.
- 4. SOLDER CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-2000, USING SOLDER FIND NO. 5.
- 5. CRIMPED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-E-45782.

	TERMINATION		TERMINATION		WIRE	
WIRE NO.	FROM	FIND NO.	то	FIND NO.	FIND NO.	REMARKS
1	XDS1-1		P3-A			
2	XDS1-2		Р3-В			
3	XDS3-2		P3-C			
4	S1-3	4	P3-D	1	2	SEE NOTE 1
5	S1-5		P3-F			SEE NOTE 1
6	S1-6		P3-G			SEE NOTE 1
7	S2-6		Р3-Н			SEE NOTE 1
8	S2-5		P3-I			SEE NOTE 1
9	S2-3		P3-K			SEE NOTE 1
10	XDS4-2		P3-L			
11	XDS2-1		P3-M	- -		
12	XDS2-2		P3-N			
13	XDS3-1		S1-3	4		SEE NOTE 1
14	XDS4-1		S2-3	4		SEE NOTE 1

Figure G-7. Harness Assembly, W20 (A Model) (Sheet 2 of 2).



PARTS LIST

FIND NO.	PART NO.	QUANTITY REQUIRED	DESCRIPTION	SPECIFICATION
1	MS52103-2	40"	HOSE, NONMETALLIC	
2	MS24587-5	2	FLARED, FITTING	

- 1. CUT NONMETALLIC HOSE TO LENGTH. USE OLD HOSE AS A TEMPLATE FOR APPROXIMATE LENGTH.
- 2. INSTALL FITTING FLARED AT EACH END OF NONMETALLIC HOSE AND TURN COUNTERCLOCKWISE TO INSTALL.

Figure G-8. Fuel Drain Assembly.

APPENDIX H

TORQUE LIMITS

SAE Gra	ade Number	1 0	or 2	9	5	6	or 7	8			
Quality of Material	of	Indete	rminate	Minimum Commercial		Medium Commercial		Best Commercial			
Capscrew Head Markings						←					
				NOTE	•			•			
Head marking may vary with different manufacturers.											
Capscrew (Inches) -	Body Size (Thread)	Torque Ft Lb (N.m)		Torque Ft Lb (N.m)		Torque Ft Lb (N.m)		Torque Ft Lb (N.m)			
1/4	20	5	(7)	8	(11)	10	(14)	12	(16)		
5/16	28 18	6 11	(8) (15)	10 17	(14) (23)	19	(26)	14 24	(19) (33)		
3/8	24 16 24	13 18 20	(18) (24) (27)	19 31 35	(26) (42) (47)	34	(46)	27 44 49	(37) (60) (66)		
7/16	14 20	28 30	(38) (41)	49 55	(66) (75)	55	(75)	70 78	(95) (106)		
1/2	13 20	39 41	(53) (56)	75 85	(102) (115)	85	(115)	105 120	(142) (163)		
9/16	12 18	51 55	(69) (75)	110 120	(149) (163)	120	(163)	155 170	(210) (231)		
5/8	11 18	83 95	(113) (129)	150 170	(203) (231)	167	(226)	210 240	(285) (325)		
3/4	10 16	105 115	(142) (156)	270 295	(366) (400)	280	(380)	375 420	(508) (569)		
7/8	9	160 175	(217)	395 435	(536)	440	(597)	605 675	(820)		
1	8 14	235 250	(237) (319) (339)	590 660	(590) (800) (895)	660	(895)	910 990	(915) (1234) (1342)		

CAUTION

If replacement capscrews are of a higher grade than originally supplied, use torque specifications for that placement. This will prevent equipment damage due to over torquing.

NOTE

Always use the torque values listed above when specific torque values are not available

GLOSSARY

Section I. ABBREVIATIONS

COMMON ABBREVIATIONS

Common abbreviations used in this manual are in accordance with ASME - Y14.38M.

SPECIAL OR UNIQUE ABBREVIATIONS

The following are special or unique abbreviations and symbols that are used in this manual.

AAL	
BII	Basic Issue Item
BOI	Basis Of Issue
°C	Degrees Celsius
CAGE	
CAGEC	
CONEX	
COEI	
CPC	
CTA	
CUCV	
DMWR	Depot Maintenance Work Requirement
DOD	
EIR	
°F	
FGC	
HMMWV	· · · · · · · · · · · · · · · · · · ·
Hz	Hertz
JTA	Joint Table Of Allowances
kg	Kilogram
kPa	Kilopascals
KPH	Kilometers Per Hour
kW	Kilowatt
lbf•ft	
LTT	
m	
MAC	
MTOE	
NHA	
NIIN	National Item Identification Number
N•m	
NSN	
P/N	
PMCS	
RPSTL	
SMR	Source, iviaintenance, And Recoverability
TAMMS	Ine Army Maintenance Management System
TDA	
TMDE	
TOE	
UOC	Usable On Code

Section II. DEFINITIONS OF UNUSUAL TERMS

UNUSUAL TERMS

The following are terms used in this manual and not listed in the Army dictionary (AR 310-25).

None.

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ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	REC	OMMENDED CHA	NGES AND REASON
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	PA	ART III - R	EMARKS (Any go blank for	eneral rema ms. Additic	arks or rec	commer sheets	ndations, or su may be used	iggestio if more	ns fo spac	r improvement of pee is needed.)	oublications and	
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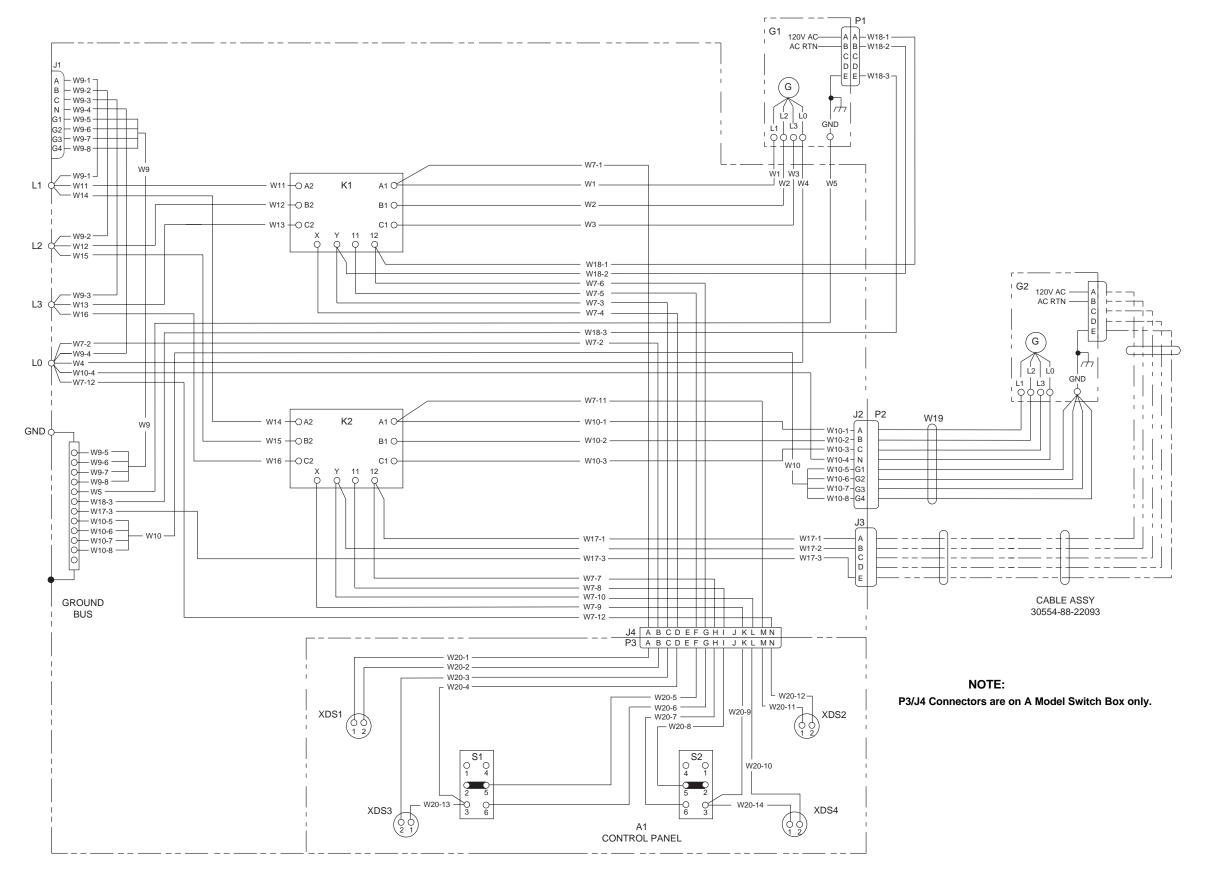
GEORGE W. CASEY, JR. General, United States Army Chief of Staff

Official:

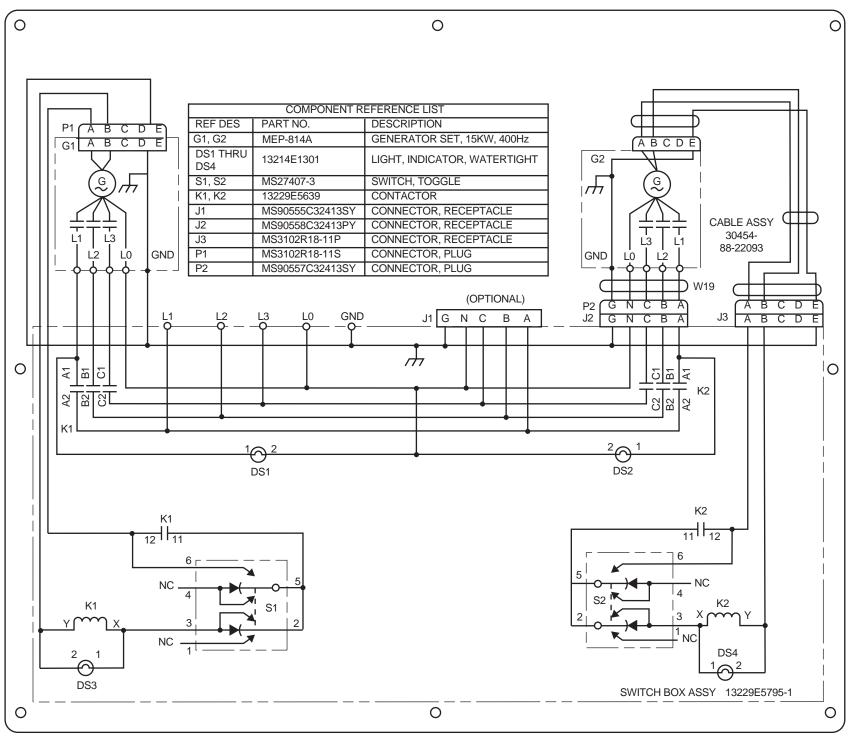
JOYCE E. MORROW Administrative Assistant to the Secretary of the Army 0711001

Distribution:

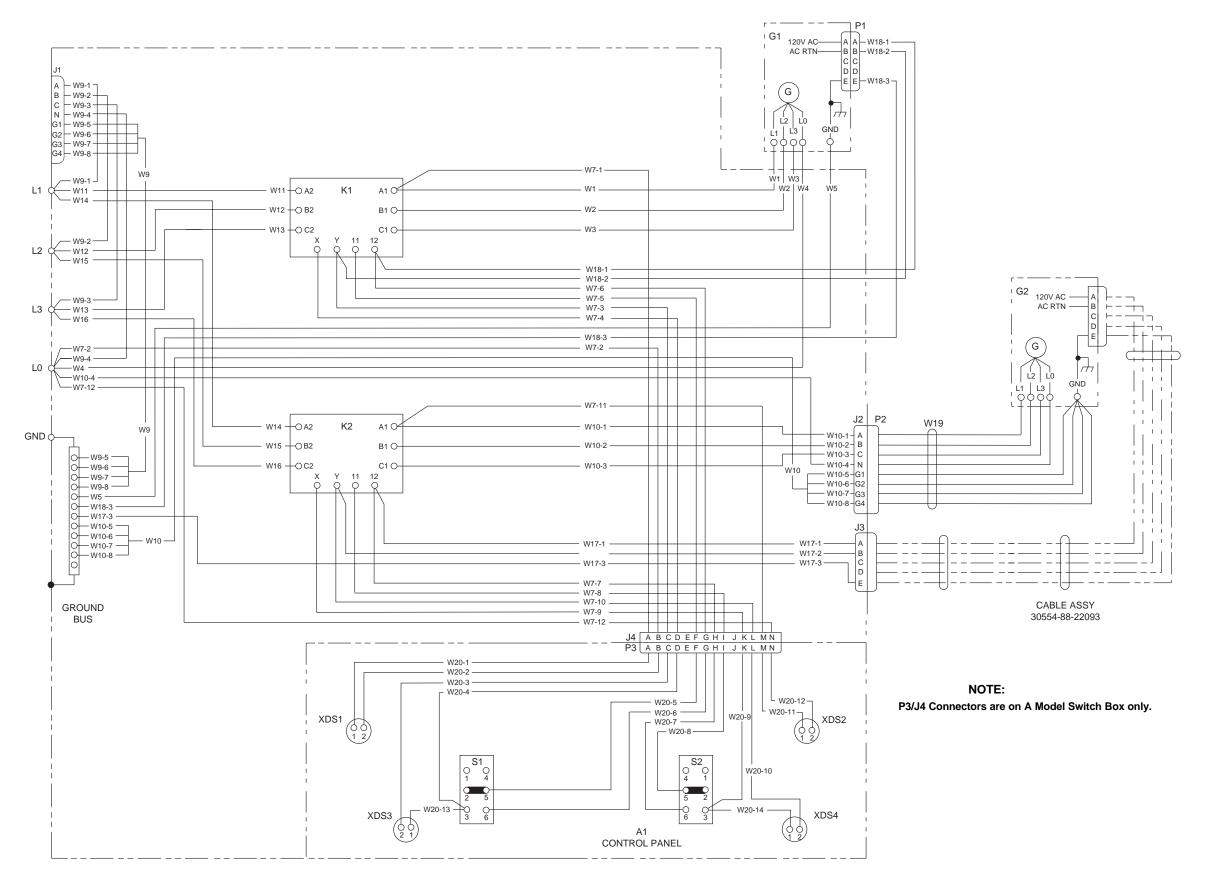
To be distributed in accordance with the initial distribution number (IDN) 256177 requirements for TM 9-6115-661-13&P.



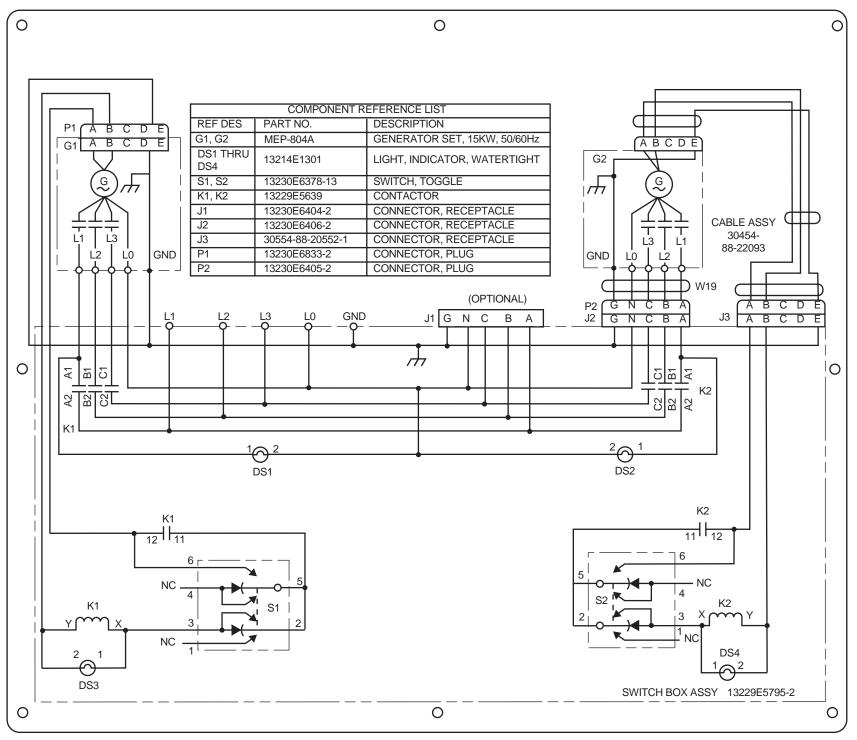
FO-1.1. AN/MJQ-39 Power Plant Wiring Diagram.



FO-1.2. AN/MJQ-39 Power Plant Schematic.



FO-2.1. AN/MJQ-48/48A Power Plant Wiring Diagram.



FO-2.2. AN/MJQ-48/48A Power Plant Schematic.

The Metric System and Equivalents

Linear Measure

Liquid Measure

1 centimeter = 10 millimeters = .39 inch	1 centiliter = 10 milliliters = .34 fl. ounce
1 decimeter = 10 centimeters = 3.94 inches	1 deciliter = 10 centiliters = 3.38 fl. ounces
1 meter = 10 decimeters = 39.37 inches	1 liter = 10 deciliters = 33.81 fl. ounces
1 dekameter = 10 meters = 32.8 feet	1 dekaliter = 10 liters = 2.64 gallons
1 hectometer = 10 dekameters = 328.08 feet	1 hectoliter = 10 dekaliters = 26.42 gallons
1 kilometer = 10 hectometers = 3,280.8 feet	1 kiloliter = 10 hectoliters = 264.28 gallons

Weights

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

Square Measure

```
1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47
acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile
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Cubic Measure

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1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet
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Approximate Conversion Factors

To change	То	Multiply	by To change	То	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gailons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

٩F	Fahrenheit	5/9 (after		Celsius	°C
	temperature	subtracting	32)	temperature	

PIN: 071918-000