

wiring diagram terminal block

wiring diagram terminal block is a fundamental component in electrical systems used to simplify the connection and organization of wires. Understanding how to read and utilize wiring diagrams involving terminal blocks is essential for professionals in electrical engineering, maintenance, and installation fields. This article explores the various aspects of wiring diagram terminal blocks, including their types, functions, and best practices for wiring and troubleshooting. By examining detailed explanations and practical examples, readers will gain a comprehensive understanding of how terminal blocks function within electrical circuits and systems. The content also covers safety considerations, common wiring configurations, and tips for efficient terminal block management. This thorough overview aims to enhance knowledge for both beginners and experienced technicians working with wiring diagram terminal blocks.

- Understanding Wiring Diagram Terminal Blocks
- Types of Terminal Blocks
- How to Read a Wiring Diagram Terminal Block
- Installation and Wiring Techniques
- Common Applications of Terminal Blocks
- Safety and Maintenance Considerations

Understanding Wiring Diagram Terminal Blocks

A wiring diagram terminal block is a modular, insulated device that connects two or more wires securely in an electrical circuit. Terminal blocks serve as a junction point where electrical wires are joined without the need for soldering, allowing for easier maintenance and troubleshooting. They are commonly represented in wiring diagrams to indicate connection points and the flow of electrical current through various components. Terminal blocks come in different configurations and sizes, depending on the complexity of the electrical system and the number of connections required.

Purpose and Functionality

The primary purpose of a wiring diagram terminal block is to provide a safe, organized, and reliable method for connecting wires. They facilitate the distribution of electrical power and signals while minimizing the risk of loose connections and electrical faults. Terminal blocks also simplify modifications or expansions of electrical circuits by making it easier to disconnect and reconnect wires without disrupting the entire system.

Components of a Terminal Block

Typically, a terminal block consists of the following components:

- **Insulating Base:** Made of plastic or other non-conductive materials to prevent accidental contact with live wires.
- **Conductive Metal Strips:** Often made of copper or brass, these strips provide electrical continuity between connected wires.
- **Clamping Mechanism:** Screws, spring clamps, or push-in connectors that secure wires firmly in place.
- **Marking Area:** Space for labeling terminals to identify connections in wiring diagrams.

Types of Terminal Blocks

There are several types of terminal blocks used in wiring diagram terminal block applications, each suited for different electrical and mechanical requirements. Choosing the appropriate type depends on factors such as current rating, wire size, environment, and ease of installation.

Screw Terminal Blocks

Screw terminal blocks are among the most common types. They use screws to clamp wires securely to conductive strips. These terminal blocks offer strong mechanical retention and are suitable for a broad range of wire gauges and applications.

Spring Clamp Terminal Blocks

Spring clamp terminal blocks use a spring mechanism to hold wires in place. They provide quick and tool-free wiring, reducing installation time and the risk of over-tightening screws. These are often preferred in environments where vibration could loosen screw connections.

Barrier Terminal Blocks

Barrier terminal blocks feature insulating barriers between adjacent terminals to prevent electrical shorts. This type is used when high voltage or high current isolation is required, ensuring safety and preventing accidental contact.

Plug-in Terminal Blocks

Plug-in terminal blocks allow for easy connection and disconnection of wiring without tools. They are commonly used in modular control systems where frequent maintenance or replacement is necessary.

How to Read a Wiring Diagram Terminal Block

Reading a wiring diagram terminal block accurately is critical for proper installation and troubleshooting. Wiring diagrams use standardized symbols to represent terminal blocks, wires, and connections, enabling clear communication between designers and technicians.

Symbols and Notations

Terminal blocks in wiring diagrams are usually represented by rectangular shapes with numbered terminals. Each terminal corresponds to a physical connection point. Lines connecting these terminals indicate the wires or conductors linking different circuit components.

Interpreting Terminal Numbers and Labels

Terminal numbers in wiring diagram terminal blocks are essential for identifying specific connection points. These numbers must match the physical terminal markings on the actual terminal block during installation. Labels may also include wire color codes or function descriptions to aid identification.

Tracing Circuits Through Terminal Blocks

By following the lines that connect terminal block symbols in a wiring diagram, technicians can understand the flow of electricity and signal paths. This tracing helps in diagnosing faults, verifying connections, and ensuring that wiring conforms to design specifications.

Installation and Wiring Techniques

Proper installation and wiring techniques are vital to ensure the reliability and safety of terminal block connections. Adhering to best practices minimizes the risk of electrical failures and facilitates maintenance.

Preparing Wires for Terminal Blocks

Before connecting wires to terminal blocks, it is important to strip insulation cleanly without damaging the conductor. The stripped length should match the terminal block's requirements to ensure secure clamping. Using ferrules or wire end sleeves can enhance connection durability and prevent frayed strands.

Securing Wires Correctly

When inserting wires into terminal blocks, they must be fully seated and clamped tightly. For screw terminals, screws should be tightened to the manufacturer's recommended torque to avoid loose connections or conductor damage. For spring clamp terminals, proper insertion ensures the spring mechanism holds the wire firmly.

Labeling and Documentation

Labeling terminal blocks clearly with numbers or function names according to the wiring diagram improves organization and simplifies troubleshooting. Maintaining updated documentation of wiring configurations is essential for future maintenance and modifications.

Common Installation Mistakes to Avoid

- Over-tightening screws, which can damage conductors or terminal blocks.
- Under-tightening screws, leading to loose connections and arcing.
- Incorrect wire stripping length causing poor contact.
- Mixing different wire sizes without proper terminal block rating.
- Skipping labeling, resulting in confusion during maintenance.

Common Applications of Terminal Blocks

Wiring diagram terminal blocks are widely used in various industries and electrical applications due to their versatility and reliability. Their modular design enables easy customization and scalability of electrical systems.

Industrial Control Panels

Terminal blocks are integral components in industrial control panels, where they organize wiring for sensors, actuators, power supplies, and controllers. They allow for efficient wiring layout and quick replacement of components during servicing.

Building Electrical Systems

In commercial and residential buildings, terminal blocks are used for distributing power and signals within lighting systems, HVAC controls, and security systems. Their use ensures neat wiring and straightforward troubleshooting.

Automotive and Transportation

Terminal blocks in automotive wiring harnesses and transportation equipment provide secure and vibration-resistant connections. They help manage complex wiring systems in vehicles, trains, and aircraft.

Renewable Energy Systems

Solar panel arrays, wind turbines, and other renewable energy installations utilize terminal blocks for connecting multiple power sources and managing electrical outputs safely and efficiently.

Safety and Maintenance Considerations

Ensuring safety and performing regular maintenance on wiring diagram terminal blocks are crucial for preventing electrical hazards and prolonging system lifespan.

Safety Precautions

When working with terminal blocks, always de-energize circuits before handling connections. Use insulated tools and verify wire ratings against terminal block specifications to avoid overloads. Proper insulation and enclosure of terminal blocks prevent accidental contact and electrical shorts.

Regular Inspection and Testing

Periodic inspection of terminal blocks includes checking for signs of corrosion, loose connections, and wear. Testing continuity and resistance helps identify potential faults early. Re-tightening screws and cleaning contacts can improve reliability.

Replacement and Upgrading

Terminal blocks that exhibit damage or degradation should be replaced promptly to maintain system integrity. Upgrading to advanced terminal block types, such as those with built-in diagnostics or quick-connect features, can enhance system performance and ease of maintenance.

Frequently Asked Questions

What is a wiring diagram terminal block?

A wiring diagram terminal block is a modular, insulated device that connects two or more wires together in electrical systems, allowing for organized and secure wiring connections depicted in wiring diagrams.

How do terminal blocks help in wiring diagrams?

Terminal blocks simplify wiring diagrams by providing clear connection points for wires, making it easier to understand circuit layouts, troubleshoot issues, and manage wiring organization.

What types of terminal blocks are commonly used in wiring diagrams?

Common types include screw terminal blocks, spring clamp terminal blocks, barrier terminal blocks, and pluggable terminal blocks, each designed for different applications and wiring needs.

How do you read a terminal block in a wiring diagram?

In a wiring diagram, terminal blocks are represented by symbols showing connection points; wire numbers or labels correspond to specific terminals for proper wiring and troubleshooting.

Can terminal blocks handle high voltage wiring?

Yes, terminal blocks are available in various voltage ratings; high-voltage terminal blocks are designed with appropriate insulation and spacing to safely handle higher voltages.

What materials are terminal blocks made of?

Terminal blocks are typically made from insulating materials like polyamide or phenolic resin for the housing and conductive metals like copper or brass for the terminals.

How do you connect wires to a terminal block?

Wires are stripped of insulation, inserted into the terminal block's clamping mechanism (screw, spring, or push-in), and secured to ensure a reliable electrical connection.

Are terminal blocks reusable in wiring diagrams?

Yes, many terminal blocks are reusable; wires can be disconnected and reconnected multiple times without damaging the block, which is useful for maintenance and modifications.

What safety considerations are important when using terminal blocks?

Ensure correct wire size, proper tightening of terminals, use of appropriate insulation, and adherence to voltage and current ratings to prevent electrical hazards.

How do terminal blocks improve maintenance in electrical systems?

Terminal blocks provide organized and accessible connection points, making it easier to isolate circuits, perform testing, and replace components without disturbing the entire wiring system.

Additional Resources

1. *Wiring Diagrams and Terminal Blocks: A Comprehensive Guide*

This book offers an in-depth exploration of wiring diagrams and terminal blocks, focusing on their applications in various electrical systems. It covers the basics of reading and interpreting wiring diagrams, alongside detailed explanations of terminal block types and configurations. Ideal for electricians and engineers, it combines theory with practical examples to enhance understanding.

2. *Electrical Terminal Blocks: Design, Application, and Maintenance*

A practical manual that delves into the design principles and applications of electrical terminal blocks. The book addresses common challenges encountered during installation and maintenance, providing troubleshooting tips and best practices. It is well-suited for professionals involved in electrical panel construction and system integration.

3. *Mastering Wiring Diagrams for Industrial Control Panels*

Focused on industrial control systems, this book explains how to create and interpret wiring diagrams specifically for control panels. It includes chapters dedicated to terminal block selection and wiring methods to ensure safe and efficient electrical connections. Readers will gain valuable skills for designing and maintaining complex industrial wiring setups.

4. *Terminal Blocks in Electrical Engineering: Standards and Practices*

This title emphasizes the standardized practices and regulatory requirements related to terminal blocks in electrical engineering. It discusses international standards, safety codes, and quality assurance procedures that govern terminal block usage. A must-read for engineers and technicians committed to compliance and safety in electrical installations.

5. *Practical Wiring Diagrams for Electronics and Automation*

A hands-on guide that covers wiring diagrams with a focus on electronics and automation systems. It includes detailed examples of terminal block wiring configurations used in automated machinery and control circuits. The book also provides troubleshooting strategies to address common wiring issues encountered in automation projects.

6. *Terminal Block Technology: Innovations and Applications*

This book explores the latest technological advancements in terminal block design and their applications across various industries. It highlights new materials, modular designs, and smart terminal blocks that enhance connectivity and system performance. Suitable for professionals looking to stay updated on modern electrical connection solutions.

7. *The Electrician's Handbook: Wiring Diagrams and Terminal Blocks*

A comprehensive resource tailored for electricians, covering fundamental concepts of wiring diagrams and terminal block installations. It includes step-by-step instructions, wiring tips, and safety guidelines to improve on-the-job efficiency. The handbook serves as both a learning tool and a reference for everyday electrical tasks.

8. *Advanced Wiring Diagrams for Renewable Energy Systems*

This book addresses the unique wiring and terminal block requirements in renewable energy installations such as solar and wind power systems. It provides detailed diagrams and component specifications to ensure reliable connections and system longevity. Engineers and installers will find valuable insights for managing complex renewable energy wiring projects.

9. *Control Panel Wiring and Terminal Blocks: Best Practices*

Dedicated to the wiring of control panels, this title focuses on best practices for terminal block usage to optimize electrical connections. It covers layout planning, labeling, and maintenance techniques designed to reduce errors and improve system reliability. The book is an essential guide for control panel designers and maintenance personnel.

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wiring diagram terminal block: Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator, Repair And Parts Manuals , Over 36,000 total pages Just a SAMPLE of the CONTENTS by File Number and TM Number:: 013511 TM 5-6115-323-24P 4 GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 1.5 K SINGLE PHASE, AC, 120/240 V, 28 VDC (LESS ENGINE) DOD MODELS MEP-015A, 60 HZ (NSN 6115-00-889-1446) AND (DOD MODEL MEP-025A) 28 VDC (6115-00-017-8236) {TO 35C2-3-385-4; SL 4-07609A/07610A} 013519 TM 5-6115-329-25P 1 GENERATOR SET, GASOLINE ENGINE DR (LESS ENGINE) 0.5 KW, AC, 120/240 V, 60 HZ, 1 PHASE (DOD MODEL (FSN 6115-923-4469); 400 HZ (MODEL MEP-019A) (6115-940-7862) AN DC (MODEL MEP-024A) (6115-940-7867) {TO 35C2-3-440-14} 013537 TM 5-6115-457-12 7 GENERATOR SET, ENGINE DRIVEN, TACTICAL, SKID MTD; 100 KW, 3 PHASE, 4 WIRE, 120 240/416 V (DOD MODELS MEP-007A), UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9101), (MODEL MEP-106A) PRECISE CLASS, 50/60 H (6115-00-133-9102), (MODEL MEP-116A) PRECISE CLASS, 400 KW (6115-00-133-9103) INCLUDING OPTIONAL KITS (MODEL MEP-007 AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463-9082), (MEP-007AWE WINTERIZATION KIT, ELECTRIC (6115-00-463-9084), (MODEL MEP-007A DUMMY LOAD KIT (6115-00-463-9086) AND (MODEL MEP-007AWM) WHEEL 013538 TM 5-6115-457-34 12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID 100 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MODELS MEP0 UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9101); (MODEL MEP106A) CLASS, 50/60 HZ (6115-00-133-9102) AND (MODEL MEP116A), PRECISE 400 HZ (6115-00-133-9103); INCLUDING OPTIONAL KITS (DOD MODELS MEP007AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463-9082); MEP007AWE) WINTERIZATION KIT, ELECTRIC (6115-00-463-9084); (MOD MEP007ALM) DUMMY LOAD KIT (6115-00-463-9086) AND (MODEL MEP007A MOUNTING KIT (6 013540 TM 5-6115-458-24P 9 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MTD., 2 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS, DOD MODELS MEP009A UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9104) AND MODEL MEP108A PRECISE CLASS, 50/60 HZ (6115-00-935-8729) INCLUDING OPTIONAL K DOD MODELS MEP009AWF, WINTERIZATION KIT, FUEL BURNING (6115-00-403-3761), MODEL MEP009AWE, WINTERIZATION KIT, ELECTRIC (6115-00-489-7285) 013545 TM 5-6115-465-12 19 GENERATOR DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 30 KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 V (DOD MODEL MEP-005A), UTILITY CLASS, 50/6 (NSN 6115-00-118-1240), (MODEL MEP-104A), PRECISE CLASS, 50/60 (6115-00-118-1247), (MODEL MEP-114A), PRECISE CLASS, 400 HZ (6115-00-118-1248) INCLUDING AUXILIARY EQUIPMENT (DOD MODEL MEP WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083), (MODEL MEP- WINTERIZATION KIT, ELECTRIC (6115-00-463-9085), (MODEL MEP-005A LOAD BANK KIT (6115-00-463-9088) AND (MODEL MEP-005AWM), WH 013547 TM 5-6115-465-34 12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTIC SKID MTD, 30 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MO MEP-005A), UTILITY, 50/60 HZ (NSN 6115-00-118-1240), (MODEL MEP-104A), PRECISE, 50/60 HZ (6115-00-118-1247), (MODEL MEP-114 PRECISE, 50/60 HZ (6115-00-118-1248) INCLUDING OPTIONAL KITS (MODEL MEP-005AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463 (MODEL MEP-005AWE) WINTERIZATION KIT, ELECTRIC (6115-00-463-908 (MODEL MEP-005ALM) LOAD BANK KIT (6115-00-463-9088) (MODEL MEP- WHEEL MOUNTING KIT (6115-00 013548 TM 5-6115-545-12 18 GENERATOR DIESEL ENGINE DRIVEN, TACTICAL SKID MTD., 60 KW, 3 PHASE, 4 WIR 120/208 AND 240/416 VOLTS, DOD MODEL MEP-006A, UTILITY CLASS, 5 (NSN 6115-00-118-1243) DOD MODEL MEP-105A, PRECISE CLASS, 50/60 (6115-00-118-1252) DOD MODEL MEP-115A, PRECISE CLASS, 400 HZ (6115-00-118-1253) INCLUDING OPTIONAL KITS, DOD MODEL MEP006AWF WINTERIZATION KIT, FUEL BURNING (6115-00-407-8314) DOD MODEL MEP006AWE, WINTERIZATION KIT, ELECTRIC (6115-00-455-7693) DOD M MEP006ALM, LOAD BANK KIT (6115-00-407-8322) DOD MODEL MEP006 013550 TM 5-6115-545-34 12 INTERMEDIATE (FIELD) (DIRECT AND GENERAL SUPPORT) AND DEPOT MAINTENANCE MANUAL FOR GENERATOR SET, DIESEL ENGINE DRIVEN, TAC SKID MTD., 60 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416

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TM 5-6115-640-14&P 2 POWER AN/MJQ-32 (NSN 6115-01-280-2300) AN/MJQ-33
(6115-01-280-2301) (MEP-701A 3KW 60 HZ ACOUSTIC SUPPRESSION KIT GENERATOR SETS
M116 2-WHEEL, 2-TIRE, 3/4-TON MODIFIED TRAILERS 066808 TM 5-6115-627-14&P 2 POWER
PLANT AN/MJQ-10A (NSN 6115-00-394-9582); (2) MEP-005A 30 KW 60 HZ GEN SETS; (2) M200A1
2-WHEEL, 4 TIRE MODIFIED TRAILERS 066809 TM 5-6115-630-14&P 4 POWER UNIT, PU-751/M
(NSN 6115-00-033-1373) MEP-002A, 5 KW, 60 HZ GENERATOR SET M116A1 2-WHEEL, 2-TIRE,
MODIFIED TRAILER 066824 TM 5-6115-465-10-HR 1 HAND RECEIPT MANUAL COVERING END
ITEM/COMPONENTS OF END ITEM (C BASIC ISSUE ITEMS, (BII) AND ADDITIONAL
AUTHORIZATION LIST (AAL GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID
MOUNTED, 30K 4 WIRE, 120/208 AND 240/416 VOLTS - MEP-005A, UTILITY, 50/60 HE (NSN
6115-00-118-1240); MEP-104A, PRECISE, 50/60 HERTZ, (6115-00-118-1247): MEP-114A, PRECISE,
400 HERTZ, (6115-00-118- INCLUDING AUXILIARY EQUIPMENT MEP-005AWF WINTERIZATION
KIT, FUE BURNING (6115-00-463-9083); MEP-005AWE, WINTERIZATION KIT, ELEC (6115-00
067310 TM 9-6115-650-14&P 1 POWER PLAN AN/MJQ-25 (NSN 6115-01-153-7742) (2) MEP-112A
10 KW 400 HZ GENE SETS M103A3 2-WHEEL, 2-TIRE, MODIFIED TRAILER 067311 TM
9-6115-653-14&P 2 POWER UNIT PU-732/M (NSN 6115-00-260-3082) MEP-113A 15 KW 400 HZ
GENERATOR SET M200 2-WHEEL, 4-TIRE, MODIFIED TRAILER 067544 TM 9-6115-652-14&P 1
POWER UNIT PU-760/M (NSN 6115-00-394-9581) MEP-114A 30 KW 400 HZ GENERATOR M200A1
2-WHEEL, 4-TIRE, MODIFIED TRAILER 067632 TM 9-6115-648-14&P POWER UNIT PU-650B/G
(NSN 6115-00-258-1622) MEP-006A 60 KW 60 HZ GENERATOR M200A1 2-WHEEL, 4-TIRE,
MODIFIED TRAILER 067744 TM 9-6115-646-14&P 1 POWER UNIT PU-495A/G, (NSN
6115-00-394-9575) AND PU-495B/G, (6115-01-134-0 MEP-007A 100 KW, 60 HZ OR MEP-007B, 100
KW, 60 HZ GENERATOR SET M353-2-WHEEL, 2-TIRE MODIFIED TRAILER 067746 TM
9-6115-651-14&P POWER UNIT 707A/M (NSN 6115-00-394-9573) MEP-115A, 60 KW, 400 HZ
GENERATOR M200A1, 2-WHEEL, 4-TIRE, MODIFIED TRAILER 067879 TM 9-6115-647-14&P 1
POWER UNIT PU-789/M (NSN 6115-01-208-9827) MEP-114A, 30 KW 400 HZ GENERATOR SET
M353 2-WHEEL, 2-TIRE, MODIFIED TRAILER 069601 TM 9-6115-464-10-HR HAND RECEIPT
MANUAL COVERING THE END ITEMS/COMPONENTS OF END IT (COEI), BASIC ISSUE ITEMS
(BII), AND ADDITIONAL AUTHORIZATION L (AAL) FOR GENERATOR SET, DIESEL ENGINE
DRIVEN, TACTICAL SKID MO 15 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS DOD
MODEL MEP UTILITY CLASS, 50/60 HERTZ (NSN 6115-00-118-1241) DOD MODEL MEP PRECISE
CLASS, 50/60 HERTZ (6115-00-118-1245) DOD MODEL MEP-113 PRECISE CLASS, 400 HERTZ
(6115-00-118-1244) 069602 LO 9-6115-464-12 GENERATOR SET, DIESEL ENGINE DRIVEN,
TACTICAL, SKID MTD, 15KW, 4 WIRE, 120/208 AND 240/416 VOLTS (DOD MODEL MEP 004A)
(NSN 6115-00-118-1241); (DOD MODEL MEP 104A) (6115-00-118-1245) (DOD MODEL MEP-113A)
(6115-00-118-1244) 069954 TM 9-6115-465-24P 2 GENERATOR SET, DIESEL ENGINE DRIVE
TACTICAL SKID MTD. 30KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V MODELS; MEP-005A,
UTILITY, 50/60 HZ, (NSN 6115-00-118-1240), MEP-104A PRECISE, 50/60 HZ, (6115-00-118-1247),

MEP-114A, PRECISE, 400 H (6115-00-118-1248), INCLUDING OPTIONAL KITS, DOD MODELS; MEP-00 WINTERIZATION KIT, FUEL BURNING, (6115-00-463-9083), MEP-005-AW WINTERIZATION KIT, ELECTRIC, (6115-00-463-9085), MEP-002-ALM, L BANK KIT, (6115-00-463-9088), MEP-005-AWM, WHEEL MOUNTING KIT, (6115-00-463-9094) {TO-35C2-3-070096 TM 9-6115-464-24P 1 GENERATOR S DIESEL ENGINE DRIVEN, TACTICAL SKID MTD., 15KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 VOLTS (DOD MODEL MEP-004A) UTILITY CLASS 50/60 HERTZ (NSN 6115-00-118-1241) (DOD MODEL MEP-103A) PRECISE CLASS 50/60 HERTZ (6115-00-118-1245) (DOD MODEL MEP-113A) PRECI CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL KITS (DOD MODEL MEP-005-AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463 (DOD MODEL MEP-005-AWE) WINTERIZATION KIT, ELECTRIC (6615-00-46 (DOD MODEL MEP-004-ALM) LOAD BANK KIT (6115-00-191-9201 071025 TM 9-6115-641-10 2 GENERATOR SET SKID MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A (60 HZ) (NSN 6115-01-274-7387) MEP-812A (400 HZ) (6115-01-274-7391) {TO 35C2-3-456-11} 071026 TM 9-6115-642-10 2 GENERATOR SET SKID MOUNTED, TACTICAL QUIE 10 KW, 60 AND 400 HZ MEP-803A (60 HZ) (NSN 6115-01-275-5061) MEP-813A (400 HZ) (6115-01-274-7392) {TO 35C2-3-455-11; TM 09247A/09248A-10/1} 071028 TM 9-6115-643-10 3 GENERATOR SET, SKID MOUNTED, TACTICAL QUI 15 KW, 50/60 AND 400 HZ MEP-804A (50/60 HZ) (NSN 6115-01-274-73 MEP-814A (400 HZ) (6115-01-274-7393) {TO 35C2-3-445-21} 071029 TM 9-6115-644-10 2 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805A (50/60 HZ), (NSN 6115-01-274-7389) MEP-815A (400 HZ), (6115-01-274-7394) {TO 35C2-3-446-11; TM 09249A/09246A-10/1} 071030 TM 9-6115-645-10 2 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806A (50/60 HZ), (NSN 6115-01-274-7390) MEP-816A (400 HZ), (6115-01-274-7395) {TO 35C2-3-444-11; TM 09244A/09245A-10/1} 071031 LO 9-6115-641-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A TACTICAL QUIET 60 HZ (NSN 6115-01-274-7387) MEP-812A TACTICAL QUIET 400 HZ (6115-01-274-7391) 071032 LO 9-6115-642-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 10 KW, 60 AND 400 HZ MEP-803A TACTICAL QUIET 60 HZ (NSN 6115-01-275-5061) MEP-813A TACTICAL QUIET 400 HZ (6115-01-274-7392) 071033 LO 9-6115-643-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 15 KW, 50/60/400 HZ MEP-804A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7388) MEP-814 TACTICAL QUIET 400 HZ (6115-01-274-7393) 071034 LO 9-6115-644-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 40 MEP-805A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7389) MEP-815 TACTICAL QUIET 400 HZ (6115-01-274-7394) {LI 09249A/09246A-12} 071035 LO 9-6115-645-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 40 MEP-806A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7390) MEP-816 TACTICAL QUIET 400 HZ (6115-01-274-7395) {LI 09244A/09245A-12} 071036 TB 9-6115-641-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A AND MEP-812A 071037 TB 9-6115-642-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 10 KW, 60 AND 400 HZ MEP-803A AND MEP-813A {SI 09247A/09248A-24} 071038 TB 9-6115-643-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 15 KW, 50/60 AND 400 HZ MEP-804A AND MEP-814A 071039 TB 9-6115-644-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805A AND MEP-815A {SI 09249A/09246A-24} 071040 TB 9-6115-645-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806A AND MEP-816A {SI 09244A/09245A-24} 071541 TM 9-6115-464-12 2 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 15 KW, 3 PHASE, 4 WIRE, 120/2 AND 240/416 VOLTS DOD MODEL MED-004A UTILITY CLASS 50/60 HERTZ (NSN 6115-00-118-1241) DOD MODEL MEP-103A PRECISE CLASS 50/60 HERTZ (6115-00-118-1245) DOD MODEL MEP-113A PRECISE CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL KITS DOD MODEL MEP-005-AWF WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083) DOD MODEL MEP-005-AWE WINTERIZATION KIT, ELECTRIC (6115-00-463-9085) DOD MODEL MEP-004-ALM LOAD BANK KIT (6115-00-291 071604 TM 9-6115-645-24P GENERATOR SET, TACTICAL QUIET 60KW, 50/60/400

HZ (NSN 6115-01-274-7390) (MEP-806A) (6115-01-274-7395) (MEP-816A) {TO 35C2-3-444-14; TM 09244A/09245A-24P/3} 071605 TM 9-6115-642-24P GENERATOR SET, TACTICAL QUIET 10 KW, 60/400 HZ (NSN 6115-01-275-5061) (MEP-803A) (6115-01-274-7392) (MEP-813A) {TO 35C2-3-455-14; TM 09247A/09248A-24P/3} 071610 TM 9-6115-643-24P GENERATOR SET, TACTICAL QUIET 15KW, 50/60 - 400 HZ (NSN 6115-01-274-7388) (MEP-804A) (6115-01-274-7393) (MEP-814A) {TO 35C2-3-445-24} 071611 TM 9-6115-644-24P GENERATOR SET, TACTICAL QUIET 30KW, 50/60-400 HZ (NSN 6115-01-274-7389) (MEP-805A) (6115-01-274-7394) (MEP-815A) {TO 35C2-3-446-14; TM 09249A/09246A-24P/3} 071613 TM 9-6115-641-24P GENERATOR SET, TACTICAL QUIET 5 KW, 60/400 HZ (NSN 6115-01-274-7387) (MEP-802A) (6115-01-274-7391) (MEP-812A) {TO 35C2-3-456-14} 071713 TM 9-6115-645-24 4 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60KW, 50/60 AND 400 HZ MEP-806A (50/60 HZ) (NSN 6115-01-274-7390) MEP-816A (400 HZ) (6115-01-274-7395) {TO 35C2-3-444-12; TM 09244A/09245A-24/2} 071748 TM 9-6115-644-24 1 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805A (50/60 HZ) (NSN 6115-01-274-7389) MEP-815A (400 HZ) (6115-01-274-7394) {TO 35C2-3-446-12; TM 09249A/09246A-24/2} 071749 TM 9-6115-643-24 4 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 15 KW, 50/60 AND 400 HZ MEP-804A (50/60 HZ) (NSN 6115-01-274-7388) MEP-814A (400 HZ) (6115-01-274-7393) {TO 35C2-3-445-22} 071750 TM 9-6115-642-24 4 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 10 KW, 60 AND 400 HZ MEP-803A (60 HZ) (NSN 6115-01-275-5061) MEP-813A (400 HZ) (6115-01-274-7392) {TO 35C2-3-455-12; TM 09247A/09248A-24/2} 071751 TM 9-6115-641-24 3 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A (60 HZ) (NSN 6115-01-274-7387) MEP-812A (400 HZ) (6115-01-274-7391) {TO 35C2-3-456-12} 072239 TM 9-6115-464-34 1 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD., 15 KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 VOLTS DOD MODEL MEP-004A UTILITY CLASS 50/60 HERTZ (NSN 6115-00-118-1241) DOD MODEL MEP 103A PRECISE CLASS 50/60 HERTZ (6115-00-118-1245) DOD MODEL MEP-113A PRECISE CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL KITS DOD MODEL MEP-005AWF WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083) DOD MODEL MEP-005AWE WINTERIZAT KIT, ELECTRIC (6115-00-463-9085) DOD MODEL MEP-004ALM LOAD BANK KIT (6115-00-291-920 073744 TM 9-6115-604-24P 1 GENERATOR SET, DIESEL ENGINE DRIVEN, AIR TRANSPORTABLE SKID MOUNTED, 750KW, 3 PHASE, 4 WIRE, 2400/4160, AND 2200/3800 VOLTS DOD MODEL MEP208A PRIME UTILITY CLASS 50/60 HERTS (NSN 6115-00-450-5881) DOD MODEL 80-1466 REMOTE CONTROL MODULE CLASS (6115-01-150-5284 DOD MODEL 80-7320 SITE REQUIREMENTS MODULE CLASS (6115-01-150-5 {NAVFAC P-8-633-24P} 074040 TM 9-6115-545-24P GENERATOR SET, DIESEL ENGINE DRIVEN, TAC SKID MTD., 60 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS, D MODELS MEP-006A, UTILITY CLASS, 50/60 H/Z, (NSN 6115-00-118-124 MEP-105A, PRECISE CLASS, 50/60 H/Z, (6115-00-118-1252), MEP-115 PRECISE CLASS, 400 H/Z (6115-00-118-1253); INCLUDING OPTIONAL K DOD MODELS MEP-006AWF, WINTERIZATION FUEL BURNING, (6115-00-407 MEP-006AWE, WINTERIZATION KIT, ELECTRIC, (6115-00-455-7693), ME LOAD BANK KIT, (6115-00-407-8322), AND MEP-006AWM, WHEEL MOUNTI (6115-00-463-9092) {TO 074212 TM 9-6115-604-12 GENERATOR SET, DIESEL DRIVEN, AIR TRANSPORTABLE SKID MTD., 750 KW, 3 PHASE, 4 WIRE, 24 AND 2200/3800 V (DOD MODEL MEP 208A) CLASS PRIME UTILITY, HZ 50 (NSN 6115-00-450-5881) {NAVFAC P-8-633-12} 074896 TM 9-6115-604-34 GENERATOR SET, DIESEL ENGINE DRIVEN, AIR TRANSPORTABLE SKID MTD., 750 KW, 3 PHASE, 4 WIRE, 2400/4160 AND 2200/3800 VOLTS DOD MODEL MEP 208A PRIME UTILITY CLASS 50/60 HERTZ (NSN 6115-00-450-5881) {NAVFAC P-8-633-34} 075027 TM 9-6115-584-24P 1 GENERATOR SET, DIESEL E DRIVEN, TACTICAL SKID MTD 5 KW, 1 PHASE -2 WIRE, 1 PHASE -3 WIR 3 PHASE -4 WIRE, 120, 120/240 AND 120/208 VOLTS (DOD MODEL MEP- UTILITY CLASS, 60 HZ (NSN 6115-00-465-1044) {NAVFAC P-8-622-24P TO 35C2-3-456-4} 077581 TM 9-6115-673-13&P 2KW MILITARY TACTICAL GENERATOR SET 120 VAC, 60 HZ (NSN 6115-01-435-1565) (MEP-531A) (EIC: LKA) (NSN 6115-21-912-0393) (MECHRON) 28 VDC (NSN 6115-01-435-1567) (MEP-501A)

(EIC: LKD) (NSN 6115-21-912-0392) (MECHRON) 078167 TM 9-6115-672-14 GENERATOR SET SKID MOUNTED TACTICAL QUIET 60KW, 50/60 AND 400 HZ, MEP-806B (50/60 HZ) (NSN 6115-01-462-0291) EIC: GGW, MEP-816B (400 HZ) (NSN 6115-01-462-0292) EIC: GGX 078443 TM 9-6115-639-13 1 3KW TACTICAL QUIET GENERATOR SET MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6) MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) 078490 TM 9-6115-671-14 OPERATOR, UNIT, GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ, MEP-805B (50/60 HZ) (NSN 6115-01-461-9335) (EIC: GGU) MEP-815B (400 HZ) (6115-01-462-0290) (EIC: GGV) 078503 TM 9-6115-671-24P GENERATOR SET SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805B (50/60 HZ) (NSN 6115-01-461-9335) (EIC: GGU) MEP-815B (400 HZ) (NSN 6115-01-462-0290) (EIC: GGV) 078504 TM 9-6115-672-24P GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806B (50/60 HZ) (NSN 6115-01-462-0291) (EIC: GGW) MEP-816B (400 HZ) (NSN 6115-01-462-0292) (EIC: GGX) 078505 TB 9-6115-671-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30KW, 50/60 AND 400 HZ MEP-805B AND MEP-815B PROCURED UNDER CONTRACT DAAK01-96-D-00620WITH MCII INC 078506 TB 9-6115-672-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30KW, 50/60 AND 400 HZ MEP-806B AND MEP-816B PROCURED UNDER CONTRACT DAAK01-96-D-00620WITH MCII INC 078523 TM 9-6115-664-13&P 5KW, 28VDC, AUXILIARY POWER UNIT (APU) MEP 952B NSN 6115-01-452-6513 (EIC: N/A) 078878 TM 9-6115-639-23P 3KW TACTICAL QUIET GENERATOR SET MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6) MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) 079379 TB 9-6115-641-13 WINTERIZATION KIT (NSN 6115-01-476-8973) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 5KW, 60 AND 400 HZ MEP-802A (600HZ) (6115-01-274-7387) MEP-812A (400HZ) (6115-01-274-7391) 079460 TB 9-6115-642-13 WINTERIZATION KIT (NSN 6115-01-477-0564) (EIC: N/A) INSTALLED ON GENERATOR KIT, SKID MOUNTED, TACTICAL QUIET, 10KW, 60 AND 400 HZ MEP-803A (60HZ) (6115-01-275-0561) MEP-813A (400HZ) (6115-01-274-7392) 079461 TB 9-6115-643-13 WINTERIZATION KIT (NSN 6115-477-0566) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 15KW, 50/60 AND 400 HZ, MEP-804A (50/60HZ) (6115-01-274-7388) MEP-814A (400HZ) (6115-01-274-7393) 079462 TB 9-6115-644-13 WINTERIZATION KIT (NSN 6115-01-474-8354) (EIC:N/A) INSTALLED ON GENERATOR SET, SKID MOUNTED, 30KW, 50/60 AND 400 HZ MEP-805A (50/60HZ) (NSN 6115-01-274-7389) MEP-815A (400HZ) (NSN 611501-274-7394) 079463 TB 9-6115-645-13 WINTERIZATION KIT (NSN 6115-01-474-8344) (EIC: N/A) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 60KW, 50/60 AND 400 HZ, MEP-806A (50/60HZ) (6115-01-274-7390) MEP-816A (400HZ) (6115-01-274-7395) 080214 TM 9-6115-670-14&P AUXILIARY POWER UNIT, 20KW, 120/240 VAC, 60 HZ, MODEL NO. MEP-903A(SICPS) NSN 6115-01-431-3062 MODEL NUMBER MEP-903B (JTACS) NSN 6115-01-431-3063 MODEL NO MEP-903C9WIN-T) NSN 6115-01-458-5329 (EIC: N/A)

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