

a c wiring diagram

A Comprehensive Guide to Understanding a C Wiring Diagram

a c wiring diagram is a fundamental tool for anyone looking to troubleshoot, repair, or install an air conditioning system. Whether you're a DIY enthusiast or a professional technician, understanding the wiring schematic of an air conditioner can save you time, prevent costly mistakes, and ensure your system runs efficiently. This article delves deep into the components, symbols, and practical tips for reading and using an air conditioner wiring diagram effectively.

What Is an A C Wiring Diagram?

At its core, an a c wiring diagram is a detailed illustration showing the electrical connections and components within an air conditioning unit. Unlike a simple circuit diagram, it typically displays the relationships between various parts such as the compressor, condenser fan, thermostat, capacitors, and control board, along with their wiring paths. This schematic helps in visualizing how electricity flows through the system, making it easier to identify faults or understand installation requirements.

Why Is a Wiring Diagram Important?

Without a wiring diagram, diagnosing an issue with an air conditioner can be like finding a needle in a haystack. The diagram acts as a roadmap, guiding you through the complex network of wires and components. It also ensures that you connect the system correctly during installation, preventing potential damage or hazards like short circuits or electrical fires.

Key Components in an A C Wiring Diagram

To read and interpret an a c wiring diagram confidently, you need to familiarize yourself with the common components found in most air conditioning units. Here are some of the essential parts you'll encounter:

- **Thermostat:** The control device that regulates the temperature by signaling the air conditioner to turn on or off.
- **Compressor:** Often called the heart of the system, it compresses refrigerant and circulates it through the coils.
- **Condenser Fan:** Helps dissipate heat from the refrigerant by blowing air over the condenser coils.

- **Capacitor:** Stores electrical energy and provides a necessary boost to start the compressor and fan motors.
- **Contactor:** Acts like a relay switch, allowing high voltage to reach the compressor and fan when the thermostat calls for cooling.
- **Transformer:** Steps down the voltage from 240V to 24V, which is used for the control circuit.

Understanding these elements and their symbols on the diagram is crucial to making sense of the wiring layout.

How to Read an A C Wiring Diagram

Reading an air conditioner wiring diagram might seem intimidating at first, but breaking it down step-by-step can make the process manageable.

1. Identify the Power Supply Lines

Start by locating the main power source, usually indicated as L1 and L2 or Line and Neutral. These lines supply electricity to the entire system. In many residential units, this is typically a 240-volt supply.

2. Trace the Control Circuit

Next, look for the low-voltage control circuit, often operating at 24 volts. This circuit includes the thermostat wiring, transformer, contactor coil, and sometimes safety switches. Recognizing this part of the diagram helps to understand how the system is turned on and off.

3. Follow the Load Wiring

The load wiring connects to the major components like the compressor, fan motor, and sometimes auxiliary heat elements. These are usually represented with their respective terminals and connected through the contactor.

4. Examine Symbols and Color Codes

Most diagrams use standardized symbols for components—such as rectangles for

capacitors or coils for transformers—and color-coded wires. Common wire colors include:

- **Red (R):** 24V power from the transformer
- **White (W):** Heat signal
- **Yellow (Y):** Cooling signal to the compressor
- **Green (G):** Fan control
- **Blue or Common (C):** Common wire completing the circuit

Paying attention to these colors ensures you connect the wires correctly during installation or repairs.

Common Types of A C Wiring Diagrams

There are several variations of wiring diagrams depending on the air conditioning system's complexity and type.

1. Split System Wiring Diagram

The most common residential setup involves an outdoor unit (compressor and condenser) and an indoor unit (evaporator coil and blower). The wiring diagram shows how these two units communicate via low-voltage control wires and their respective power connections.

2. Packaged Unit Wiring Diagram

In packaged systems, all components are housed in a single outdoor unit. The wiring diagram for these setups is generally more compact but follows similar principles, showing power lines, control circuits, and component connections.

3. Heat Pump Wiring Diagram

Heat pumps provide both heating and cooling by reversing refrigerant flow. Their wiring diagrams include additional components like reversing valves and auxiliary heat elements, making it essential to understand their specific wiring for proper troubleshooting.

Tips for Working with a C Wiring Diagrams

Handling wiring diagrams safely and efficiently requires some practical knowledge and precautions.

- **Always Disconnect Power:** Before working on any air conditioning system, ensure the power is off to avoid electrical shocks.
- **Use a Multimeter:** Verify voltage and continuity in wires according to the diagram to pinpoint issues.
- **Label Wires:** When removing or replacing wires, label them or take photos to keep track of their original connections.
- **Consult Manufacturer Manuals:** Different brands and models can have unique wiring setups; always refer to the specific wiring diagram for your unit.
- **Understand Safety Features:** Modern units include safety switches and sensors that are part of the wiring. Knowing their function helps in diagnosing system faults.

How the “C” Wire Plays a Role in A C Wiring Diagrams

A common point of confusion in HVAC wiring involves the “C” wire, often referred to as the common wire. This wire provides a continuous 24-volt power source to the thermostat, enabling it to power smart features or Wi-Fi connectivity without draining batteries.

In older systems, the “C” wire might be absent, leading to thermostat malfunctions or the need for workarounds like power extenders. When inspecting an a c wiring diagram, identifying the “C” wire and ensuring it is properly connected can resolve many thermostat issues.

Understanding Wiring Colors and Their Functions

Beyond just the “C” wire, the color coding in an a c wiring diagram acts as a universal language for HVAC technicians. Each color corresponds to a specific function:

- **Red (R):** Power from the transformer
- **White (W):** Heat call

- **Yellow (Y):** Cooling call
- **Green (G):** Fan control
- **Blue or Black (C):** Common wire

Understanding these colors ensures correct wiring, preventing damage to the thermostat or other components.

Common Troubleshooting Scenarios Using A C Wiring Diagram

If your air conditioner isn't functioning properly, a wiring diagram can be an invaluable tool to diagnose the issue. Here are a few common problems and how a wiring diagram assists in resolving them:

1. **Thermostat Not Powering On:** Check the "C" wire connection and transformer output to ensure the thermostat receives power.
2. **Compressor Not Starting:** Trace the contactor coil and capacitor wiring to verify if the compressor is getting power and the capacitor is functioning.
3. **Fan Runs but No Cooling:** Use the diagram to check if the compressor relay is energized and if the thermostat's cooling signal wire is intact.
4. **Frequent System Short Cycling:** Inspect all control circuit wiring for loose connections or damaged wires that might cause interruptions.

Following the wiring paths outlined in the diagram can help pinpoint electrical faults that might otherwise be difficult to locate.

Final Thoughts on Using A C Wiring Diagram

Mastering how to read and interpret an a c wiring diagram is a valuable skill for anyone interested in HVAC systems. It not only improves your ability to troubleshoot and repair but also enhances your understanding of how air conditioning units function on an electrical level. Whether you're installing a new system or diagnosing an existing one, the wiring diagram is your go-to guide for navigating the complex web of wires and components safely and effectively. With practice, patience, and attention to detail, you'll find these diagrams to be an indispensable part of maintaining cool comfort in your home or workplace.

Frequently Asked Questions

What is an A/C wiring diagram?

An A/C wiring diagram is a schematic representation that shows the electrical connections and components within an air conditioning system, helping technicians understand how to wire and troubleshoot the unit.

Why is understanding an A/C wiring diagram important for repairs?

Understanding an A/C wiring diagram is crucial for accurately diagnosing electrical issues, ensuring correct installation, and safely repairing the air conditioning system without causing damage or hazards.

What are the common components shown in an A/C wiring diagram?

Common components include the thermostat, compressor, condenser fan motor, contactor, capacitor, transformer, and various sensors and safety switches.

How can I read an A/C wiring diagram effectively?

To read an A/C wiring diagram effectively, start by identifying the power source, follow the flow of electricity through components, note wire colors and terminal labels, and understand symbols used to represent different parts.

Are A/C wiring diagrams standardized across different brands?

While many basic symbols and wiring principles are standardized, wiring diagrams can vary between brands and models, so it's important to refer to the specific diagram for the unit you are working on.

Where can I find A/C wiring diagrams for my HVAC system?

A/C wiring diagrams can often be found in the unit's service manual, on the inside panel of the air handler or condenser, or on the manufacturer's website.

What safety precautions should I take when using an A/C wiring diagram?

Always ensure the power is turned off before working on the system, use a multimeter to verify no voltage is present, follow the diagram carefully, and wear appropriate personal protective equipment.

Can an A/C wiring diagram help in upgrading my air conditioning system?

Yes, an A/C wiring diagram can guide you in understanding existing wiring configurations, helping you to correctly integrate new components or upgrade your system without electrical conflicts.

How do capacitors appear on an A/C wiring diagram and what is their function?

Capacitors are usually represented by two parallel lines or a symbol indicating polarity, and they function to start and run the compressor and fan motors by providing a phase shift in the electrical current.

Additional Resources

A C Wiring Diagram: An In-Depth Exploration of HVAC Electrical Schematics

a c wiring diagram serves as an essential blueprint for understanding the intricate electrical connections within air conditioning systems. Whether you're a professional HVAC technician, an electrician, or a homeowner seeking to troubleshoot or install an air conditioner, grasping the nuances of these diagrams is crucial. This article delves deeply into the components, interpretation, and practical applications of A C wiring diagrams, aligning technical accuracy with accessibility.

Understanding the Fundamentals of A C Wiring Diagrams

At its core, an A C wiring diagram is a schematic representation outlining the electrical pathways and connections among various components in an air conditioning system. Unlike simple wiring schematics, these diagrams provide a comprehensive overview of how power flows, how control circuits function, and how safety mechanisms integrate to ensure efficient operation.

Typically, the diagram showcases essential components such as the thermostat, compressor, condenser fan, contactor, capacitor, and transformer. Each element is represented by standardized symbols and connected with lines signifying wiring paths. The wiring colors, terminal labels, and voltage specifications are often included to aid correct installation and troubleshooting.

Key Components Depicted in A C Wiring Diagrams

Understanding the most common elements in an A C wiring diagram helps demystify the system's operation:

- **Thermostat:** Acts as the user interface and primary control device, signaling the A C when to turn on or off.
- **Compressor:** The heart of the refrigeration cycle, compressing refrigerant to facilitate cooling.
- **Condenser Fan:** Circulates air over the condenser coil, dissipating heat extracted from indoors.
- **Contactors:** An electrically controlled switch enabling high-voltage power to the compressor and fan when activated.
- **Capacitor:** Provides the necessary starting torque and operational support to motors.
- **Transformer:** Steps down the voltage to a safer level for control circuits.

Each of these components is interconnected, and their relationships are critical for the system's function.

Decoding the Wiring Color Codes and Labels

One of the challenges in interpreting an A C wiring diagram lies in understanding the color coding conventions used in wiring. Although standards may vary slightly between manufacturers or regions, some universal guidelines apply in most residential and commercial HVAC systems.

Common Wiring Colors and Their Functions

- **Red (R):** Typically the 24V hot wire supplying power from the transformer.
- **White (W):** Controls the heating function, often connected to the furnace or heat strip.
- **Yellow (Y):** Activates the compressor and cooling cycle.
- **Green (G):** Controls the blower fan motor.
- **Blue or Common (C):** Serves as the common wire completing the 24V circuit.

The presence of a "C" wire or common wire is particularly important in modern smart

thermostats requiring continuous power. Without this wire, the thermostat may rely on power stealing techniques, which can be less reliable.

The Role of the “C” Wire in A C Systems

The “C” wire often emerges as a focal point in discussions about A C wiring diagrams, especially given the increasing adoption of smart thermostats and advanced control systems. Its primary function is to provide a return path for the 24V power supplied by the R wire, enabling continuous power flow without interrupting the control signals.

Why Is the “C” Wire Important?

Smart thermostats, Wi-Fi-enabled devices, and other modern HVAC controllers require a stable power source. Traditional thermostats could operate on batteries or by drawing power intermittently from the heating or cooling circuits. However, as functionality has evolved, a dedicated “C” wire has become essential to avoid issues like screen dimming, intermittent operation, or frequent battery replacements.

Many older homes lack a dedicated “C” wire, which can complicate thermostat upgrades. In these cases, technicians often refer back to the A C wiring diagram to identify if a common wire is present or if additional wiring or adapters are necessary.

Practical Applications of A C Wiring Diagrams

A C wiring diagrams are indispensable tools in various real-world scenarios:

Installation and Setup

When installing a new air conditioning unit or replacing components, technicians rely heavily on wiring diagrams to ensure accurate connections. Miswiring can lead to system failures, electrical hazards, or inefficient operation. Diagrams provide the roadmap for safe and compliant installations.

Troubleshooting and Repair

Diagnosing electrical issues in an HVAC system requires understanding how the circuits are designed to function. For example, if a compressor fails to start, the wiring diagram helps trace the circuit from the thermostat through the contactor and capacitor to the compressor motor. By methodically checking each segment, technicians can pinpoint faulty components or wiring errors.

Upgrading Thermostats and Controls

As previously mentioned, upgrading to smart thermostats often necessitates verifying the presence and condition of the “C” wire. The wiring diagram assists in confirming compatibility and planning necessary wiring modifications.

Comparing A C Wiring Diagrams Across Different Systems

Not all A C wiring diagrams are created equal. Variations exist based on system type, manufacturer, and complexity.

- **Split Systems vs. Packaged Units:** Split systems typically have more complex wiring, with separate indoor and outdoor units connected by low-voltage control wiring. Packaged units, which house all components in a single cabinet, may have simpler diagrams.
- **Single-Stage vs. Multi-Stage Systems:** Multi-stage A C systems include additional wiring for multiple compressor stages or variable-speed fans, reflected in more elaborate diagrams.
- **Heat Pumps:** Heat pump wiring diagrams differ by including reversing valves and auxiliary heat controls, necessitating additional wiring paths.

Understanding these distinctions helps professionals select the correct diagram for their specific system, avoiding errors.

Interpreting Symbols and Notations in Wiring Diagrams

For those less familiar with electrical schematics, reading an A C wiring diagram might seem daunting. However, a few basic conventions can simplify interpretation:

- **Lines:** Represent wires or electrical conductors connecting components.
- **Dots or Junctions:** Indicate that wires are electrically connected at that point.
- **Crossed Lines without a Dot:** Show wires crossing without electrical connection.
- **Rectangles and Circles:** Often used to depict relays, capacitors, or motors.

- **Terminal Labels:** Letters such as R, Y, G, W, and C correspond to specific wires or terminals.

Manufacturers typically include a legend or key on wiring diagrams to clarify symbols, which is invaluable during installation or troubleshooting.

Common Challenges and Pitfalls with A C Wiring Diagrams

Despite their utility, wiring diagrams can present challenges:

- **Variations in Standards:** Not all diagrams follow the same conventions, which can confuse even experienced technicians.
- **Outdated or Incomplete Documentation:** Older units may lack comprehensive diagrams, requiring technicians to rely on experience or manufacturer support.
- **Color Code Differences:** Wire colors may not always match standard expectations, especially if previous repairs or modifications were made.
- **Misinterpretation of Symbols:** Incorrectly identifying symbols or wiring paths can lead to dangerous wiring errors.

Careful attention to detail and cross-referencing with manufacturer manuals are critical to mitigate these risks.

Best Practices for Working with A C Wiring Diagrams

- Always verify the diagram corresponds to the exact model and serial number of the system.
- Use a multimeter to confirm voltage and continuity before making changes.
- Label wires during disassembly to ensure correct reassembly.
- Consult manufacturer technical support when in doubt.
- Keep updated copies of wiring diagrams accessible during maintenance.

These practices enhance safety and efficiency during HVAC electrical work.

In the evolving landscape of HVAC technology, the A C wiring diagram remains a foundational tool bridging theoretical knowledge and practical application. As systems grow more sophisticated with smart controls and energy-saving features, mastery of these diagrams ensures professionals and homeowners alike can navigate installation, maintenance, and upgrades with confidence and precision.

[A C Wiring Diagram](#)

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operad theory to wiring diagrams and related structures, including finite presentations for the propagator algebra, the algebra of discrete systems, the algebra of open dynamical systems, and the relational algebra. A partial verification of David Spivak's conjecture regarding the quotient-freeness of the relational algebra is also provided. In the final part, the author constructs operad maps between the various operads of wiring diagrams and identifies their images. Assuming only basic knowledge of algebra, combinatorics, and set theory, this book is aimed at advanced undergraduate and graduate students as well as researchers working in operad theory and its applications. Numerous illustrations, examples, and practice exercises are included, making this a self-contained volume suitable for self-study.

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a c wiring diagram: *Transmission and Distribution Electrical Engineering* Colin Bayliss, Brian Hardy, 2006-12-18 Dramatic power outages in North America, and the threat of a similar crisis in Europe, have made the planning and maintenance of the electrical power grid a newsworthy topic. Most books on transmission and distribution electrical engineering are student texts that focus on theory, brief overviews, or specialized monographs. Colin Bayliss and Brian Hardy have produced a unique and comprehensive handbook aimed squarely at the engineers and planners involved in all aspects of getting electricity from the power plant to the user via the power grid. The resulting book is an essential read, and a hard-working reference for all engineers, technicians, managers and planners involved in electricity utilities, and related areas such as generation, and industrial electricity usage.* An essential read and hard*working ref

a c wiring diagram: **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

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120/240 V, SINGLE PHASE, V, 3 PHASE, SKID MOUNTED, TUBULAR FRAME (LESS ENGINE) (MILITARY DOD MODEL MEP-017A), UTILITY, 60 HZ (NSN 6115-00-017-8240) AND MODEL MEP-022A), UTILITY, 400 HZ (6115-00-017-8241) {NAVFAC P-8-614-14; TO 35C2-3-424-1} 033750 TM 5-6115-585-34 9 GENERATOR SET, DIESEL ENGINE DRIVEN, TAC SKID MOUNTED, 10 KW, 1 PHASE, 2 WIRE, 1 PHASE, 3 WIRE, 3 PHASE, 4 WIRE, 120, 120/240 AND 120/208 VOLTS (DOD MODEL MEP-003A), UT CLASS, 60 HZ (NSN 6115-00-465-1030) {NAVFAC P-8-623-12; TO 35C2-3-455-2; TM-05684C/05685B-34} 034072 TM 5-6115-585-24P 5 GENERATOR SET, DIESEL ENGINE DRIVEN, TA SKID MTD, 10 KW, 1 PHASE, 2 WIRE; 1 PHASE, 3 WIRE; 3 PHASE, 4 W 120, 120/240 AND 120/208 V (DOD MODELS 003A), UTILITY CLASS, 60 (NSN 6115-00-465-1030) AND (MODEL MEP-112A), UTILITY CLASS, 400 (6115-00-465-1027) {NAVFAC P-8-623-24P; TO 35C2-3-455-4; SL-4-05684C/06585B} 040180 TM 5-6115-584-12-HR 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 MTD, 5 KW, 1 WIRE; 1 PH, 3 WIRE; 3 PH, 4 WIRE, 120, 120/240 AND 120/208 V (D MEP-002A) UTILITY CLASS, 60 HZ (NSN 6115-00-465-1044) 040833 TM 5-6115-458-12-HR HAND RECEIPT MANUAL COVERING THE END ITEM/COMPONENTS OF END ITE BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AA GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MOUNTED, 20 3 PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MODEL MEP-009A), UT CLASS, 50/60 HZ (NSN 6115-00-133-9104) AND (DOD MODEL MEP-108A) PRECISE CLASS, 50/60 HZ (6115-00-935-8729) 040843 TM 5-6115-593-34 GENERATOR SET, DIESEL ENGINE DRIVEN, TAC SKID MTD, 500 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS DOD MODEL, MEP-029A, CLASS UTILITY, 50/60 HZ, (NSN 6115-01-030- DOD MODEL, MEP-029B, CLASS UTILITY, 50/60 HZ, (6115-01-318-6302 INCLUDING OPTIONAL KITS DOD MODEL, MEP-029AHK, HOUSING KIT, (6115-01-070-7550), DOD MODEL, MEP-029ACM, AUTOMATIC CONTROL MO (6115-01-275-7912) DOD MODEL, MEP-029ARC, REMOTE CONTROL MODULE (6110-01-070-7553) DOD MODEL, MEP-029ACC, REMOTE CONTROL CABLE, (6110-01-087-4127) {NAVFAC P-8 041070 TM 5-6115-593-12 GENERATOR SET, ENGINE DRIVEN, TACTICAL SKID MTD, 500 KW, 3 PHASE, 4 WIRE; 120/ 240/416 VOLTS DOD MODEL MEP-029A; CLASS UTILITY, HERTZ 50/60; (NSN 6115-01-030-6085); MEP-029B; UTILITY; 50/60; (6115-01-318- INCLUDING OPTIONAL KTS DOD MODELS MEP-029AHK; NOMENCLATURE HOUS (6115-01-070-7550) MEP-029ACM; AUTOMATIC CONTROL MODULE; (6115-01-275-7912); MEP-029ARC, REMOTE CONTROL MODULE, (6110-01-070-7553); MEP-029ACC, REMOTE CONTROL CABLE (6110-01-087-4127) {TO 35C2-3-463-1} 041338 LO 55-1730-229-12 POWER UNIT, AVIATION, MULTI-OUTPUT GTED ELECTRICAL, HYDRAULIC, PNEUMATIC (AGPU), WHEEL MOUNTED, SELF-PROPELLED, TOWABLE DOD MODEL-MEP-360A, CLASS-PRECISE, HERTZ-400, (NSN 1730-01-144-1897 042791 TM 5-6115-457-12-HR HAND RECEIPT MANUAL COVERING THE BASIC ISSUE ITEMS (BII) FOR GE SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MTD; 100 KW, 3 PHASE, 120/208 AND 240/416 V (DOD MODELS MEP007A), UTILITY CLASS, 50/6 (NSN 6115-00-133-9101), (MODEL MEP-106A), PRECISE CLASS, 50/60 (6115-00-133-9102) AND (MODEL MEP116A) PRECISE CLASS, 400 HZ (6115-00-133-9103) 043437 TM 5-6115-593-24P 1 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MOUNTED, 500 KW, 3 PHA 4 WIRE; 120/208 AND 240/416 VOLTS DOD MODEL MEP-029A UTILITY CL 50/60 HZ (NSN 6115-01-030-6085) MEP-029B UTILITY CLASS, 50/60 (6115-01-318-6302) INCLUDING OPTIONAL KITS DOD MODEL MEP-029AHK HOUSING KIT (6115-01-070-7550) MEP-029ACM AUTOMATIC CONTROL MOD (6115-01-275-7912) MEP-029ARC REMOTE CONTROL MODULE (6110-01-070-7553) MEP-029ACC REMOTE CONTROL CABLE (6110-01-087 {NAVFAC P-8-631-24P; TO 35C2-3-463-4} 044703 TM 5-6115-545-12-HR HAND RECEIPT MANUAL COVERING COMPONENTS OF END ITEM (COEI), BAS ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL) FOR GENERA DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 60 KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 V (DOD MODELS MEP-006A) UTILITY CLASS, 50/6 (NSN 6115-00-118-1243), (MODEL MEP-105A) PRECISE CLASS, 50/60 H (6115-00-118-1252) AND (MODEL MEP-115A)

PRECISE CLASS, 400 HZ (6115-00-118-1253) 050998 TM 5-6115-600-12 8 GENERATOR DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 100 KW, 3 PHASE, 4 WIR 120/208 AND 240/416 V (DOD MODEL MEP-007B) CLASS UTILITY, 50/60 (NSN 6115-01-036-6374) INCLUDING OPTIONAL KITS, DOD MODEL MEP00 WINTERIZATION KIT, FUEL BURNING AND MEP007BWE WINTERIZATION KIT ELECTRIC 051007 TM 5-6115-600-24P 4 GENERATOR SET, DIESEL ENGINE DRIVEN, 100 KW, 3 PHASE, 4 WIRE, 120/208 AND VOLTS (DOD MODEL MEP-007B), UTILITY CLASS, 50/60 HZ (NSN 6115-01-036-6374) INCLUDING OPTIONAL KITS, DOD MODEL MEP007BWF, WINTERIZATION KIT, FUEL BURNING AND MEP007BWE WINTERIZATION KIT, ELECTRIC {TO 35C2-3-442-14; NAVFAC P-8-628-24P; SL-4-07464B} 057268 LO 5-6115-600-12 GENERATOR SET, DIESEL ENGINE DRIVEN; TACTICAL, SKID MTD, 100 KW PHASE, 4 WIRE; 120/208 AND 240/416 V (DOD MODEL MEP007B), CLASS UTILITY, 50/60 HZ (NSN 6115-01-036-6374) 057513 LO 5-6115-604-12 GENERATOR SET, DIESEL ENGINE DRIVEN, AIR TRANSPORTABLE; SKID MT 750 KW, 3 PHASE, 4 WIRE; 2400/4160 AND 2200/3800 VOLTS (DOD MOD MEP208A) CLASS PRIME UTILITY, HZ 50/60 (NSN 6115-00-450-5881) {LI 6115-12/9} 060183 TM 5-6115-612-24P 6 GENERATOR SET, AVIATION, GAS TURBINE ENGINE DRIVEN, INTEGRA TRAILER MOUNTED, 10KW, 28 VOLTS MODEL MEP-362A, PRECISE, DC (NSN 6115-01-161-3992) {TM 6115-24P/1; AG-320B0-IPE-000; TO 35C2-3-471-4} 060188 TM 5-6115-612-34 4 GENERATOR SET, AVIATION, GAS TURBINE ENG DRIVEN, INTEGRAL TRAILER MOUNTED 10KW 28 VOLTS DOD MODEL MEP 36 PRECISE, DC, (NSN 6115-01-161-3992) {AG-320BO-MME-000; TM 6115- TO 35C2-3-471-2} 060645 LO 5-6115-612-12 AVIATION GENERATOR SET, GAS TURBINE, ENGINE DRIVEN, INTEGRAL TR MOUNTED, 10KW, 28 VOLTS DC DOD MODEL MEP 362A CLASS PRECISE (NSN 6115-01-161-3992) 060921 TM 55-1730-229-34 5 POWER UNIT, AVIATION, MULTI-OUTPUT GTED, ELECTRICAL, HYDRAULIC, PNEUMATIC (AGPU) WHEEL MOUNTED, SELF-PROPELLED, TOWA AC 400HZ, 3PH, 0.8 PF, 115/200V, 30 KW, DC 28VDC 700 AMPS, PNEUMATIC, 60 LBS/MIN. AT 40 PSIG, HYDRAULIC, 15 GPM AT 3300 PS DOD MODEL MEP-360A, CLASS PRECISE, 400 HERTZ, (NSN 1730-01-144- {AG 320A0-MME-000; TO 35C2-3-473-2; TM 1730-34/1} 060922 TM 55-1730-229-12 8 POWER UNIT, AVIATION, MULTI-OUTPUT GTED ELECTRICAL, HYDRAULIC, PNEUMATIC (AGPU) WHEEL MOUNTED, SELF-PROPELLED, TOWABLE, AC 400HZ, 3PH, 0.8 PF, 115/200V, 30 KW, DC 28 VDC 700 AMPS, PNEUMATIC 60 LBS/M AT 40 PSIG, HYDRAULIC 15 GPM AT 3300 PSIG, DOD MODEL MEP-360A, CLASS PRECISE, HERTZ 400, (NSN 1730-01-144-1897) {AG 320A0-OMM-000; TO 35C2-3-473-1; TM 1730-12/1} 061758 LO 5-6115-614-12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD. 200 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS MODEL MEP009B, UTILI 50/60 HERTZ, (NSN 6115-01-021-4096) 061772 LO 5-6115-622-12 GENERATOR SET, DIESEL ENGINE-DRIVEN, WHEEL MOUNTED 750-KW, 3-PH 4-WIRE, 2200/3800 AND 2400/4160 VOLTS CUMMINS ENGINE COMPANY IN MODEL KTA-2300G-2 DOD MODEL MEP-012A; CLASS UTILITY; HERTZ 062762 LO 5-6115-615-12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MOUNTED, 3 K MODEL 016B; CLASS UTILITY MODE 50/60 HZ (NSN 6115-01-150-4140); DOD MODEL MEP-021B; CLASS UTILITY; MODE 400 HZ (6115-01-151-812 DOD MODEL MEP-026B; CLASS UTILITY; MODE 28 VDC (6115-01-150-036 {LI 05926B/06509B-12/5; P-8-646-LO} 064310 TM 5-6115-626-14&P 2 POWER UNIT PU-406B/M (NSN 6115-00-394-9576) MEP-005A 30 KW 60 HZ GENERATOR SET M200A1 2-WHEEL4-TIRE, MODIFIED TRAILER 064390 TM 5-6115-632-14&P 5 POWER UNIT PU-753/M (NSN 6115-00-033-1 MEP-003A 10 KW 60 HZ GENERATOR SET M116A2 2-WHEEL, 2-TIRE, MODI TRAILER 064392 TM 5-6115-629-14&P 3 POWER PLANT AN/AMJQ-12A (NSN 6115-00-257-1602) (2) MEP-006A 60HZ, GENERATOR SETS (2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAIL 064443 TM 5-6115-625-14&P 2 POWER UNIT PU-405A/M (NSN 6115-00-394-9577) MEP-004A 15 KW 60 HZ GENERATOR SET M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILER (THIS ITEM IS INCLUDED ON EM 0086 & EM 0087) 064445 TM 5-6115-633-14&P 4 POWER PLANT AN/MJQ-18 (NSN 6115-00-033-1398) (2) MEP-003A 1 60 HZ GENERATOR SETS M103A3 2-WHEEL 1 1/2 TON MODIFIED TRAILER 064446 TM 5-6115-628-14&P 4 POWER PLANT AN/MJQ-15 (NSN 6115-00-400-7591) (2) MEP-113A 1 400 HZ

GENERATOR SETS, (2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRA (THIS ITEM IS INCLUDED ON EM 0086) 064542 TM 5-6115-631-14&P 4 POWER PLANT AN/MJQ-16 (NSN 61 15-00-033-1395) (2) MEP-002A 5 KW 60 HZ GENERATOR SETS M103A3 2-WHEEL, 2-TIRE, MODIFIED TRAI 065071 TM 55-1730-229-24P 6 POWER AVIATION, MULTI-OUTPUT GTED ELECTRICAL, HYDAULIC, PNEUMATIC (AG WHEEL MOUNTED, SELF-PROPELLED, TOWABLE AC 400 HZ, 3 PH, 0.8 PF, 115/200V, 30 KW DC 28 VDC 700 AMPS PNEUMATIC 60 LBS/MIN. AT 40 HYDRAULIC 15 GPM AT 3300 PSIG DOD MODEL MEP-360A, CLASS PRECISE 400 HERTZ (NSN 1730-01-144-1897) {TO 35C2-3-473-4; TM 1730-24P/ AG 320A0-IPB-000} 065603 TB 5-6115-593-24 WARRANTY PROGRAM FOR GENERATOR SET DOD MODEL MEP-029A HOUSING K DOD MODEL MEP-029AHK 066727 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 H 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,

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