

3 wire hydraulic pump control diagram

3 Wire Hydraulic Pump Control Diagram: A Deep Dive into Simplicity and Efficiency

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Summary: This article provides a comprehensive overview of the 3 wire hydraulic pump control diagram, explaining its functionality, advantages, applications, and troubleshooting. It incorporates real-world examples, case studies, and personal anecdotes from the author's extensive experience to illustrate practical applications and common challenges. The article also addresses safety considerations and provides a detailed FAQ section.

Introduction: Understanding the Simplicity of the 3 Wire Hydraulic Pump Control Diagram

The heart of many hydraulic systems beats with the rhythm of a precisely controlled pump. While complex control schemes exist, the elegant simplicity of the 3-wire hydraulic pump control diagram often proves ideal for a range of applications. This diagram, relying on just three wires for control, offers a robust and cost-effective solution for starting, stopping, and sometimes even direction control of hydraulic pumps. Understanding this diagram is crucial for anyone working with hydraulic machinery, from maintenance technicians to design engineers.

Decoding the 3 Wire Hydraulic Pump Control Diagram: A Step-by-Step Guide

The 3 wire system typically uses three wires to control a contactor or solenoid valve, which in turn energizes the pump motor. Let's break down the components:

1. Power Supply: This provides the necessary voltage to operate the control circuit and the pump motor.

1. Control Switch: This is usually a simple on/off switch, or a push-button, initiating the control sequence.

1. Contactor/Solenoid Valve: This electrically operated switch acts as the intermediary. When energized by the control circuit, it closes, completing the circuit to the pump motor.

1. Pump Motor: The electric motor that drives the hydraulic pump.

1. Hydraulic Pump: This is the component that generates the hydraulic pressure.

The 3-wire system simplifies control by using the same wire for both power and control signal. A typical configuration involves a common wire, a wire for the start signal, and a wire for an optional stop signal (if not using a normally closed contact).

Diagrammatic Representation: (Here, a simple schematic diagram of a 3-wire hydraulic pump control system would be inserted. The diagram should clearly show the power supply, control switch, contactor/solenoid valve, and pump motor, with the three wires clearly labelled.)

Advantages of Using a 3 Wire Hydraulic Pump Control Diagram

The popularity of the 3 wire hydraulic pump control diagram stems from several key advantages:

Simplicity: Its straightforward design makes it easy to understand, install, and troubleshoot. This reduces complexity and overall costs.

Cost-effectiveness: Utilizing fewer wires translates to lower material costs and simplified wiring schemes.

Reliability: With fewer components and simpler wiring, the potential for failure is reduced, contributing to enhanced reliability.

Ease of Maintenance: Troubleshooting and repairs are simplified due to the system's inherent simplicity.

Case Study: A Real-World Application in a Manufacturing Plant

During my time at a large manufacturing plant, we encountered a situation where a complex hydraulic press system required a streamlined control solution for its main pump. We initially used a more sophisticated PLC-based system, but it proved difficult to troubleshoot and maintain. The plant's electricians, familiar with the 3 wire hydraulic pump control diagram, suggested a simplification. By implementing a 3-wire system for the primary pump control, we significantly reduced downtime and improved maintainability. The simplicity allowed the maintenance team to diagnose and resolve issues quickly, minimizing production losses. The cost savings from reduced downtime far outweighed the initial installation costs.

Troubleshooting Common Issues in 3 Wire Hydraulic Pump Control Diagrams

While simple, the 3-wire system can still experience issues. Some common problems and solutions include:

Pump not starting: Check the power supply, the control switch, the contactor/solenoid valve coil, and the wiring connections. Use a multimeter to verify power and continuity.

Pump running continuously: A faulty control switch or a stuck contactor/solenoid valve could cause this. Replace the faulty component.

Intermittent operation: Loose wiring connections, damaged wiring insulation, or a failing contactor/solenoid valve can lead to intermittent operation. Thoroughly inspect the wiring and replace any suspect components.

Safety Considerations: Protecting Operators and Equipment

Safety should always be a paramount concern when working with hydraulic systems. When working with a 3 wire hydraulic pump control diagram, ensure:

Proper grounding: Ensure the system is properly grounded to prevent electrical shocks.

Lockout/Tagout procedures: Always follow lockout/tagout procedures before performing any maintenance or repairs.

Emergency stop: Implement an easily accessible emergency stop button.

Pressure relief valves: Use pressure relief valves to prevent excessive pressure buildup.

Personal Anecdote: Learning the Value of Simplicity

Early in my career, I was involved in a project that initially used a very elaborate hydraulic control system. We spent countless hours troubleshooting the complexities of the system. Ultimately, we simplified the design using a 3-wire hydraulic pump control diagram for the non-critical parts of the system, which dramatically reduced troubleshooting time and improved reliability. This experience solidified my appreciation for the power of simplicity in engineering design.

Conclusion

The 3 wire hydraulic pump control diagram, despite its apparent simplicity, offers a powerful and cost-effective solution for controlling hydraulic pumps in a wide variety of applications. Its ease of use, reliability, and maintainability make it a preferred choice for many industrial settings. By understanding the principles of this diagram, technicians and engineers can ensure the efficient and safe operation of hydraulic systems. Remember always to prioritize safety and follow proper procedures when working with any hydraulic system.

FAQs

1. Can a 3-wire system control the direction of a hydraulic pump? Not typically. A 3-wire system usually only controls start/stop. Directional control usually requires a more complex system.
1. What type of contactor is suitable for a 3-wire system? AC contactors are commonly used, but the choice depends on the pump motor's specifications.
1. Can I use a 3-wire system with a DC pump motor? Yes, but you'll need a DC contactor or solenoid valve.
1. How do I troubleshoot a 3-wire system if the pump doesn't start? Check the power supply, switch, contactor coil, and all wire connections. Use a multimeter to test continuity and voltage.
1. What are the safety precautions when working with a 3-wire hydraulic system? Always use lockout/tagout procedures, ensure proper grounding, and use pressure relief valves.
1. What is the difference between a 3-wire and a 4-wire system? A 4-wire system typically adds a dedicated stop signal wire, offering better control and safety features.
1. Can I use solid-state relays instead of a contactor in a 3-wire system? Yes, solid-state relays can provide quieter operation and potentially longer lifespan.

1. What are the limitations of a 3-wire hydraulic pump control diagram? It usually lacks features like speed control, pressure control, and directional control.
1. Where can I find more information on hydraulic control systems? Refer to technical manuals, online resources, and hydraulics engineering textbooks.

Related Articles:

1. Troubleshooting common faults in 3 wire hydraulic pump control circuits: This article will delve into diagnosing various faults and offer step-by-step troubleshooting procedures.
1. Designing safe and efficient hydraulic systems using 3 wire pump control: A focus on safety protocols and best practices for system design.
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1. Implementing a 3-wire hydraulic pump control diagram in PLC-based systems: Integrating the simple 3-wire system into more sophisticated control architectures.
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1. Cost-benefit analysis of 3-wire vs. more complex hydraulic pump control: A financial analysis

comparing various systems.

1. Safety standards and regulations for 3-wire hydraulic pump control systems: A guide to relevant safety codes and standards.

1. Case studies of successful 3-wire hydraulic pump control implementations: Real-world examples showcasing successful implementations in various industries.

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3 wire hydraulic pump control 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 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

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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, 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,

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