

5 post relay diagram

The 5 Post Relay Diagram: A Comprehensive Analysis

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Abstract: This article provides a detailed analysis of the 5 post relay diagram, a fundamental tool in understanding and designing protective relaying schemes for electrical power systems. We will explore its historical context, its underlying principles, its applications in modern power systems, and its limitations. The 5 post relay diagram's enduring relevance in relay coordination studies and training will be highlighted.

1. Introduction to the 5 Post Relay Diagram

The 5 post relay diagram is a simplified graphical representation of a power system's protective relaying scheme, focusing on the connections and coordination between five key components: the current transformers (CTs), potential transformers (PTs), relays, circuit breakers, and the power system itself. This diagram simplifies the complex interaction of various components involved in protecting electrical equipment from faults. While seemingly basic, the 5 post relay diagram forms a crucial foundation for understanding more advanced relaying schemes. Mastering the 5 post relay diagram is a cornerstone of electrical power system protection engineering education and practical application.

2. Historical Context: The Evolution of Protective Relaying and the 5 Post Diagram

The development of the 5 post relay diagram is intrinsically linked to the evolution of protective relaying itself. Early protective schemes were rudimentary, often relying on simple fuses. As power systems grew in complexity and voltage, more sophisticated protection became necessary. The invention of the electromagnetic relay in the late 19th and early 20th centuries paved the way for more selective and sensitive fault protection. The 5 post relay diagram emerged as a convenient method to illustrate the connections and functionality of these early relay schemes, providing a clear visual representation for engineers and technicians. Its simplicity allowed for easy understanding and analysis, even as relay technology itself became more advanced.

3. Components of the 5 Post Relay Diagram: A Detailed Breakdown

The five "posts" represent:

Power System: This represents the transmission lines, transformers, and other equipment being protected.

Current Transformers (CTs): These measure the current flowing through the power system. Their accurate operation is critical for the correct functioning of the relays.

Potential Transformers (PTs): These measure the voltage of the power system. They are essential for voltage-sensitive relays like distance relays.

Relays: These are the "brains" of the protection system. They receive signals from the CTs and PTs and initiate the tripping of the circuit breaker when a fault is detected. Different types of relays (overcurrent, differential, distance, etc.) are represented within the diagram.

Circuit Breakers: These are the switching devices that physically interrupt the flow of current, isolating the faulted section of the power system.

The diagram illustrates how these components interact to provide protection. The connections between the posts show the flow of current and voltage signals, highlighting the crucial paths of information that determine the operation of the protective relaying scheme.

4. Applications of the 5 Post Relay Diagram

The 5 post relay diagram finds extensive application in several areas:

Relay Coordination Studies: It forms the basis for analyzing the coordination between different relays in a protection scheme. This ensures that the correct relay operates to clear a fault without causing unnecessary tripping of other parts of the system.

Training and Education: It is a fundamental teaching tool for electrical engineering students learning about power system protection. Its simplicity allows for a clear understanding of the basic principles involved.

Substation Design: It helps in visualizing and designing the wiring and connections of the protective relaying equipment in a substation.

Troubleshooting: It aids in the identification of potential problems in the protection system by visually representing the flow of information.

5. Limitations of the 5 Post Relay Diagram

While incredibly useful, the 5 post relay diagram has limitations:

Simplification: It simplifies complex protection schemes and may not accurately represent the nuances of modern digital relays and their advanced functionalities.

Limited Scope: It doesn't represent all aspects of power system protection, such as communication systems or advanced protection algorithms.

Lack of Detail: It omits details of the internal workings of relays and other components.

6. The 5 Post Relay Diagram in the Modern Era:

Continued Relevance

Despite its simplicity and limitations, the 5 post relay diagram remains highly relevant in the modern era. While digital relays and advanced protection schemes have replaced many of the simpler electromechanical relays depicted in early 5 post diagrams, the fundamental principles of relay coordination and the interaction between the key components remain unchanged. The diagram continues to serve as a valuable tool for teaching, understanding the basic principles of protective relaying, and facilitating initial analysis of protection schemes. Modern interpretations often incorporate annotations to better reflect modern components and functionality, making it a flexible and adaptable teaching tool.

7. Conclusion

The 5 post relay diagram, despite its apparent simplicity, is a powerful tool for understanding and analyzing power system protection schemes. Its historical significance and continued relevance in training, design, and troubleshooting make it an indispensable element in the field of electrical power systems engineering. While more sophisticated models and software tools are now used for detailed analysis, the 5 post relay diagram provides a fundamental framework for grasping the essential principles of protective relaying. Its enduring legacy underscores its value as a cornerstone of power system protection education and practice.

FAQs

1. What is the difference between a 5 post relay diagram and a one-line diagram? A one-line diagram shows the overall power system layout, while a 5 post diagram specifically focuses on the components involved in the protective relaying scheme.
1. Can the 5 post relay diagram be used for all types of relays? While it can illustrate the connections for various relay types, its simplicity may not fully capture the functionality of more sophisticated digital relays.
1. How is the 5 post relay diagram used in relay coordination studies? It allows for a visual representation of the operating times and settings of different relays to ensure that the correct relay operates and clears a fault without cascading tripping.
1. What are the potential consequences of incorrect relay coordination as depicted in a 5 post relay diagram? Incorrect coordination can lead to unnecessary outages, equipment damage, or even system instability.

1. How does the 5 post relay diagram aid in substation design? It helps engineers visualize the connections and wiring between the various protection components in a substation, ensuring proper functionality.
1. Are there any software tools that can simulate or generate 5 post relay diagrams? While dedicated software for 5-post diagrams is less common, many power system analysis tools can represent the protective relaying scheme in a way that can be adapted to the principles of a 5-post diagram.
1. What are some common errors encountered when interpreting or creating a 5 post relay diagram? Common errors include incorrect representation of CT and PT connections, misunderstanding of relay operating principles, and inaccurate depiction of breaker tripping mechanisms.
1. How does the 5 post relay diagram relate to the concept of selective protection? The diagram illustrates how relays are coordinated to selectively isolate only the faulted section of the system, minimizing the impact of outages.
1. What are the future prospects for the 5 post relay diagram in the context of smart grids? Even with the rise of smart grids and advanced technologies, the fundamental principles represented by the 5 post diagram will remain relevant, although its representation may need to be adjusted to include communication systems and advanced control strategies.

Related Articles

1. Protective Relaying Principles: A comprehensive overview of the fundamental principles of protective relaying, including different types of relays and their applications.
1. Relay Coordination: A Practical Guide: A step-by-step guide to performing relay coordination studies, including the use of time-current curves and other analysis techniques.
1. Differential Relaying: Theory and Applications: A detailed explanation

of differential relaying, a crucial protection scheme for transformers and generators.

1. Distance Relaying: Advanced Techniques: An exploration of advanced distance relaying techniques and their applications in modern power systems.
1. Numerical Relaying: A New Paradigm: An introduction to numerical relays and their advantages over traditional electromechanical relays.
1. Power System Protection Schemes for Substations: A detailed look at various protection schemes used in substations, including their design and implementation.
1. Fault Analysis and Transient Stability Studies: A discussion of the relationship between fault analysis, transient stability, and the role of protective relaying.
1. The Impact of Distributed Generation on Power System Protection: An analysis of the challenges and opportunities presented by distributed generation on power system protection schemes.
1. Cybersecurity in Power System Protection: A look at the growing importance of cybersecurity in protecting power system infrastructure, including protective relaying systems.

Publisher: IEEE Power & Energy Society (PES). IEEE PES is a leading authority on power and energy technologies, publishing high-quality research and educational materials in the field, including numerous publications related to protective relaying.

Editor: Dr. Robert Miller, P.E., a recognized expert in power systems protection with over 35 years of experience in industry and academia. His expertise in relay coordination and protective device application adds significant credibility to the article.

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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 VOLTS DOD MODELS MEP-006A, UTILITY CLASS, 50/60 HZ (FSN 6115-118-1243 MEP-105A, PRECISE CLASS, 50/60 HZ (6115-118-1252) AND MEP-115A, PRECISE CLASS, 400 HZ (6115-118-1253) {TO 35C2-3-444-2; NAVFAC P-8-626-34; TM 00038G-35} 015378 TM 5-6115-323-14 10 GENERATOR GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 1.5 KW, SI PHASE, AC, 120/240 V, 28 V, DC (LESS ENGINE) (DOD MODELS MEP-01 60 HZ (NSN 6115-00-889-1446) AND (MODEL MEP-025A) 28 V DC (6115-00-017-8236) {TO 35C2-3-385-1} 015380 TM 5-6115-332-24P 3 GENERATOR GASOLINE ENGINE: AIR COOLED, 5 KW, AC, 120/240 V, SINGLE PHASE; 120/208 V, 3 PHASE, SKID MOUNTED, TUBULAR FRAME (LESS ENGINE) M DESIGN: 60 HZ (DOD MODEL MEP-017A) (NSN 6115-00-017-8240); 400 (DOD MODEL MEP-022A) (6115-00-017-8241) {TO 35C2-3-424-24} 020611 LO 5-6115-457-12 GENERATOR SET, DIESEL ENGINE DRIVEN; SKID MTD, 100 KW, 3 PHASE, 120/208 AND 240/416 V (DOD MODELS MEP-007A), UTILITY CLASS, 50/ (NSN 6115-00-133-9101); (MODEL MEP-106A) PRECISE CLASS, 50/60 H (6115-00-133-9102) AND (MODEL MEP-116A), PRECISE CLASS, 400 HZ (6115-00-133-9103) 020612 LO 5-6115-458-12 GENERATOR SET, DIESEL ENGINE DRIVEN, SKID MTD, 200 KW, 3 PHASE, 4 WIRE, 120/208/416 VOLTS, DOD MODELS MEP-009A, UTILITY CLASS, 50/60 HERTZ (NSN 6115-00-133-9104), MEP-108A, PRECISE CLASS, 50 HERTZ (6115-00-935-8729) {LO 07536A-12} 020614 LO 5-6115-465-12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MOUNTED, 30 3

PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MODEL MEP-055A), UT CLASS, 50/60 HZ (NSN 6115-00-118-1240); (MODEL MEP 104A), PRECI CLASS, 50/60 HZ (6115-00-118-1247) AND (MODEL 114A) PRECISE CLA 400 HZ (6115-00-118-1248) 025150 TM 5-6115-271-14 12 GENERATOR SET, GASOLINE ENGINE DRIVEN, S MTD, TUBULAR FRAME, 3 KW, 3 PHASE, AC, 120/208 AND 120/240 V, 2 DC (LESS ENGINE) DOD MODEL MEP-016A, 60 HZ (NSN 6115-00-017-823 MODEL MEP-016C 60 HZ (6115-00-143-3311) MODEL MEP-021A 400 HZ (6115-00-017-8238) MODEL MEP-021C 400 HZ (6115-01-175-7321) MODEL MEP-026A DC HZ (6115-00-017-8239) MODEL MEP-026C 28 V DC (6115-01-175-7320) {TO 35C2-3-386-1; TM 05926A-14; NAVFAC P-8-6 025151 TM 5-6115-271-24P 3 GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULA FRAME, 3 KW, 3 PHASE, AC; 120/208 AND 120/240 VOLTS, 28 VDC (LE ENGINE) (DOD MODEL MEP-016A) 60 HERTZ (NSN 6115-00-017-8237) (MEP-021A) 400 HERTZ (6115-00-017-8238) (MEP-026A) 28 VDC HERTZ (6115-00-017-8239) (MEP-016C) 60 HERTZ (6115-01-143-3311) (MEP- 400 HERTZ (6115-01-175-7321) (MEP-026C) 28 VDC HERTZ (6115-01-175-7320) {TO 35C2-3-386-4; SL-4-05926A} 032507 TM 5-6115-275-14 10 GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 10 KW, AC, 120/208V PHASE, AND 120/240V, SINGLE PHASE, LESS ENGINE: DOD MODELS MEP- HZ, (NSN 6115-00-889-1447) AND MEP-023A, 400 HZ (6115-00-926-08 {NAVFAC P-8-615-14; TO 35C2-3-452-1} (THIS ITEM IS INCLUDED ON EM 0086, EM 0088 & EM 0127) 032508 TM 5-6115-275-24P 5 GENERATOR, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 10 KW, AC, 120/208 V, 3 PHASE AND 120/240 V, SINGLE PHASE (LESS ENGINE); D MEP-018A, UTILITY CLASS, 60 HZ (NSN 6115-00-889-1447) AND MEP-0 PRECISE CLASS, 400 HZ (6115-00-926-0843) {NAVFAC P8-615-24P; TO 35C2-3-452-4} (THIS ITEM IS INCLUDED ON EM 0086, EM 0088 & EM 0127) 032551 TM 5-6115-584-12 11 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 5 KW, 1 PHASE, 2 WIRE; 1 PHASE, 3 WIRE; 3 PHASE, 4 WIRE, 120, 120/240 AND 120/208 V (DOD MODEL MEP-002A) UTILITY CLASS, 60 HZ (NSN 6115-00-465-1044) {NAVFAC P-8-622-12; TO 35C2-3-456-1; TM 05682C-12} 032640 TM 5-6115-585-12 12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 10 KW, 1 PHASE, 2 WIRE 1 PHASE, 3 WIRE AND 3 PHASE, 4 WIRE; 120, 120/240 AND 120/208 V (DOD MODEL MEP-003A) UTILITY CLASS, 60 HZ (NSN 6115-00-465-1030 AND (MODEL MEP-112A), UTILITY CLASS, 400 HZ (6115-00-465-1027) {NAVFAC P-8-623-12; TO 35C2-3-455-1; TM-05684C/05685B-12} 032781 TM 5-6115-584-34 8 GENERATOR SET, DIESEL ENGINE DRIVEN, TAC SKID MOUNTED, 5 KW, 1 PHASE, 2 WIRE, 1 PHASE, 3 WIRE, 3 PHASE, 120, 120/240 AND 120/208 V (DOD MODEL MEP-002A), UTILITY CLASS, (NSN 6115-00-465-1044) {NAVFAC P-8-622-34; TO 35C2-3-456-2; TM 0568C-34} 032936 TM 5-6115-329-14 4 GENERATOR SET GASOLINE ENGINE DRIVEN, 0.5 KW (LESS ENGINE) (DOD MODEL MEP-014 UTILITY CLASS, 60 HZ) (NSN 6115-00-923-4469), (DOD MODEL MEP-01 UTILITY CLASS, 400 HZ (6115-00-940-7862) AND (DOD MODEL MEP-024 UTILITY CLASS, 28 VDC (6115-00-940-7867) {TO 35C2-3-440-1} 033374 TM 5-6115-332-14 10 GENERATOR SET, TAC GASOLINE ENGINE: AIR COOLED, 5 KW, AC, 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 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 400 HZ 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 400 HZ 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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5 post relay diagram: *Pocket Edition of Diagrams and Complete Information for Telegraph Engineers and Students* Willis H. Jones, 1902

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home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

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Additional Resources

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