

# WIRING CAPACITOR AC UNIT

**WIRING CAPACITOR AC UNIT** IS A CRITICAL ASPECT OF MAINTAINING AND TROUBLESHOOTING AIR CONDITIONING SYSTEMS. CAPACITORS IN AC UNITS SERVE ESSENTIAL FUNCTIONS, SUCH AS STARTING THE COMPRESSOR AND FAN MOTORS AND IMPROVING THEIR EFFICIENCY. PROPER WIRING OF CAPACITORS ENSURES THE OPTIMAL PERFORMANCE AND LONGEVITY OF THE AIR CONDITIONING SYSTEM. THIS ARTICLE EXPLORES THE TYPES OF CAPACITORS USED IN AC UNITS, THE WIRING PROCESS, COMMON ISSUES, AND SAFETY PRECAUTIONS WHEN DEALING WITH CAPACITOR WIRING. UNDERSTANDING THESE COMPONENTS HELPS HVAC PROFESSIONALS AND HOMEOWNERS IDENTIFY PROBLEMS AND PERFORM NECESSARY REPAIRS ACCURATELY. THE FOLLOWING SECTIONS PROVIDE A DETAILED OVERVIEW OF WIRING CAPACITORS IN AC UNITS, COVERING TECHNICAL INSIGHTS AND PRACTICAL GUIDELINES.

- UNDERSTANDING CAPACITORS IN AC UNITS
- TYPES OF CAPACITORS USED IN AC SYSTEMS
- WIRING CAPACITORS IN AC UNITS
- COMMON WIRING ISSUES AND TROUBLESHOOTING
- SAFETY PRECAUTIONS WHEN HANDLING AC CAPACITORS

## UNDERSTANDING CAPACITORS IN AC UNITS

CAPACITORS PLAY A VITAL ROLE IN THE OPERATION OF AIR CONDITIONING UNITS. THEY STORE AND RELEASE ELECTRICAL ENERGY TO HELP START AND RUN THE COMPRESSOR AND FAN MOTORS EFFICIENTLY. WITHOUT CAPACITORS, THESE MOTORS WOULD STRUGGLE TO START OR OPERATE AT REDUCED PERFORMANCE LEVELS, LEADING TO SYSTEM FAILURES OR INCREASED ENERGY CONSUMPTION. THE WIRING CAPACITOR IN AN AC UNIT MUST BE CORRECTLY INSTALLED AND CONNECTED TO ENSURE THE SYSTEM FUNCTIONS AS INTENDED. CAPACITORS TYPICALLY COME IN TWO MAIN TYPES FOR AC UNITS: START CAPACITORS AND RUN CAPACITORS, EACH SERVING A DIFFERENT PURPOSE.

## THE ROLE OF CAPACITORS IN AC SYSTEMS

CAPACITORS PROVIDE THE NECESSARY PHASE SHIFT FOR ELECTRIC MOTORS, ALLOWING THEM TO START AND MAINTAIN OPERATION SMOOTHLY. START CAPACITORS DELIVER A HIGH CAPACITANCE BOOST TO GENERATE ADDITIONAL TORQUE FOR MOTOR STARTUP, WHILE RUN CAPACITORS MAINTAIN A STEADY VOLTAGE SUPPLY FOR CONTINUOUS MOTOR OPERATION. THE WIRING CAPACITOR AC UNIT CONFIGURATION DEPENDS ON THE MOTOR DESIGN AND THE SPECIFIC REQUIREMENTS OF THE AC SYSTEM. PROPER WIRING ENSURES THAT THE CAPACITOR CAN SUPPLY THE RIGHT AMOUNT OF ELECTRICAL CHARGE AT THE RIGHT TIME.

## HOW CAPACITORS AFFECT AC PERFORMANCE

WHEN CAPACITORS ARE WIRED CORRECTLY, THE COMPRESSOR AND FAN MOTORS RUN EFFICIENTLY, REDUCING ENERGY CONSUMPTION AND PREVENTING OVERHEATING. INCORRECT WIRING OR FAULTY CAPACITORS CAN CAUSE THE MOTORS TO FAIL TO START, RUN INEFFICIENTLY, OR MAKE UNUSUAL NOISES. THIS CAN LEAD TO INCREASED WEAR AND TEAR AND POTENTIALLY EXPENSIVE REPAIRS. UNDERSTANDING THE WIRING AND FUNCTION OF CAPACITORS HELPS MAINTAIN OPTIMAL AC UNIT PERFORMANCE.

# TYPES OF CAPACITORS USED IN AC SYSTEMS

THERE ARE PRIMARILY TWO TYPES OF CAPACITORS USED IN AIR CONDITIONING UNITS: START CAPACITORS AND RUN CAPACITORS. ADDITIONALLY, SOME AC UNITS UTILIZE DUAL CAPACITORS THAT COMBINE BOTH FUNCTIONS IN A SINGLE COMPONENT FOR STREAMLINED WIRING AND SPACE-SAVING BENEFITS. EACH TYPE HAS DISTINCT ELECTRICAL CHARACTERISTICS AND WIRING REQUIREMENTS.

## START CAPACITORS

START CAPACITORS PROVIDE A BRIEF SURGE OF POWER TO THE COMPRESSOR OR FAN MOTOR DURING STARTUP. THESE CAPACITORS HAVE A HIGHER CAPACITANCE RATING AND ARE DESIGNED TO HANDLE SHORT BURSTS OF ELECTRICAL ENERGY. THEY ARE WIRED IN SERIES WITH THE START WINDING OF THE MOTOR AND DISENGAGE AFTER THE MOTOR REACHES A CERTAIN SPEED, OFTEN CONTROLLED BY A RELAY OR CENTRIFUGAL SWITCH.

## RUN CAPACITORS

RUN CAPACITORS PROVIDE CONTINUOUS PHASE SHIFT TO THE MOTOR WINDINGS DURING OPERATION. THEY HAVE A LOWER CAPACITANCE COMPARED TO START CAPACITORS AND ARE WIRED IN PARALLEL WITH THE MOTOR WINDINGS. RUN CAPACITORS IMPROVE MOTOR EFFICIENCY, REDUCE POWER CONSUMPTION, AND HELP MAINTAIN SMOOTH MOTOR OPERATION THROUGHOUT THE AC CYCLE.

## DUAL CAPACITORS

DUAL CAPACITORS COMBINE THE FUNCTIONS OF BOTH START AND RUN CAPACITORS INTO A SINGLE UNIT. THEY HAVE THREE TERMINALS USUALLY LABELED AS "C" (COMMON), "FAN," AND "HERM" (HERMETIC COMPRESSOR). THE WIRING CAPACITOR AC UNIT SETUP FOR DUAL CAPACITORS IS COMPACT BUT REQUIRES CAREFUL IDENTIFICATION OF TERMINALS TO ENSURE CORRECT INSTALLATION.

# WIRING CAPACITORS IN AC UNITS

WIRING A CAPACITOR IN AN AC UNIT REQUIRES CAREFUL ATTENTION TO THE ELECTRICAL SCHEMATIC AND THE SPECIFIC TYPE OF CAPACITOR USED. PROPER CONNECTIONS ENSURE THE CAPACITOR PROVIDES CORRECT VOLTAGE AND TIMING TO THE COMPRESSOR AND FAN MOTORS. THE WIRING PROCESS GENERALLY INVOLVES CONNECTING CAPACITOR TERMINALS TO CORRESPONDING MOTOR TERMINALS AND POWER SUPPLY LINES FOLLOWING MANUFACTURER GUIDELINES.

## IDENTIFYING CAPACITOR TERMINALS

CAPACITORS TYPICALLY HAVE TERMINALS LABELED TO INDICATE THEIR FUNCTION. COMMON LABELS INCLUDE:

- **C (COMMON):** THE COMMON TERMINAL CONNECTED TO THE POWER SUPPLY LINE.
- **FAN:** CONNECTED TO THE FAN MOTOR.
- **HERM:** CONNECTED TO THE COMPRESSOR MOTOR (HERMETICALLY SEALED COMPRESSOR).

CORRECT IDENTIFICATION IS CRITICAL TO ENSURE THE WIRING CAPACITOR AC UNIT ASSEMBLY FUNCTIONS PROPERLY AND SAFELY.

## WIRING STEPS FOR A DUAL CAPACITOR

THE GENERAL PROCEDURE FOR WIRING A DUAL CAPACITOR IN AN AC UNIT INCLUDES:

1. TURN OFF THE POWER SUPPLY TO THE AC UNIT TO ENSURE SAFETY.
2. DISCHARGE THE CAPACITOR BY SHORTING ITS TERMINALS WITH AN INSULATED SCREWDRIVER TO ELIMINATE STORED ENERGY.
3. LOCATE THE CAPACITOR COMPARTMENT AND REMOVE THE ACCESS PANEL.
4. IDENTIFY AND LABEL EXISTING WIRES TO MATCH CAPACITOR TERMINALS.
5. CONNECT THE WIRE FROM THE POWER SUPPLY TO THE **C (COMMON)** TERMINAL.
6. ATTACH THE FAN MOTOR WIRE TO THE **FAN** TERMINAL.
7. ATTACH THE COMPRESSOR WIRE TO THE **HERM** TERMINAL.
8. SECURE THE CAPACITOR IN PLACE AND REPLACE THE ACCESS PANEL.
9. RESTORE POWER AND TEST THE AC UNIT FOR PROPER OPERATION.

## WIRING START AND RUN CAPACITORS

FOR SINGLE START OR RUN CAPACITORS, WIRING VARIES SLIGHTLY DEPENDING ON MOTOR CONFIGURATION. TYPICALLY, THE START CAPACITOR IS WIRED IN SERIES WITH THE START WINDING, AND THE RUN CAPACITOR IS WIRED IN PARALLEL WITH THE MOTOR. FOLLOWING THE SPECIFIC WIRING DIAGRAM PROVIDED BY THE AC MANUFACTURER IS ESSENTIAL TO AVOID DAMAGE OR MALFUNCTION.

## COMMON WIRING ISSUES AND TROUBLESHOOTING

INCORRECT WIRING OR FAULTY CAPACITORS ARE COMMON CAUSES OF AC UNIT FAILURES. SYMPTOMS SUCH AS FAILURE TO START, HUMMING NOISES, OR INTERMITTENT OPERATION OFTEN TRACE BACK TO CAPACITOR WIRING PROBLEMS OR CAPACITOR DEGRADATION.

## SIGNS OF CAPACITOR WIRING PROBLEMS

SOME INDICATORS THAT CAPACITOR WIRING MAY BE PROBLEMATIC INCLUDE:

- AC UNIT FAILS TO START OR STARTS SLOWLY.
- HUMMING OR BUZZING NOISES FROM THE MOTOR AREA.
- OVERHEATING OF COMPRESSOR OR FAN MOTORS.
- VISIBLE SIGNS OF CAPACITOR DAMAGE SUCH AS BULGING OR LEAKING.
- FREQUENT TRIPPING OF CIRCUIT BREAKERS.

# TROUBLESHOOTING STEPS

TROUBLESHOOTING WIRING CAPACITOR AC UNIT ISSUES INVOLVES SEVERAL STEPS:

1. DISCONNECT POWER AND SAFELY DISCHARGE THE CAPACITOR.
2. INSPECT CAPACITOR TERMINALS AND WIRES FOR CORROSION, LOOSE CONNECTIONS, OR DAMAGE.
3. TEST THE CAPACITOR USING A MULTIMETER WITH CAPACITANCE MEASUREMENT CAPABILITIES.
4. VERIFY WIRING AGAINST THE UNIT'S SCHEMATIC DIAGRAM TO ENSURE CORRECT TERMINAL CONNECTIONS.
5. REPLACE FAULTY CAPACITORS OR REPAIR WIRING AS NECESSARY.
6. REASSEMBLE AND TEST THE AC UNIT FOR PROPER OPERATION.

## SAFETY PRECAUTIONS WHEN HANDLING AC CAPACITORS

HANDLING AND WIRING CAPACITORS IN AC UNITS REQUIRES STRICT ADHERENCE TO SAFETY PROTOCOLS DUE TO THE ELECTRICAL CHARGE THAT CAPACITORS CAN HOLD EVEN WHEN POWER IS OFF. FAILURE TO OBSERVE SAFETY PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE.

## ESSENTIAL SAFETY GUIDELINES

KEY SAFETY GUIDELINES WHEN WIRING CAPACITORS INCLUDE:

- ALWAYS TURN OFF AND DISCONNECT POWER AT THE CIRCUIT BREAKER BEFORE SERVICING THE AC UNIT.
- DISCHARGE CAPACITORS FULLY USING AN INSULATED TOOL TO PREVENT ELECTRIC SHOCK.
- USE INSULATED TOOLS AND WEAR PROTECTIVE GLOVES AND SAFETY GLASSES.
- FOLLOW THE MANUFACTURER'S WIRING DIAGRAMS AND INSTRUCTIONS CLOSELY.
- DO NOT TOUCH CAPACITOR TERMINALS DIRECTLY, EVEN IF THE UNIT IS POWERED OFF.
- REPLACE CAPACITORS WITH THE EXACT RATING SPECIFIED BY THE MANUFACTURER TO AVOID HAZARDS.
- CONSULT A LICENSED HVAC TECHNICIAN FOR COMPLEX WIRING OR REPAIRS BEYOND BASIC MAINTENANCE.

## PROPER DISPOSAL OF CAPACITORS

CAPACITORS CONTAIN MATERIALS THAT REQUIRE PROPER DISPOSAL METHODS. USED OR DAMAGED CAPACITORS SHOULD BE DISPOSED OF ACCORDING TO LOCAL REGULATIONS AND ENVIRONMENTAL GUIDELINES. AVOID DISCARDING CAPACITORS IN GENERAL WASTE TO PREVENT ENVIRONMENTAL CONTAMINATION.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS THE PURPOSE OF A CAPACITOR IN AN AC UNIT?

A CAPACITOR IN AN AC UNIT STORES ELECTRICAL ENERGY AND PROVIDES A BOOST OF ENERGY TO START THE COMPRESSOR AND FAN MOTORS, ENSURING EFFICIENT OPERATION.

### HOW DO I IDENTIFY THE CAPACITOR TERMINALS WHEN WIRING AN AC UNIT?

CAPACITOR TERMINALS ARE TYPICALLY LABELED AS 'C' FOR COMMON, 'FAN' FOR THE FAN MOTOR, AND 'HERM' FOR THE COMPRESSOR. ALWAYS REFER TO THE UNIT'S WIRING DIAGRAM TO CORRECTLY IDENTIFY EACH TERMINAL.

### CAN I REPLACE AN AC CAPACITOR WITH A HIGHER MICROFARAD RATING?

IT IS NOT RECOMMENDED TO USE A CAPACITOR WITH A HIGHER MICROFARAD RATING THAN SPECIFIED, AS THIS CAN CAUSE MOTOR DAMAGE OR INEFFICIENT OPERATION. ALWAYS REPLACE WITH THE EXACT RATING SPECIFIED BY THE MANUFACTURER.

### WHAT SAFETY PRECAUTIONS SHOULD I TAKE WHEN WIRING A CAPACITOR IN AN AC UNIT?

BEFORE WIRING, DISCONNECT POWER TO THE UNIT, DISCHARGE THE CAPACITOR USING A RESISTOR OR INSULATED SCREWDRIVER, WEAR INSULATED GLOVES, AND FOLLOW THE WIRING DIAGRAM CAREFULLY TO AVOID ELECTRIC SHOCK OR DAMAGE.

### HOW DO I TEST IF THE CAPACITOR IN MY AC UNIT IS FAULTY?

YOU CAN TEST THE CAPACITOR USING A MULTIMETER WITH A CAPACITANCE SETTING OR AN ANALOG MULTIMETER BY CHECKING IF IT HOLDS CHARGE. SIGNS OF A FAULTY CAPACITOR INCLUDE BULGING, LEAKING, OR THE AC UNIT NOT STARTING PROPERLY.

### IS IT NECESSARY TO DISCHARGE THE CAPACITOR BEFORE WIRING OR REPLACING IT IN AN AC UNIT?

YES, DISCHARGING THE CAPACITOR IS ESSENTIAL BEFORE HANDLING IT TO PREVENT ELECTRIC SHOCK, AS CAPACITORS CAN RETAIN A CHARGE EVEN WHEN THE POWER IS OFF.

### WHAT TYPE OF CAPACITOR IS COMMONLY USED IN RESIDENTIAL AC UNITS?

MOST RESIDENTIAL AC UNITS USE DUAL RUN CAPACITORS, WHICH COMBINE THE FUNCTIONS FOR THE COMPRESSOR AND FAN MOTOR IN A SINGLE UNIT WITH THREE TERMINALS.

## ADDITIONAL RESOURCES

#### 1. *WIRING AND INSTALLING CAPACITORS FOR HVAC SYSTEMS*

THIS COMPREHENSIVE GUIDE COVERS THE ESSENTIALS OF WIRING CAPACITORS IN AIR CONDITIONING UNITS, EXPLAINING VARIOUS CAPACITOR TYPES AND THEIR FUNCTIONS. IT PROVIDES STEP-BY-STEP WIRING DIAGRAMS AND TROUBLESHOOTING TIPS TO ENSURE EFFICIENT AND SAFE INSTALLATION. IDEAL FOR HVAC TECHNICIANS AND DIY ENTHUSIASTS ALIKE.

#### 2. *THE HVAC ELECTRICIAN'S GUIDE TO CAPACITOR WIRING*

FOCUSED ON THE ELECTRICAL ASPECTS OF HVAC SYSTEMS, THIS BOOK BREAKS DOWN THE COMPLEXITIES OF CAPACITOR WIRING IN AC UNITS. IT INCLUDES DETAILED ILLUSTRATIONS, SAFETY PROTOCOLS, AND COMMON WIRING CONFIGURATIONS USED IN RESIDENTIAL AND COMMERCIAL AIR CONDITIONERS. READERS WILL GAIN CONFIDENCE IN DIAGNOSING AND REPAIRING CAPACITOR-RELATED ISSUES.

### 3. *CAPACITORS IN AIR CONDITIONING: WIRING, TESTING, AND MAINTENANCE*

THIS BOOK EMPHASIZES THE LIFECYCLE OF CAPACITORS WITHIN AC UNITS, FROM WIRING TO ROUTINE MAINTENANCE AND TESTING PROCEDURES. IT TEACHES HOW TO IDENTIFY FAULTY CAPACITORS THROUGH ELECTRICAL MEASUREMENTS AND HOW TO WIRE REPLACEMENTS CORRECTLY. THE PRACTICAL ADVICE IS SUPPORTED BY CLEAR DIAGRAMS AND REAL-WORLD CASE STUDIES.

### 4. *PRACTICAL WIRING FOR HVAC CAPACITORS*

DESIGNED FOR HANDS-ON LEARNERS, THIS MANUAL PROVIDES A PRACTICAL APPROACH TO WIRING CAPACITORS IN VARIOUS AC SYSTEMS. IT HIGHLIGHTS COMMON WIRING MISTAKES AND HOW TO AVOID THEM, ENSURING RELIABLE OPERATION AND EXTENDED CAPACITOR LIFE. THE BOOK ALSO COVERS SAFETY TIPS AND THE USE OF MULTIMETERS FOR TESTING.

### 5. *ELECTRICAL COMPONENTS OF AIR CONDITIONERS: FOCUS ON CAPACITOR WIRING*

THIS TECHNICAL RESOURCE DELVES INTO THE ROLE OF CAPACITORS WITHIN THE ELECTRICAL CIRCUITRY OF AIR CONDITIONERS. READERS WILL LEARN ABOUT DIFFERENT CAPACITOR TYPES, THEIR ELECTRICAL CHARACTERISTICS, AND HOW TO PROPERLY WIRE THEM IN SINGLE-PHASE AND THREE-PHASE AC UNITS. THE BOOK ALSO INCLUDES TROUBLESHOOTING GUIDES FOR ELECTRICAL FAULTS.

### 6. *HVAC WIRING ESSENTIALS: CAPACITORS AND BEYOND*

COVERING A BROAD RANGE OF WIRING TOPICS, THIS BOOK PLACES SPECIAL EMPHASIS ON CAPACITOR WIRING IN HVAC SYSTEMS. IT EXPLAINS THE THEORY BEHIND CAPACITOR OPERATION AND HOW IT INTEGRATES WITH MOTORS AND COMPRESSORS. STEP-BY-STEP WIRING INSTRUCTIONS AND SAFETY CONSIDERATIONS MAKE IT A VALUABLE REFERENCE FOR PROFESSIONALS.

### 7. *CAPACITOR REPLACEMENT AND WIRING TECHNIQUES FOR AC UNITS*

THIS PRACTICAL GUIDE FOCUSES ON THE REPLACEMENT AND CORRECT WIRING OF CAPACITORS IN AIR CONDITIONING UNITS. IT PROVIDES DETAILED INSTRUCTIONS FOR IDENTIFYING CAPACITOR RATINGS, MATCHING REPLACEMENTS, AND ENSURING PROPER ELECTRICAL CONNECTIONS. THE BOOK ALSO DISCUSSES SIGNS OF CAPACITOR FAILURE AND PREVENTIVE MAINTENANCE.

### 8. *UNDERSTANDING AND WIRING HVAC CAPACITORS*

AIMED AT BOTH BEGINNERS AND EXPERIENCED TECHNICIANS, THIS BOOK SIMPLIFIES THE CONCEPTS INVOLVED IN HVAC CAPACITOR WIRING. IT EXPLAINS THE FUNCTION OF START AND RUN CAPACITORS, WIRING COLOR CODES, AND CONNECTION METHODS. THE CLEAR ILLUSTRATIONS HELP READERS VISUALIZE WIRING SETUPS AND IMPROVE REPAIR ACCURACY.

### 9. *ADVANCED WIRING SOLUTIONS FOR HVAC CAPACITORS*

THIS ADVANCED MANUAL EXPLORES COMPLEX WIRING SCENARIOS INVOLVING CAPACITORS IN SOPHISTICATED HVAC SYSTEMS. IT ADDRESSES MULTI-CAPACITOR CONFIGURATIONS, CAPACITOR BANKS, AND INTEGRATION WITH SMART HVAC CONTROLS. THE BOOK IS SUITED FOR EXPERIENCED ELECTRICIANS SEEKING TO ENHANCE THEIR KNOWLEDGE OF CAPACITOR WIRING IN MODERN AIR CONDITIONERS.

## **Wiring Capacitor Ac Unit**

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**wiring capacitor ac unit:** *Air Conditioning Service Guide 2nd Edition* Michael Prokup, 2021-09-01 Now in its Second Edition, this training manual was written by industry renowned presenter and author, Michael Prokup. This e-book is a comprehensive reference for servicing R-22/R-410A residential split air conditioning systems and is a must have for every student and service technician! Step-by-step service procedures and quick reference diagrams will help guide technicians through troubleshooting and service. 168 pages and fully illustrated. Copyright 2022 Topics covered include: Mechanical Refrigeration Cycle Basics Refrigerants and Oils Superheat Subcooling and Condensers Refrigerant Piping Charging Diagnosing Refrigeration Circuit Problems

**wiring capacitor ac unit:** ,

**wiring capacitor ac unit:** *Technical Manual* United States Department of the Army, 1958

**wiring capacitor ac unit:** **How to Design and Install In-Car Entertainment Systems**

Jefferson Bryant, 2009 The Ultimate Guide to In Car Entertainment presents the entire spectrum of audio/video, navigation, communication, and entertainment technology, and how the enthusiast can create a complete custom system or an integrated stock/aftermarket system. It explains how to plan, select, integrate and install popular systems under a specific budget for a certain level of performance. This includes design and installation considerations for audio and video, such as DVD players, TV tunes, and video screens (in-dash, in-seat, overhead, rear truck, etc.) GPS navigation, video game systems (PS3, X-Box 360, and more), iPod integration with head units, satellite radio, digital audio broadcasting, car security and even computers (carputers). The book features how-to installations, thorough explanations of professional only builds, descriptions of hook-ups, mechanical upgrades, such as charging systems, and a comprehensive resource guide.

**wiring capacitor ac unit:** Technical Manual United States. War Department, 1953

**wiring capacitor ac unit:** *2025-26 RRB ALP CBT Stage-2 Refrigeration & AC Practice Book*

YCT Expert Team, 2025-26 RRB ALP CBT Stage-2 Refrigeration & AC Practice Book 208 395 E. This book contains 51 practice sets.

**wiring capacitor ac unit:** Manufacturing and Mining , 2004 Provides statistical data on the principal products and services of the manufacturing and mining industries in the United States.

**wiring capacitor ac unit:** **The Technician's Radio Receiver Handbook** Joseph Carr, 2001-02-14 The Technician's Radio Receiver Handbook is an invaluable tool for anyone involved in the technologies of wireless, cellular telephone, telecommunications, avionics, and other forms of electronic communication using radio waves. The market demand for and use of wireless and telecommunication technology has increased dramatically over the past decade, leaving many technicians and other communications professionals with the need for accurate information on how the newest equipment works and how to fix any problems that arise. Joe Carr, a notable author in the amateur radio and communications markets, explains both the new and old technologies, the science behind the scenes, as well as troubleshooting techniques not found in any other book. The book will also have a companion website including helpful calculation software, customizable spreadsheets, and much more. - Written for technicians and hands-on practitioners in clear, easy-to-read text with many detailed illustrations - Contains information on cutting-edge receiver equipment as well as the most popular types used today in a variety of markets - Destined to be a constant reference and superb training guide for anyone interested in communications technology

**wiring capacitor ac unit:** *Audel Air Conditioning Home and Commercial* Rex Miller, Mark Richard Miller, Edwin P. Anderson, 2004-10-28 This guide will keep you cool Like its earlier editions, this fully updated guidebook is packed with practical information on installing, servicing, maintaining, and trouble-shooting air-conditioning systems. Whether you're an AC professional, an independent repair technician, or a cost-conscious homeowner, everything you need is here. Clearly organized and loaded with diagrams and illustrations, it's a vital addition to your toolbox. Find concise, accurate information on installing and maintaining both residential and commercial systems Understand the physics of air conditioning and filtration Make accurate temperature measurements using various methods and devices Work with room air conditioners, water cooling systems, and auto air conditioning Learn about refrigerants, compressors, condensers, evaporators, and AC motors Service, troubleshoot, and repair both old and new AC units

**wiring capacitor ac unit:** *Electric Wiring* A. J. Coker, W. Turner, 2013-10-22 Electric Wiring: Domestic, Tenth Edition, is a clear and reliable guide to the practical aspects of domestic electric wiring. Intended for electrical contractors, installation engineers, wiremen and students, its aim is to provide essential up to date information on modern methods and materials in a simple, clear, and concise manner. The main changes in this edition are those necessary to bring the work into line with the 16th Edition of the Regulations for Electrical Installations issued by the Institution of

Electrical Engineers. The book begins by introducing the basic features of domestic installations and explaining power and current ratings, cable and accessory sizes, and circuit protection; and the fitting of switches, fuses, circuit-breakers, etc. Separate chapters deal with the main types of domestic wiring work, including lighting, power, socket-outlets, and the connection of appliances. Fluorescent lighting and 'off-peak' electric heating systems are also covered. Subsequent chapters discuss the principal wiring systems available for domestic use, including steel and PVC conduit, PVC cable, and the mineral-insulated copper-sheathed system; the earthing requirements and the protective multiple earthing (PME) system which is being more widely applied; and earth-leakage circuit-breakers. The final chapter explains the inspection and tests required on completed installations, including the earth-fault loop-impedance and ring-circuit continuity tests which are now covered in greater detail in the Regulations.

**wiring capacitor ac unit: Modern Refrigeration and Air Conditioning** Andrew Daniel Althouse, Carl Harold Turnquist, Alfred F. Bracciano, 1992 Organized to follow the textbook on a chapter-by-chapter basis, providing questions to help the student review the material presented in the chapter. This supplement is a consumable resource, designed with perforated pages so that a given chapter can be removed and turned in for grading or checking.

**wiring capacitor ac unit: 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



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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 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}

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