

12-Volt Alternator Installation & Operation Manual

BALMAR

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Introduction

Thank you for choosing a Balmar high-output alternator. This alternator is uniquely engineered to provide the finest performance and durability for your vessel. Unlike most automotive-type alternators found standard on the majority of pleasure craft and marketed as lower-priced marine alternatives, our marine alternators provide exceptional output at lower engine r.p.m.'s typical of marine diesel engines, so you can enjoy shorter charge cycles, greater economy, longer battery life and less noise and fumes.

When used in conjunction with Balmar microprocessor-controlled Max Charge and ARS-Series multi-stage regulators, your Balmar alternator provides even greater efficiency when charging deep-cycle flooded, standard flooded, gel, AGM, Optima and other marine battery technologies. When preset for your battery type, the smart regulator guides your alternator through a tailored charge cycle that ensures the best care possible for your batteries. Balmar multi-stage regulators provide the ability to monitor temperature at your alternator. When used with the optional alternator temperature sensor (MC-TS-A) installed, the regulator will automatically reduce field output to 50 and activate a warning circuit which can control a user-installed visual or audible alert, should an over-temperature condition occur. Together, the Balmar high-output alternator and multi-stage regulator work to assure the best charge possible.

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Safety Considerations

Before installing your new alternator, please take a moment to consider the following guidelines for safe alternator installation and operation. Failure to follow these guidelines could result in injury or damage to your vessel's electrical system.

1. Always disconnect your batteries and turn your battery switch to its "OFF" position prior to installing your alternator.
2. Remove any loose fitting clothing or jewelry which could become entangled in your motor or other machinery.
3. Wear ANSI-approved safety glasses or eyewear.
4. Ensure that the engine has cooled sufficiently before beginning installation.
5. DO NOT install your high-output alternator without ensuring that the system wiring is sufficiently scaled to handle increased amperage loads.
6. Be sure that your work area is sufficiently ventilated and that no fuels or solvents are present in and around your work area.
7. DO NOT operate your charging system without proper fusing. Failure to do so could result in severe injury and/or damage or loss of your vessel. DON'T take chances with fusing.
8. DO NOT attempt installation while using alcohol or medications which could impair your judgement or reaction time.
9. Use the right tool for the job. Use of improper tools could result in damage or injury.
10. Take time to read the manual. Equipment damage and possible injury may result from an incomplete understanding of the proper installation and use of the alternator.

CAUTION: The following instructions are intended for use by experienced marine electrical installers. If you are not sufficiently experienced with marine electrical systems, we recommend a qualified electrician be used for installation.

12 Volt Alternator Installation Operation Manual

Lauren Gardner



12 Volt Alternator Installation Operation Manual:

, *Operator's, organizational, direct support, and general support maintenance manual (including repair parts and special tools list) for truck, firefighting, dry chemical AFFF, NSN 4210-00-484-5729 ,1989* Manuals Combined: M998 Army HMMWV HUMMER HUMVEE Repair Operator Parts Technical Publication , Over 12 000 total pages Just a SAMPLE of included public domain U S Army Marine Corps USMC and Air Force Technical Manuals TECHNICAL MANUAL TRUCK UTILITY CARGO TROOP CARRIER 1 1 4 TON 4X4 M998 1090 pages TECHNICAL MANUAL ENGINE DIESEL DDA MODEL 6 2 LITER 266 pages HAND RECEIPT TRUCK UTILITY CARGO TROOP CARRIER 1 1 4 TON 4X4 20 pages OPERATOR S MANUAL TRUCK UTILITY CARGO TROOP CARRIER 1 1 4 TON 4X4 M998 403 pages TECHNICAL MANUAL ENGINE DIESEL DDA MODEL 6 2 LITER 133 pages TECHNICAL MANUAL TRANSPORTABILITY GUIDANCE M998 SERIES 44 pages TECHNICAL MANUAL UNIT MAINTENANCE M998 M1038 M966 M1045 M1046 M1025 M1026 M1043 M1043A2 M1045A1 M966A1 M1097A2 M1038A1 M998A1 M1043A1 M1044 M1044A1 M996A1 1151 pages TECHNICAL MANUAL Volume No 1 883 pages TECHNICAL MANUAL Volume No 2 944 pages TECHNICAL MANUAL ELECTRIC ENVIRONMENTAL SYSTEM 353 pages TECHNICAL MANUAL TRAILER CARGO 2040 POUNDS 2 WHEEL M1101 319 pages TECHNICAL MANUAL VOLUME NO 2 969 pages TECHNICAL MANUAL VOLUME NO 1 908 pages OPERATOR S MANUAL TRUCK UTILITY SHELTER CARRIER 4X4 M1113 286 pages TECHNICAL MANUAL TRUCK UTILITY 5250 SHELTER CARRIER 4X4 M1113 Volume No 2 1276 pages TECHNICAL MANUAL TRUCK UTILITY 5250 SHELTER CARRIER 4X4 M1113 Volume No 1 1206 pages TECHNICAL MANUAL 4X4 M1113 879 pages LUBRICATION ORDER 1 1 4 TON 4X4 M998 M1038 M966 M1036 M1045 M1046 M1025 M1026 M1043 M1044 M1037 M1042 M996 M997 M1035 14 pages **Operator's, Organizational, Direct Support, and General Support Maintenance Manual (including Repair Parts Information and Supplemental Maintenance and Repair Parts Instructions) for Compactor, High Speed, Tamping Self-propelled (CCE) BOMAG Model K300 NSN 3895-01-024-4064 ,1982** *Operator's, Organizational, Direct Support and General Support Maintenance Manual for Road Equipment, Roller, Towed, Smooth Drum, Vibratory, Air Mobile, Single Drum Rumbler SM54A, NSN 3895-01-193-4078 ,1987* **Operator's, Organizational, Direct Support and General Support Maintenance Manual ,1987** Boating ,1962-01 *Operator, Organizational, Direct and General Support, and Depot Maintenance Manual ,1991* *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1991 **Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator, Repair And Parts Manuals** , Over 36 000 total pages Just a SAMPLE of the CONTENTS by File Number and TM Number 013511 TM 5 6115 323 24P 4 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 1 5 K SINGLE PHASE AC 120 240 V 28 VDC LESS ENGINE DOD MODELS MEP 015A 60 HZ NSN 6115 00 889 1446 AND DOD MODEL MEP 025A 28 VDC 6115 00 017 8236 TO 35C2 3 385 4 SL 4 07609A 07610A 013519 TM 5 6115 329 25P 1

GENERATOR SET GASOLINE ENGINE DR LESS ENGINE 0 5 KW AC 120 240 V 60 HZ 1 PHASE DOD MODEL FSN 6115 923 4469 400 HZ MODEL MEP 019A 6115 940 7862 AN DC MODEL MEP 024A 6115 940 7867 TO 35C2 3 440 14 013537 TM 5 6115 457 12 7 GENERATOR SET ENGINE DRIVEN TACTICAL SKID MTD 100 KW 3 PHASE 4 WIRE 120 240 416 V DOD MODELS MEP 007A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 H 6115 00 133 9102 MODEL MEP 116A PRECISE CLASS 400 KW 6115 00 133 9103 INCLUDING OPTIONAL KITS MODEL MEP 007 AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP 007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MODEL MEP 007A DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP 007AWM WHEEL 013538 TM 5 6115 457 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID 100 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODELS MEP0 UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP106A CLASS 50 60 HZ 6115 00 133 9102 AND MODEL MEP116A PRECISE 400 HZ 6115 00 133 9103 INCLUDING OPTIONAL KITS DOD MODELS MEP007AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MOD MEP007ALM DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP007A MOUNTING KIT 6 013540 TM 5 6115 458 24P 9 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 2 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD MODELS MEP009A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9104 AND MODEL MEP108A PRECISE CLASS 50 60 HZ 6115 00 935 8729 INCLUDING OPTIONAL K DOD MODELS MEP009AWF WINTERIZATION KIT FUEL BURNING 6115 00 403 3761 MODEL MEP009AWE WINTERIZATION KIT ELECTRIC 6115 00 489 7285 013545 TM 5 6115 465 12 19 GENERATOR DIESEL ENGINE DRIVEN TACTICAL SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODEL MEP 005A UTILITY CLASS 50 6 NSN 6115 00 118 1240 MODEL MEP 104A PRECISE CLASS 50 60 6115 00 118 1247 MODEL MEP 114A PRECISE CLASS 400 HZ 6115 00 118 1248 INCLUDING AUXILIARY EQUIPMENT DOD MODEL MEP WINTERIZATION KIT FUEL BURNING 6115 00 463 9083 MODEL MEP WINTERIZATION KIT ELECTRIC 6115 00 463 9085 MODEL MEP 005A LOAD BANK KIT 6115 00 463 9088 AND MODEL MEP 005AWM WH 013547 TM 5 6115 465 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTIC SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MO MEP 005A UTILITY 50 60 HZ NSN 6115 00 118 1240 MODEL MEP 104A PRECISE 50 60 HZ 6115 00 118 1247 MODEL MEP 114 PRECISE 50 60 HZ 6115 00 118 1248 INCLUDING OPTIONAL KITS MODEL MEP 005AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 MODEL MEP 005AWE WINTERIZATION KIT ELECTRIC 6115 00 463 908 MODEL MEP 005ALM LOAD BANK KIT 6115 00 463 9088 MODEL MEP WHEEL MOUNTING KIT 6115 00 013548 TM 5 6115 545 12 18 GENERATOR DIESEL ENGINE DRIVEN TACTICAL SKID MTD 60 KW 3 PHASE 4 WIR 120 208 AND 240 416 VOLTS DOD MODEL MEP 006A UTILITY CLASS 5 NSN 6115 00 118 1243 DOD MODEL MEP 105A PRECISE CLASS 50 60 6115 00 118 1252 DOD MODEL MEP 115A PRECISE CLASS 400 HZ 6115 00 118 1253 INCLUDING OPTIONAL KITS DOD MODEL MEP006AWF WINTERIZATION KIT FUEL BURNING 6115 00 407 8314 DOD MODEL MEP006AWE WINTERIZATION KIT

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GENERATOR SET DIESEL ENGINE DRIVEN 100 KW 3 PHASE 4 WIRE 120 208 AND VOLTS DOD MODEL MEP 007B
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2400 4160 AND 2200 3800 VOLTS DOD MOD MEP208A CLASS PRIME UTILITY HZ 50 60 NSN 6115 00 450 5881 LI 6115

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GENERATOR S DIESEL ENGINE DRIVEN TACTICAL SKID MTD 15KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD
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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
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