

AT-Series Alternator Cooling on Late-Model Yanmar Engines

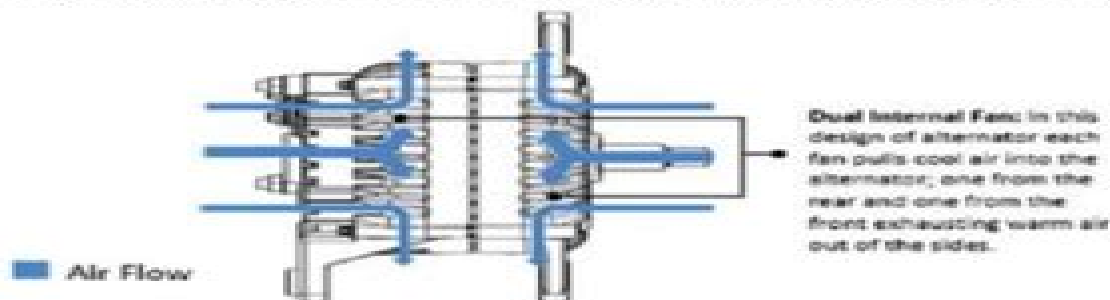
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Introduction

Balmar's AT-Series alternators produce a very high amperage at low engine RPMs. However the AT-Series design tends to run a little hot, especially on some Yanmar engines where the alternator is mounted near the heat exchanger. In addition, many late model Yanmar engines employ a protective shroud over the belt and pulley mechanisms to protect users against potential pinch points. The shroud tends to limit air flow to the alternator which is critical for proper cooling. The pictures below illustrates this problem.

**Model 4JH57****Model 3JH5E****Background Information**

Balmar AT-Series and 6-Series alternators are equipped with dual internal fans that draw cool air from both ends and force it out the vent holes in the middle of the case.



Dual Internal Fans in this design of alternator each fan pulls cool air into the alternator; one from the rear and one from the front exhausting warm air out of the sides.

Yanmar 3 Cylinder Diesel Engine Manual

Yanmar



Yanmar 3 Cylinder Diesel Engine Manual:

AC Maintenance & Repair Manual for Diesel Engines Jean Luc Pallas, 2013-08-22 The aim of this book with its detailed step by step colour photographs and diagrams is to enable every owner to fix their diesel engine with ease Troubleshooting tables help diagnose potential problems and there is advice on regular maintenance and winterising and repair Jean Luc Pallas s enthusiasm for passing on his knowledge as well as his clear explanations precise advice and step by step instructions make this a unique book Yanmar Marine Diesel Engine 1GM10, 2GM20, 3GM30, 3HM35 N N, 2012-05 Complete Service Handbook and Workshop Manual for the Yanmar Marine Diesel Engines 1GM10 2GM20 3GM30 and 3HM35 Yanmar Marine Diesel Engine 2td, 3td, 4td Yanmar, 2013-02 Reprint of the official service manual for Yanmar marine diesel engines 2TD 3TD and 4TD **Yanmar Marine Diesel Engine 2tm, 3tm, 4tm** Yanmar, 2013-02 Reprint of the official service manual for Yanmar marine diesel engines 2TM 3TM and 4TM , Yanmar Marine Diesel Engine 3YM30/3YM20/2YM15 N N, 2012-05 Complete Service Handbook and Workshop Manual for the Yanmar Marine Diesel Engines 3YM30 3YM20 and 2YM15 **Yanmar Marine Diesel Engine 2qm15** Yanmar, 2013-02 Reprint of the official service manual for Yanmar marine diesel engine 2QM15 **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 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

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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

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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
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GENERATOR SET SKID MOUNTED TACTICAL QUIET 5 KW 60 AND 400 HZ MEP 802A TACTICAL QUIET 60 HZ NSN 6115
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AND 400 HZ MEP 802A AND MEP 812A 071037 TB 9 6115 642 24 WARRANTY PROGRAM FOR GENERATOR SET
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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
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