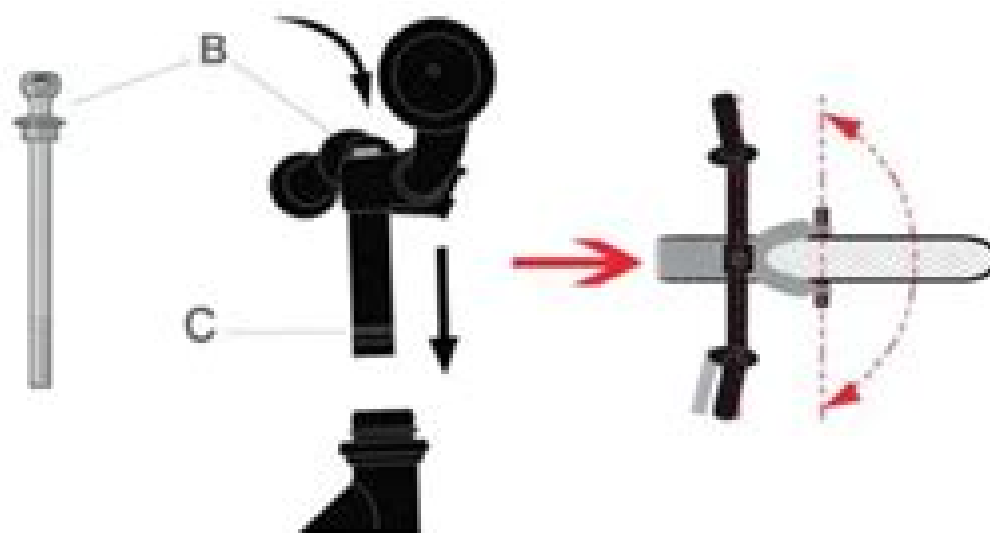


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# Air Balance Manual

**United States. Federal Aviation  
Administration**



## **Air Balance Manual:**

Testing and Balancing HVAC Air and Water Systems Samuel C. Sugarman, 2000 This fully revised and updated edition of this classic best selling reference provides all the information you will need to evaluate and balance the air and water sides of any HVAC system The third edition adds new chapters on testing and balancing clean rooms and HVAC system commissioning Every aspect of testing adjusting and balancing is addressed including all types of instruments required and specific methods to adjust constant volume single zone dual duct induction and variable air volume systems Complete details are provided for the full scope of system components including fans pumps motors drives and electricity as well as for balancing devices and instrument usage All needed equations and a variety of useful conversion tables are included

**Handbook of Air Conditioning, Heating, and Ventilating** Eugene Stamper, Richard L. Koral, 1979 This comprehensive and acclaimed volume provides a wealth of practical information on the design installation and operation of air conditioning heating and ventilating systems *HVAC Testing, Adjusting, and Balancing Field Manual* John Gladstone, W. David Bevirt, 1996-12-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Take Advantage of the Latest Guidance on the Hottest Area in HVAC As health problems related to poor indoor air quality become increasingly evident demand for better quality and efficiency in air systems is skyrocketing making HVAC testing adjusting and balancing TAB the fastest growing HVAC discipline Here is a practical nuts and bolts manual devoted to this specialty now revised and updated with new information about such vital topics as Indoor air quality Energy recovery systems Fan surge Duct leakage System performance Temperature control verification And more You'll also find new chapters on systems balancing controls clean rooms sound vibration and solutions to TAB problems as well as a chapter with a model standard for TAB cost estimating Sponsored by the National Environmental Balancing Bureau the book's clear step by step explanations will help you understand and meet requirements for testing measuring adjusting balancing troubleshooting and cost estimating TAB function for tall buildings restaurants hospitals and other institutional settings **ASHRAE Handbook**, 1987 Testing and Balancing HVAC Air and Water Systems, Fifth Edition Samuel C. Sugarman, 2020-11-26 Thoroughly revised this book provides the reader with an understanding of the principles and practices of testing and balancing TAB heating ventilating and air conditioning HVAC air and water systems For the novice and the experienced testing and balancing technician it is a field reference book of procedures equations and information tables Divided into five parts Part I has general and specific balancing procedures for constant air volume systems variable air volume systems return air systems and fans and fan performance Part II covers testing and balancing fume hood systems and cleanrooms commissioning HVAC systems centrifugal pumps and pump performance analog and digital controls and water balancing procedures using flow meters system components and temperatures Part III covers fans pumps air distribution water distribution motors electrical fluid

flow psychrometrics refrigeration and instrument usage and care Part IV includes equations and tables New to this edition Part V has information and additional test and balance procedures and graphics for chapters 1 7 and 13 14 TAB Data and Test forms are in the new addendum as well Provides the readers with revised information about the principles and practices of testing and balancing TAB heating Represents a field reference guide for both the novice and experienced testing and balancing technician Includes a new section with information and additional test and balance procedures and graphics

**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  
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BURNING 6115 00 463 MODEL MEP 005AWE WINTERIZATION KIT ELECTRIC 6115 00 463 908 MODEL MEP 005ALM  
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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  
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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  
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206 AND 240 416 V DOD MODEL MEP 055A UT CLASS 50 60 HZ NSN 6115 00 118 1240 MODEL MEP 104A PRECI CLASS  
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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 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 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 4 WIRE 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

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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  
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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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628 24P SL 4 07464B 057268 LO 5 6115 600 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 100 KW  
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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  
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SELF PROPELLED TOWA AC 400HZ 3PH 0 8 PF 115 200V 30 KW DC 28VDC 700 AMPS PNEUMATIC 60 LBS MIN AT 40  
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200V 30 KW DC 28 VDC 700 AMPS PNEUMATIC 60 LBS M AT 40 PSIG HYDRAULIC 15 GPM AT 3300 PSIG DOD MODEL  
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208 AND 240 416 VOLTS MODEL MEP009B UTILI 50 60 HERTZ NSN 6115 01 021 4096 061772 LO 5 6115 622 12  
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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  
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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



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SETS 2 M200A1 2 WHEEL 4 TIRE MODIFIED TRAILERS 066809 TM 5 6115 630 14 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 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  
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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  
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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  
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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  
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