

---

TECHNICAL MANUAL

UNIT, INTERMEDIATE (FIELD)  
(DIRECT SUPPORT AND GENERAL SUPPORT)  
AND DEPOT MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LIST  
GENERATOR SET, DIESEL ENGINE DRIVEN,  
TACTICAL SKID MTD. 15KW, 3 PHASE,  
4 WIRE, 120/208 AND 240/416 VOLTS

DOD MODEL	CLASS	HERT	NSN
MEP-004A	UTILITY	50/60	6115-00-118-1241
MEP-103A	PRECISE	50/60	6115-00-118-1245
MEP-113A	PRECISE	400	6115-00-118-1244

INCLUDING OPTIONAL KITS

DOD MODEL	NOMENCLATURE	NSN
MEP-005-AWF	WINTERIZATION KIT, FUEL BURNING	6115-00-463-9083
MEP-005-AWE	WINTERIZATION KIT, ELECTRIC	6615-00-463-9085
MEP-004-ALM	LOAD BANK KIT	6115-00-191-9201
MEP-005-AWM	WHEEL MOUNTING KIT	6115-00-463-9094
	APPLICATIONS KIT	6115-01-096-9015

Approved for public release; distribution is unlimited

\* This manual supersedes TM 5-6115-464-24P/TO 35C2-3-445-4/NAVFAC P-8-624-24P/SL4-07523A,  
dated 3 September 1982

---

HEADQUARTERS, DEPARTMENTS OF THE ARMY, AIR FORCE AND NAVY

9 JULY 1992

TABLE OF CONTENTS

	Listing Page	Illus Figure
SECTION I. INTRODUCTION . . . . .	1	
II. REPAIR PARTS LIST . . . . .	11	
Group 01. Batteries and Related Items		
Batteries and Related Items . . . . .	11	1
02. Exhaust and Breather Pipes		
Exhaust Pipe, Muffler and Breather Tube . . . . .	15	2
03. Convenience Receptacles		
Convenience Receptacles . . . . .	17	3
04. Convenience Receptacles 400 HZ		
Paralleling and Convenience Receptacles Wiring Harness . . . . .	19	4
05. Plate and Sleeve Assembly		
Plate and Sleeve Assembly . . . . .	21	5
06. Paralleling Receptacles		
Shorting Plug . . . . .	23	6
07. Generator Set Controls		
Fault Locating Indicator and DC Circuit Breaker . . . . .	25	7
Control Cubicle Assembly and Manual Speed Control . . . . .	31	8
Control Cubicle Branched Wiring Harness . . . . .	39	9
AC Power Control Wiring Harness . . . . .	41	10
Fault Locating Indicator To Special Relay Wiring Harness . . . . .	43	11
RFI Capacitors Wiring Harness . . . . .	45	12
08. Housing Group		
Housing Assembly . . . . .	47	13
Cord and Wrench Assembly . . . . .	55	14
09. Wiring Harnesses		
Engine Wiring Harness . . . . .	57	15
Governor Control Unit To Hydraulic Actuator Unit Wiring Harness . . . . .	61	16
(Electro-Hydraulic Governor Equipped Precise Sets Only)		
Electric Governor System Wiring Harness . . . . .	63	17
(Electric Governor Equipped 400 Hz Sets Only)		
10. Load Connection Group		
Main Load Contactor . . . . .	69	18
Main Load Contactor . . . . .	77	19
Reconnection Board To Contactor Wiring Harness . . . . .	83	20
Reconnection Board . . . . .	85	21
11. Governor Control Unit		
Electro-Hydraulic Control Unit . . . . .	93	22
Electric Governor Control Unit and Magnetic Pickup (400 Hz Sets Only) . . . . .	101	23
Electric Actuator Unit (400 Hz Sets Only) . . . . .	103	24
12. Air Cleaner Assembly		
Air Cleaner . . . . .	105	25
13. Relay Table Group		
Tactical Relay . . . . .	109	26
Tactical Relay To Special Relay Wiring Harness . . . . .	113	27
Special Relay . . . . .	117	28
Special Relay To Precise Relay Wiring Harness . . . . .	123	29
Special Relay To Static Exciter Wiring Harness . . . . .	125	30
Special Relay To Control Cubicle Wiring Harness . . . . .	127	31
Precise Relay . . . . .	131	32
Precise Relay To Governor Control Unit Wiring Harness . . . . .	135	33
Static Exciter and Voltage Regulator . . . . .	141	34
Exciter Control Wiring Harness . . . . .	151	35
Load Measuring Unit . . . . .	153	36
Load Measuring Unit To Tactical Relay Assembly Wiring Harness . . . . .	157	37
Relay Tables . . . . .	159	38

**TABLE OF CONTENTS (Continued)**

		Listing Page	Illus Figure
GROUP 14.	Generator Assembly		
	Generator Assembly . . . . .	163	39
	Blower and Coupling Disc . . . . .	167	40
	Bearing Assembly . . . . .	169	41
	Lead Block Assembly . . . . .	171	42
	Bracket Assembly . . . . .	173	43
	50/60HZ Stator Assembly . . . . .	175	43
	400HZ Stator Assembly . . . . .	177	45
	50/60HZ Rotor Assembly . . . . .	179	46
	400HZ Rotor Assembly . . . . .	183	47
15.	Day Tank and Fuel Fitter Assembly		
	Day Tank and Ether Starting Aid . . . . .	187	48
	Primary Fuel Fitter and Strainer . . . . .	191	49
	Secondary Fuel Filter. . . . .	195	50
16.	Center Support		
	Center Support and Fuel Pumps. . . . .	197	51
17.	Cooling Group		
	Radiator and Shutter Assembly. . . . .	201	52
	Fan Guards. . . . .	207	53
18.	Hydraulic Actuator		
	Hydraulic Actuator Unit (Electro-Hydraulic Governor Equipped Precise Sets Only). . . . .	209	54
19.	Hydraulic Sump and Filter		
	Hydraulic Lines and Fittings (Electro-Hydraulic Governor Equipped Precise Sets Only). . . . .	215	55
	Hydraulic Sump and Filter (Electro-Hydraulic Governor Equipped Precise Sets Only). . . . .	219	56
20.	Engine Assembly		
	Battery Charging Alternator . . . . .	221	57
	Hydraulic Pump (Electro-Hydraulic Governor Equipped Precise Sets Only). . . . .	225	58
	Speed Switch . . . . .	229	59
	Speed Switch . . . . .	231	60
	Oil Filter, Sensors, Hose and Fittings . . . . .	233	61
	Starter Assembly . . . . .	237	62
	Starter Assembly . . . . .	243	63
	Fuel Injection System . . . . .	249	64
	Fuel Injector Assembly . . . . .	253	65
	Fuel Injection Pump. . . . .	255	66
	Fuel Injection Pump Linkage and Control . . . . .	257	67
	Fuel Injection Pump End Plate and Blades . . . . .	261	68
	Fuel Injection Pump, Pivot Shaft and Arm Assembly . . . . .	265	69
	Fuel Injection Pump Piston and Damper Spring . . . . .	269	70
	Fuel Injection Pump Rotor Assembly . . . . .	271	71
	Fuel Injection Pump Housing and Drive Shaft . . . . .	275	72
	Fan and Water Pump Assembly . . . . .	277	73
	Coolant Thermostat and Sensors . . . . .	281	74
	Intake and Exhaust Manifolds . . . . .	283	75
	Cylinder Head, Cover, and Valve Operating Mechanism . . . . .	285	76
	Oil Pan and Oil Pump . . . . .	289	77
	Flywheel, Ring Gear and Housing . . . . .	293	78
	Gear Case and Timing Gears . . . . .	295	79
	Piston, Connecting Rod, Crankshaft Pulley, and Front Support. . . . .	299	80
	Camshaft, Timing Gear and Bearings . . . . .	303	81
	Cylinder Block Assembly . . . . .	305	82

TABLE OF CONTENTS (Continued)

		Listing Page	Illus Figure
GROUP	21. Base Group Fuel Tank, Skid Base and Oil Drain Assembly. . . . .	309	83
	Fuel Lines and Fittings. . . . .	313	84
	Fuel Vent Lines . . . . .	317	85
	22. Accessory Items		
	Accessory Items . . . . .	319	86
	23. Parts Kits . . . . .	323	
	24. Winterization Kit, Fuel Burning		
	Fuel Burning Winterization Kit . . . . .	327	87
	Engine Heater Control Box . . . . .	331	88
	Engine Heater . . . . .	333	89
	Fuel Burning Winterization Kit Wiring Harness . . . . .	339	90
	25. Winterization Kit, Electric		
	Electric Winterization Kit . . . . .	341	91
	Electric Heater Control Box . . . . .	345	92
	Electric Heater Control Box Wiring Harness . . . . .	349	93
	Electric Winterization Kit Wiring Harness . . . . .	351	94
	Control Box To Special Relay Box Wiring Harness . . . . .	353	95
	26. Kit-Wheel Mounting		
	Wheel Mounting Kit . . . . .	355	96
	27. Load Bank		
	Load Bank Kit . . . . .	361	97
	Load Bank Control Box . . . . .	365	98
	Load Bank Power Wiring Harness . . . . .	369	99
	Load Bank Signal Wiring Harness . . . . .	371	100
	Control Box Wiring Harness . . . . .	373	101
	Bottom Load Bank Wiring Harness . . . . .	375	102
	Load Bank Wiring Harness . . . . .	377	103
	Top Load Bank Wiring Harness . . . . .	379	104
	28. Kit Applications		
	Connector Plate Assembly and Cover Plate Assembly . . . . .	383	105
	Wiring Harness . . . . .	383	106
	Cable Harness Assembly . . . . .	387	107
	Electromagnetic Shielding . . . . .	389	108
Section	III. SPECIAL TOOLS LIST (Not Applicable)		
	IV. NATIONAL STOCK NUMBER AND REFERENCE NUMBER INDEX . . . . .		391

## SECTION I INTRODUCTION

---

### 1. Scope

This joint Army, Navy, and Air Force manual lists repair parts and special tools required for the performance of unit, intermediate (field), direct and general support and depot maintenance of the generator set. The following paragraphs are keyed to applicable users. All users should read paragraph 4, Special Information, prior to using this manual.

### 2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. (ALL) Repair Parts-Section II. A list of repair parts authorized for the performance of maintenance at the organizational, intermediate (field), direct support, general support and depot level in figure and item number sequence.

b. (ALL) Special Tools, Test and Support Equipment-Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational, intermediate (field), direct support, general support and depot level (Not applicable).

c. National Stock Number and Reference Number Index-Section IV, A list of National Stock Numbers in numerical sequence, followed by a list of reference numbers appearing in all the listings, in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

### 3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in Sections II and III.

a. (ALL) Illustration. (Column 1.) This column is divided as follows:

(1) Figure number. (Column 1a) indicates the figure number of the illustration on which the item is shown.

(2) Item number. (Column 1b) indicates the number used to identify the item on the illustration.

b. (ALL) Source, Maintenance, and Recoverability Codes (SMR), (Column 2).

(1) Uniform Source Codes applicable to all Military Services. GENERAL: Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows: