This copy is a reprint which includes current pages from Changes 1 through 6.

AIR FORCE	T.O.35C2-3-443-2
ARMY	TM 5-6115-458-34
NAVY	NAVFAC-P-8-629-34
MARINES CORPS	TM-07536A-35

TECHNICAL MANUAL
INTERMEDIATE (FIELD)
(DIRECT AND GENERAL SUPPORT)
AND DEPOT LEVEL MAINTENANCE

GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL
SKID MTD., 200 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS

DOD MODELS	CLASS	HERTZ	FSN
MEPOO9A	UTILITY	50/60	6115-133- 9104
MEP108A	PRECISE	50/60	6115- 935-8729

INCLUDING OPTIONAL KITS

DOD MODELS	NOMENCLATURE	FSN
MEPOO9AWF	WINTERIZATION KIT, FUEL BURNING	6115- 403-3761
MEP009AWE	WINTERIZATION KIT, ELECTRIC	6115 489- 7285
MEPOO9ALM	DUMMY LOAD KIT	6115- 403-3762

Consolidated Diesel Electric Company
Contract Number FO04606-70-D-0192

Published under authority of the
Departments of the Air Force, the Army, and the Navy
(Including U.S. Marine Corps) **15 JAN 1974**

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

LIST OF ILLUSTRATIONS

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

LIST OF TABLES

LIST OF TABLES (Continued)

SAFETY PRECAUTIONS

BEFORE OPERATION

Do not operate the generator set in an enclosed area unless the exhaust gases are piped to the outside. Inhalation of exhaust fumes may result in death or serious illness.

Do not smoke or use an open flame in the vicinity of batteries when servicing. Batteries generate hydrogen, a highly explosive gas. When removing batteries, remove both negative cables before removing positive cables.

Do not operate the generator set unless the ground terminal stud has been connected to a suitable ground. Electrical faults in the generator set, load lines, or load equipment can cause death by electrocution from contact with an ungrounded system.

When filling fuel tank, always provide metal-to-metal contact between container nozzle and fuel tank to prevent sparks from static electricity.

Do not use a lifting device with a capacity of less than 15, 000 pounds. Do not allow the generator set to swing while it is suspended. Failure to observe this warning may result in death or serious injury to personnel.

Before making connections for parallel operation, make sure the generator sets are not operating and that all switches are off. Electrical faults in the generator set, load lines, and load equipment can cause death by electrocution.

DURING OPERATION

Do not attempt to change a load connection or perform maintenance on the generator set while it is in operation. Always make sure generator set is not connected to an energized line before performing maintenance. The power generated by this equipment can cause death by electrocution.

Under no circumstance should any person service, adjust or perform maintenance on high voltage equipment without the presence of someone who is capable of rendering aid.

AFTER OPERATION

Do not smoke or use an open flame in the vicinity of batteries when servicing. Batteries generate hydrogen, a highly explosive gas.

Do not allow the generator set to swing ’ while it is suspended. Failure to observe this warning may result in death or serious injury to personnel.

If radiator cap must be removed while coolant is hot, then remove slowly with caution as hot coolant may escape causing severe burns.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. **SCOPE.**

a. This manual contains instructions for the use of intermediate (field) (direct and general support) and depot maintenance personnel maintaining the 200 KW Diesel Engine Generator Set, Models MEP009A and MEP108A. It provides information on the maintenance of equipment which is beyond the scope of the tools, equipment, personnel, or supplies normally available to operator and organizational level of maintenance. This manual is to be used in conjunction with the Operator and Organizational Maintenance Manual.

b. THIS TECHNICAL MANUAL IS USED BY THE ARMY, AIR FORCE, NAVY, AND MARINE CORPS. THE USE OF FORMS AND COMPLIANCE WITH DIRECTIVES AS STATED HEREIN WILL BE ACCOMPLISHED ONLY BY PERSONNEL OF THE SERVICE TO WHICH THEY APPLY.

1-2. **FORMS AND RECORDS**.

a. Forms and Records used by the Army will be only those prescribed by TM38-750. Those used by the Marine Corps will be those prescribed by TM4700-15/1. Other service users should refer to appropriate specifications/publications for equipment maintenance forms and records.

b. Report of errors, omissions, and recommendations for improvement of this publication by the individual users is encouraged. Reports should be submitted as follows:

1. Air Force AFTO Form 22 in accordance with T.O. 00-5-1 and direct to Commander, Sacramento Air Logistics Center, ATTN: MMEDT, McClellan AFB, California 95652.

2. Army DA Form 2028 direct to: Commanding General, U. S. Army Troop Support and Aviation Materiel Readiness Command, Attention: DRSTS MTP, St. Louis, Missouri 63120.

3. Marine Corps by letter direct to: Commandant, U.S. Marine Corps, ATTN: Code LME, Washington, D.C. 20380.

4. Navy by letter direct to: Commanding Officer, U.S. Navy Ships Parts Control Center, ATTN: Code 783, Mechanicsburg, Pennsylvania 17055.

Section II. DESCRIPTION AND DATA

1-3. **DESCRIPTION.**

A general description of the generator sets and information pertaining to the identification plates are contained in the Operator and Organizational Maintenance Manual. A more detailed description of specific components and assemblies is contained in the applicable section(s) of this manual. Detailed descriptions of the components of the generator set are provided in the applicable maintenance paragraphs of this manual.

1-4. **TABULATED DATA.**

This paragraph contains all maintenance data pertinent to intermediate (field) (direct and general support) and depot maintenance personnel.

a. GENERATOR SET MANUFACTURER: Consolidated Diesel Electric Company, Old Greenwich, Connecticut

Model	Mode	Class
MEP009A	50/60 Hertz	Utility
MEP108A	50/60 Hertz	Precise

Operating temperature range:

without external heat	+ 125 °F to -25° F
with external heat	+ 1250 F to -65° F

Voltage Output	120/208 volts and 240/416 volts, 3 phase 4 wire, WYE connected at recon-nection terminals.
Power Factor	0.8

Capacities:

Fuel System	200 gallons
Cooling System	24.25 gallons
Hydraulic System (precise generator sets only)	6.5 quarts

Dimensions and Weights:

Overall Length	114 inches
Overall Width	50 inches
Overall Height	75 inches
Net Weight Empty	10, 500 pounds
Net Weight Filled	12, 594 pounds
Shipping Weight	11, 300 pounds

b. SAFETY DEVICES.

1. Overspeed Switch.

DOD Drawing Number	70-4058
Manufacturer Skokie, Illinois 60076	Synchro - Start Products, Inc.
Type	Centrifugal, 3-element
Model Number	GO-3MA