DEPARTMENT OF THE ARMY TM 5-611 5-275-1 4
TECHNICAL MANUAL
DEPARTMENT OF THE NAVY NAVFAC P-8-61 5-14
PUBLICATION
DEPARTMENT OF THE AIR FORCE TO 35C2-3-452-1
TECHNICAL ORDERS

TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, INTERMEDIATE (FIELD), (DIRECT SUPPORT AND GENERAL SUPPORT), AND DEPOT MAINTENANCE MANUAL

GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 10 KW, AC, 120/208 V, 3 PHASE: AND 120/240 V SINGLE PHASE - LESS ENGINE

DOD MODEL	HERTZ	NSN
MEP-01 8A	60	6115-00-889-1447
MEP-023A	400	6115-00-926-0843

This copy is a reprint which includes current pages from Changes 1 through 3.

HEADQUARTERS, DEPARTMENTS OF THE ARMY, THE NAVY AND THE AIR FORCE
JUNE 1977

DEPARTMENT OF THE ARMY TECHNICAL MANUAL **TM 5-6115-275-14**
DEPARTMENT OF THE NAVY PUBLICATION **NAVFAC P-8-615-14**
DEPARTMENT OF THE AIR FORCE TECHNICAL ORDER **TO 35C2-452-1**

HEADQUARTERS
DEPARTMENTS OF THE ARMY, NAVY and AIR FORCE
WASHINGTON, D. C. ***16 June 1977***

OPERATOR, ORGANIZATIONAL, INTERMEDIATE
(FIELD), (DIRECT SUPPORT AND GENERAL SUPPORT),
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GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 10 KW, AC, 120/208 V, 3 PHASE: AND 120/240 V SINGLE PHASE - LESS ENGINE

DOD MODEL	*HERTZ*	*NSN*
MEP-018A	**60**	**6115-00-889-1447**
MEP-023A	**400**	**6155-00-926-0843**

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* TM 5-6115-275-14 supersedes TM 5-6115-275-15 dated 3 July1969 and TM 5-6115-450-15 dated 28 March 1968 and all change

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual is for your use in operating and maintaining the generator set, Models MEP-018A and MEP-023A.

1-2. Limited Applicability

Some portions of this publication are not applicable to all services. These portions are prefixed to indicate the services to which they pertain: (A) for Army, (F) for Air Force and (N) for Navy. Portions not prefixed are applicable to both services.

1-3. Maintenance Forms and Records

a. (A) Maintenance forms and records used by Army personnel are prescribed by DA PAM 738-750.

b. (F)Maintenance forms and records used by Air Force personnel are prescribed in AFM-66-1 and the applicable 00-20 Sees Technical Orders.

c. (N) Navy users should refer to their service peculiar directives to determine applicable maintenance forms and records to be used.

1-4. Reporting of Errors

Report of error, omissions, and recommendations for improvement this publication by the individual user is encouraged. Response should be submitted as follows:

a. (A) Army-DA Form 2028 (Recommended Changes to Publications, and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>.A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

b. (F) Air Force-AFTO Form 22 directly to: Commander Sacramento Air Logistics Center, ATTN: SM-ALC-MMEDTA, McClellan Air Force Base, CA 95652-5609, in accordance with TO-00-5-1.

c. (N) Navy - by letter direly to: Commanding Officer, Naval Construction Battalion ion Center, ATTN: Code 15741, Bldg. 43, Port Huenme, CA 93043-5000.

d. Applicable Army forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card) which is carried by the operator, shall be kept in manual compartment mounted on equipment.

1-5. Levels of Maintenance Accomplishment

a. (A) Users shall refer to the Maintenance Allocation Chart (MAC) for tasks and levels of maintenance to be performed.

b. (F) Air Force uses shall accomplish maintenance at the user level consistent with their capacity in accordance with policies established in AFM 66-1.

c. (N) Navy users shall determine their maintenance levels in accordance with their service directives.

1-6. Demolition of Material to Prevent Enemy Use

(A) Refer to TM 750-244-3 for information and guidance pertaining to destruction of Army materiel to prevent enemy use.

1-7. Administrative Storage (A.F)

a. Army Users:

(1) Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exits. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

(2) Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWOs) should be applied.

(3) Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers may be used.

b. Air Force users refer to TO 35-1-4, Processing and Inspection of Aerospace Ground Equipment for Storage and Shipment, for instructions relative to administrative storage.

1-8. Preparation for Shipment and Storage

a. (A) Army - Refer to TB 740-97-2 and TM 740-90-1.

b. (Air Force - Refer to TO35-1-4 for end item generator sets and TO 38-1-5 for installed engine.

c. (N) Navy and Marine Corps-Refer to individual service directives.

Section II. DESCRIPTION AND TABULATED DATA

1-9. Description

a. General The Department of Defense, generator sets, Model MEP-018A (figs. 1-1 and 1-2) and Model MEP-023A (figs. 1-3 and 1-4) are self- contained, skid-mounted, portable units. The set is powered by a 4-cylinde, air-cooled engine that is directly coupled to a 10 kilowatt, alternating cur- rent generator.

b. Engine. The generator is supplied with a Military Standard Engine, Model 4A084-3. It is a four cylinder engine capable of delivering 20 net continuous horse power at 3,600 rpm (revolutions per minute). It is equipped with a 10 amp (ampere), 24-volt, ac alternator, regulating type rectifier, and 24-volt dc starter with an electrically operated solenoid. The carburetor is a side-draft with an automatic choke. It is a 4-cycle, horizontally opposed, valve-in-head gasoline engine capable of satisfactory performance in all types of environments. It is designed to operate a minimum of 1,500 hours at rated load and speed before major overhaul. The electrical components of the engine is radio interference suppressed. All accessories of the engine are located so as to provide maximum accessibility.

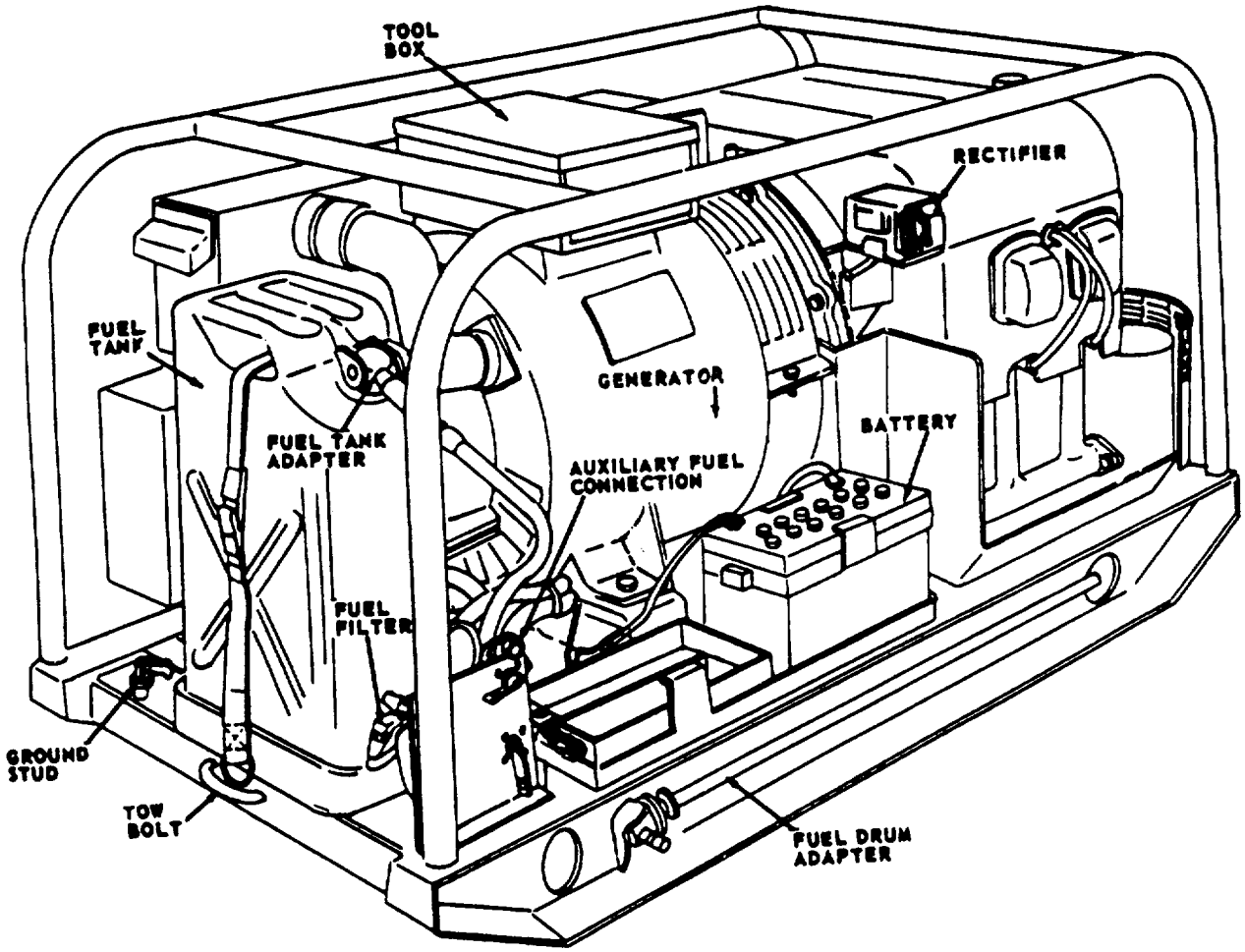

Figure 1-1. Generator set, right rear three-quarter view (all serial Numbers except MA68-0001 through MA68-2967) (Model MEP-018A) (sheet 1 of 2).