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MARINE CORPS TM 6115-12/7
AIR FORCE TO 35C2-3-471-1
NAVY AG-320B0-OMM-000

OPERATOR'S AND UNIT
MAINTENANCE MANUAL

**GAS TURBINE ENGINE DRIVEN
AVIATION GENERATOR SET,
NSN 6115-01-161-3992**

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HEADQUARTERS,
DEPARTMENTS OF THE ARMY AND NAVY
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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help Improve this manual If you find any mistakes, or if you know of a way to improve these procedures, please let us know Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN. AMSAT-I-MP, 4300 Goodfellow Blvd, St Louis, MO 63120-1798 You may also submit your recommended changes by E-mail directly to <mpmt/oavma28@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.

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CHAPTER 1

INTRODUCTION

SECTION I. GENERAL

1-1. SCOPE. This manual is for your use in with the 10kW, 28Vdc, Aviation Generator Set, MEP 362A The type I (tactical), class 1 (precise), mode IV (dc output) set is used where precise power is required. This manual covers operation, lubrication, and maintenance. The maintenance procedures may be performed by the operator/crew and organizational maintenance personnel as determined by the Maintenance Allocation Chart (MAC).

1-2. LIMITED APPLICABILITY. Some portions of this publication are not applicable to all services and are prefixed to indicate the services to which they pertain, (A) Army, and (N) Navy. Portions not prefixed are applicable to all services.

1-3. MAINTENANCE FORMS AND RECORDS.

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

b. (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. Reporting of errors, omissions, and recommendations for improvement of this publication by the individual user is encouraged. Reports 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 directly to Commander, U S Army Aviation and Troop Command, ATTN AMSAT-I-MP, 4300 Goodfellow Boulevard, St Louis, MO 63120-1798. A reply will be furnished directly to you.

b. (N) Navy--by letter, directly to Commanding Officer, Naval Construction Battalion Center, ATTN Code 15741, Port Hueneme, CA 93043-5000.

1-5. (A) REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs). An EIR will be prepared using DA Form 2407, Maintenance Request Instructions for preparing EIRs are provided in DA PAM 738-750. The Army Maintenance Management System (TAMMS) EIRs should be mailed directly to US Army Aviation and Troop Command, ATTN AMSAT-I-MDO, 4300 Goodfellow Boulevard, St Louis, MO 63120-1798. A reply will be furnished directly to you.

1-6. LEVELS OF MAINTENANCE ACCOMPLISHMENT.

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

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

1-7. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. (A) Destruction of materiel to prevent enemy use shall be in accordance with the requirements of TM 750-244-3, Procedures For Destruction of Equipment to Prevent Enemy Use.

1-8. ADMINISTRATIVE STORAGE. (A) for procedures to accomplish storage. Air Force personnel should refer to TO 35-1-4, Processing and Inspection of Aerospace Ground Equipment for Storage and Shipment. Army personnel should refer to TM 740-90-1, Administrative Storage.

1-9. PREPARATION FOR SHIPMENT AND STORAGE.

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

b. (N) Navy. Refer to service directives for requirements.

SECTION II. DESCRIPTION AND DATA

1-10. DESCRIPTION. The MEP 362A Aviation Generator Set (figures 1-1 and 1-2) consists of a generator and gas turbine engine assembly enclosed in an all-weather frame and housing. The frame and housing are mounted on a running gear assembly to facilitate towing and positioning of the generator set. A fuel system consisting of a series of pumps and filters, fuel lines, and a fuel tank pro-

vides a clean, controlled flow of fuel to the turbine engine. A control panel mounted in the control fender contains the controls and indicators to operate the generator set and monitor its systems. A 40-foot power cable connects the generator set to an aircraft. A slave start receptacle is provided for use when normal starting procedures are not possible.

1-2 Change 6

1-10. DESCRIPTION. (cont)

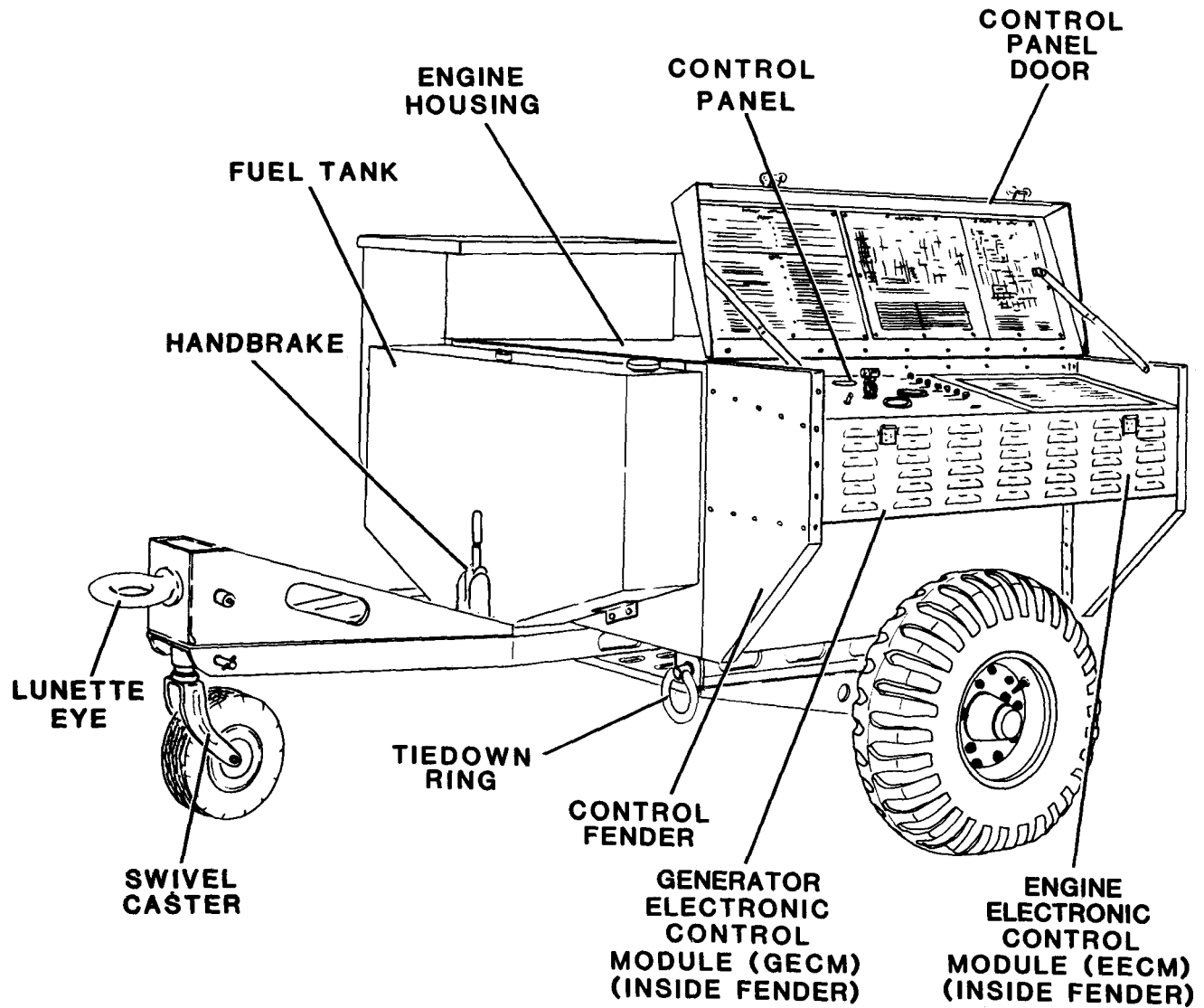


Figure 1-1. Aviation Generator Set, Front 3/4 View