TECHNICAL MANUAL

OPERATOR, UNIT, INTERMEDIATE DIRECT SUPPORT AND INTERMEDIATE GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

POWER PLANT AN/MJQ-12A (NSN 6115-00-257-1602) (2) MEP-006A 60 KW 60 HZ GENERATOR SETS (2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILERS

Approved for public release. Distribution is unlimited.

*This manual supersedes Chapter 11 of TM 5-6115-594-14&P dated 25 September 1984.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 17 June 1988

Operator, Unit, Intermediate Direct Support and
Intermediate General Support Maintenance Manual
(Including Repair Parts and Special Tools Lists)

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AN/MJQ-12A (NSN 6115-00-257-1602)
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(2) M200A1 2-WHEEL, 4TIRE,
MODIFIED TRAILERS

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 <mpmtO/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 operating and maintaining the Power Plant, AN/MJQ-12A. The AN/MJQ-12A is a mobile power plant used to supply power to any system or equipment requiring up to 60 KW of 60 Hz input operating power. In addition to operating instructions and operator, unit, and intermediate direct support and general support maintenance procedures, this manual contains a Repair Parts and Special Tools List for the power plant.

1-2. **Limited Applicability**. Some portions of this publication are not applicable to both services. These portions are prefixed to indicate the service to which they pertain: (A) for Army, and (F) for Air Force. 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 AFM66-1 and the applicable 00-20 Series Technical Orders.

1-4. **Reporting of Errors**. Reporting of errors and 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 directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MT, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798.

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.

1-5. **Reporting Equipment Improvement Recommendations (EIR).** EIR's will be prepared using SF368, Product Quality Deficiency Report. Instructions for preparing EIR's are provided in DA PAM 738-750, The Army Maintenance Management System. EIR's should be mailed directly to: Commander, US Army Aviation and Troop Support Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798.

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

1-7. **Destruction of Army Materiel**. Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

1-8. **Administrative Storage**.

a. Army equipment placed in administrative storage will have preventative maintenance performed in accordance with the PMCS tables before storage. When equipment is removed from storage, PMCS will be performed to ensure operational readiness.

b. (F) For administrative storage procedures for Air Force equipment, refer to TO 35-1-4, Processing and Inspection of Aerospace Ground Equipment for Storage and Shipment.

1-9. **Preparation for Shipment and Storage**.

a. (A) Army - Refer to TB 740-97-2.
b. (F) Air Force - Refer to TO 35-1-4 for component of end item generator sets and TO 38-1-5 for installed engine.

Section II. DESCRIPTION AND DATA

1-10. **Description**. Power Plant AN/MIJQ-12A is made up of two PU-650B/G power units. Each power unit is, in turn, made up of one Tactical Utility Generator Set, DOD Model MEP-006A mounted on a modified M200A1 trailer. These generator sets are liquid-cooled, diesel engine-driven units, each with a load capacity of 60KW at 60 Hz. The trailers are two-wheeled units with dual tires mounted. Each trailer has a 2 1/2 ton carrying capacity. The modifications to the basic trailers provide stowage for the accessories and all equipment necessary for mobile operation as well as providing a work platform for the operator and maintenance personnel. Output from the power plant is applied to the system or equipment being powered through a switch box. The AN/MJQ-12A is supplied with either a 4-wire or a 5-wire configuration switch box. Figures 1-1 and 1-2 illustrate the power plant.

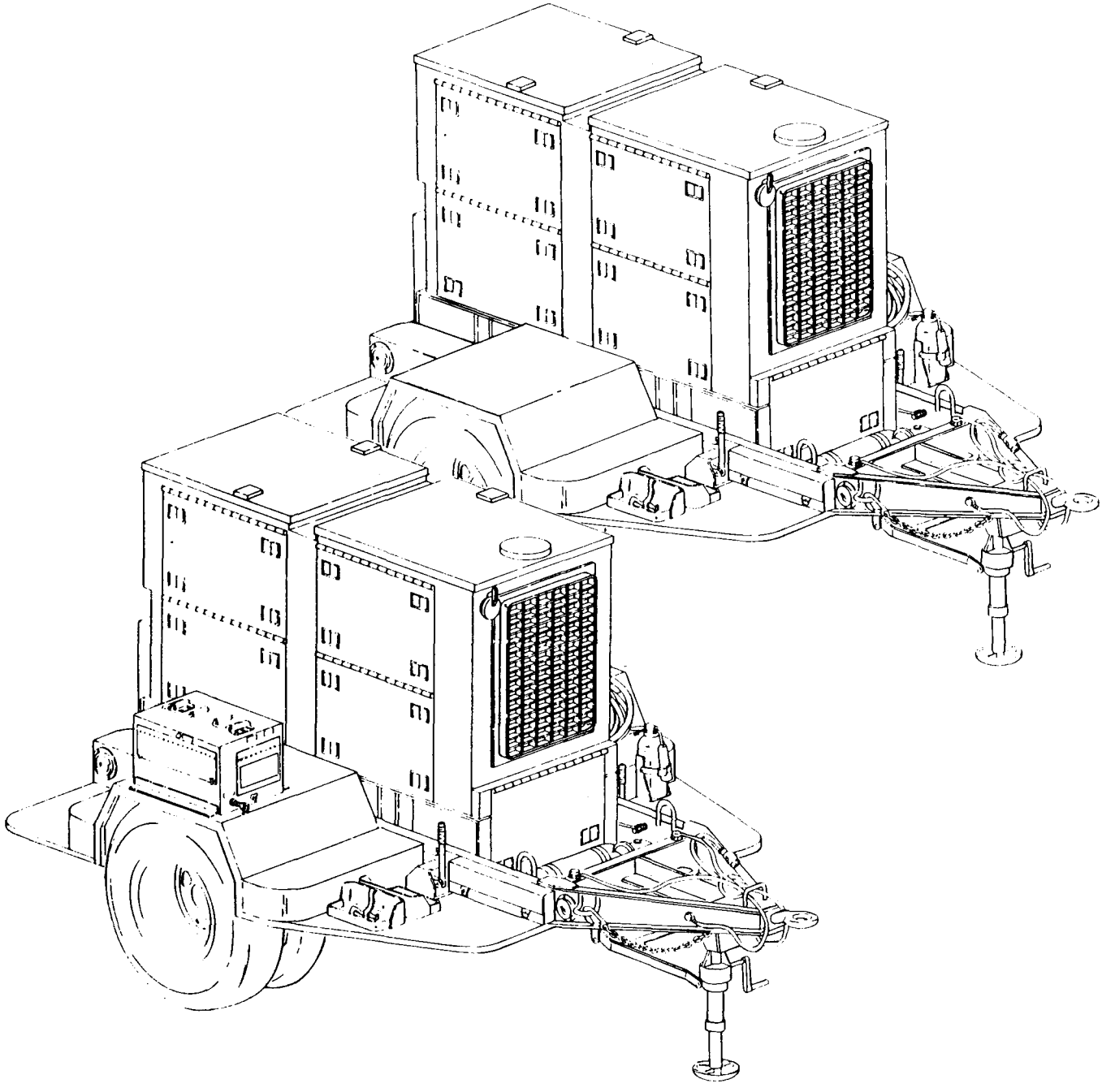

Figure 1-1. Power Plant, Curbside Front, Three-Quarter View.

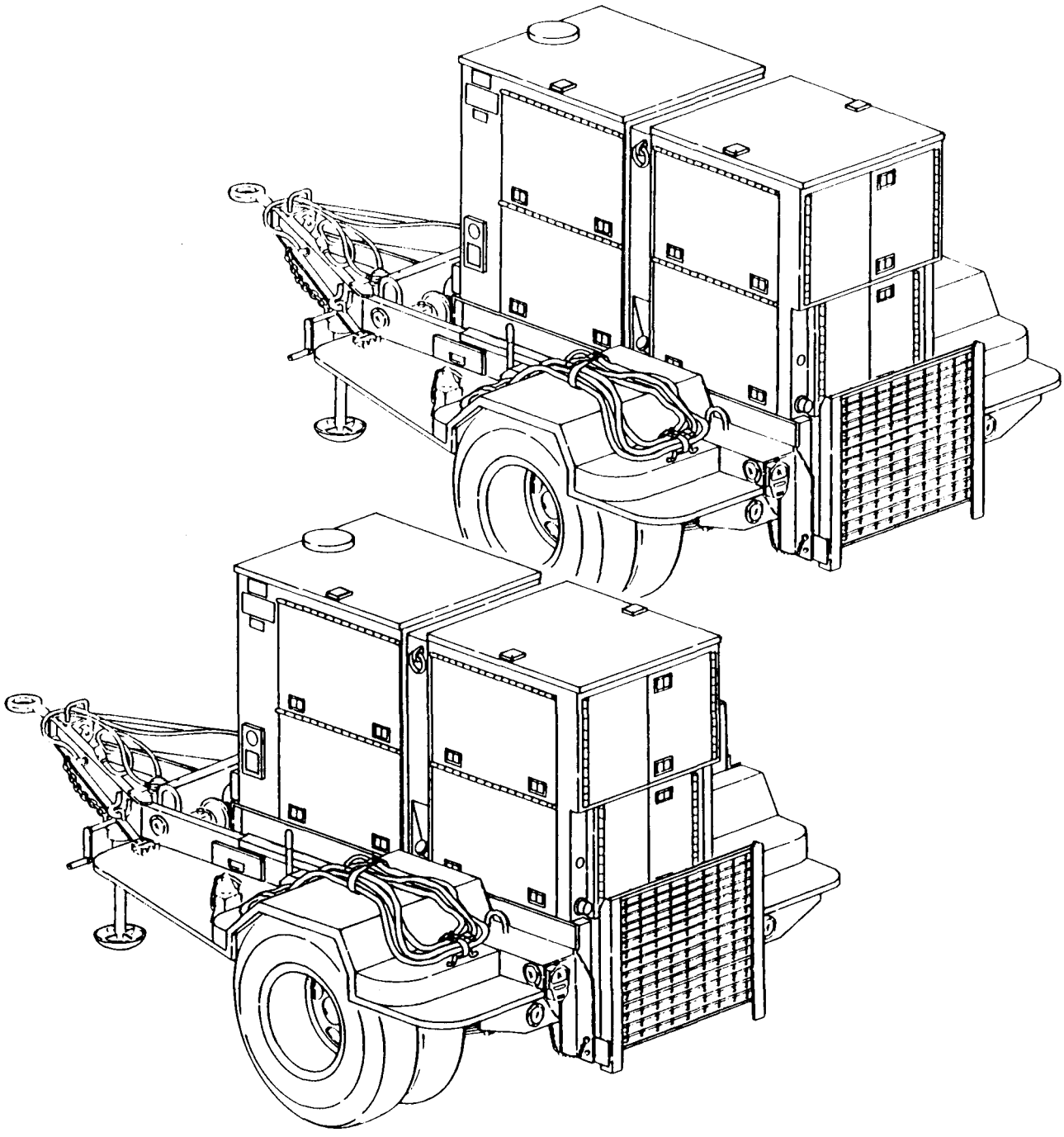

Figure 1-2. Power Plant, Roadside Rear, Three-Quarter View.