TECHNICAL MANUAL

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

POWER PLANT AN/MJQ-15 (NSN 6115-00-400-7591) (2) MEP-113A 15 KW 400 HZ GENERATOR SETS (2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILERS

Approved for public release; distribution is unlimited.

This manual supersedes Chapter 9 of TM 5-6115-594-14&P dated 25 September 1984.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 20 June, 1988

Operator, Unit, Intermediate Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists) for POWER PLANT, AN/MJQ-15 (NSN 6115-00-400-7591) (2) MEP-113A 15 KW 400 HZ GENERATOR SETS (2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILERS

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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, AM/MJQ-15. The AN/MJQ-15 is a mobile power plant used to supply 15 KW of 400 Hz input operating power to the Fire Direction Control Center for Artillery. 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 Troop Support Command, ATTN: AMSTR-MCTS, 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 SF 368 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 Troop Support Command, ATTN: AMSTR-QX, 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 preventive 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/MJQ-15 is made up of two PU-732/M power units. Each power unit is, in turn, made up of one Tactical Precise Generator Set, DOD Model MEP-113A mounted on a modified M200A1 trailer. These generator sets are liquid-cooled, diesel engine-driven units, each with a load capacity of 15 KW at 400 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. Figures 1-1 and 1-2 illustrate the power plant.

1-11. Tabulated Data. The tabulated data provides operator and unit level personnel with the dimensions and weights for Power Plant, AN/MJQ-15. These specifications are computed from the combined dimensions and weights of the two power units that make up the power plant. Specifications for a single PU-732/M power unit can be found in TM 5-6115-594-14&P. For additional information concerning Generator Set DOD Model MEP-113A, refer to TM 5-6115-464-12, - 34, and - 24P. For additional information on the M200A1 trailer, refer to TM 9-2330-205-14&P. The tabulated data also includes the location and content of all data plates unique to the power plant.

a. Identification, Information, and Warning Plates.

(1) *Modification identification plate.*

(a) Location. This plate is located on front roadside frame between the trailer body and lunette.

(b) Content.

MODIFIED FOR POWER PLANT AN/MJQ-15
NSN 6115-00-400-7591
UNIT A (or B, as applicable)

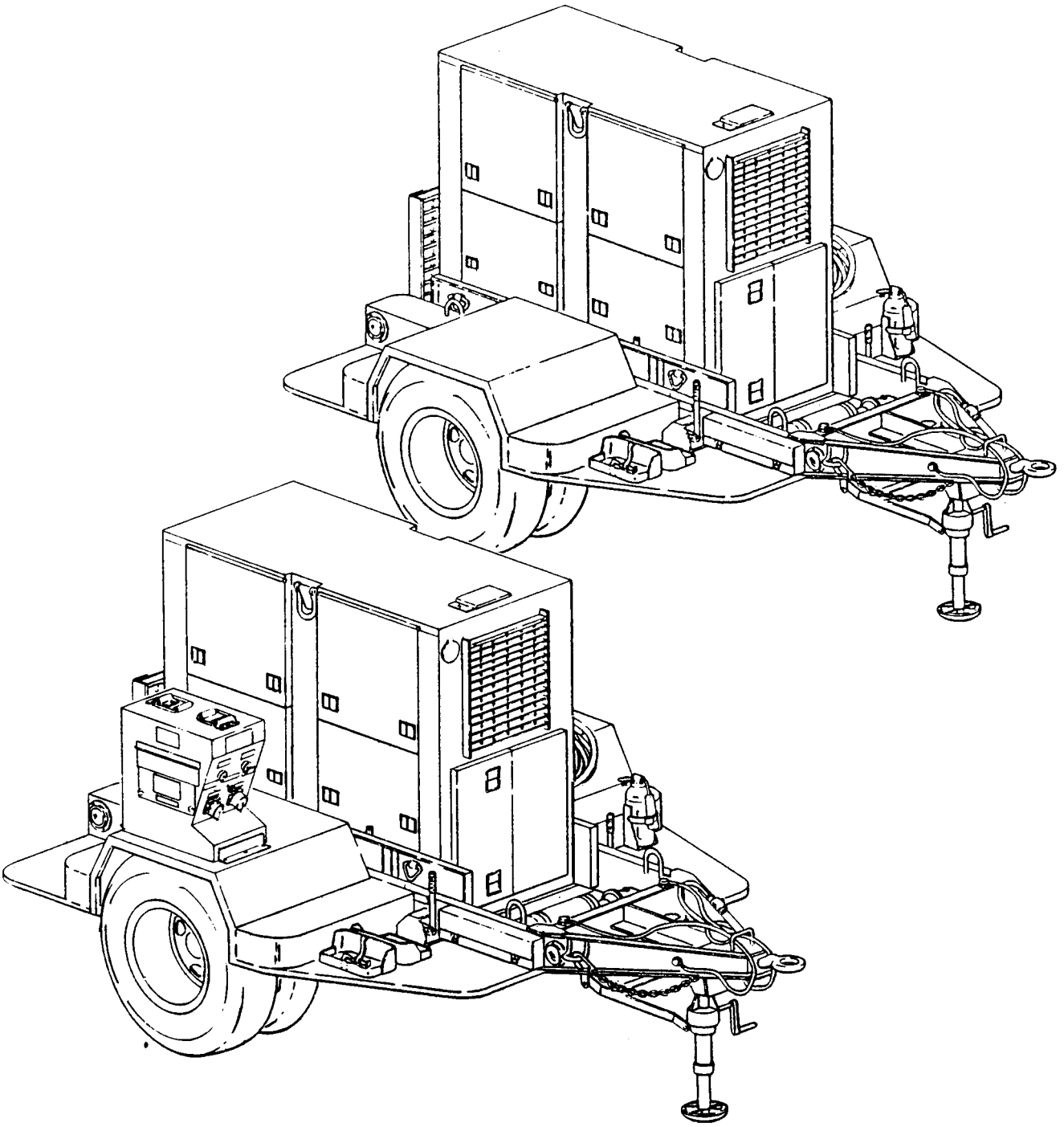

Figure 1-1. Power Plant, Curbside Front, Three-Quarter View.

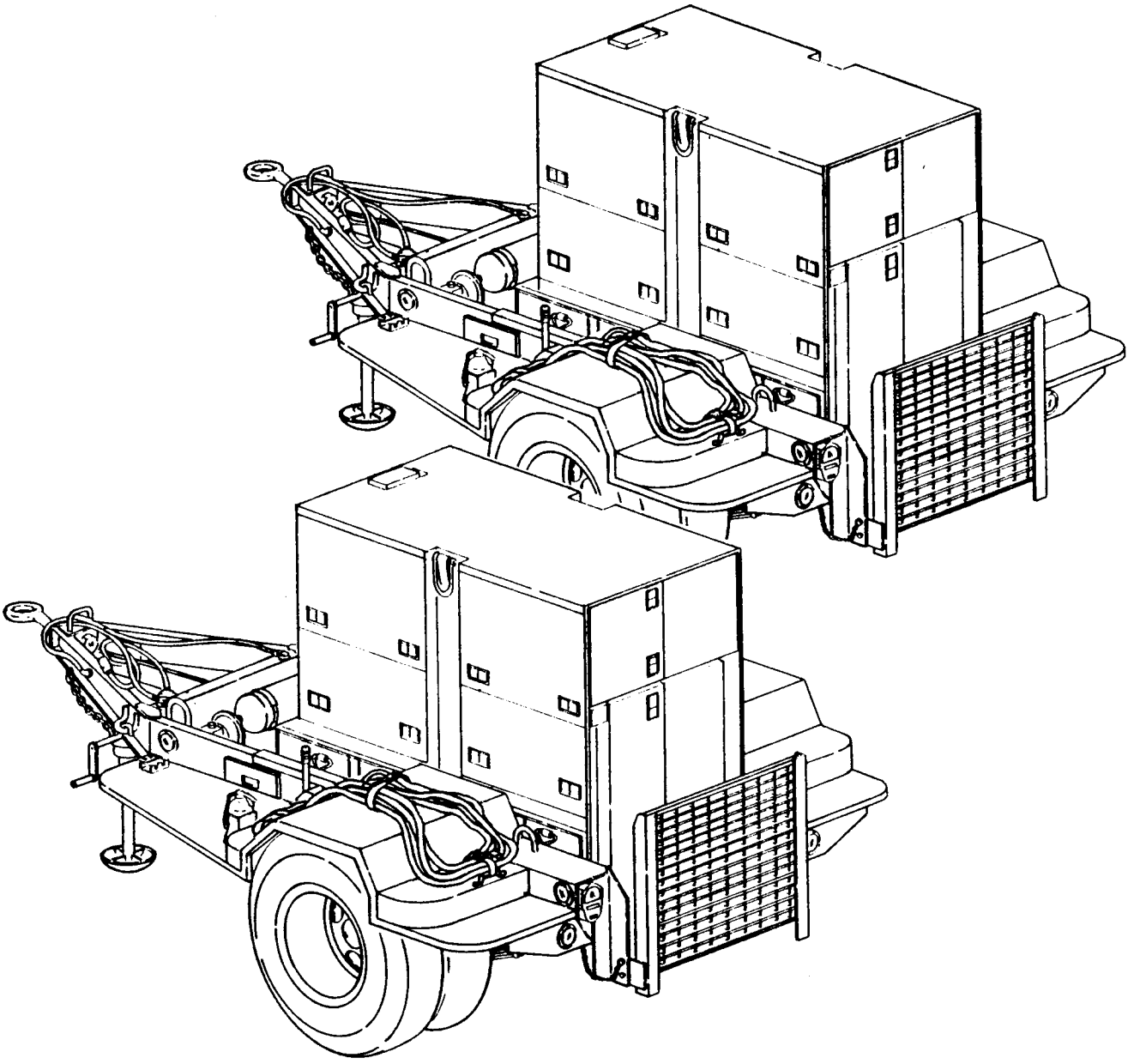

Figure 1-2. Power Plant, Roadside Rear, Three-Quarter View.