

TECHNICAL MANUAL

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

POWER PLANT

AN/MJQ-10A (NSN 6115-00-394-9582)

(2) MEP-005A 30 KW 60 HZ

GENERATOR SETS

**(2) M200A1 2-WHEEL, 4-TIRE,
MODIFIED TRAILERS**

Approved for public release; distribution is unlimited

* This manual supersedes Chapter 8 of TM 5-6115-594-14&P dated 25 September 1984.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

NO. 5-6115-627-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C.,

**Operator, Unit, Direct Support and General Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
POWER PLANT, AN/MJQ-10A
(NSN 6115-00-394-9582)
(2) MEP-005A 30 KW 60 HZ GENERATOR SETS
(2) M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILERS**

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TABLE OF CONTENTS

	Page
CHAPTER 1. INTRODUCTION	
Section I. General	1-1
Section II. Description and Data	1-2
CHAPTER 2 OPERATING INSTRUCTIONS	
Section I. Operating Procedures	2-1
Section II. Operation of Auxiliary Equipment	2-2
Section III. Operation Under Unusual Conditions	2-2
CHAPTER 3. OPERATOR/CREW MAINTENANCE INSTRUCTIONS	
Section I. Consumable Operating and Maintenance Supplies	3-1
Section II. Lubrication Instructions	3-1
Section III. Preventive Maintenance Checks and Services (PMCS)	3-1
Section IV. Troubleshooting	3-19
Section V. Operator/Crew Maintenance	3-19
CHAPTER 4. UNIT MAINTENANCE	
Section I. Service Upon Receipt of Equipment	4-1
Section II. Movement to a New Worksite.	4-7
Section III. Repair Parts, Special Tools, Special Test, Measurement and Diagnostic Equipment (TMDE)	4-8
Section IV. Lubrication Instructions	4-8
Section V. Preventive Maintenance Checks and Services	4-9
Section VI. Troubleshooting	4-14
Section VII. Radio Interference Suppression	4-16
Section VIII. Maintenance of Power Plant Trailers	4-16
Section IX. Maintenance of Electrical System	4-27

*This manual supersedes Chapter 8 of TM 5-6115-594-4&P dated 25 September 1984.

CHAPTER 5.	DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	
Section I.	Introduction	5-1
Section II.	Maintenance of Power Plant Trailers	5-1
Section III.	Generator Set	5-2
Section IV.	Maintenance of Electrical System.	5-5
CHAPTER 6.	TEST AND INSPECTION AFTER REPAIR	
Section I.	General Requirements	6-1
Section II.	Inspection	6-1
Section III.	Operational Tests	6-1
APPENDIX A.	REFERENCES	A-1
APPENDIX B.	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS	B-1
APPENDIX C.	MAINTENANCE ALLOCATION CHART	C-1
APPENDIX D.	UNIT, DIRECT SUPPORT AND GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST	D-1

LIST OF ILLUSTRATIONS

Figure	Title	Page
1-1	Power Plant, Curbside Front, Three-Quarter View	1-3
1-2	Power Plant, Roadside Rear, Three-Quarter View	1-4
4-1	Power Unit with Switch Box, Packed for Shipment	4-1
4-2	Unpacking Power Plant - Power Unit B Shown	4-2
4-3	Power Plant Installation	4-5
4-4	External Fuel Line Connection	4-7
4-5	Fuel Can Bracket Replacement	4-16
4-6	Accessory Box Replacement	4-17
4-7	Fire Extinguisher Bracket Replacement	4-18
4-8	Front Step Replacement	4-20
4-9	Rear Step and Bracket Replacement	4-22
4-10	Fender Replacement	4-24
4-11	Personnel Platform Replacement	4-26
4-12	Holddown Strap Replacement	4-27
4-13	Power Cable Wiring Diagram.	4-28
4-14	Switch Box Wiring Diagram	4-30
4-15	Indicator Light Lens and Lamp Replacement	4-31
4-16	Switch Box Assembly Replacement	4-32
5-1	Accessory Box Repair	5-1
5-2	Power Plant Markings	5-2
5-3	Detaching Generator Set From Trailer	5-3
5-4	Lifting Generator Set	5-4
5-5	Power Cable Repair	5-6
5-6	Switch Replacement	5-7
5-7	Connector Replacement	5-8
5-8	Load Terminal Replacement	5-10
5-9	Indicator Light Repair and Replacement	5-12
	Components of End Item	B-2
	Basic Issue Items	B-4
D-1	Generator Set	D-8
D-2	Power Cable	D-10
D-3	Switch Box Assembly	D-12
D-4	Trailer Body	D-20
D-5	Accessory Box	D-24
D-6	Front Steps	D-26
D-7	Rear Steps	D-28
D-8	Fenders	D-30
D-9	Personnel Platform	D-32
D-10	Handbrakes	D-34

LIST OF TABLES

Number	Title	Page
3-1	Consumable Operating and Maintenance Supplies	3-1
3-2	Operator/Crew Preventive Maintenance Checks and Services (PMCS)	3-4
4-1	Unit Preventive Maintenance Checks and Services (PMCS)	4-10
4-2	Troubleshooting	4-14

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. **Scope.** This manual is for your use in operating and maintaining the Power Plant, AN/MJQ-10A. The AN/MJQ-10A is a mobile power plant used to supply power to any system or equipment requiring up to 30 KW of 60 Hz input operating power. In addition to operating instructions and operator, unit, direct support and general support maintenance procedures, this manual contains a Repair Parts and Special Tools List for the power plant.

1-2. **Maintenance Forms and Records.** Maintenance forms and records used by Army personnel are prescribed by DA Pam 738-750.

1-3. **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 on a DA Form 2028 directly to: Commander, US Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO, 63120-1798.

1-4. **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.

1-5. **Levels of Maintenance Accomplishment.** Army users shall refer to the Maintenance Allocation Chart (MAC) for tasks and levels of maintenance to be performed.

1-6. **Destruction of Army Material.** Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

1-7. Administrative Storage.

a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. 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.

b. 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 (MWO'S) should be applied.

c. 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.

1-8. **Preparation for Shipment and Storage.** Refer to TB 740-97-2.

Section II. DESCRIPTION AND DATA

1-9. **Description.** Power Plant AN/MJQ-10A is made up of two PU-406B/M power units. Each power unit is, in turn, made up of one Tactical Utility Generator Set, DOD Model MEP-005A, mounted on a modified M200A1 trailer. These generator sets are liquid-cooled, diesel engine-driven units, each with a load capacity of 30 KW 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 storage 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-10A is supplied with a 5-wire configuration switch box. Figures 1-1 and 1-2 illustrate the power plant.

1-10. Tabulated Data. The tabulated data provides operator and unit level personnel with the dimensions and weights for Power Plant, AN/MJQ-10A. 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-406B/M power unit can be found in TM 5-6115-626-14&P. For additional information concerning Generator Set DOD Model MEP-005A, refer to TM 5-6115-465-12, -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 unit.

a. Identification, Information, and Warning Plates.

(1) *Modification identification plate.*

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

(b) *Content.*

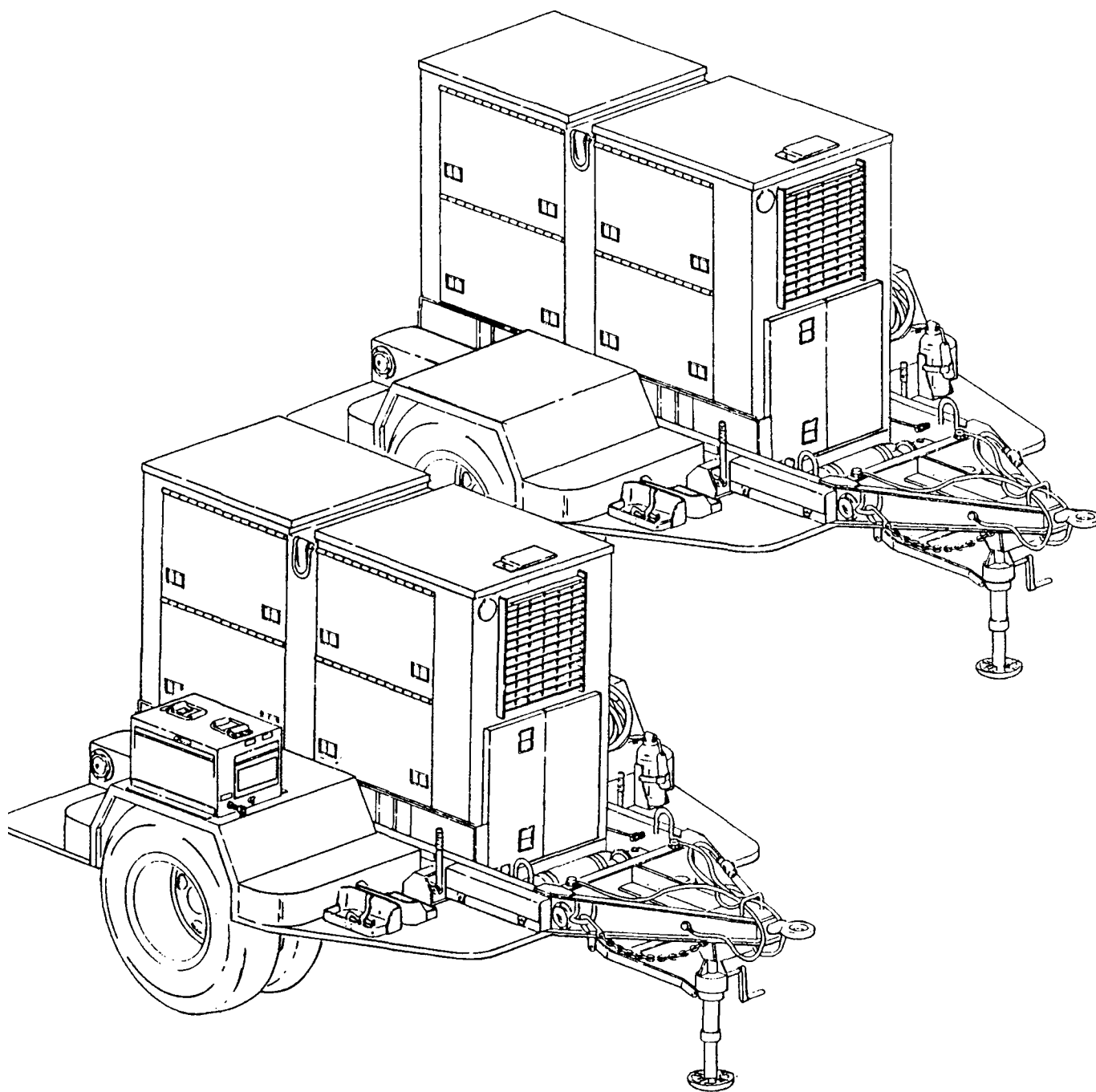
MODIFIED FOR POWER PLANT AN/MJQ-10A
NSN 6115-00-394-9582
UNIT A (or B, as applicable)

(2) *Identification plate.*

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

(b) *Content.*

U.S.
POWER UNIT
PU-406B/M KW 30 HERTZ 50/60
NSN 6115-00-394-9576



4875-001

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