

TM 5-6115-376-13

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL AND DIRECT
SUPPORT MAINTENANCE MANUAL,
GENERATOR SET, DIESEL ENGINE, TRAILER MOUNTED
PU-407/M (FSN 6115-702-3347)
AND PU-699/M (FSN 6115-132-0488), AND
GENERATOR SET, DIESEL ENGINE, TRUCK MOUNTED
PU-408/M (FSN 6115-706-0469)
AND PU-700/M (FSN 6115-125-7876)

This copy is a reprint which includes current
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HEADQUARTERS
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OPERATOR, ORGANIZATIONAL AND DIRECT SUPPORT
 MAINTENANCE MANUAL

GENERATOR SET, DIESEL ENGINE,
 TRAILER MOUNTED, PU-407/M, FSN 6115-702-3347, AND PU-699/M,
 FSN 6115-132-0488, AND GENERATOR SET, DIESEL ENGINE, TRUCK
 MOUNTED, PU-408/M, FSN 6115-706-0469, AND PU-700/M, FSN
 6115-125-7876

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*' This manual supersedes TM 5-6115-376-15, 23 May 1966, including all changes.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual contains instructions for use of operator, organizational and direct support maintenance personnel maintaining the 45 KW PU-407/M and PU-408/M, and the 60 KW PU-699/M and PU-700/M generator sets. Also included are descriptions of main units and their functions in relation to other components.

b. Refer to TM 740-90-1 (Administrative Storage of Equipment) for information and instructions pertaining to organizational administrative storage.

c. Refer to TM 750-244-3 (Procedures for Destruction of Equipment to Prevent Enemy Use) for information and instructions for destruction of equipment to prevent enemy use.

1-2. Forms and Records

a. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications), and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN : AMSME-MPP, Goodfellow Blvd., St. Louis, Mo. 63120.

Section 11. DESCRIPTION AND DATA

1-3. Description

a. The trailer mounted PU-407/M and truck mounted PU-408/M generator sets are 45 KW military design (MIL-G-14609) manufactured by Consolidated (Model 4070) or Stewart-Stevenson (Model 64400) ; 120 volt, 60 hertz, three-phase, diesel engine driven generators. These units may be arranged for joint operation as primary, standby, or individual power source, and each unit provides up to nine power connecting facilities.

b. The PU-407/M and PU-408/M are used jointly to provide a 45KW central power source for components composing an area-type communication system as shown in figure 1-1.

c. The trailer-mounted PU-699/M and truck-mounted PU-700/M generator sets are equipped with 60 KW, 60 hertz military design model SF-60MD/CIED. These two units also may be operated as primary, standby, or individual power sources, and provide a 60KW central power source for components of an area-type communications system. The military design sets use a Cummins Model C-180 diesel engine coupled with an Onan

Division of Studebaker Corp. 50/60 Hertz rotating field generator model SF.

d. The 60KW units (PU-699/M and PU-700/M) have load transfer and paralleling capability built in (fig. 1-3).

1-4. Differences Between Models

This manual covers the PU-407/M and PU-408/M 45KW diesel engine generator sets, and the PU-699/M and PU-700/M 60 KW units. The PU-407/M and PU-699/M are trailer mounted on the M200A1 trailer. The PU-408/M and PU-700/M units are truck mounted on the M54A2 truck. Where differences exist (mostly in minor component location and refinements in switching) each model is covered separately in applicable sections of this manual. The PU-407/M is to be used with the PU-408/M, and the PU-699/M is to be used with the PU-600/M because of the KW differences.

1-5. Tabulated Data

a. Diesel Engine Generator Set, Consolidated Model 4070 (u/o PU-407/M, PU-408/M), (TM 5-6115-239-10).