

TM 11-6625-680-15

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL, DS, GS, AND
DEPOT MAINTENANCE MANUAL

TEST SET, MOTOR-GENERATOR AN/GSM-65

This copy is a reprint which includes current
pages from Changes 1 and 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY

MARCH 1966

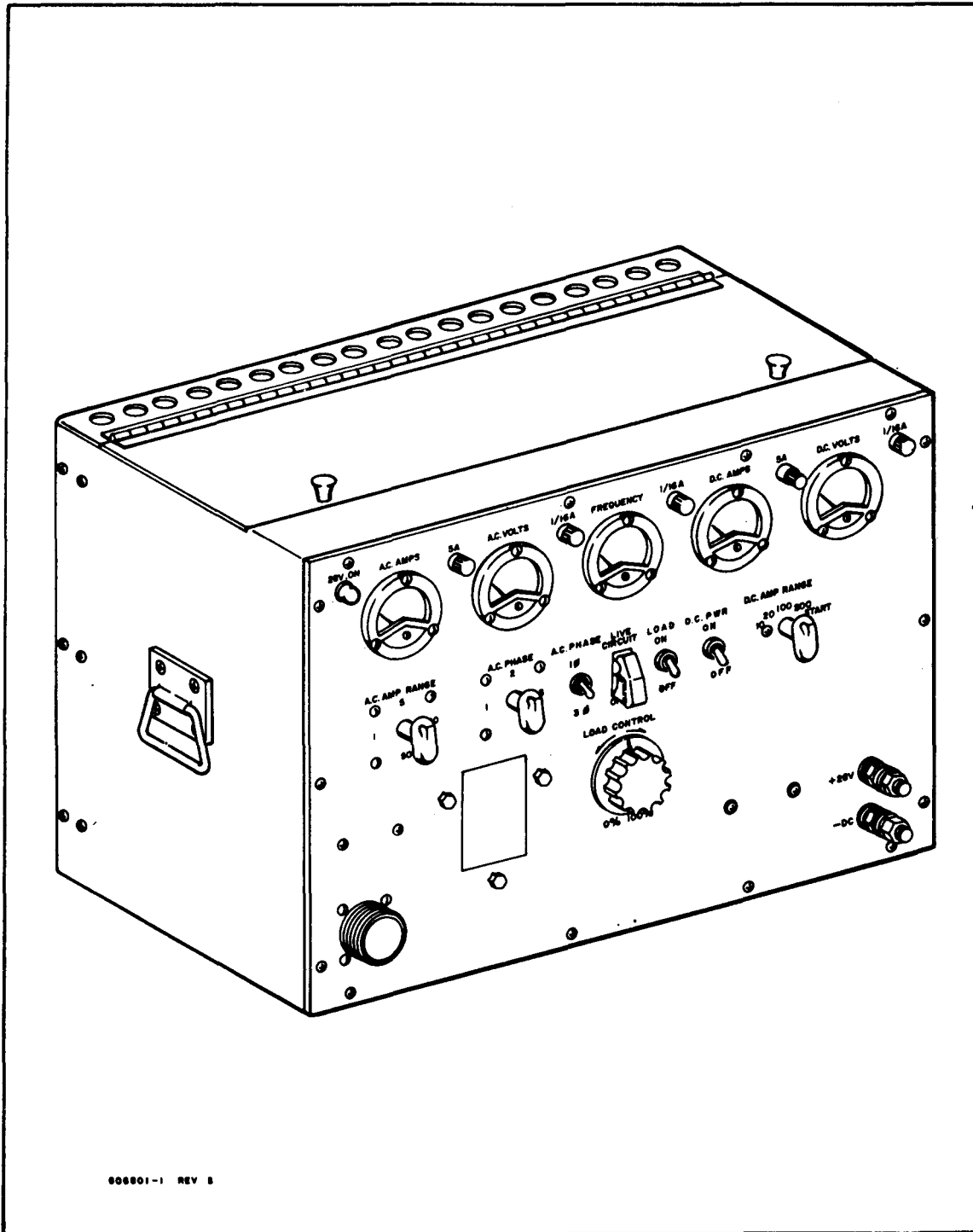
TECHNICAL MANUAL }
 No. 11-6625-680-15 }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, D.C., 25 March 1966

ORGANIZATIONAL DIRECT SUPPORT, GENERAL SUPPORT,
 AND DEPOT MAINTENANCE
 MANUAL TEST SET, MOTOR-GENERATOR AN/GSM-65

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Figure 1-1. Aircraft Motor-Generator Tester

SECTION I INTRODUCTION AND DESCRIPTION

1-1. General

1-2. Scope. This manual describes Test Set, Motor-Generator AN/GSM-65 (fig. 1-1) and provides instruction for installation operation, maintenance, troubleshooting and calibration of the equipment. It includes the Basic Issue Items List, Maintenance Allocation Charts and an illustrated parts breakdown. All references to Motor-Generator Tester, Type L-1A in this manual apply to Test Set, Motor-Generator AN/GSM-65 procured on contract AF41(608)-34347.

1-2.1. Indexes of Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment

1-2.2. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. 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 Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army)/NAVSUP PUB 378 (Navy)/AFR 71-4 (Air Force)/and MCO P4030.29 (Marine Corps), and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38 (Army)/NAVSUPINST 4610.33/AFM 75-18/MCO P4610.19A (Marine Corps), and DSAR 4500.15.

1-2.3. Reporting of Errors

The reporting 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 Commander, US Army Electronics Command, ATTN: AMSEL-MA-A, Fort Monmouth, NJ 07703.

1-3. The Type L-1A tester, illustrated in figure 1-1, is used to perform systems-under-test test procedures on aircraft inverters to include inverters up to a rated output of 2500 volt-amperes at unity power factor. Additional tester capacity is inherent to a limit of 3000 volt-amperes. Inverter testing is accomplished by performing:

a. Tester to inverter cable assembly connections.

b. Metering and recording input voltage and current.

c. Measuring and recording the values of the inverter-under-test output voltage, current, and frequency.

d. An 8th cable (para 1-22) is required for testing the PU-543/A inverter.

1-3.1. Items Comprising an Operable Test Set Motor-Generator AN/GSM-65

Qty

Nomenclature, part No., and mfr code

NOTE

The part number is followed by the applicable 5-digit Federal supply code for manufacturers (FSCM) identified in SB-708-42 and used to identify manufacturer, distributor, or Government agency, etc.

Test Set, Motor-Generator AN/GSM-65
which includes:

| | |
|---|---|
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-13,02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-11,02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-9,02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-7,02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-5; 02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-3; 02106 |
| 1 | Cable Assembly, Special Purpose, Electrical: 506814-1,02106 |