

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL

TEST SET, ELECTRONIC CIRCUIT

AN/GSM-72, SLAVE UNIT, TEST SET

MX-3844/GSM-72, AND TEST SET

SUBASSEMBLY MX-3845/GSM-72

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

HEADQUARTERS, DEPARTMENT OF THE ARMY

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**TEST SET, ELECTRONIC CIRCUIT AN/GSM-72, SLAVE UNIT,
TEST SET MX-3844/GSM-72, AND TEST SET
SUBASSEMBLY MX-3845/GSM-72**

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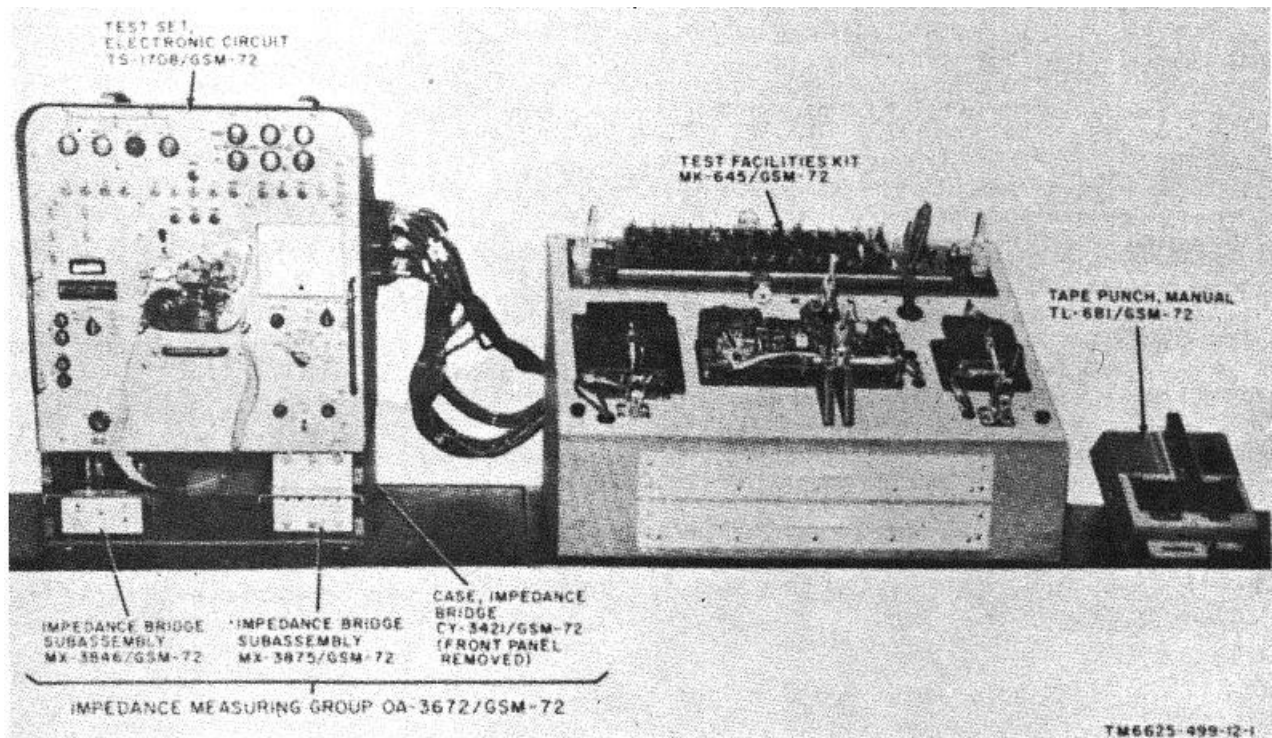


Figure 1. Test Set, Electronic Circuit AN/GSM-72, connected to Test Facilities Kit MK-645/GSM-12, less tools, technical manuals, and running spares.

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1. Scope

This manual describes Test Set, Electronic Circuit AN/GSM-72 (fig. 1) and covers its installation, operation, and first and second echelon maintenance. It includes instructions for operation, cleaning and inspection of the equipment, and replacement of parts available to first and second echelon maintenance personnel. This manual also covers Slave Unit, Test Set MX-3844/GSM-72 and Test Set Subassembly MX-3845/GSM-72, which are used with Test Set, Electronic Circuit AN/ GSM-72.

2. Index of Publications

Refer to the latest issue of DA Pamphlet 310-4 to determine whether there are new editions, changes, or additional publications pertaining to this equipment. Department of the Army Pamphlet No. 310-4 is an index of current Technical Manuals, Technical Bulletins, Supply Bulletins, Lubrication Orders, and Modification Work Orders which are available through publications supply channels. The index lists the individual parts

(-10, -20, -35P, etc) and the latest changes to and revisions of each equipment publication.

3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).

c. Comments on Manual. Forward all comments on this publication direct to: Commanding Officer, U.S. Army Electronics Materiel Support Agency, ATTN: SE LMS-MP, Fort Monmouth, New Jersey. (DA Form 1598 (Record of Comments on Publications), DA Form 2496 (Disposition Form), or letter may be used.)

Section II. DESCRIPTION AND DATA

4. Purpose and Use

a. Test Set, Electronic Circuit AN/ GSM-72 is a high-speed automatic testing device designed to make a rapid test of electronic subassemblies and printed-circuit cards. The test set is capable of measuring direct-current (dc) resistances in a range from 1 ohm to 9.99 megohms, insulation resistance in a range from 10 to 9,990 megohms, and complex impedances in a range from 10 ohms to 99.9 kilohms at 160 cycles per second (cps), 1,600 cps, and 16,000 cps. Voltages (alternating-current (ac) and dc) can be measured by the use of auxiliary equipment (para 5c and 57, 58, and 59).

b. Tape Punch, Manual TL-681/GSM-72 is included as part of the AN/GSM-72 and is used with pads of tape to prepare or repair the basic program tape for use with the AN/GSM-72.

5. Technical Characteristics (Auxiliary Equipment Included)

a. Test Set, Electronic Circuit AN/GSM-72.
Number of tubes 13 (See note below.)
Number of transistors 37.