

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL
TEST SET, TELEPHONE TS-816/U

Headquarters, Department of the Army, Washington 25, D. C.
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WARNING**HIGH VOLTAGE**

is used in
this equipment.

DEATH ON CONTACT

may result if safety precautions
are not observed.

Be careful not to contact high-voltage output connections
when operating, testing, or servicing Test Set, Telephone
TS-816/U.

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*Appendix II supersedes that portion of TM 11-6625-201-25P, 1 June 1959. as pertains to the maintenance allocation chart; and appendix III supersedes TM 11-6625-201-10P, 1 June 1959.

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1. Scope

This manual describes Test Set, Telephone TS-816/U and covers its installation, operation, and operator's maintenance. It includes operation under usual and unusual conditions, cleaning and inspection of the equipment, and replacement of parts available to first echelon maintenance personnel. No maintenance is performed at second echelon (appx II).

2. Forms and Records

a. *Unsatisfactory Equipment Reports.* Fill out and forward DA Form 468 (Unsatisfactory Equipment Report) as specified in AR 700-38.

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).

c. *Preventive Maintenance Forms.* Prepare DA Form 11-266 (fig. 5 and 6), (Maintenance Check List for

Signal Equipment (Test Equipment)) in accordance with instructions on the form.

d. *Parts List Form.* Forward DA Form 2028 (Recommended Changes to DA Technical Manual Parts List or Supply Manual 7, 8, or 9) direct to the Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMS-MLM, Fort Monmouth, N. J., with comments on parts listings.

e. *Comments on Manual.* Forward all other comments on this publication direct to the Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMS-PA2d, Fort Monmouth, N. J.

f. *DA Pamphlet 310-4.* Refer to DA Pamphlet 310-4 to determine what changes to or revisions of this publication are current.

Section II. DESCRIPTION AND DATA

3. Purpose and Use

The TS-816/U is designed to apply a high voltage across conductors of a fixed plant cable to break down (burn in) a high-resistance fault. Tone facilities and a resistance-measuring circuit are provided to locate the fault after it has been burned in.

NOTE

The TS-816/U does not provide adequate voltages to break down a high-resistance fault in plastic insulated cable.

4. Technical Characteristics

Operating Voltages:

Buzzer	4.5, 9, 22.5, 45, 67.5, and 90 volts dc.
Breakdown.....	630 volts dc.

Power source	Internal batteries.
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Buzzer:

Frequency.....	500 cps.
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Operation.....	Interrupted or continuous tone.
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Meter range:

Resistance	0-2 megohms.
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Current	0-5 amperes.
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5. Components

For a list of items comprising an operable equipment and a list of running spares, refer to appendix III.

6. Description

(fig. 1 and 3)

Test Set, Telephone TS-816/U is housed in a metal carrying case. A control panel