

TM 11-6625-366-10

TECHNICAL MANUAL

**OPERATIONS MANUAL
FOR
MULTIMETER TS-352B/U
(NSN 6625-00-553-0142)**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
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TECHNICAL MANUAL

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REPORTING OF ERRORS

You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703.

A reply will be furnished direct to you.

*** This manual supersedes so much of TM 11-6625-366-15, 5 January 1967, including all changes, as pertains to operation and operator's maintenance.**

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. General. This manual contains operating instructions for Multimeter TS-352B/U. Complete operator maintenance instructions are also provided.

b. Purpose. This manual is for use when operating and maintaining Multimeter TS-352B/U.

1-2. 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 (MWOs) pertaining to the equipment.

1-3. 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 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, 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/NAVSUPINST 4610.33A/AFR 75-18/MCO P4610.19B and DSAR 4500.15.

1-4. Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-5. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-6. Purpose and Use

The TS-352B/U is a portable, self-contained unit that provides maintenance personnel with a means of on-the-spot troubleshooting. The unit allows voltage, resistance, and current measurements. The versatility and limitations of the TS-352B/U are defined in paragraph 1-8.

1-7. Description

(fig. 1-1)

The TS-352B/U is a volt-ohm-ampere meter that uses self-contained batteries and is contained in a metal, immersionproof carrying case. The technical characteristics of the TS-352B/U are provided in paragraph 1-8, and paragraph 1-9 lists the components that comprise the TS-352B/U.

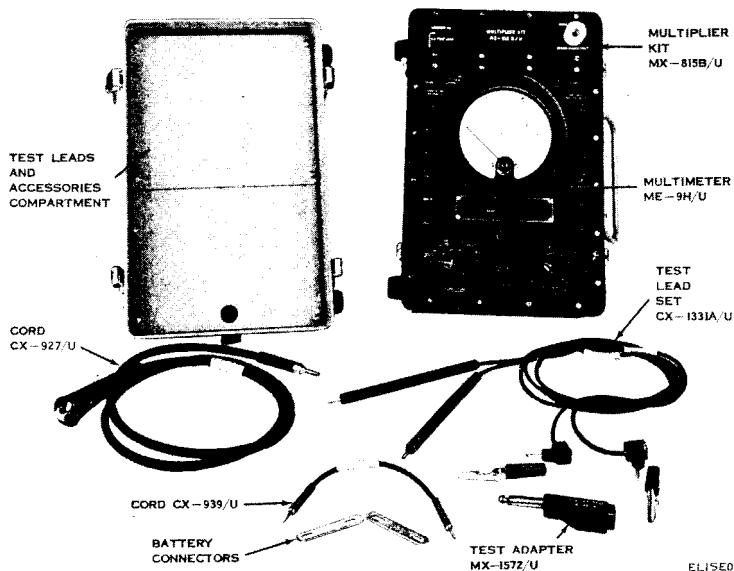
1-8. Tabulated Data.

Tabulated data for the test set are listed in table 1-1.

Table 1-1. TS-352B/U Tabulated Data

Type	Multirange instrument using a 50-microampere dc, D'Arsonval-type meter. Rectification is used for ac voltage measurements.
Frequency range	25 Hertz to 5 kiloHertz; useful to 20 kiloHertz with a reduction in sensitivity.
Frequency error	± 3 percent at 10 kiloHertz; ± 7 percent at 20 kiloHertz.
Usable temperature range	-40°F to $+131^{\circ}\text{F}$.
Meter sensitivity	1,000 ohms per volt for ac ranges; 1,000 or 20,000 ohms per volt for dc ranges.
Accuracy*	
Dc range:	
0 to 1,000 volts and dc	± 6 percent at -40°F ; ± 3 percent at
current (1,000	77°F ; ± 5 percent at 131°F .
ohms per volt)	

* Percentages are of full scale readings.



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Figure 1-1. Multimeter TS-352B/U.