

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DS, GS

AND DEPOT MAINTENANCE MANUAL

MULTIMETERS ME-26A/U

ME-26B/U, ME-26C/U

AND ME-26D/U

This copy is a reprint which includes current
pages from changes 1 through 3

HEADQUARTERS, DEPARTMENT OF THE ARMY

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**Operator, Organizational, Direct Support, General Support,
and Depot Maintenance Manual**

**MULTIMETERS ME-26A/U, ME-26B/U,
ME-26C/U, AND ME-26D/U**

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*This manual supersedes TM 11-6625-200-12, 13 February 1959, Including all changes, and TM 11-6625-200-35, 15 January 1980, Including all changes.

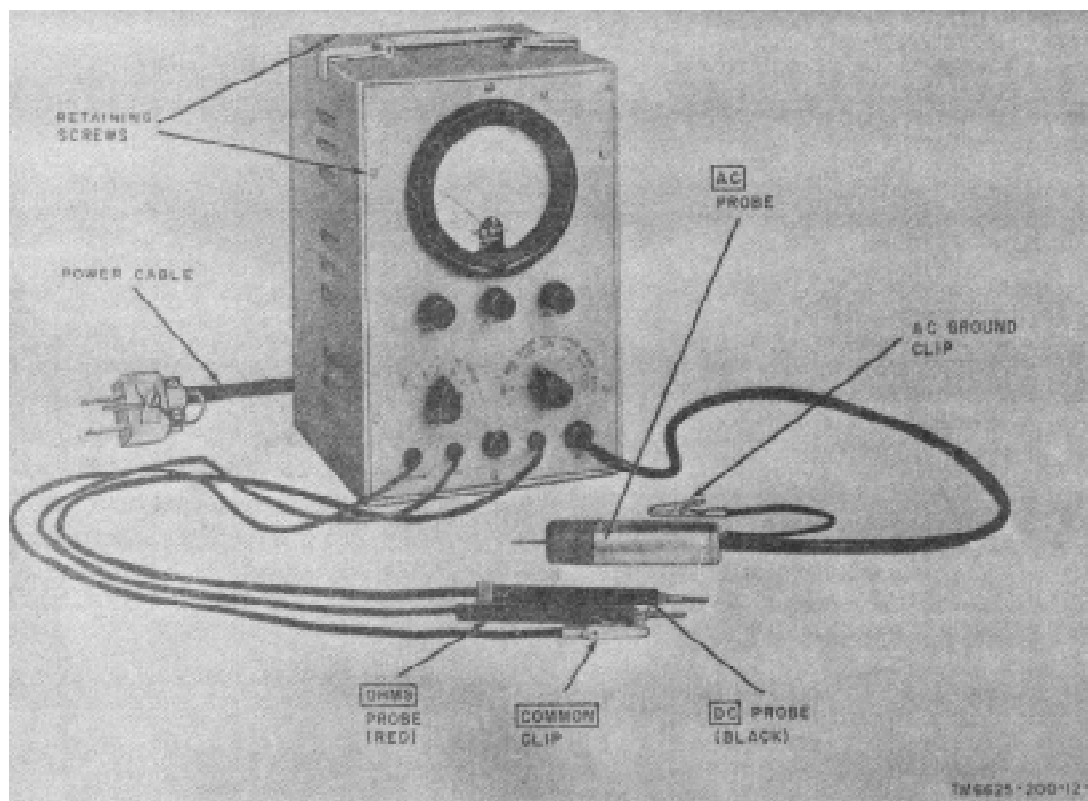


Figure 1-1. Multimeter ME-26B/U, less running spares.

CHAPTER 1 INTRODUCTION

1-1. Scope

a This manual describes Multimeter ME-26(*)/U (multimeter) and covers the installation, operation, organizational, general support, and depot maintenance of these equipments. It includes operation under unusual conditions, and replacement of parts available to the organizational, general support, and depot maintenance personnel. It also lists the tools and test equipment available to organizational, general support, and depot maintenance personnel.

b. Official nomenclature followed by (*) is used to designate all models of the equipment covered in this manual; therefore, Multimeter ME[26(*)]/U represents Multimeters ME-26A/U, ME-26B/U, ME-26C/U, and ME-26D/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 (MWO's) 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 DLAR 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 55-88/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-3.1. Reporting of Errors and EIR's

a 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 Blank Forms) and forwarded direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07708.

b. Equipment Improvement Recommendations (EIR) will be prepared using SF 368 (Quality Deficiency Report) Instructions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME. MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use (fig. 1-1, 1-2)

a Multimeter ME-26(*) U is an electron tube multimeter voltmeter-ohmmeter that is used to measure direct current (dc) voltage, resistance, and alternating current (ac) voltage at frequencies from 20 cycles per second (cps) to 700 megacycles per second (mc).

b. When the multimeter is used as a voltmeter, the high input impedance permits measurements to be made without affecting either the voltage being tested or the operation of the equipment under test.

1-5. Technical Characteristics

Voltage ranges:

Dc	0 to 1 volt
	0 to 8 volts
	0 to 10 volts
	0 to 00 volts
	0 to 100 volts
	0 to 300 volts
	0 to 1,000 volts

Ac	0 to 1 volt
	0 to 3 volts
	0 to 10 volts
	0 to 30 volts
	0 to 100 volts
	0 to 300 volts
Resistance range	0 to 500 ohms
	0 to 5,000 ohms
	0 to 50,000 ohms
	0 to 500,000 ohms
	0 to 5 megohms
	0 to 500 megohms
Frequency range	
(ac voltage)	20 cps to 700 mc
Frequency range	
(AC probe)	Flat within ± 1 db from 20 cps to 700 mc on ME-26A/U; and flat within ± 1 db from 20 cps to 800 mc and ± 2 db from 20 cps to 700 mc on all other models
Input impedance:	
Dc	122 megohm