

TM 11-6625-320-35

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT MAINTENANCE MANUAL

**VOLTMETER METER ME-30A/U AND
VOLTMETERS, ELECTRONIC
ME-30B/U AND ME-30C/U**

This reprint includes all changes in effect at the time of publication; changes 2 and 3.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Technical Manual

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VOLTMETER, METER ME-30A/U AND VOLTMETERS, ELECTRONIC ME-30B/U AND ME-30C/U

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*This manual together with TM 11-6625-320-12, 21 June 1960, supersedes TM 11-5132, 16 October 1957; C1, 8 April 1958; C2, 26 August 1958; C3, 9 January 1959; C4, 10 December 1959.

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CHAPTER 1

THEORY

Section I. GENERAL

1. Scope

a. This manual covers field and depot maintenance for Voltmeter, Meter ME-30A/U and Voltmeters, Electronic ME-30B/U and ME-30C/U. It includes instructions appropriate to fourth and fifth echelons for troubleshooting, testing, calibrating, and repairing the equipment; replacing maintenance parts and repairing specified maintenance parts. It also lists tools, materials, and test equipment for fourth and fifth echelon maintenance. Detailed functions of the equipment are covered in the theory section.

b. The complete technical manual for this equipment includes TM 11-6625-320-12, TM 11-6625-320-12P, and TM 11-6625-320-35P.

c. In this manual, when reference is to all three models, the word voltmeter will be used. Specific models will be referred to as ME-30A/U, ME-30B/U, and ME-30C/U.

d. Forward comments concerning this manual to the Commanding Officer, U. S. Army Signal Materiel Support Agency, AT TN: SIGMS-PA2d, Fort Monmouth, N. J.

Note. For applicable forms and records, see paragraph 2, TM 11-6625-320-12.

2. Internal Differences in Models

Internal differences are listed in the chart below. For external differences and other internal differences see TM 11-6625-320-12.

Item ^a	ME-30A/U	ME-30B/U	ME-30C/U
Chassis mounting position to front panel.	Vertical.	Horizontal.	Vertical.
Tube and component locations.	Similar to ME-30C/U.	Unlike ME-30A/U or ME-30C/U.	Similar to ME-30A/U.
Designation of resistors and capacitors.	Unlike ME-30B/U or ME-30C/U.	Similar to ME-30C/U.	Similar to ME-30B/U.
T1 terminal designations.	Unlike ME-30B/U or ME-30C/U.	Similar to ME-30C/U.	Similar to ME-30B/U.
Value differences of resistors and capacitors in electrical circuitry.	None. C34, 500 uf. C30C, 20 uf. C16, 7-45 uuf. C14, 7-45 uuf. None. C19, .033 uf. C21, 7-45 uuf. R12, 27 ohms. R13, 150 ohms. R6A, R6B, and R6C. (See note 4 and 6, fig. 45.) C6, 9-180 uuf. L1, 19 uh. C28, 8,200 uuf.	C33, 100 uuf. C34, 500 uf. C37, 40 uf. C14, 5-80 uuf. C16, 5-80 uuf. R22, 4,700 ohms. C21, .033 uf. C22, 25-280 uuf. R12, 100 ohms. R13, 15 ohms. R6 and R6A. (See note 4 and 6, fig. 47.) C6, 5-80 uuf. None. C31, 8,200 uuf.	C33, 33-510 uuf. C34, 1,000 uf. C37, 40 uf. C14, 5-80 uuf. C16, 5-80 uuf. R22, 4,700 to 9,100 ohms. C21, .051 uf. C22, 25-280 uuf. R12, 47 ohms. R13, 15 ohms. R6A, R6B, R6C, R6D, and C5A. (See note 6 and 8, fig. 49.) None. None. C31, 9, 100 uuf.