

TM 11-6625-320-12

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATORS AND ORGANIZATIONAL
MAINTENANCE MANUAL**

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

This copy is a reprint which includes current
pages from Changes 1, 4 and 5.

HEADQUARTERS, DEPARTMENT OF THE ARMY
21 JUNE 1960

TECHNICAL MANUAL

Operator's and Organizational Maintenance Manual

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ELECTRONIC ME-30B/U AND ME-30C/U

TM 11-6625-320-12 }
CHANGES No. 1 }

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON 26, D.C., 4 February 1963

TM 11-6625-320-12, 21 June 1960, is changed as follows:

Page 3, paragraph 1. Add paragraph 1.1 after paragraph 1.

1.1 Index of Publications

(Added)

Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to your equipment. Department of the Army Pamphlet 310-4 is a current index of Technical Manuals, Technical Bulletins, Supply Bulletins, Lubrication Orders, and Modification Work Orders that 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.

Paragraph 2. Delete paragraph 2 and substitute:

2. Forms and Records

(Superseded)

a. *Report of Unsatisfactory Equipment.* Fill out DA Form 2407 (Maintenance Request) in accordance with instructions in TM 38-750 and forward it to: Commanding Officer, U.S. Army Electronics Materiel Support Agency, ATTN: SELMS-PIE, Fort Monmouth, N.J. The form should be filled out and forwarded to report-

- (1) Receipt of defective equipment (use DD Form 6 *b* below) if defect is due to damaged or improper shipment).
- (2) Equipment deficiencies (deadlined equipment).

- (3) Equipment shortcomings (operable, but at less than rated capability or efficiency).
- (4) Equipment improvement suggestions and recommendation.

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 Publications 378, 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: SELMS-MP, Fort Monmouth, N.J. (DA Form 1598 (Record of Comments on Publications), DD Form 96 (Disposition Form), or letter may be used.)

Page 14. Delete paragraph 17 through 20 and substitute.

17. Scope of Operator's Maintenance

(Superseded)

The maintenance duties assigned to the operator are listed below, together with a reference to the paragraph covering the specific maintenance function. The duties assigned do not require special tools or test equipment.

- a. Daily maintenance service and inspection (par. 19).
- b. *Repairs.*
 - (1) Replacement of power indicator lamp (par. 21a).
 - (2) Replacement of fuse (par. 21b).

- (3) Tube testing and replacement (par 21c).
- (4) Removal and replacement of panel-chassis (par. 21d).
- c. Cleaning (par. 20).

18. Operator's Preventive Maintenance (Superseded)

Preventive maintenance is the systematic care, servicing, and inspection of equipment to prevent the occurrence of trouble, to reduce *downtime*, and to assure that the equipment is serviceable.

a. *Systematic Care.* The procedures given in paragraph 19 cover systematic care essential to proper upkeep of this equipment when it is used separately. When this equipment is used as part of a *set* or *system*, follow the procedures established in the *set* or *system* manual. If operated separately, the cleaning operations (par. 20) should be performed once each day that the equipment is used and, in any case, not less than once each week. All items should be checked before the equipment is placed in operation after a shutdown, during operation, or

after it is turned off, as specified in the applicable paragraph.

b. *Maintenance Service and Inspections.* The maintenance service and inspection chart (par. 19) outlines inspections to be made daily; however, if the equipment is used as part of a *set* or *system* manual. For equipment operated separately, these inspections are made to determine combat serviceability; that is, to determine that the equipment is in good general (physical) condition, in good operating condition, and likely to remain combat serviceable. To assist the operators in determining and maintaining combat serviceability, the chart indicates what to inspect, how to inspect, and what the normal conditions are; the *References* column lists the paragraph or other source that contains additional information pertaining to correction, if an abnormal conditions is observed. If the defect cannot be remedied by the operator, higher echelon maintenance or repair is required. Records and reports of these inspections must be made in accordance with TM 38-750.

19. Daily Maintenance Service and Inspection Chart (Superseded)

Item No.	Procedures		References
	Item	Normal condition or result	
2	EXTERIOR: Inspect equipment for external cleanliness.	Equipment must be free of grease, dirt, rust, corrosion, and fungus.	Par 20.
5	POWER CABLE: Inspect power cable for breaks, cuts, kinks, strain, deterioration, and fraying.	Power cable must be in good condition.	Higher echelon.
7	EXTERNAL HARDWARE: Inspect exterior hardware for looseness and binding.	a. Switches, binding posts, indicator light, carrying handle, and other hardware must be firmly secured. b. Switches must not bind.	
11	START: Operate ON-OFF switch to ON.	Red indicator lamp lights.	Par 21a and b.
12	METER MOVEMENT: With power on, measure a known voltage with range selector switch in proper position.	Meter will indicate correct voltage.	Par 14.
13	STOP: Operate ON-OFF switch to OFF.	Red indicator lamp goes out.	Higher echelon.

20. Cleaning (Superseded)

Use the following procedure to clean the voltmeter.

a. Remove dust and loose dirt with a clean soft cloth.

Warning: Cleaning compound is flammable and its fumes are toxic. *Do not* use near a flame; provide adequate ventilation.

b. Remove grease, fungus, and ground-in dirt from the case; use it cloth damp (not wet) with Cleaning Compound (Federal stock No. 7930-395-9542).