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Changes in force: C 2, C 3, C 4, and C 5

TM 11-5040  
C 5

POWER SUPPLIES PP-281/GRC, PP-281/GRC, PP-282/GRC, PP-282A/GRC,  
PP-448/GR, AND PP-448A/GR

CHANGE }  
No. 5 }

HEADQUARTERS,  
DEPARTMENT OF THE ARMY  
WASHINGTON 25, D.C., 7 October 1963

TM 11-5040, 29 November 1950, is changed as follows:

Page 1. After paragraph 1, add:

**1.1. Index of Publications**

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. Department of the Army Pamphlet No. 310-4 is a current index of technical manuals, technical bulletins, supply bulletins, lubrication orders, and modification work orders 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.

Delete paragraph 2 (page 1 of C 2) and substitute:

**2. Forms and Records**

a. *Reports of Maintenance and Unsatisfactory Equipment.* Use equipment forms and records in accordance with instructions in TM 38-750.

Page 2. Add the following after chapter 1:

**CHAPTER 1.1**

**PREVENTIVE MAINTENANCE**

**Section I. OPERATOR'S PREVENTIVE MAINTENANCE**

**7.1. Preventive Maintenance**

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.

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 Publication 378 (Navy), and AFR 71-4 (Air Force).

c. *Reporting of Equipment Manual Improvements.* The direct reporting by the individual user of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended changes to DA technical manual parts lists or supply manual 7, 8, or 9) will be used for reporting these improvements. This form will be completed in triplicate using pencil, pen, or typewriter. The original and one copy will be forwarded direct to: Commanding Officer, U. S. Army Electronics Materiel Support Agency, ATTN: SELMS-MP, Fort Monmouth, N. J. 07703. One information copy will be furnished to the individual's immediate supervisor, officer, noncommissioned officer, supervisor, etc.).



services chart (par. 7.3) outlines functions to be performed at specific intervals. These checks and services are to maintain Army electronic equipment in a combat serviceable condition; that is, in good general (physical) condition and in good operating condition. To assist operators in maintaining combat serviceability, the chart indicates what to check and what the normal conditions are; the *References* column lists the paragraphs that contain supplementary information. If a defect cannot be remedied by the operator, higher echelon maintenance or repair is required. Records and reports of these checks and services must be made in accordance with the requirements set forth in TM 38-750.

## 7.2. Preventive Maintenance Checks and Services Periods

Preventive maintenance checks and services of the equipment are required on a weekly basis.

a. Paragraph 7.3 specifies checks and services that must be accomplished weekly and under the special conditions listed below.

### (1) Vehicular installations.

- (a) Before the vehicle starts on a mission.
- (b) When the equipment is initially installed.
- (c) When the equipment is reinstalled after removal for any reason.
- (d) At least once each month if the equipment is maintained in standby condition.

### (2) Transportable and mobile installations.

- (a) When the equipment is initially installed.
- (b) When the equipment is reinstalled after removal for any reason.
- (c) At least once each week if the equipment is maintained in standby condition.

b. Paragraph 7.4 specifies *additional* checks and services that must be performed *once* each week.

## 7.3. Weekly Preventive Maintenance Checks and Services Chart

Sequence No.	Item	Procedure	References
1	Exterior surfaces-----	Remove dirt, dust, and grease. Check for chipped paint and scratches.	Paragraph 7.4.
2	Screws -----	See that all screws are tight-----	Paragraph 12a.
3	Operation -----	Check for normal operation-----	TM 11-898.

## 7.4. Cleaning

Inspect the exterior of the equipment. The surfaces should be clean and free of dust, dirt, grease, and fungus.

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

**Warning:** Cleaning compound is flammable and

its fumes toxic. Provide adequate ventilation. *Do not* use near a flame.

b. Remove grease, fungus, and ground-in dirt from the cases; use a cloth dampened (not wet) with cleaning compound.

c. Remove dust or dirt from the octal socket with a brush.

## Section II. ORGANIZATIONAL PREVENTIVE MAINTENANCE

### 7.5. Organizational Preventive Maintenance

a. Preventive maintenance is the systematic care, inspection, and servicing of equipment to maintain it in serviceable condition, prevent breakdowns, and assure maximum operational capability. Preventive maintenance is the responsibility of all echelons concerned with the

equipment and includes the inspection, testing, and repair or replacement of parts, subassemblies, or units that inspection and tests indicate would probably fail before the next scheduled periodic service. Preventive maintenance checks and services of the equipment at the



second echelon level are made at monthly intervals unless otherwise directed by the commanding officer. The preventive maintenance checks and services should be scheduled concurrently with the periodic service schedule of

the carrying vehicle for all vehicular installations.

b. Maintenance forms and records to be used and maintained on this equipment are specified in TM 38-750.

## 7.6. Monthly Preventive Maintenance Checks and Services Chart

Sequence No.	Item	Procedure	References
1	Completeness -----	See that the equipment is complete-----	TM 11-5820-210-10P.
2	Installation -----	See that the equipment is properly installed-----	Paragraph 3.
3	Cleanliness -----	See that the equipment is clean-----	Paragraphs 7.4 and 14.
4	Publications -----	See that all publications are complete, serviceable, and current.	DA Pam 310-4.
5	Preservation -----	Check all surfaces for evidence of fungus. Remove rust and corrosion and spot-paint bare spots.	TM 9-213.
6	Modifications -----	Check DA Pam 310-4 to determine if new applicable MWO's have been published. All URGENT MWO's must be applied immediately. All NORMAL MWO's must be scheduled.	DA Pam 310-4 and TM 38-750.
7	Pluckout items-----	Inspect seating of pluckout items. Check for wrong, bent, or broken parts.	Paragraph 13.
8	Overheating -----	Check for discoloration, bulging, corrosion, and burned spots.	Paragraph 12b.
9	Connections -----	See that all wiring connections are tight-----	Paragraph 12b.
10	Screws -----	Check for looseness-----	Paragraph 12a.
11	Operation -----	Check for normal operation-----	Paragraph 18.

Page 15. Add the following Appendix:

### APPENDIX

### REFERENCES

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders.
TM 9-213	Painting Instructions for Field Use.
TM 11-898	Radio Receivers R-108/GRC, R-109/GRC, and R-110/GRC.
TM 11-5820-210-10P	Basic Issue Items List: Power Supplies PP-281/GRC, PP-281A/GRC, PP-282/GRC, and PP-282A/GRC.
TM 38-750	The Army Equipment Record System and Procedures.



By Order of the Secretary of the Army:

EARLE G. WHEELER,  
General, United States Army,  
Chief of Staff.

Official:

J. C. LAMBERT,  
Major General, United States Army,  
The Adjutant General.

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*NG*: State AG (3); units—same as active Army except allowance is one copy to each unit.

*USAR*: None.

For explanation of abbreviations used, see AR 320-50.

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