
 DEPARTMENT OF THE ARMY TECHNICAL MANUAL

 TELETYPEWRITER TEST SET TS-1060/GG,
 ORGANIZATIONAL MAINTENANCE, SECOND ECHELON

Headquarters, Department of the Army, Washington 25, D.C.
 8 October 1958

WARNING**HIGH VOLTAGE**

is used in this equipment.

DEATH ON CONTACT

may result if safety precautions
 are not observed.

Be careful not to contact high-voltage connections or any power connections when using or repairing this equipment. Turn off the power before making any connections. Turn off the power and discharge all high-voltage capacitors before doing any work inside the equipment. Be extremely careful when working on or near the power supply.

		Paragraph	Page
CHAPTER 1.	MAINTENANCE INSTRUCTIONS		
Section I.	General maintenance		
	Scope	1	2
	Extent of organizational repairman's maintenance.....	2	2
	Tools, materials, and test equipment required	3	2
	Preventive maintenance.....	4	2
II.	Troubleshooting		
	Equipment performance checklist.....	5	4
	Tube testing and replacement	6	5
	Input voltage connections.....	7	6
CHAPTER 2.	SHIPMENT AND LIMITED STORAGE		
	Disassembly of equipment.....	8	8
	Repackaging	9	8
APPENDIX.	REFERENCES.....	--	9

This copy is a reprint which includes current
 pages from Change 3.

CHAPTER 1
MAINTENANCE INSTRUCTIONS

Section I. GENERAL MAINTENANCE

1. Scope

a. This manual covers organizational maintenance of Teletypewriter Test Set TS-1060/GG. The operating instructions for this equipment are contained in TM 11-6625-207-10, Teletypewriter Test Set TS-1060/GG, Operator's Manual.

b. Forward comments concerning this manual to the Commanding Officer, United States Army Signal Publications Agency, Fort Monmouth, N. J.

Note. For applicable forms and records, see paragraph 2, TM 11-6625 207- 10.

2. Extent of Organizational Repairman's Maintenance

a. The duties normally performed by the organizational maintenance man are limited by available spare parts, tools, materials, and test equipment.

b. Second echelon maintenance for Teletypewriter Test Set TS-1060/GG consists of the following:

(1) Preventive maintenance (par. 4) . (2) Equipment performance (par. 5) . (3) Repairs (par. 6 and 7).

3. Tools, Materials, and Test Equipment Required

The tools, materials, and test equipment required for second echelon maintenance are listed below.

a. *Tools and Materials.*

(1) Tool Equipment TE-50-B.

(2) Tool Equipment TK-21/G.

(3) Cleaning Compound (Federal stock No. 7930-395-9542) .

(4) Lint-free cloth.

b. *Test Equipment.*

(1) Multimeter TS-297/U.

(2) Electron Tube Test Set TS-7/U, TV-7A/U, or TV-7B/U.

4. Preventive Maintenance

a. *DA Form 11-266.* DA Form 11-266 (Maintenance Checklist for Signal Equipment (Test Equipment)) (fig. 1) is a preventive maintenance checklist to be used at the second echelon. Items not applicable to the equipment are lined out in the figure. Reference to the ITEM block in the figure are to paragraphs that contain additional maintenance information pertinent to the particular item. Additional preventive maintenance information concerning items 1 through 7, and 10 on DA Form 11-266 will be found in the preventive maintenance portion of TM 11-6625-207-10. Instructions for use of the form appear on the form.

b. *Items.* The information shown is supplementary to DA Form 11-266. The item numbers correspond to the ITEM numbers on the form.

Warning: Disconnect all power before performing the following operations. After the power is disconnected some capacitors still may retain dangerous voltages. Before touching exposed electrical parts, short-circuit the parts to ground (or floating ground). When maintenance is completed, replace the chassis in the cabinet, reconnect the power, and check for satisfactory operation.

LEGEND for marking conditions: Satisfactory, ✓ Adjustment, Repair or Replacement required, X. Defect corrected, (X).						DAILY CONDITION FOR MONTH OF JULY 1958																											
DAILY						2D 3D ECH- ELON																											
NO.	ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1.	CLEAN DIRT AND MOISTURE FROM EXPOSED SURFACES OF HOUSINGS, CASES, CABINETS, CONTROL PANELS, MESS- CONNECTING PLUGS, CABLES, HEADSETS, MESS- SHIELDS, ETC.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	✓
2.	INSPECT FOR LOOSENESS OF EXTERIOR ITEMS SUCH AS SWITCHES, KNOBS, JACKS, CONNECTORS AND PILOT LIGHTS.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	✓	
3.	INSPECT CONTROLS FOR BINDING, SCRAPING. TIP CONTROLS LIGHTLY FOR CUT-OUT DUE TO LOOSE CONTACTS.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	✓	
4.	DURING OPERATION BE ALERT FOR ANY UNUSUAL PERFORMANCE OR CONDITION.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	
WEEKLY		CONDITION EACH WEEK					2D 3D ECH	ADDITIONAL ITEMS FOR 2D AND 3D ECHELON INSPECTIONS																		CONDITION							
5.	INSPECT CORDS, CABLES, WIRE AND SHOCK MOUNTS FOR BREAKS, CUTS, KINKS, DETE- RIORATION, STRAIN AND FRAYING.							✓	15.	INSPECT RESISTORS, BUSHINGS, INSULATORS FOR CRACKS, CHIPPING, BLISTERING, DISCOLORATION AND MOISTURE. PAR.5b	✓																						
6.	INSPECT CHASSIS AND LEATHER TIE- FOR BUSHINGS, CRACKING, TIGHTEN BUSHING BUSHINGS AND SHOCK MOUNTS.								16.	INSPECT JACKS AND CONNECTORS FOR SNUG FIT AND GOOD CONTACTS.	✓																						
7.	HAND CHECK FOR LOOSENESS OF EXTERIOR ITEMS SUCH AS HANDLES, LATCHES, KNOBS.							✓	17.	INSPECT VACUUM CAPACITORS FOR CRACKS AND MOISTURE.																							
8.	INSPECT FOR LUBRICATION IN ACCORDANCE WITH APPLICABLE OIL LUBRICATION ORDER.								18.	INSPECT AIR FILTERS FOR CLOGGING.																							
9.	INSPECT ONLY BATTERIES FOR DIRT, GOOD TERMINALS AND LEAKAGE.								19.	INSPECT GENERATOR TERMINALS OF TRANSFORMERS, FIXED CAPACITORS, RESISTORS, SHOCKS, POTENTIOMETERS AND RHEOSTATS FOR CORROSION, DIRT AND LOOSE CONTACTS. PAR.5b	✓																						
10.	INSPECT EXPOSED METAL SURFACES FOR RUST AND CORROSION.							✓	20.	CLEAN AND TIGHTEN SWITCHES, SLIDERS, RELAY CASES, CLEAN INTERIOR OF CHASSIS AND CABINETS.	✓																						
11.	INSPECT HOUSINGS FOR CRACKS GLASS AND CASES.								21.	INSPECT GENERATORS, MOTORS AND SYNCHRONIZERS FOR CRACK- WEAR, SPRING TENSION, ARMATURE AND COMMUTATOR WEAR.																							
ADDITIONAL ITEMS FOR 2D AND 3D ECHELON INSPECTIONS								22.	INSPECT TERMINAL CLOSING FOR LOOSE CONNECTIONS, CRACKS AND BREAKS.																								
12.	INSPECT SEATING OF READILY ACCESSIBLE ITEMS OF A PLUCK-OUT NATURE: GENERATORS, FUSES, GENERATOR TERMINALS, ETC. DO NOT REMOVE, ROCK OR TWIST TO INSPECT. USE ONLY A DIRECT PRESSURE TO INSURE THE ITEM IS FULLY SEATED.							✓	23.	INSPECT BUSHES AND BUSHINGS FOR WEAR AND DAMAGE.																							
13.	INSPECT FOR CLEANLINESS AND TIGHTNESS OF BUSHINGS AT SHOCK MOUNTS, ANTENNA, ANTENNA MOUNTS AND WAVE GUIDES.								24.	INSPECT CATHODE RAY TUBES FOR BURNED SCREEN SPOTS. PAR.5b AND 6b	✓																						
14.	INSPECT RELAY AND CIRCUIT BREAKER ASSEMBLIES FOR DIRT, CORROSION, WORK OR BURNED CONTACTS.								25.	REMOVE STOPPING OF SHIPPING REMOVE AIR BATTERIES																							
IF DEFICIENCIES NOTED ARE NOT CORRECTED DURING THE INSPECTION, INDICATE ACTION TAKEN FOR CORRECTION. (Continue on page 4, if more space is needed)																																	
ITEM 4. TUBE VI REPLACED. EQUIPMENT TURNED IN TO HIGHER ECHELON FOR RECALIBRATION.																																	

Figure 1. DA Form 11-266, pages 2 and 3