60-TYPE HEAD TELEPHONE SETS

VISUAL INSPECTION AND ELECTRICAL TESTS

1. GENERAL

1.01 These inspections and tests cover the cord and plug, transmitter-receiver unit, speech tube assembly, amplifier, and headband.

1.02 This section is reissued to:

- Revise 1.04 and 1.07
- Add 1.06 and 1.10
- Revise Parts 2 and 3
- Revise Fig. 2

Since this a general revision, arrows denoting changes have been omitted.

1.03 The 60A (Fig. 1) and 60B (Fig. 2) headsets are supported by a lightweight, adjustable headband. The housings contain an LB-type receiver unit, a 104A varistor, and an AE1 transmitter unit. Sound is transmitted from the mouth to the transmitter by means of a clear plastic tube which can be rotated and adjusted for length.

1.04 The 60A headset is equipped with an L4CJ straight cord and a 280A amplifier. The 60B headset is equipped with an L4CL cord to a 281A amplifier, and an L4CM cord from the 281A amplifier to the 464A plug.

1.05 See Section 028-362-801 for piece-part data and replacement procedures.

1.06 The 60-type headsets provide proper transmission levels when used on loops which do not exceed the Resistance Design Limit of 1300 ohms. For use of headsets on loops which exceed the ***Resistance Design Limit,*** it is recommended that a 241B Amplifier be used as the internal transmit amplifier in the station equipment. When the headsets are used with telephone sets or PBX consoles which contain internal transmit amplifiers, a 52- or 53-type handset should not be placed in parallel as the low impedance of the carbon transmitter will seriously reduce the gain of the headset amplifier.

1.07 The handsets are designed to withstand normal handling and use; however, excessive mechanical abuse, such as raps against a hard surface, can damage components of the head telephone sets. When not in use the headsets should be stored in the pouch provided.

1.08 Do not attempt to make repairs to the amplifier, speech tube assembly, or transmitter and boot assembly. These items should be returned in accordance with local instructions to the Western Electric Company.

1.09 Spare head telephone sets should be substituted for sets which are reported as being in trouble several times during a period of 30 days, and on which the tests and inspections covered herein have disclosed no defects. These sets should be referred to the supervisor for disposition.

1.10 It is recommended that spare speech tubes be kept on hand locally to replace broken or lost speech tubes.

2. VISUAL INSPECTION

2.01 Inspect the headset by following the procedures listed below. Refer to Section 028-362-801 for piece-part replacement procedure.

INSPECTION

STEP	TEST	CORRECTIVE ACTION
1	Inspect for the presence of all parts (See Fig. 1 and 2)	Replace headset or parts.

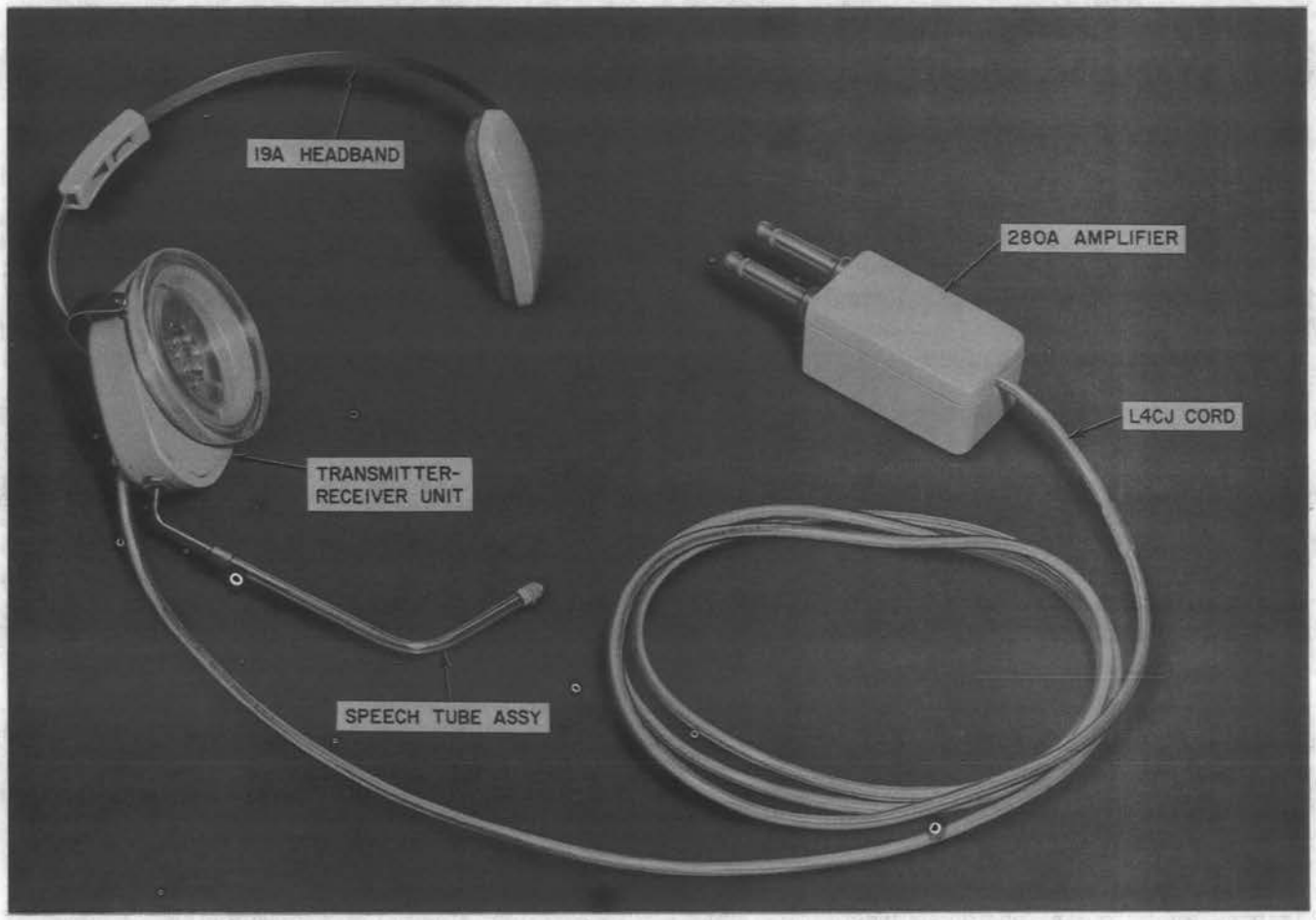

Fig. 1—60A Head Telephone Set

STEP	TEST	CORRECTIVE ACTION
2	Inspect for soiled, cut, crushed, kinked, or abraded cord and wrist loop (if used)	Clean or replace defective cord. Replace all transparent cords with ivory jacketed nylon insulated conductor cords.
3	Inspect for stained, broken, cracked, or clipped plastic parts	Replace headset or defective parts.
4	Inspect for deformed, mutilated, plugged, or loose speech tube assembly	Replace defective speech tube assembly.
5	Inspect headband for loose yoke; missing, dirty or damaged pad; missing or loose band.	Clean or replace defective parts
6	Inspect for dirty or damaged plug profiles	Clean or replace defective parts
7	Inspect 281A amplifier switch for easy operation and locking.	Replace defective switch.

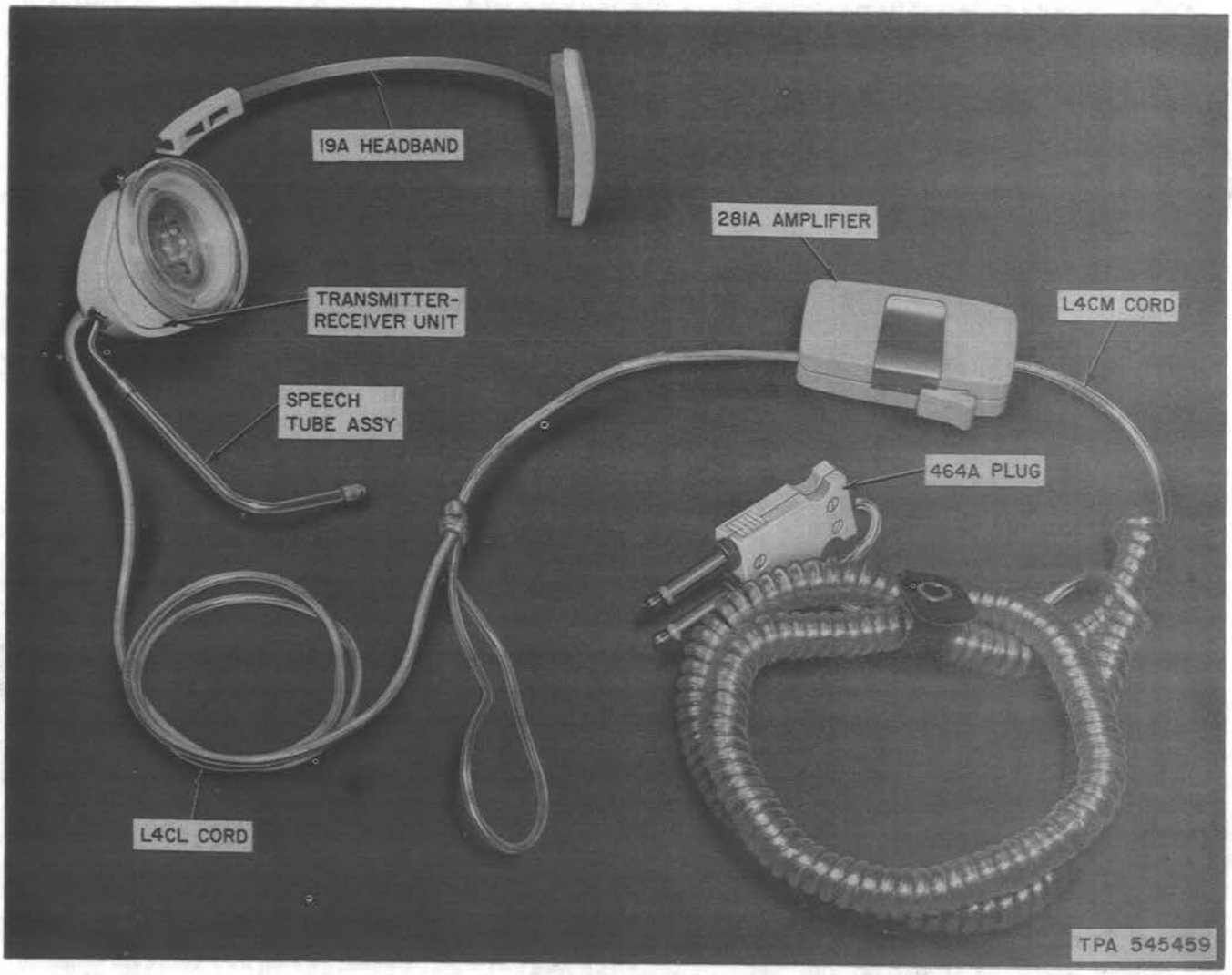

Fig. 2—60B Head Telephone Set

3. ELECTRICAL TEST

Caution: Do not apply an ohmmeter to the plug tips since many ohmmeters use battery supplies in excess of 6 volts and could damage amplifier components.

3.01 Connect headset to suitable attendant circuit and activate. Talk, whistle, or blow into speech tube. Reverse headset plug and repeat. The information listed below is given to aid in determining the cause and correction of any troubles. Refer to Section 028-362-801 for piece-part replacement procedures.

	TROUBLE SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1	No sidetone, intermittent sidetone, normal circuit noise heard in receiver	Loose connections in transmitter-receiver unit, amplifier switch (if used), or plugs	Check and tighten connections.
		Defective cord	Replace
		Defective transmitter unit	Replace
		Defective amplifier	Replace
		Defective switch on 281A amplifier	Replace
2	No sidetone, normal circuit noise not present at receiver.	Loose connections in transmitter-receiver unit, amplifier switch (if used), or plugs	Check and tighten connections
		Defective cord	Replace
		Defective receiver unit	Replace
3	No sidetone when telephone set plug is reversed.	Defective amplifier	Replace
4	Receiver noisy when cord is twisted or shaken.	Defective cord	Replace
5	Crackling noises in receiver when switch on 281A amplifier is operated.	Defective switch	Replace