

61-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, amplifiers, and molded earpiece.

1.02 This section is reissued to:

- Revise 1.04, 1.07, and 1.09
- Add 1.10
- Revise Part 2 and 3
- Revise Fig. 2

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

1.03 The 61A (Fig. 1) and 61B (Fig. 2) are miniature headsets fastened to a hearing aid-type earpiece custom-molded to fit the ear. The housings contain an MA1 receiver unit, a 107A varistor, and an AE1 transmitter unit. Sound is directed from the mount to the transmitter unit by means of a clear plastic tube which can be rotated and adjusted for length. An adaptor inserted in the molded earplug provides friction to hold the headset in the desired position.

Caution: *Pain or damage to the ear can result from rapidly jerking the earpiece out of the ear. When objectionable noises are encountered, remove the plug from the position jack.*

1.04 The 61A headset is equipped with an L4CH straight cord and a 280A amplifier. The 61B headset is equipped with an L4CK cord to a 281A amplifier, and an L4CM cord from the 281A amplifier to the 464A plug. A locket and cord assembly is provided to support part of the cord weight and also protects the operator from any

discomfort which might result from a sudden or accidental pull on the headset cord.

1.05 The 61-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 headset should not be placed in parallel as the low impedance of the carbon transmitter will seriously reduce the gain of the headset amplifier.

1.06 See Section 028-363-801 for piece-part data and replacement procedures.

1.07 The headsets 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, receiver and boot 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 and the operator's earpiece should be retained.

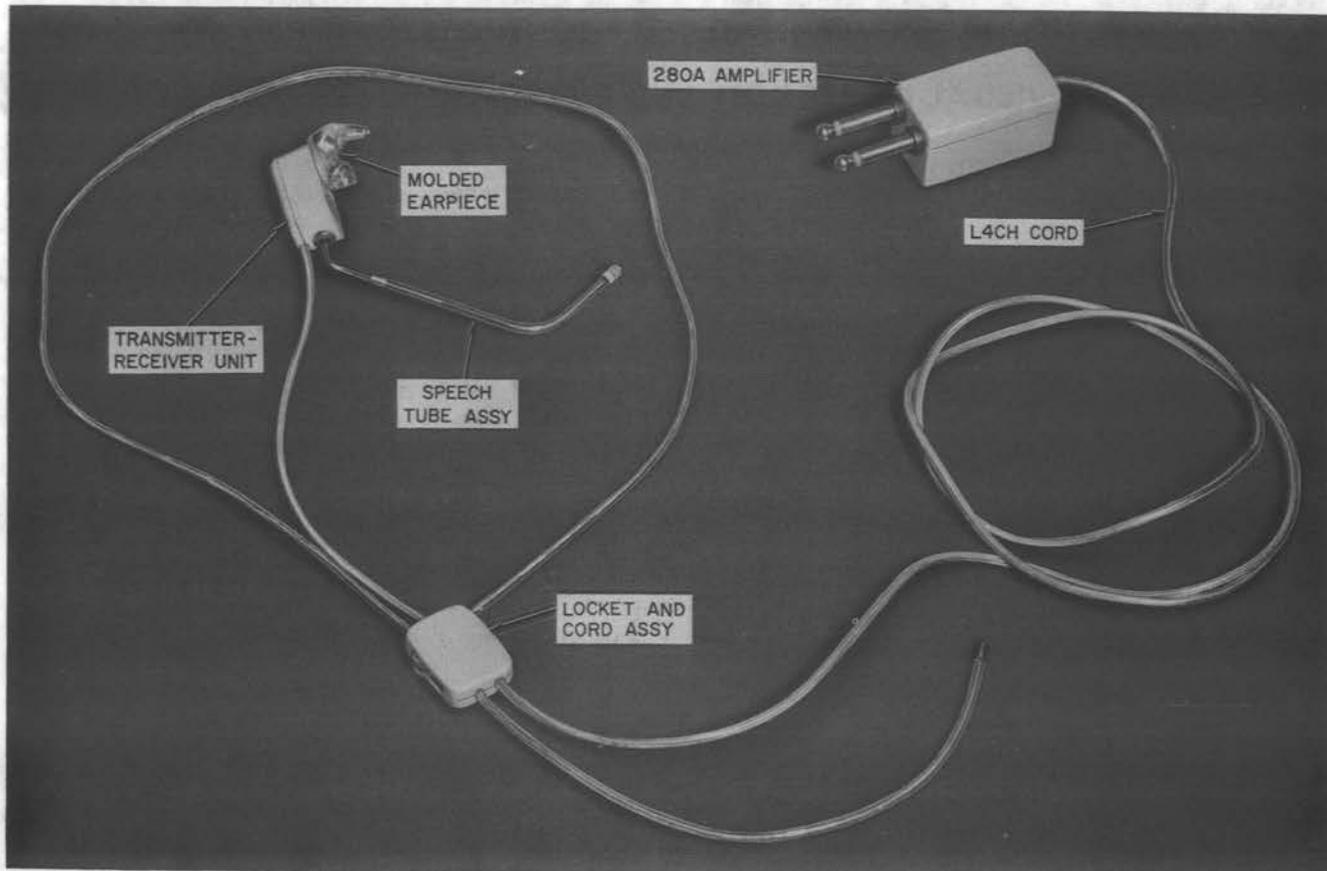


Fig. 1—61A Head Telephone Set

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

2. VISUAL INSECTION

2.01 Inspect the headset by following the procedures listed below. Refer to Section 028-363-801 for piece-part replacement procedure.

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

STEP	TEST	CORRECTIVE ACTION
4	Inspect for deformed, mutilated, plugged, or loose speech tube assembly.	Replace defective speech tube assembly.
5	Inspect earpiece assembly for snugness.	Replace defective O-ring.
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.

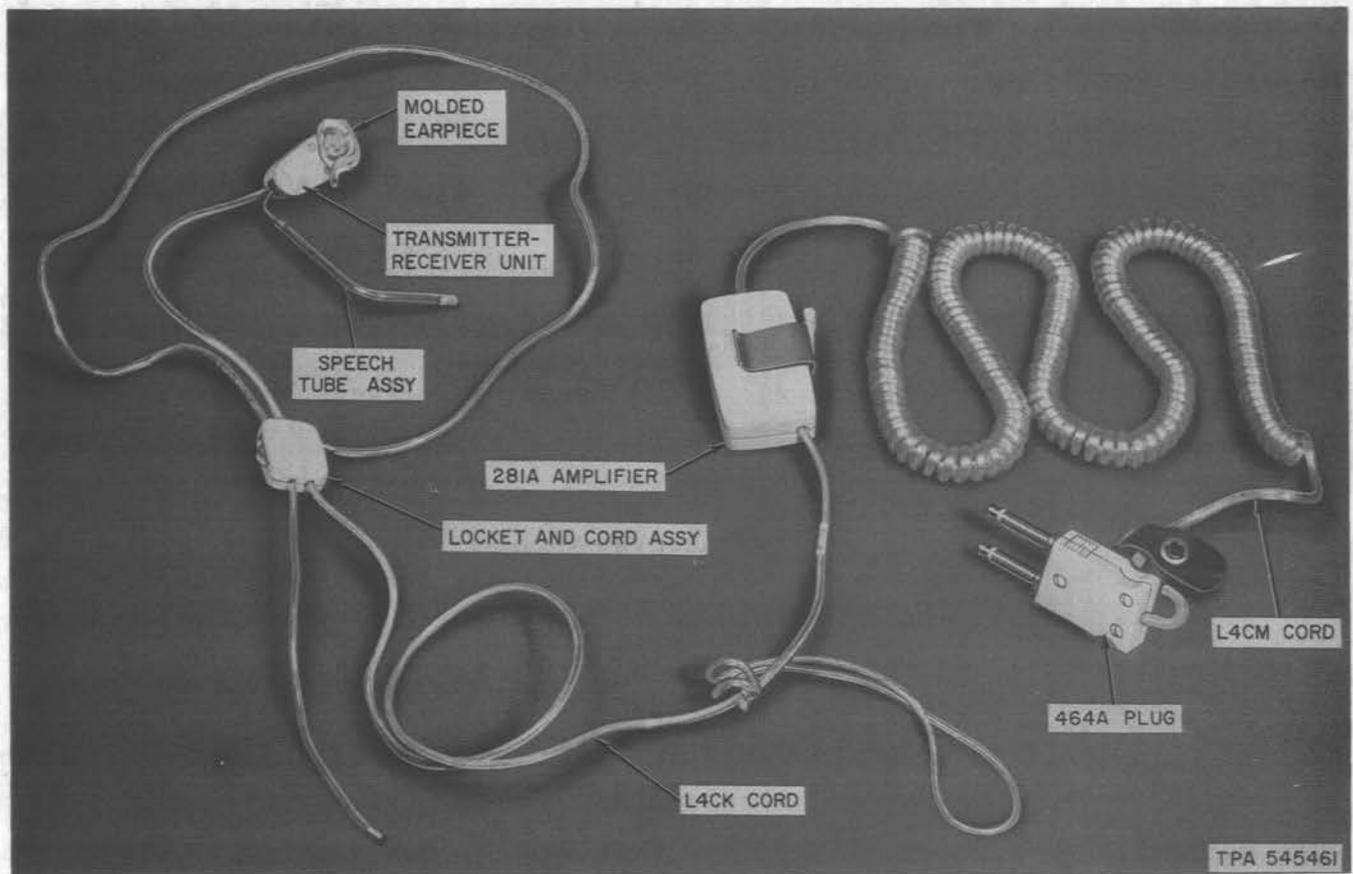


Fig. 2—61B Head Telephone Set

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 028-363-801 for piece-part replacement procedures.

SECTION 028-363-501

TROUBLE SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1 No sidetone, intermittent sidetone.	Loose connections in amplifier, amplifier switch (if used), or plugs	Check and tighten connections.
	Defective cord	Replace
	Defective transmitter unit	Replace
	Defective amplifier	Replace
2 No sidetone when telephone set plug is reversed.	Defective switch on 281A amplifier	Replace
	Defective amplifier	Replace
3 Receiver noisy when cord is twisted or shaken.	Loose connections at amplifier (if used), or plugs.	Check and tighten connections.
	Defective cord	Replace
4 Crackling noises in receiver when switch on 281A amplifier is operated.	Loose connections at amplifier (if used), or plugs	Check and tighten connections.
	Defective switch	Replace