

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 add *Caution* to Part 3 and make minor corrections.

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 a supervisory cord consisting of an L4CK cord, a 281A amplifier, and an L4CM cord terminated in a 396A or 464B 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.

2. VISUAL INSPECTION

STEP

ACTION

VERIFICATION

A. Cord and Plug

1 Inspect cords.

Not knotted, soiled, cut, crushed, kinked, or abraded.

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 Excessive mechanical abuse, such as raps against a hard surface, can damage components of the head telephone sets. Care should be exercised not to scratch or nick the transmitter-receiver or amplifier plastic housings.

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.

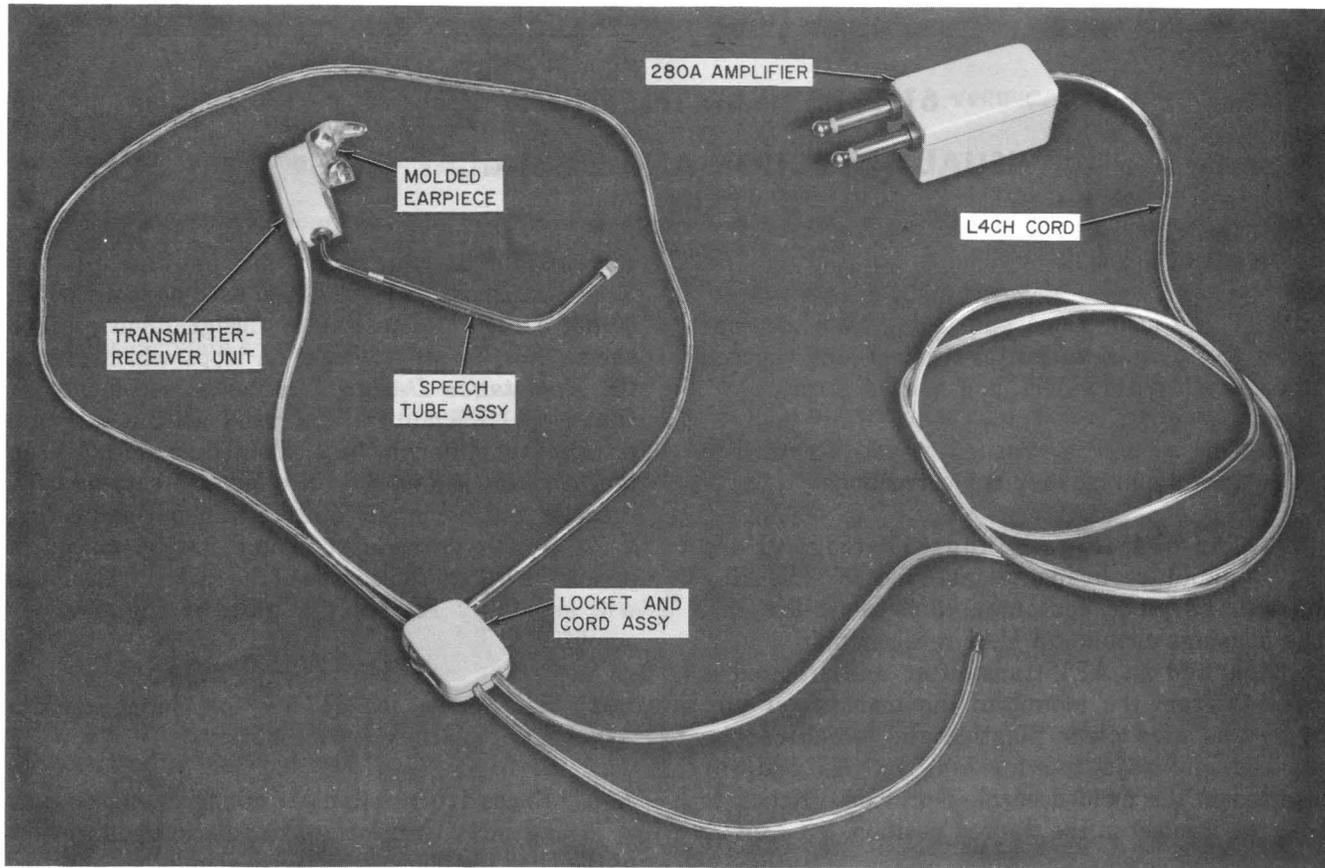


Fig. 1—61A Head Telephone Set

STEP	ACTION	VERIFICATION
2	Inspect wrist loop.	Not missing, torn, worn, or otherwise defective.
3	Inspect 396A or 464B plug or plug part of 280 amplifier.	Not bent or dirty. Parts not loose, missing, or defective.
B. Transmitter-Receiver Unit		
1	Inspect transmitter-receiver housing.	Housing not dirty, broken, cracked, or chipped.
C. Speech Tube Assembly		
1	Inspect speech tube assembly.	Not deformed, mutilated, plugged, or loose.
D. Amplifier		
1	Inspect amplifier housing.	Housing not dirty, broken, cracked, or chipped. Housing screws not loose or missing. Housing threads not damaged.
2	Operate switch on 281 amplifier.	Switch operates properly.

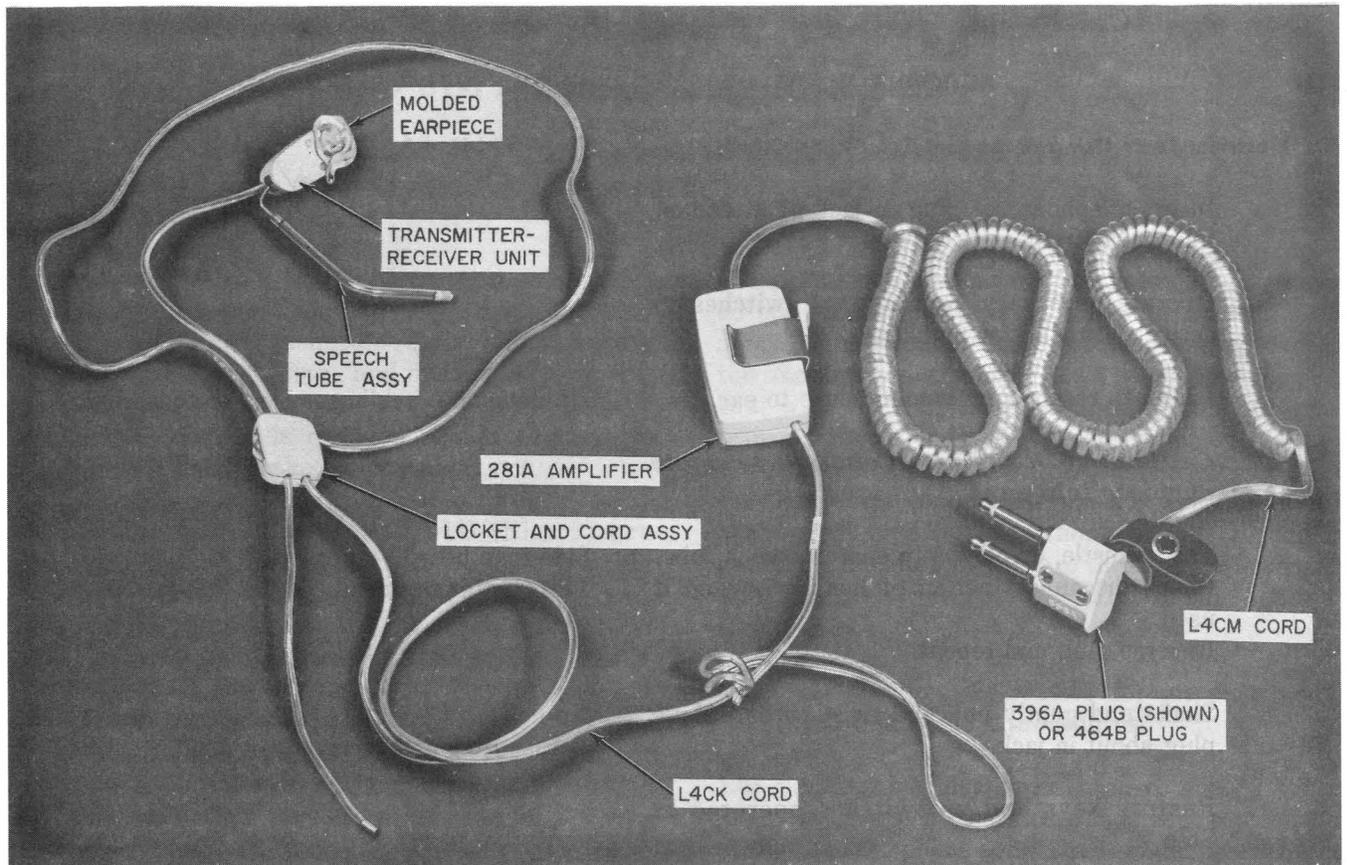


Fig. 2—61B Head Telephone Set

STEP	ACTION	VERIFICATION
E. Molded Earpiece		
1	Inspect earpiece	Not deformed, clogged, dirty, broken, cracked, or chipped. Earpiece fits adapter snugly.
2	Inspect adapter and O-ring.	Not dirty or damaged. Provides enough friction to hold the headset in position.

3. ELECTRICAL TESTS

Caution: Do not apply more than 6 volts to plug tips as higher voltage could damage amplifier components.

Caution: Some ohmmeters use battery voltages that may be unsafe for all but cord continuity tests.

STEP	ACTION	VERIFICATION
A. Electrical Tests Using Attendant Telephone Circuit		
1	Insert telephone set plug in jack of attendant telephone circuit.	
2	Operate necessary keys and/or switches to activate transmitter amplifier.	
3	Listen to receiver by holding close to ear.	No unusual crackling noises, or tones heard.
	Caution: Do not insert operators custom earpiece into ear.	
4	Talk, whistle, or blow into end of speech tube. Check disconnect action of headset switch if used. Reverse plug and repeat.	Side tone heard. Transmitter not dead.
5	Shake and gently pull and twist cords. Move plug about in jack.	No noise. Transmitter and receiver not dead.
6	Restore keys and/or switches operated in Step 2.	
7	Remove telephone set plug from jack of attendant telephone circuit.	