1020-TYPE HEADSETS
PIECE-PART DATA, VISUAL INSPECTIONS AND ELECTRICAL TESTS

1. GENERAL

1.01 This section covers the piece-part data, visual inspections and electrical tests for 1020 type headsets such as those used in service observing.

1.02 This section is reissued to incorporate material from the addendum in its proper location.

1.03 Exercise care not to scratch the thermoplastic parts of the headset.

2. PIECE PART DATA

2.01 Receiver

Part	Code No.	Piece Part No.
Receiver Unit	HC3	
Receiver Holder Assembly	12A	
Receiver Cap		P-16A600
Screw (for cord terminals)		P-335515
Screw Eye		P-283364
Soft Paper Pad } used on Adapter } receiver	101A 104B	

2.02 Headband

Part	Code No.	Piece Part No.
Headband (includes pad)	15B	
Headband Pad		P-482085

2.03 Cords and Associated Parts

Part	Code No.	Piece Part No.
Cord for No. 1020A headset	L4U, 6′	
Cord for No. 1020B headset	L4AY	
Cord Tip (rubber)	77	
Cord Tip (rubber for stay hook)	126	
"S" Hook (stay hook)		P-360424

2.04 Nos. 289A and B Plugs

Part	Code No.	Piece Part No.
Grooved Shell Half (No. 289A plug)		P-238148
Grooved Shell Half (No. 289B plug)		P-371708
Shell Half (No. 289A plug)		P-238147
Shell Half (No. 289B plug)		P-371707
Fastener		P-474993
Screw (No. 289A plug)		P-288033
Screw (for fastener)		P-238143
Screw (for cord terminals)		P-484150

3. METHOD

3.001 **List of Tools and Materials**

Code or Spec. No.	Description
Tools	
567B	Pad Assembly Tool
KS-2348	Cord Repair Screwdriver
KS-6015	Duck Bill Pliers
KS-6854	3-1/2″ Screwdriver
—	3″ Cabinet Screwdriver
Materials	
KS-2423	Cloth
KS-8496	No. 3 Lubricating Compound
—	Clear Petrolatum

Visual Inspection

Cords and Plugs

3.01 Inspect for a badly soiled, worn or frayed cord and replace it if required. Untie knots in the cord.

3.02 Inspect for broken or missing tie cords and replace as required. Tighten loose or improperly fastened tie cords.

3.03 Inspect for a worn or bent plug. Tighten all parts of a plug which are loose and replace missing or defective parts. Clean a plug which requires it in accordance with Section 022-180-811.

3.04 **Replace torn, worn or missing rubber sleeves and a defective or missing stay hook.**

Receivers

3.05 Replace a broken, cracked or badly chipped receiver case or cap or one having threads damaged sufficiently to prevent screwing the cap tightly on the receiver case.

Note: When the cap is screwed finger tight on the receiver case, in accordance with standard practice, there will be a slight gap between the case and cap.

3.06 If the contact springs of either receiver holder are loose, defective or missing, replace the receiver holder.

3.07 Tighten loose cord terminal screws and tie cord screw eyes. Replace missing screws and screw eyes.

3.08 Inspect for dirty receiver cases and caps. To clean dirty caps, wipe them with a clean KS-2423 cloth slightly dampened with water. Replace caps which are not cleaned satisfactorily by this method and return them in accordance with local instructions. Remove the receiver units from the receiver cases and shake or gently blow any dirt or dust out of the cases. The exteriors of the cases, if dirty, may also be cleaned with a KS-2423 cloth slightly dampened with water. Replace cases which are not cleaned satisfactorily by this method and return them in accordance with local instructions. Dry the cases and caps before the receiver units are assembled in the cases. When positioning a receiver unit in the case, mount it so that the code marking on the unit is at the opposite side of the receiver case from the binding posts. If difficulty is encountered in screwing the caps on the cases, apply clear petrolatum very sparingly to the threads of the cases.

Caution: Do not use alcohol or a chloride base cleaner as these will attack the case and cap material and may render the set flammable.

Headband

3.09 Adjust badly bent wires. Any adjustment of the wires adjacent to the triangular supports shall not prevent their sliding in the triangular supports which shall grip them friction tight. Replace the headband if any parts are broken.

3.10 Check the movement of each yoke pin in its triangular support. If bind is felt, pull the yoke pin out from the support as far as possible and apply a thin film of KS-8496 compound to the shaft of the pin for a distance of 1/2″ from the triangular support.

3.11 Manually adjust yokes which do not hold the receivers snugly.

3.12 Replace a pad which is broken, torn or has sharp chips which might catch in the hair. Attach a pad to the headband as shown in Fig. 1. If the pad does not bend easily, moisten the narrow portions on both sides of the pad. Allow 15 minutes for the water to soak in before bending the pad.

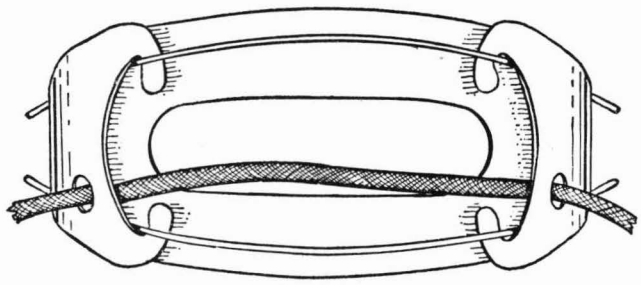

FIG. 1 • TOP VIEW OF HEADBAND WITH HEADBAND PAD IN POSITION

3.13 To adjust a headband to fit a very small head, proceed as follows: Pull the wires from the triangular supports as far as possible. Hold the straight portion of one wire with the KS-6015 pliers, placing one edge of the pliers at the bend. Grasp the curved section of the wire in the hand and bend the wire inward as required. Take care to prevent bending or nicking the straight section of the wire. Repeat this procedure for both ends of each wire. Push the wires and yokes into the triangular supports as far as they will go. If the pressure on the ears is excessive or the headband does not rest on top of the head with the receivers on the ears, adjust the wires downward by holding them just above the triangular supports and pressing them at the middle with the thumbs.

Electrical Tests

3.14 Check the headset for loose electrical connections and correct as required.

3.15 While listening in the headset receivers, insert the plug into a supervisor jack at a vacant switchboard position or desk and then remove it. If a click is not heard in both receivers when the plug is inserted and removed, it may be due to a defective receiver unit or an open cord. Replace a suspected receiver unit with a new or repaired unit and then recheck the headset. If a click still is not heard in both receivers, an open cord is indicated. In this case, replace the cord.

3.16 To check for other cord defects, proceed as follows. Hold the plug of the headset firmly in place in the jack and shake the cord by means of a gentle twisting and pulling movement beginning at the base of the plug and continuing throughout the entire length of the cord to the points where it is connected to the receivers. While shaking the cord, listen in the receivers for disturbances. A click or scraping sound in a receiver will indicate a defect in the cord. If the cord is defective, replace it.

3.17 Tap the plug while in the jack to detect poor contacts. If it appears that a cutout is caused by the wearing on one side of each tip, rotate each shaft a quarter of a turn in the shell so as to present a new surface. Replace a plug which is defective.

4. REPORTS

4.01 The required record of these tests and inspections should be entered on the proper form.