

REPAIR OF HEADSETS
1020 TYPE

1. GENERAL

1.01 This section covers information necessary for ordering parts to be used in the repair of 1020-type headsets such as those used in service observing. It also covers approved procedures for repairing these sets.

1.02 This section is reissued to revise ordering information for replacement parts and to replace the No. 567A tool. Detailed reasons for reissue will be found at the end of the section.

1.03 Part 2 of this section covers part numbers and the corresponding names of the parts which it is practicable to replace in the field in the maintenance of these sets. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Replacement Parts.

1.04 Part 3 of this section covers the approved procedures for the replacement of the parts covered in Part 2. This information is called Replacement Procedures.

2. REPLACEMENT PARTS

2.01 The figures included in this part show the various parts in relation to other parts of the headset. The part numbers of the various parts are given together with the names of the parts as listed by the Western Electric Company Merchandise Department. Where these names differ from those in general use in the field, the latter names, in some cases, are shown in parentheses.

2.02 When ordering parts for replacement purposes, give both the part number and the name of the part. Example: P-335515 Screw. Do not refer to the BSP number or to any information shown in parentheses following the part number.

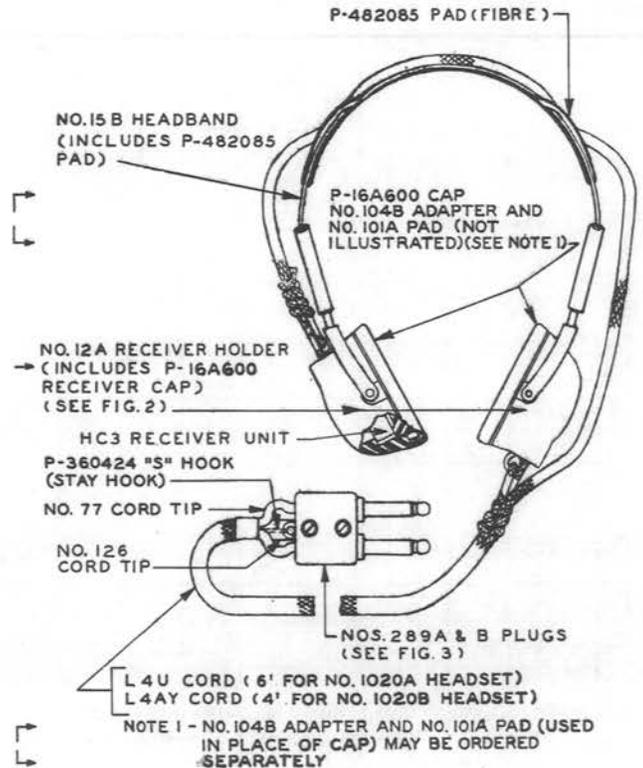


Fig. 1 - 1020-type Headset

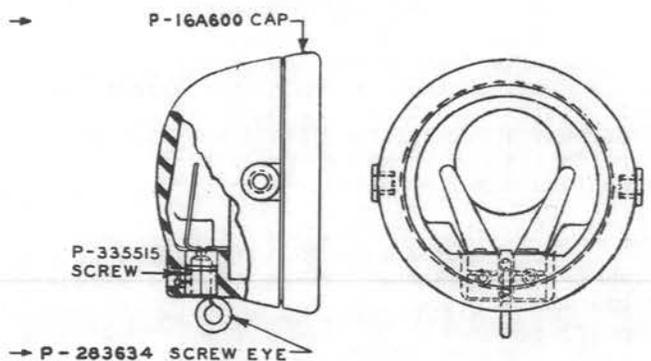


Fig. 2 - No. 12A Receiver Holder Assembly

SECTION 028-370-811

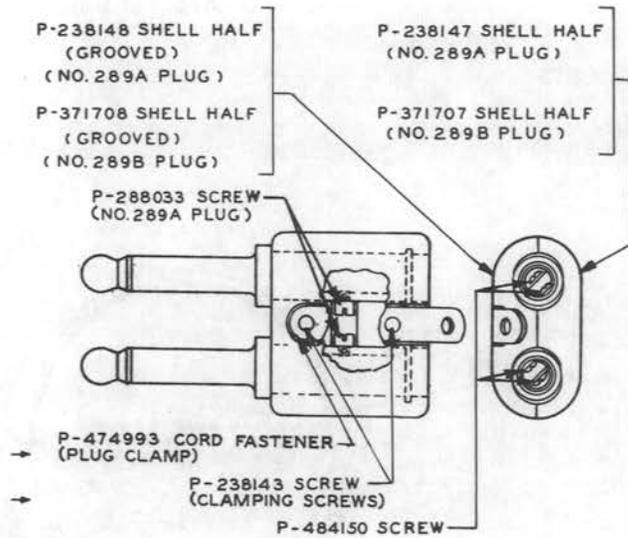


Fig. 3 - Nos. 289A and 289B Plugs

3. REPLACEMENT PROCEDURES

3.01 List of Tools

Code or Spec No.	Description
→ 567B (or replaced 567A)	Pad Assembly Tool
KS-2348	Cord Repair Screwdriver (Equipped with P-484700 bit)
KS-6854	3-1/2-inch Screwdriver
-	6-1/2-inch P-long-nose Pliers
-	3-inch Cabinet Screwdriver

3.02 After making replacement of parts, except those which do not affect transmission such as headbands and mounting screws, check the headset to see that it meets the requirements specified in Section 028-370-501.

3.03 No replacement procedures are specified for screws or other small parts when the replacement consists of a simple operation.

3.04 When making any replacement on a headset, make sure that the association of the headset and its identification is retained.

3.05 No. HC3 Receiver Unit: To replace the receiver unit (Fig. 1) unscrew the receiver cap from the receiver case and remove the receiver unit. Mount the new receiver unit so that the code marking on the unit is

at the opposite side of the receiver case from the binding posts. Screw the receiver cap finger tight. When properly tightened, there will be a slight gap between the rims of the case and the cap.

No. 12A Receiver Holder

3.06 To replace the receiver holder, proceed as follows. Remove the headband from the receiver holder. Disconnect the cord from the receiver holder by removing the two cord clamping screws, using the KS-6854 screwdriver, and then remove the cord terminals from the binding posts. Open the loop of the screw eye with the P-long-nose pliers and slip the tie cord from the screw eye.

3.07 Unscrew the receiver cap and remove the receiver unit.

3.08 When assembling the receiver holder, open the loop of the screw eye on the new holder with the P-long-nose pliers and slip the tie cord over it. Then close the loop taking care not to break the screw eye by applying too much force. Insert the cord terminals in the binding posts so that the smooth surface of the metal tip is in contact with the screw. Tighten the screws securely.

3.09 Mount the receiver unit in the receiver holder so that the code marking on the unit is at the opposite side of the receiver case from the binding posts. Screw the receiver cap finger tight. When properly tightened, there will be a slight gap between the rims of the case and the cap. Then remount the headband.

No. 101A Pad and No. 104B Adapter

3.10 Unscrew the adapter from the receiver holder. To replace the pad, place a new pad on the No. 567B tool with the plastic washer side toward the tool. Then place the nipple of the No. 104B adapter over the central part of the plunger of the tool. Press the adapter firmly toward the tool with a slight turning motion to snap the washer on the pad over the nipple of the adapter.

3.11 The receiver pad may be left on the receiver until the four layers of tissue with which it is arranged have been used. A layer of tissue is removed while the pad is on the adapter by breaking the top layer near the outer edge, peeling the tissue from the whole outer edge first, and then from around the plastic washer.

No. 126 Cord Tip, Plug Clamp, and Stay Hook

3.12 To replace the cord tip, remove the clamping screws of the plug using the 3-inch cabinet screwdriver. Substitute the new cord tip and reassemble the plug taking care that the cord tip is not caught under

the plug clamp. Tighten the clamping screws securely.

3.13 To replace a plug clamp or stay hook, proceed as follows. Remove the clamping screws with the 3-inch cabinet screwdriver. Remove the No. 126 cord tip. Open the loops of the stay hook with the P-long-nose pliers. Substitute new parts as required. Make sure that the small loop of the hook is connected to the cord. In closing the loops of the hook, take care that the ends do not overlap the straight portion of the hook. Remount the cord tip and reassemble the plug as described in 3.12.

Nos. 289A and 289B Plugs and No. 77 Cord Tips

3.14 Remove the clamping screws using the 3-inch cabinet screwdriver. Remove the cord terminal screws using the KS-2348 screwdriver and pull the cord from the plug. Substitute new parts as required. Insert the cord terminals into the plug fingers, taking care not to twist the cords more than 180 degrees. Insert and securely tighten the terminal screws. Reassemble the plug as described in 3.12.

Headband Pad

3.15 To remove a headband pad from the headset, remove the receiver at the terminating end of the headset cord from the headband. Loosen the cord terminal screws in the receiver case with the KS-6854 screwdriver and remove the cord terminals from the binding posts. Open the loop of the tie cord screw eye with the P-long-nose pliers and slip the tie cord from the screw eye. Remove the headset cord from the headband pad and remove the headband pad from the wires of the headband. Bend the end portions of a new headband pad back over the slotted central portion. 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. Slide the headset cord through the holes in the end flaps. Then position the pad on the headband as shown in Fig. 4. Close the loop of the tie cord screw eye, taking care

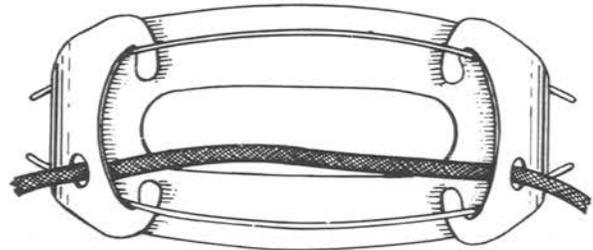


Fig. 4 - Top View of Headband With Headband Pad in Position

not to break the screw eye by applying too much force. Insert the cord terminals in the receiver case binding posts and tighten the cord terminal mounting screws securely. Remount the receiver case in the headband yoke.

No. 15B Headband

3.16 To replace the headband, remove the receiver at the terminating end of the headset cord from the headband. Loosen the cord terminal screws in the receiver case with the KS-6854 screwdriver and remove the cord terminals from the binding posts. Open the loop of the tie cord screw eye with the P-long-nose pliers and slip the tie cord from the screw eye. Remove the headset cord from the headband pad and remove the other receiver from the headband. Substitute the new headband and reassemble the parts of the headset in the reverse order.

REASONS FOR REISSUE

1. To replace the P-461464 cap with the P-16A600 cap (Figs. 1 and 2).
2. To replace the P-335524 screw eye with the P-283634 screw eye (Fig. 2).
3. To revise Figs. 1, 2, and 3 in accordance with the latest format.
4. To replace the No. 567A tool with the No. 567B tool (3.01 and 3.10).