

III. ACCESSORIES FOR THE VERSATILE HEADSET HS-30

Headset HS-30, the new universal type headset which can be worn comfortably under a Helmet M-1, or a gas mask, will eventually replace most other headsets for the Army Ground Forces, for it is designed to be used with various accessories such as impedance matching transformers, junction boxes, cords, etc., that will adapt it to any use. These accessories are shown in the accompanying drawing.

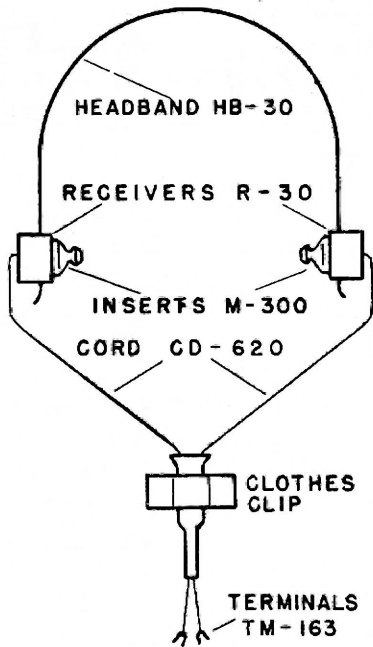
Headset HS-30-() consists of a Headband HB-30-(), two each Receiver R-30-(), two each Insert M-300, a Cord CD-620-() and Terminals TM-163. Cord CD-620-() includes a clip for attachment to the clothing, thus taking the weight of the cord and accessory equipment off the head of the user. It terminates in a pair of spade tips TM-163. Nothing else is supplied unless specifically ordered.

The impedance of HS-30 is 256 ohms. To match it into the output of high output impedance radio receiver, a 256:8000 ohm impedance matching transformer is required. This unit, Transformer C-410, is available as part of either of two cords: Cord CD-604 and Cord CD-605.

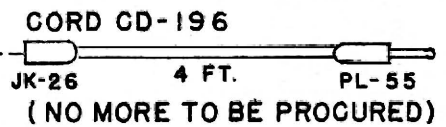
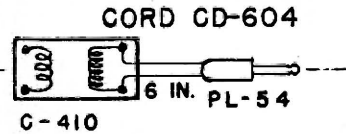
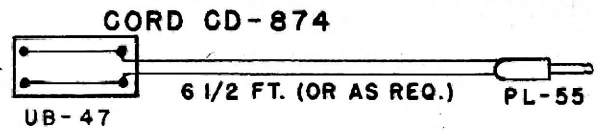
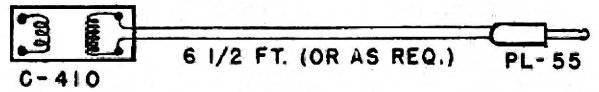
Cord CD-605 will be supplied in any specified length; if length is not specified, it will be supplied $6\frac{1}{2}$ feet long. This cord terminates in the 8000-ohms impedance winding of a Transformer C-410 at one end, and in a Plug PL-55 at the other end. It is used for matching and connecting Headset HS-30 to various radio receivers, inter-phone control boxes, jack boxes and radio control boxes.

Cord CD-604 is 6 inches long. One end terminates in the 8000 ohm wind-

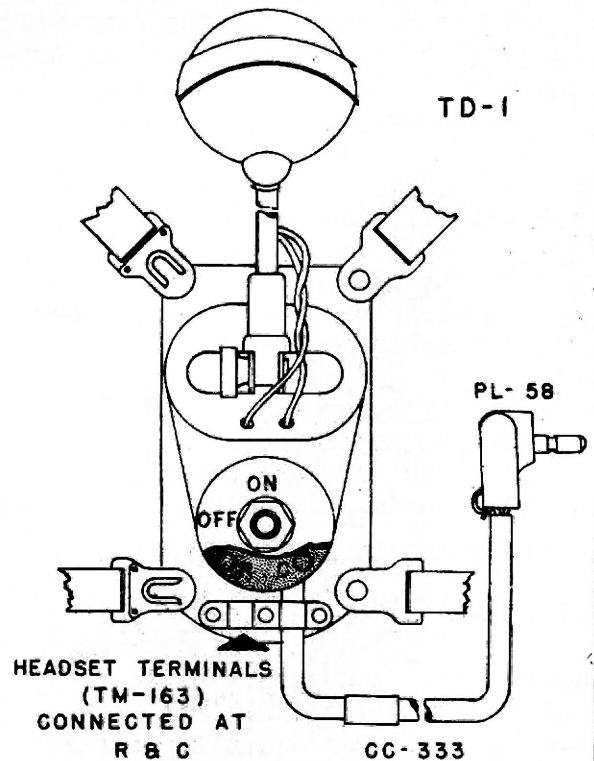
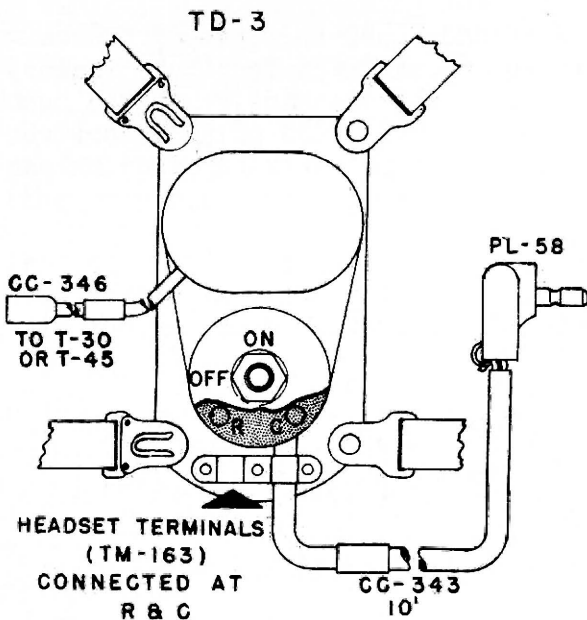
HEADSET HS-30 WITH ASSOCIATED CORDS FOR USE WITH RADIO EQUIPMENT
CORD CD-605



HEADSET HS-30



CHEST SETS USED WITH HS-30



ing of Transformer C-410; the other end, in a Plug PL-54. A Cord CD-307-A is commonly used in conjunction with this. Cord CD-307-A is obtainable in various lengths, as ordered. At one end it has a Jack JK-26 (to receive the Plug PL-54 of Cord CD-604); at the other, a Plug PL-55. This combination serves the same purpose as Cord CD-605, but has the advantage of being separable, which permits the operator to leave his equipment without removing HS-30. Cord CD-307-A replaces 4-foot Cord CD-196, no more of which are to be procured.

Where it is desired to feed Headset HS-30 from low impedance outputs, Cord CD-874 should be ordered. This cord is furnished in $6\frac{1}{2}$ -foot lengths, or in any other length requested. At one end it has a Junction Box JB-47 for attachment of HS-30; at the other end, a Plug PL-55.

In conjunction with various chest sets, HS-30 replaces Head and Chest Sets HS-19-A, HS-17-A, and HS-27-(). The chest sets must be ordered in addition to HS-30 if they are desired.

Chest Set TD-1, for use with HS-30 to replace HS-19-A, consists of a Chest Unit T-26, to which is connected a six-foot Cord CC-333 terminating in a Plug PL-58. This is part of GR-3-C, GR-4-A, TC-12, TC-10, and TC-4.

Chest Set TD-2, for use with HS-30 to replace HS-17-A, consists of a Chest Unit T-26, a 10-foot Cord CD-343-A and a Plug PL-58.

Chest Set TD-3, for use with HS-30 to replace HS-27-(), consists of a Chest Unit T-46, Straps ST-24 and ST-25, a Plug PL-58 and Cords CC-343-A and CC-346. This is part of TP-4. It does not include a microphone, but will accommodate T-30 or T-45.

Other accessories are being developed for use with HS-30; the output of future radio receivers will match its impedance. Under development is a junction box which will be strapped to the user, and which will incorporate retractable cords for a microphone and for connection to a radio set, the necessary attachment plugs, and a push-to-talk switch.

Headset HS-30-() is considered a large step toward effecting standardization of headsets and reduction of critical materials used, thus making mass production and interchangeability more practical than heretofore.

REMEMBER . . . None of the accessories -- transformer, cord, plug, etc. -- are included when only a Headset HS-30 is ordered. One or more will be needed in order to use the HS-30. The necessary accessories must be specified on the order.