

## RADIO SET A510

### REPAIR OF CONNECTORS 17 POINT, MALE AND FEMALE

#### FIELD AND BASE REPAIRS

#### *INTRODUCTION*

1. It has been found that the useful life of the connectors linking the transmitter and receiver of the Radio set A510, via the 17 point plug PL1 and socket SK1, is very short (two to three months), due to the practice by operators of using them as carrying handles. The treatment eventually results in the cable braid being pulled out of the locking cone in the cable covers (elbows). Breakage of cable conductors soon follows, due to the resultant excessive strain on them. Additionally, air leaks in the equipment may also occur due to strain imposed on the terminal blocks by the pull of the leads. This instruction details action to strengthen the anchorage of the braids to the cable covers of both transmitter and receiver.

#### *REPAIR PROCEDURE*

2. (a) Unscrew the cable connector nut from the cable cover and slide it along the sleeve away from the end.
- (b) Unscrew the four screws securing the cable cover and lift it.
- (c) Unsolder and identify the cable leads from the terminal block on the set. Slide off the cable cover.
- (d) Roll back the rubber sleeve to expose the cable end.
- (e) Withdraw the locking cone from between the cable braid and the plastic sleeving.
- (f) Prepare a small quantity of Araldite (8040-66-017-1902 Adhesive, comprising resin adhesive and hardener, Araldite).
- (g) Insert Araldite (as prepared at (f)) between the plastic sleeving and braid of the cable, using a nail or similar instrument for this purpose. Force the locking cone back between the plastic sleeving and the braid.
- (h) Replace the braid wire over the conical surface of the locking cone.
- (j) Roll back the rubber sleeve to its original position and slide the nut back to shoulder on the rubber sleeve.
- (k) Replace the cable cover on to the cable, resolder the connections to the terminal block, screw the cable cover back on to the front panel and refit the cable connector nut.
- (l) Paint a red stripe on the cable cover.
- (m) The action at sub-para (a) to (l) is to be carried out to the cables on both transmitter and receiver.

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