

WIRELESS STATION A510

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

Production changes and reporting of defects

1. Certain changes have been made in the design and construction of this equipment since it was first introduced. These changes, the corresponding modification record plate figures struck out, and the serial numbers of equipments incorporating them are listed below. Modification and miscellaneous instructions will be issued for unmodified equipments when the necessary stores are available.

2. It is essential, when reporting defects, to quote the serial numbers of equipments affected. This enables the effectiveness of the changes, which were introduced to cure certain weaknesses inherent in the early sets, to be assessed.

3. The list of modifications is as follows:-

- (a) Increase of sidetone oscillator keying speed from 8 to 20 w.p.m.
- (b) Improvement of netting facility by reduction of spurious responses
- (c) Improved wavechange switch assembly
- (d) Improved type of Cone, lock, on interconnecting cables
- (e) Improved type of Cover, cable entry, front panel
- (f) Improved tuning control drive-shaft worm, to reduce backlash

Modification	Equipments incorporating changes and mod record plate figures struck off			
	Receivers		Transmitters	
	Serial Nos	Figure struck off	Serial Nos	Figure struck off
(a)	B151 onwards	1	B151 onwards	1
(b)	B151 onwards	2	-	-
(c)	B401 onwards	3	-	-
(d)	B200 onwards	4	B200 onwards	2
(e)	B650 onwards	5	B501 onwards	3
(f)	B650 onwards	6	-	-

57/Maint/7216

END

STATION, RADIO, A510

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SUB-TITLE: Interconnecting cables

SUMMARY

1. It has been found that the lives of the connectors linking the transmitter and receiver of Station, radio, A510, via the 17-point plug PL1 and socket SKT1 are very short (2-3 months) due to the practice by operators of using them as carrying handles. The treatment as stated eventually results in the cable braids being pulled out of the locking cones in the respective cable covers (elbows) and breakage of cable conductors soon follows due to the excessive strain to which these items become subjected. Additionally, air leaks in the equipment may also occur due to strain imposed on the terminal blocks by the pull of the leads. This regulation details action to strengthen the anchorage of the braids to the cable covers of both transmitter and receiver.

ACTION

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 (Araldite HV100-H1(b)/8040-99-220-2423 and Hardener for HV100-H1(b)/8040-99-220-2434).
- (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 re-fit 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.