

CONDITIONS OF RELEASE

(To be applied to documents which the recipient Government may not release to anyone outside its Defence Departments).

- a. This information is released by the UK Government to the recipient Government for Defence purposes only.
- b. This information must be accorded the same degree of security protection as that accorded thereto by the UK Government.
- c. This information may be disclosed only within the Defence Departments of the recipient Government, except as otherwise authorized by Ministry of Defence (Army).
- d. This information may be subject to privately owned rights.

ELEVATED ANTENNA, 23-38 MHz KIT NO 1

ELEVATED ANTENNA, 36-60 MHz KIT NO 1

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

SUB-TITLE: Base antenna element - addition of resistor

1. Introduction

To allow a continuity test of the co-axial antenna feed cable to be made, without dismantling and disconnection, a resistor has been added between the inner and outer conductors in the base antenna element. This instruction details the action required to carry out this modification.

2. Priority Routine (Mgmt N 097 refers)

3. Estimated time required 0.75 man-hours

4. Items affected

Installation kit, electronic equipment, antenna 23-38 MHz
Z1/5985-99-103-7529
Installation kit, electronic equipment, antenna 36-60 MHz
Z1/5985-99-103-7578
Base, antenna element Z1/5820-99-103-4476

5. Action required by

a. Units and establishments holding equipment

(1) If a modification record plate, with figure 1 struck off, is not fitted to the equipment, demand stores in accordance with the instruction in para 6.

(2) On receipt of stores, request the unit responsible for field repair of the equipment to carry out this modification.

b. Units authorized to carry out field or base repairs

- (1) When requested by units, carry out this modification.
- (2) On repair or overhaul of equipment, demand stores and carry out this modification.
- (3) Ensure that figure 1 on the modification record label is struck through with a diagonal line on completion of this modification.

6. Stores, tools and equipment

a. Stores to be demanded

Stores are to be demanded through normal Ordnance channels quoting this EMER as the authority.

<u>VAOS</u> <u>Section</u>	<u>Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
Z30	5905-99-022-3086	Resistor, fixed, 240kΩ 1/4W	1
Y3	5940-99-901-4332	Terminal lug, 2 BA	1
Y3	5940-99-940-3499	Terminal lug, 4 BA	1
Y1	9905-99-943-8292	Label, modification record	1
G1	5320-99-948-2322	Rivet, rd. hd. alum 1/16 dia x 1/4 lg	4

7. Sequence of operations

- a. Referring to Tels L 032, Fig 1; remove the six 4 BA screws, nuts and crinkle washers securing the stay plate to the cover.
- b. Remove the 2 BA screw securing the pig-tail connector to the antenna mounting, add the 2 BA terminal lug supplied to the screw, and replace the screw, ensuring the pig-tail is correctly connected.
- c. On the side opposite to the coaxial plug, remove one of the six 4 BA nuts securing the drilled plate to the cover. Add the 4 BA terminal lug (supplied) and refit the nut, ensuring that there is good electrical continuity between the shell of the coaxial plug and the 4 BA terminal lug. If continuity does not exist, it may be necessary to remove paint to ensure a good electrical contact.
- d. Solder the 240kΩ resistor (supplied) between the 2 BA and 4 BA terminal lugs fitted at operations 7.b. and c.
- e. Check with an ohmmeter that the resistor is connected between the inner and outer conductors of the coaxial plug.
- f. In a convenient position on the outer curved surface of the tubular body, drill four 1/16 in. diameter holes and fit the modification record label using the four rivets supplied.

g. Refit the stay plate to the cover using the screws, nuts and washers removed in operation 7.a. Note the curved cut-out in the plate should be adjacent to the cable clamp.

h. Strike through, with a diagonal line, figure 1 on the modification record plate.

8. EMER amendments

The following amendment must be made to Tels L 032, Fig 1 on completion of this modification:

- a. Adjacent to pig-tail connection to aerial mounting insert: '**'
- b. At the foot of the page add:

'*Note: Resistor inserted to allow continuity checks of the feeder, see Mod Instr No 1'

T/61516/ D & M/Tels
ATMC No 01027

END