ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

(By Command of the Army Council)

TELECOMMUNICATIONS

L 034

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ELEVATED AERIAL, 23-38MC/S, KIT NO 1

ELEVATED AERIAL, 36-6CMC/S, KIT NO 1

TECHNICAL HANDBOOK - FIELD AND BASE REPAIRS

INTRODUCTION

This regulation provides information to assist in the repair of the Elevated aerial, 23-38Mc/s and Elevated aerial, 36-60Mc/s.

STRIPPING AND ASSEMBLY INSTRUCTIONS

Mounting, aerial and plug assembly

Remove the six screws and nuts securing the stay plate to the cover. Complete access is now possible to the pigtail connection and the co-axial plug assembly.

Aerial assembly

- 3. Stripping, proceed as follows:-
 - (a) Remove the rivet securing the adaptor to the lower end of the bottom element and detach the adaptor.
 - (b) Punch out the taper pin securing the top cap and remove the cap.
 - (c) Unscrew and remove the upper coupling sleeve.
 - (d) Using a blow lamp, unsolder the upper threaded collar and remove it.
 - (e) Ease the intermediate element through the bottom element until the lower end of the element appears. Locate the nipple at the end of the brass rod and unsolder it.
 - (f) Ease the top element out of the upper end of the intermediate element, and remove the brass rod leaving the upper nipple in place.

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- (g) Ease the intermediate element through the lower end of the lower element.
- (h) Unscrew the lower coupling tube and remove it. The aerial is now fully stripped.
- 4. Assembly, proceed as follows:-

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- (a) Ensure that the component parts of the aerial assembly are free from grease and dirt, and in particular that the brass rod is perfectly straight.
- (b) Pass the free end of the brass rod through the open end of the top element and carefully thread it through the bush at the other end of the element. When the free end of the rod appears, pull the rod to its fullest extent until the nipple butts against the top element bush.
- (c) Thread this projecting rod through the open end of the intermediate element and ease the rod and the top element through the intermediate until the free end of the rod appears through the lower bush. This operation requires patience and care must be taken to ensure that the rod does not kink or bend.
- (d) Solder the nipple on the free end of the rod and withdraw the top element until it projects through the top of the intermediate element.
- (e) Now pass the projecting end of the top element through the lower end of the lower element until it projects from the top. Slide on and tighten the lower coupling tube.
- (f) Resolder the upper threaded collar in its original position and replace the upper coupling tube.
- (g) Replace the top cap and taper pin. Replace the adaptor and rivet over. Close the aerial and retighten the coupling tubes. The aerial is now fully assembled.

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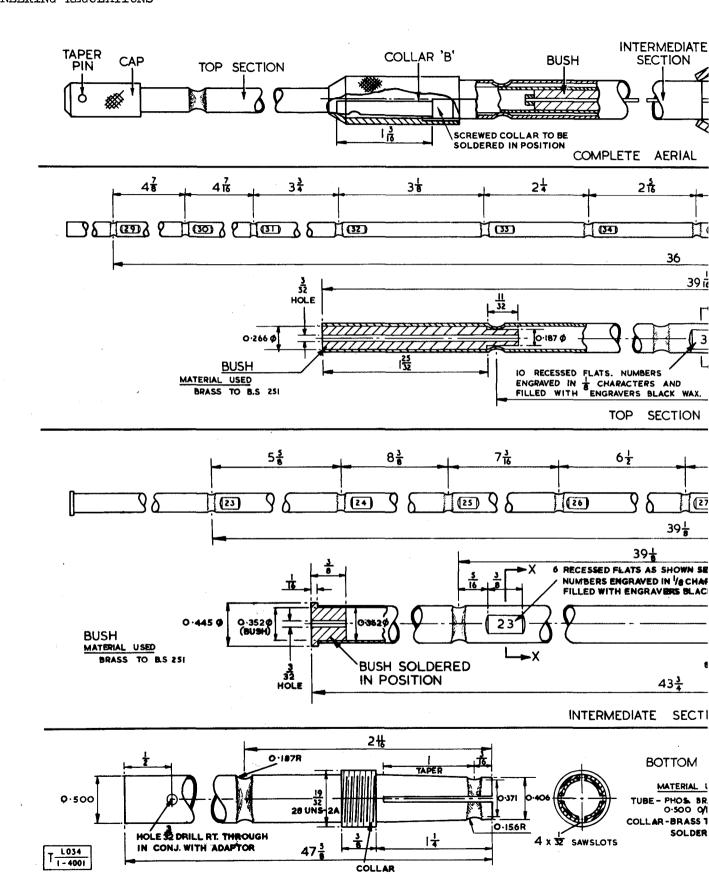
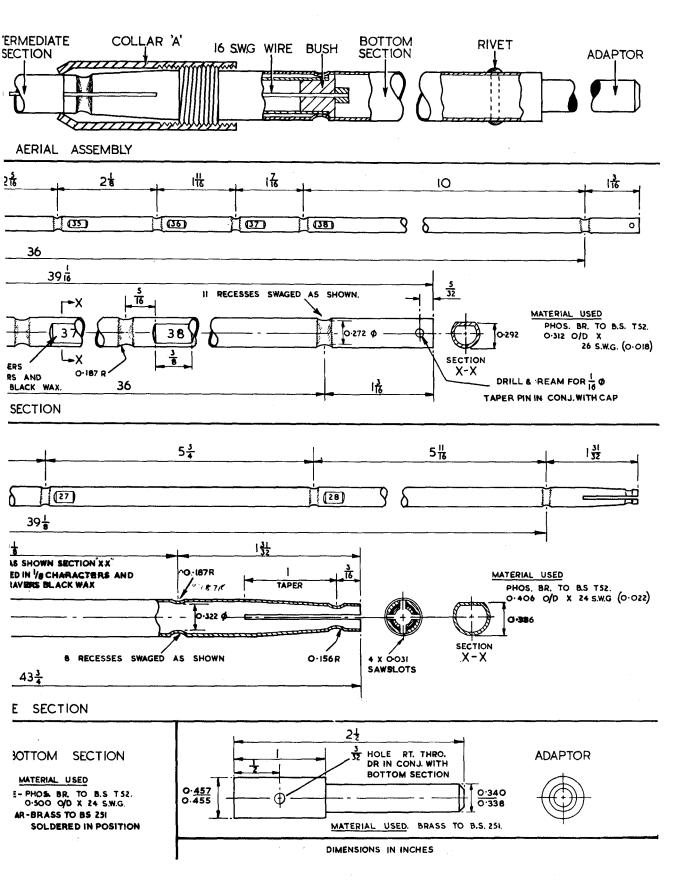


Fig 4001 - Elevated aerial



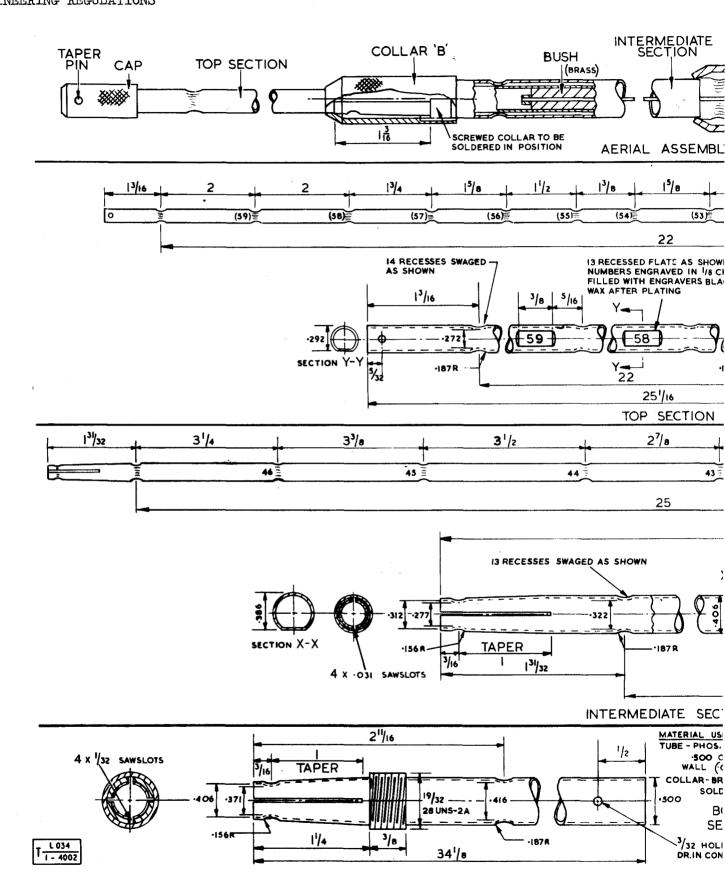
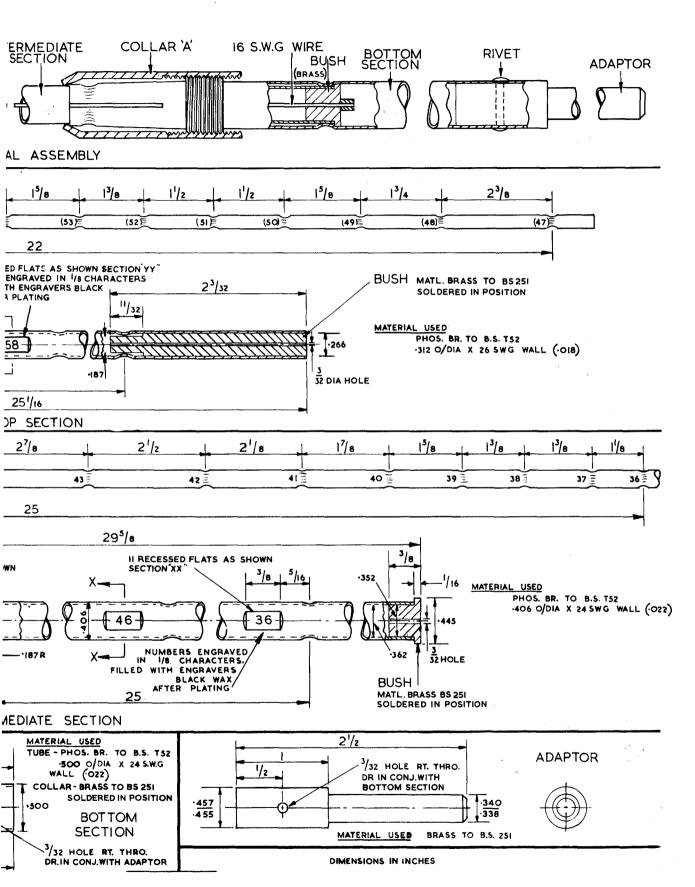
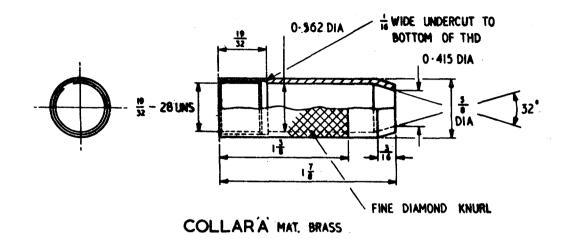
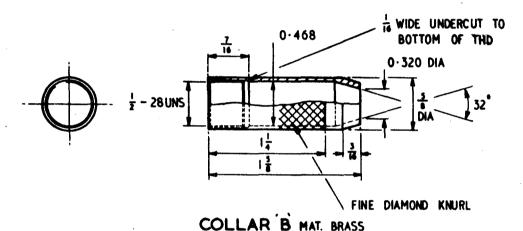
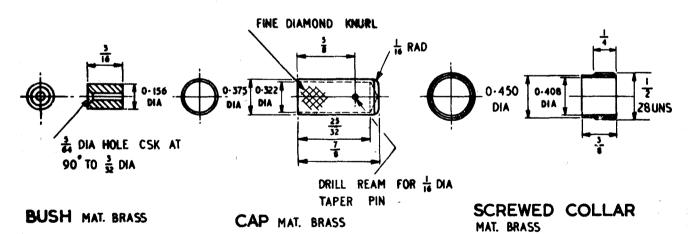


Fig 4002 - Elevated aeri









DIMENSIONS IN INCHES FINISH REFER TO EMER WORKSHOPS N221 & N251

Fig 4003 - Collars, cap and bush elevated aerials

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