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Army Code No.
61737/4
(1978)
DSS (ARMY) 44/8/277

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**USER HANDBOOK
FOR
CLANSMAN
RADIO INSTALLATIONS
IN
ARMoured PERSONNEL CARRIER
FV 432**

**PART 4
STATION RADIO UK/VRC 353**

Published under the authority of:-
**ASSISTANT CHIEF OF THE GENERAL STAFF
(OPERATIONAL REQUIREMENTS)**
Ministry of Defence

PUBLICATIONS AUTHORITY
QUALITY ASSURANCE DIRECTORATE (WEAPONS)
WOOLWICH LONDON
S.E.18 6ST.

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www.Fv432.co.uk

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LIST OF ASSOCIATED PUBLICATIONS

COMPLETE EQUIPMENT SCHEDULES

| | |
|---|--------------|
| Station Kit Radio Station UK/VRC 353 Kit No 1 | CES No 43754 |
| Installation Kit VRC 353 in FV 432 | CES No 44681 |
| Conversion Kit for Clansman Radio in FV 432 | CES No 44700 |

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

| | |
|------------------------------|-------------------------|
| TUAAM | TELS L 210 |
| ARFAT | TELS L 210 |
| Radio Installation in FV 432 | COMNS INST H 215 series |

USER HANDBOOKS

| | |
|---|--------------------|
| User Handbook for Radio Station UK/VRC 353 | Army Code No 61393 |
| VHF Antennas for Clansman | Army Code No 61388 |
| Reference Handbook for Clansman Radio and Ancillary Equipment | Army Code No 61004 |
| Clansman Radio Control Harness | Army Code No 61172 |

9/10/2012

STATION RADIO UK/VRC 353

INTRODUCTION

101. This part of the handbook describes the Radio Station UK/VRC 353 in the FV 432 and the three positions 'A', 'B' or 'C' available for the radios and location of the associated equipment to cater for all requirements. The radio set is described in the User Handbook for Radio Station UK/VRC 353, Army Code No 61393, which includes full operating and servicing instructions, together with the method of fitting and removing a set to and from Clansman mounting bars.

102. Description of remote control and rebroadcasting are given in Part 2 for Clansman harness and Part 3 for Larkspur harness.

STATION RADIO UK/VRC 353

103. The VRC 353 is a VHF/FM transmitter/receiver operating in the 30-75.975MHz range with 25kHz or 50kHz channel spacing.

104. The block diagram of a single set installation (Fig 1) shows the connexions to the internal batten box for the three sets. The 28V dc supply from the Clansman installation is connected to each radio via a 2-point cable assembly from the Radio Junction Box (RJB). A 7-point cable assembly connects the radio to the Clansman harness via an IB-2 (or IB-3), or to the Larkspur harness via an Interconnecting Box Radio Adaptor (IBRA).

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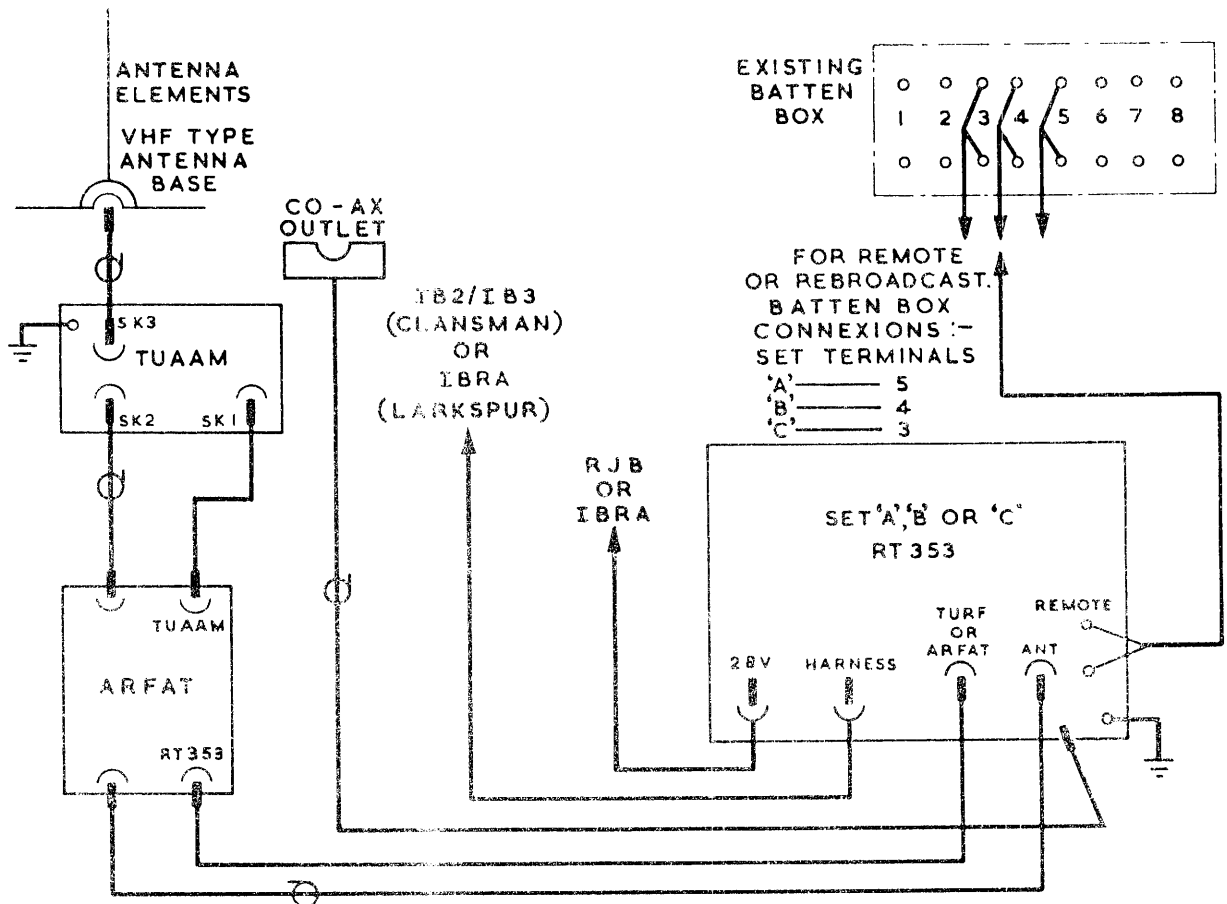


Fig 1 Block Diagram of RT 353 Installation for Sets 'A' 'B' or 'C'

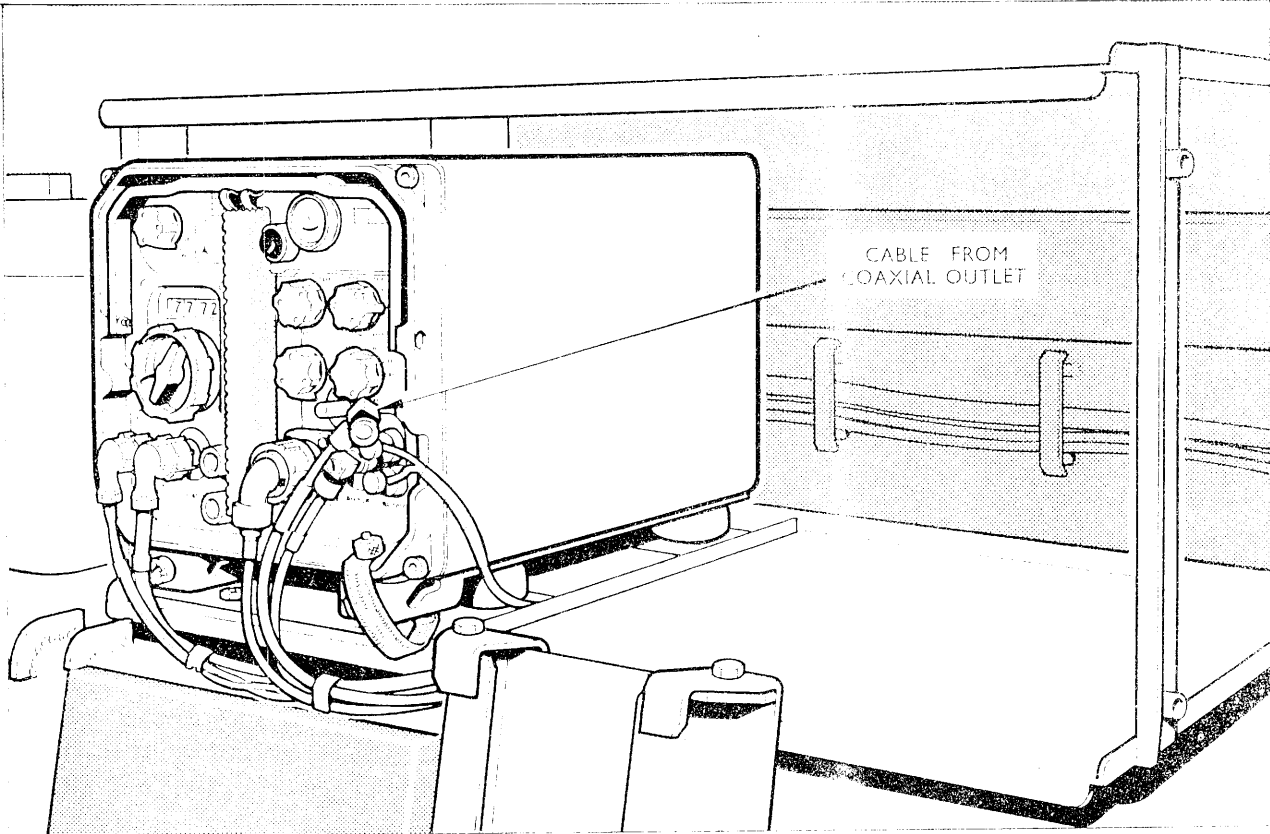


Fig 2 View of RT 353 in Position 'A'

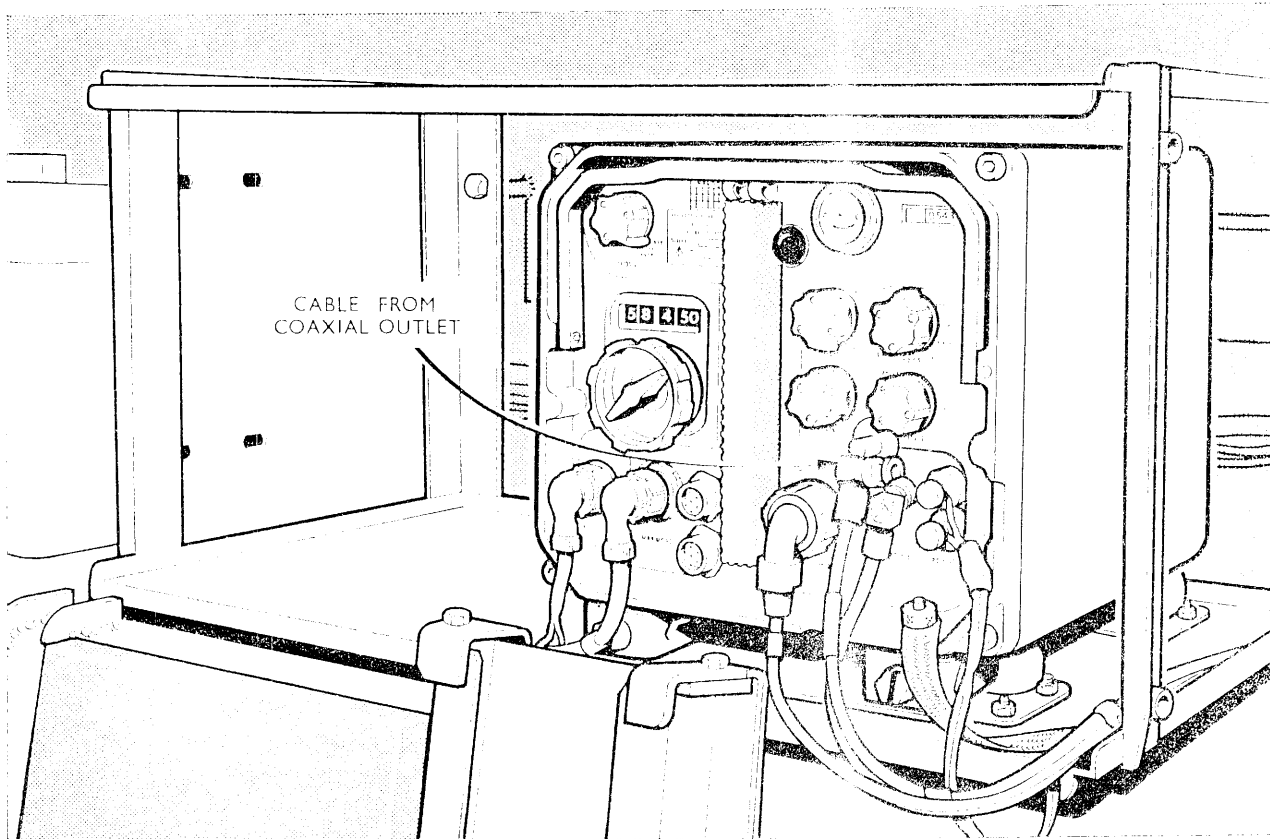


Fig 3 View of RT 353 in Position 'B'

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TUNING AND MATCHING UNITS

105. All antenna tuning and matching functions over the frequency range are performed automatically by a TUAAM. An ARFAT is used in conjunction with the TUAAM to match the latter to the VRC 353 radio.

LOCATION OF EQUIPMENT

106. The VRC 353 can utilize any of three positions on the two-tier rack on the forward right-hand sill. The lower shelf of the rack has provision for two sets, position 'A' on the left-hand side (Fig 2) and position 'B' on the right-hand side (Fig 3). Position 'C' is on the left-hand side of the upper shelf (Fig 4). Details of the set location when the VRC 353 is used alone or with combinations of sets are given in Part 1, Table 2. The detail of removal and fitting of the VRC 353 from and to the Clansman mounting bars is given in its User Handbook Army Code 61393.

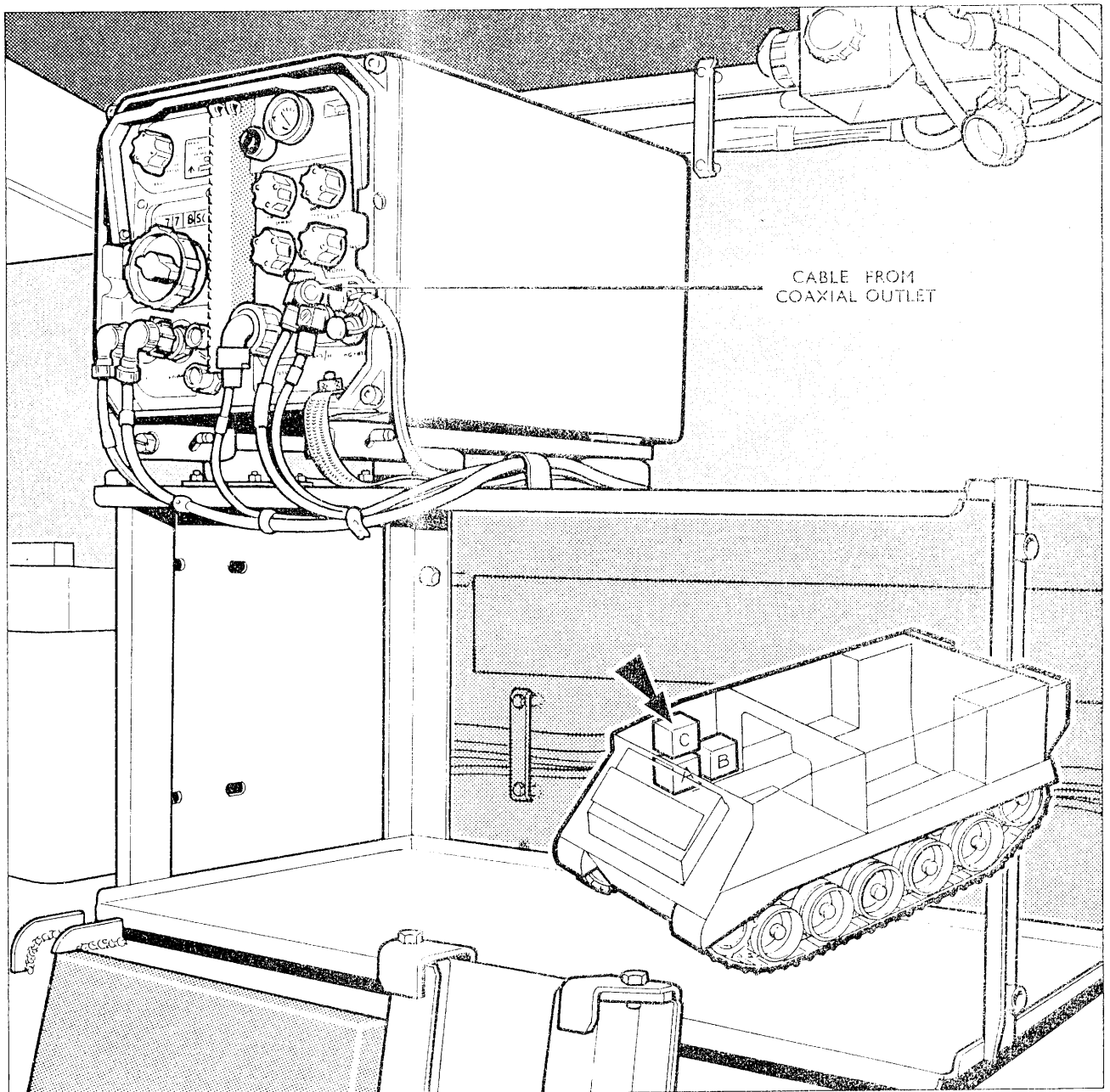


Fig 4 View of RT 353 in Position 'C'

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