

TECHNICAL FOLDER

INSTALLATION OF CONVERSION KIT, CLANSMAN BASIC RADIO CONTROL HARNESS, VRC 353 SET KIT, PRC 351/2 SET KIT, VRC 353/PRC 352 AND PRC 352/PRC 352 IN FERRET SCOUT CAR

IN ORDER TO REDUCE DELAYS IN THE PUBLICATION OF THE TECHNICAL FOLDER, IT HAS NOT BEEN SUBJECTED TO DETAILED VETTING. COMMENTS ON THIS DOCUMENT ARE WELCOMED AND SHOULD BE SUBMITTED TO: COMMANDING OFFICER, TELECOMMUNICATIONS AND RADAR BRANCH REME, LEIGH SINTON ROAD, MALVERN, Worcs WR14 1LL (FOR THE ATTENTION OF COMMS INSTS GROUP).

INTRODUCTION

1. This technical folder details the fitting of:
  - a. Conversion kit (to enable Clansman radio control harness to be fitted).
  - b. Clansman basic radio control harness.
  - c. VRC 353 set kit - A set position.
  - d. PRC 351/2 set kit - B set position.
  - e. VRC 353 - PRC 351/2 installations.
  - f. PRC 351/2 - PRC 351/2 installations.
2. The items comprising the installations kits are listed in Tables 1, 2, 3 and 4 and are supplied against the following CES's:
  - a. CES 44865 (Z1/5820-99-965-6990) - Clansman conversion kit.
  - b. CES 44879 (Z1/5820-99-965-8638) - Clansman basic radio control harness.
  - c. CES 44842 (Z1/5820-99-965-6402) - PRC 351/2 Installation kit.
  - d. CES 44830 (Z1/5820-99-965-6421) - VRC 353 Installation kit.

ESTIMATED TIME REQUIRED

3.
  - a. Removal of Larkspur harness - 2 man-hours
  - b. Installation of conversion kit - 5 man-hours
  - c. Installation of Clansman basic harness - 2 man-hours
  - d. Installation of VRC 353 set kit - 3 man-hours

GENERAL

4. The vehicle modifications associated with the installation of the conversion kit have yet to be finalised. On completion of the various installations all remaining items are to be retained and stored for possible future use.

5. All Larkspur items removed from existing installations must be returned to G1098 stores for disposal through normal channels.

6. References to LHS and RHS denote the left and right hand side of the vehicle with respect to the driver's position facing forward. All other references to left and right hand are with respect to the observer facing the front of specified equipment.

7. Unless otherwise stated all holes and studs are existing.

8. References in the text to an item in the Tables are made by inserting the item number in brackets after a brief description of the item.

9. Index of figures:

<u>Fig No</u>	<u>Title</u>
1	Interconnecting diagram Clansman basic harness
2	Interconnecting diagram VRC 353 (A set) - PRC 351/2 (B set)
3	Interconnecting diagram PRC 351/2 (A set) - PRC 351/2 (B set)
4	Clip and cable diagram
5	Radio rack and set mounting positions
6	Rear antenna base and coax outlet positions
7	Forward RHS (external) antenna base and coax outlet positions
8	Centre LHS IB2/IB3 mounting position
9	Centre LHS universal plate mounting position
10	Forward RHS TUAAM 'A' set position
11	Rear LHS PRC 351/2 and TUAAM 'B' set positions
12	Rear RHS VRC 353 in 'A' set position
13	Commander's seat stops

10. Index of Tables:

1	Harness conversion kit items
2	Clansman basic harness installation items
3	VRC 353 Installation kit items
4	PRC 351/2 Installation kit items

## INSTALLATION

WARNING: BEFORE WORK IS COMMENCED ENSURE VEHICLE MASTER SWITCH IS IN OFF POSITION AND VEHICLE BATTERIES ARE DISCONNECTED. (A CONVENIENT POINT IS THE NEGATIVE TERMINAL ON REAR LHS BATTERY).

CAUTION: Good earth contacts are essential to the efficient working of this installation. All earthing points must be scraped down to bare metal and cleaned with an approved solvent. This also applies to the raised metal rings around fixing holes of the base belting of the harness control boxes.

### SEQUENCE OF OPERATIONS

#### Existing installations

11. With reference to the appropriate Comms Insts EMER remove both existing radio set kit and Larkspur radio control harness retaining all fixings for possible future use.

#### Vehicle modifications

12. Vehicle modifications associated with the installation of conversion kit are not detailed in this technical folder, but will be implemented retrospectively.

#### Conversion kit installation

##### Mounting plates A and B set TUAAMs

13. Secure A set TUAAM mounting plate (16) as shown in Fig 10 using four screws (28), washers (32 and 35).

14. Secure B set TUAAM mounting plate (15) in position as shown in Fig 11 using four screws (28) washers (32 and 35).

##### Mounting plate universal

15. Fit mounting plate (17) in position as shown in Fig 9 using four screws (24), washers (32 and 35).

##### Radio rack

16. Remove sliding cover plate (Fig 5) from vehicle. Secure radio rack (18) to cover plate using four screws (29), washers (32 and 35) and eight nuts (37), as shown in Fig 5.

17. Replace sliding cover tray with radio rack to vehicle if no further installations are to be fitted.

##### Aerial base mounting bracket

18. Secure mounting bracket (14) as shown in Fig 6 using four screws (26), washers (33 and 36). If mounting bracket has securing stud or fillet weld remove stud and/or file mounting bracket to give suitable clearance.

NOTE: See over.







































