

CONDITIONS OF RELEASE			
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2.		4.	

BASIC TWO SET CLANSMAN RADIO HARNESS INSTALLATION

IN FV101 SCORPION, FV107 SCIMITAR

TECHNICAL HANDBOOK - DATA SUMMARY

EQUIPMENT IDENTITY

Basic Clansman Radio Control Harness Installation in FV101 Scorpion,
FV107 Scimitar.

INSTALLED EQUIPMENT

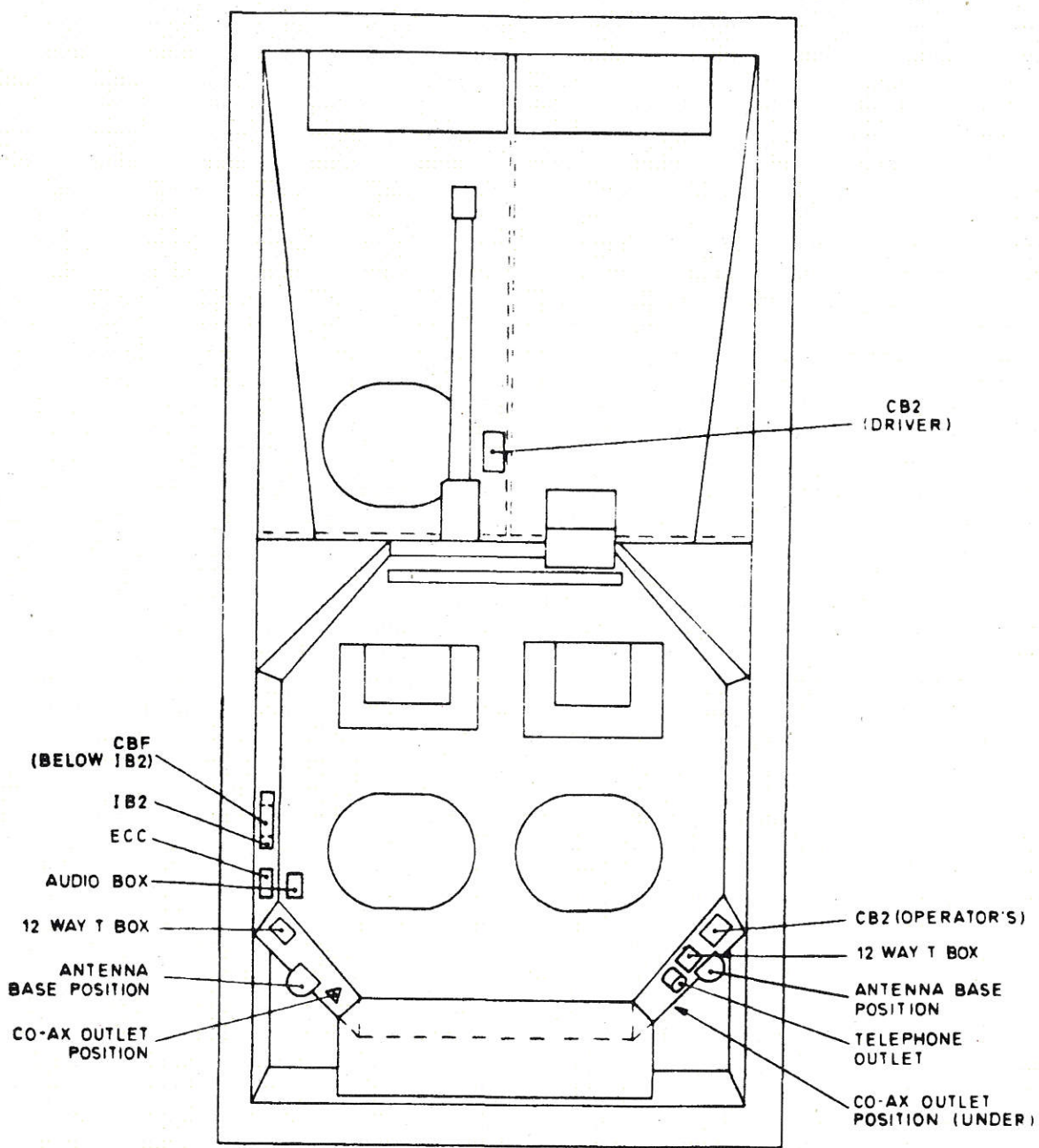
<u>Designation</u>	<u>Catalogue No</u>	<u>Qty</u>	<u>EMER</u>	<u>User Handbook</u>
Interconnecting box 2 radio (IB2)	Z1/5820-99-117-6250	1	Tels L 800	SRDE 1181C
OR				
Interconnecting box 3 radio (IB3)	Z1/5820-99-117-6110	1	Tels L 800	SRDE 1181C
Commander's box fixed (CBF)	Z1/5895-99-117-4909	1	Tels L 800	SRDE 1181C
Crew box 2-radio (CB2)	Z1/5895-99-117-4911	2	Tels L 800	SRDE 1181C

PURPOSE

The Clansman harness fitted in Scorpion or Scimitar permits the commander to control communications within the vehicle via the intercomm facility and externally via the radio sets.

BRIEF DESCRIPTION

The Clansman radio harness is a series of interconnected control boxes designed to permit the operation of one or two fitted sets from any of three crew positions. Harness intercomm, rebroadcast and power supply facilities are controlled from the Interconnecting box 2-radio IB2. An IB3 may be used as an alternative to the IB2, however this does not provide remote or rebroadcast facilities. Remote control of the sets therefore can only be achieved by connecting remote telephones direct to the front panels of the Clansman sets or to the RAB/LARCH boxes when Larkspur sets are fitted. A foot operated pressel is available at the commander's position.



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Fig 1 - Location diagram, general view

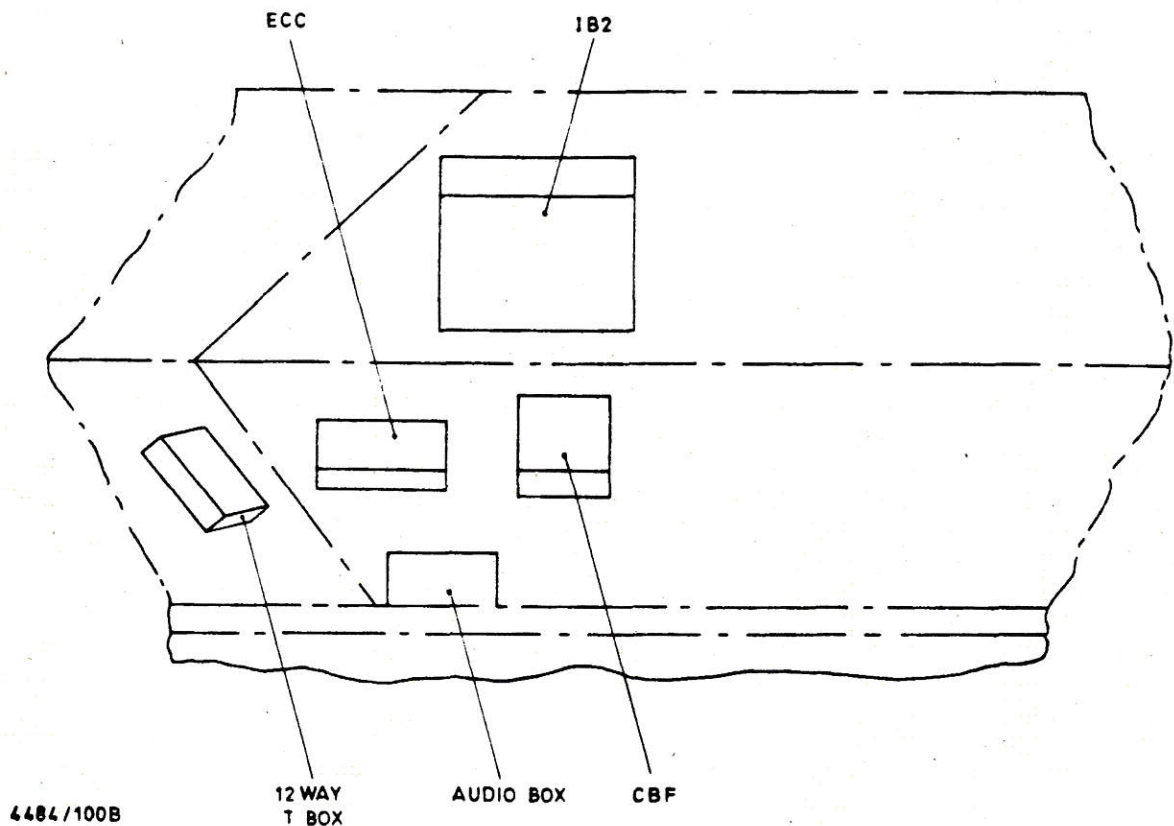


Fig 2 - Location diagram, r.h. turret wall

INSTALLATIONS (in this decade)

UK/VRC 353/321	Installation Instruction No 1
UK/VRC 353/353 (UK/PRC 30 stowed)	Installation Instruction No 2
UK/VRC 353 (UK/PRC 351 stowed)	Installation Instruction No 3
UK/VRC 353/352	Installation Instruction No 4
SR C42/B47 (with RAB/LARCH)	Installation Instruction No 5
SR C13/B47 (with RAB/LARCH)	Installation Instruction No 6
SR C42/C13 (with RAB/LARCH)	Installation Instruction No 7

PHYSICAL DATA

<u>Designation</u>	<u>Dimensions</u>	<u>Weight</u>
Interconnecting box 2-radio OR	285 x 150 x 120 mm (11.1/4 x 5.7/8 x 4.3/4 in.)	6.0 kg (13 lb)
Interconnecting box 3-radio	220 x 110 x 105 mm (8.5/8 x 5.1/2 x 4.1/8 in.)	3.5 kg (7.1/2 lb)
Commanders box fixed	168 x 116 x 79 mm (6.5/8 x 4.5/8 x 3.1/8 in.)	1.3 kg (2.3/4 lb)
Crew box 2-radio	168 x 116 x 79 mm (6.5/8 x 4.5/8 x 3.1/8 in.)	1.2 kg (2.1/2 lb)

CLIMATIC RANGE

Temperature: -40°C to +55°C (plus 20°C temperature rise for solar radiation)

Humidity: Greater than 95% at +30°C during storage

TRANSPORTATION DATA

May be carried at altitudes of up to 7600 m (25,000 ft)

Immersion: May be immersed in salt or fresh water, without damage, to a depth of 1 m for up to 2 hours.

PERFORMANCE

Operational up to a height of 2,400 m but can be transported up to a height of 7,600 m.

POWER REQUIREMENTS

28V d.c. from vehicle supplies, applied to the IB2 (IB3 if fitted in lieu).

ASSOCIATED EQUIPMENT

Radios

<u>Designation</u>	<u>Frequency</u>	<u>Typical range</u>	<u>R.F. power o/p</u>	<u>EMER</u>
UK/VRC 321	1.5-30MHz	50 km	SSB HP 25-50W(pep) SSB LP 2-6W(pep) AM & CW HP 20-35W AN & CW LP 2-5W	Tels H 590
UK/PRC 350	36-56.975MHz	5 km	2W	Tels F 570
UK/PRC 351	30-75.975MHz	8 km	4W	Tels F 580
UK/PRC 352	30-75.975MHz	16 km	20W	Tels F 580
UK/VRC 353	30-75.975MHz	30 km	0.1, 1, 15, 50W	Tels H 610
TR B47	38-56MHz	8 km	0.37W	Tels G 530

<u>Designation</u>	<u>Frequency</u>	<u>Typical range</u>	<u>R.F. power o/p</u>	<u>EMER</u>
TR C13	1.5-12MHz	10-40 km	AM 8W PM 16W	Tels H 160
TR C42 No 1)	36-60MHz	HP 16-40 km	HP 15W	(Tels H 440
TR C42 No 2)		LP 5 km	LP 0.3-1W	(Tels H 450

Additional harness items

Radio adaptor box (RAB/LARCH)	Z1/5820-99-117-6109	Tels L 800
Harness adaptor box (RAB)	Z1/5820-99-117-6249	Tels L 800
D.C. charging unit (DCCU)	Z9/6130-99-117-0450	Tels K 010

ASSOCIATED PUBLICATIONS

Complete equipment schedule (CES):	43825	
FV101 Scorpion:	Tkd Veh C 400	
FV107 Scimitar:	Tkd Veh C 460	
Clansman v.h.f. antenna systems:	Tels L 210	
Clansman radio control harness:	Tels L 800 UHB SRDE 1181C	
Clansman audio accessories:	Tels C 740	
Mountings for radio installations in military vehicles:	Comms Insts Z 052	
Connectors for radio installations in military vehicles:	Comms Insts Z 200	

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