



Ministry
of Defence

Ministry of Defence
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United Kingdom

Ref: FOI2019/00566

E-mail: ISS-SecretariatGpMbx@mod.gov.uk

31 January 2019

Dear [REDACTED],

Thank you for your email of 14 January 2019 requesting the following information:

"I would like to request a release of any 2nd and 3rd level repair and service manuals/EMERs relating to the now obsolete Plessey PRC-344 (otherwise known as UK/RT-344) UHF AM manpack radio"

I am treating your correspondence as a request for information under the Freedom of Information Act 2000 (FOIA).

A search for the information has now been completed within the Ministry of Defence, and I can confirm that the information in scope of your request is held.

The information you have requested can be found in the attached file .

If you have any queries regarding the content of this letter, please contact this office in the first instance.

If you wish to complain about the handling of your request, or the content of this response, you can request an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.gov.uk). Please note that any request for an internal review should be made within 40 working days of the date of this response.

If you remain dissatisfied following an internal review, you may raise your complaint directly to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not normally investigate your case until the MOD internal review process has been completed. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website at <https://ico.org.uk/>.

Yours sincerely,

ISS Secretariat

CONDITIONS OF RELEASE

1. This information is released by the UK Government for Defence purposes only.
2. This information must be accorded the same degree of security protection as that accorded thereto by the UK Government.
3. This information may be disclosed only within the Defence Department of the recipient Government, except as otherwise authorized by the Ministry of Defence (Army).
4. This information may be subject to privately owned rights.

AMENDMENT INSTRUCTION

**COMMUNICATIONS INSTALLATIONS IN
COMBAT VEHICLE ROYAL ARTILLERY TRACKED,
WARRIOR (OPV) FV 514 AND WARRIOR(BCV) FV 515**

FAILURE DIAGNOSIS

ACTION

Removal and insertion of leaves

1	Remove	Insert
1.1	From Preliminary Material, pages (v) to (viii) (two leaves).	Pages (v) to (viii) (two leaves).
1.2	From Failure Diagnosis, pages 3 & 4 (one leaf).	Pages 3 and 4 (one leaf).
1.3	Pages 7 & 8 (one leaf).	Pages 7 and 8 (one leaf).
1.4	Pages 11 to 18 (four leaves).	Pages 11 to 18 (four leaves).

Amendment record

- 2 Record the incorporation of this amendment on the amendment record sheet and destroy this instruction sheet together with pages removed.

Uncontrolled Copy

Colour Not Supported

CONTENTS

Fiche No.	Frame		Page
PRELIMINARY MATERIAL			
1	A2	Front cover (title page)	(i)/(ii)
	A3	Amendment record	(iii)/(iv)
	A4	Contents (this list)	(v)
	A6	Preface	(vii)
	A6	Introduction	(vii)
	A6	Related and Associated Publications	(vii)
	A7	Associated Publications	(viii)
	A7	Abbreviations	(ix)
	A9	Warnings	(x)
	A9	Caution	(x)
	A10	Comment on AESP	Final leaf

FAILURE DIAGNOSIS

Fiche No.	Frame	Para	
1	B1	1	Warnings and Caution
	B1	4	Introduction
	B2	6	Power supplies
			Tools and test equipment
			Failure diagnosis procedures
	B2	7	Clansman communications control harness equipment
	B2	8	Radio installation
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	B2	10	Suspect cable assembly
	B3	11	Diagnosis
	B3	14	Failure diagnosis chart symbols

Fiche No.	Frame	Table	Page
1	B2	1	Test equipment
			2

Fiche No.	Frame	Chart	
1	D1	1	Main chart
	D2	2	Loss of power to control harness
	D3-D4	3	Loss of control harness facility
	D5-D6	4	Loss of secure speech facility
	D7	5	Loss of power to DMU or RT 353
	D8	6 (1)	Loss of all facility - UK/VRC 353
	D9	6 (2)	Loss of all facility - UK/VRC 353
	D10	6 (3)	Loss of all facility - UK/VRC 353
	D11	7 (1)	UK/PRC 351 Battery charging failure
	D12	7 (2)	UK/PRC 351 Battery charging failure
	D13	7 (3)	UK/PRC 351 Battery charging failure
	E1	8 (1)	Loss of all facilities - UK/PRC 351
	E2	8 (2)	Loss of all facilities - UK/PRC 351
	E3	8 (3)	Loss of all facilities - UK/PRC 351
	E4	9	ECC failure
	E5	10 (1)	UK/PRC 320 Battery charging failure
	E6	10 (2)	UK/PRC 320 Battery charging failure
			14
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	B10-B11	4	Block schematic - Communications installation in WARRIOR (OPV)	7
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	C1-C2	5	Location of radio equipment in WARRIOR (OPV)	9
	C3-C4	6	Block schematic - Radio and BATES installation in WARRIOR (OPV)	10
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	C7-C8	8	Block schematic - Radio installation in WARRIOR (BCV)	12
C9	9	Deleted	13	

PREFACE

Sponsor: LS(OR)1

Publications Agency : Electronics Branch REME

INTRODUCTION

1 Service users should forward any comments concerning this Publication through the channels prescribed in AESP 0100-P-011-013. An AESP Form 10 is provided at the end of this preliminary material; it should be photocopied and used for forwarding comments on this AESP.

2 The subject matter of the Publication may be affected by Defence Council Instructions (DCIs), Standard Operating Procedures (SOPs) or by Local Regulations. When any such Instruction, Order or regulation contradicts any portion of this Publication they are to be taken as the overriding authority.

RELATED AND ASSOCIATED PUBLICATIONS

Related Publications

3 The Octad for the subject equipment consists of the Publications shown below. All references are prefixed with the first eight digits of this Publication. The availability of the publications can be checked by reference to the relevant Group Index (see AESP 0100-A-001-013).

4 This publication has been produced in both hard copy and microfiche formats. Each page therefore carries a number page and a frame number.

CATEGORIES AND INFORMATION LEVELS														
Category	1	2	3	4		5				6	7		8	
				1	2	1	2	3	4		1	2	1	2
1 USER/OPERATOR	101	201	201	*	*	201	201	*	*	201	711	*	*	*
2 UNIT MAINTENANCE	101	*	302	412	*	512	*	532	*	*	711	*	*	*
3 FIELD MAINTENANCE	101	*	302	412	*	512	*	532	*	*	711	*	*	*
4 BASE MAINTENANCE	101	*	302	*	*	512	*	*	*	*	711	*	*	*

- | | |
|--------------------------------------|---------------------------------|
| 1.0 Purpose and Planning Information | 5.3 Inspection Standards |
| 2.0 Operating Information | 5.4 Calibration Procedures |
| 2.1 Special to Arms | 6.0 Maintenance Schedules |
| 2.2 Training Aids | 6.1 Maintenance Schedules (RAF) |
| 3.0 Technical Description | 7.1 Illustrated Parts Catalogue |
| 4.1 Installation Instructions | 7.2 Commercial Parts List |
| 4.2 Prep for Special Environments | 8.1 Modification Instructions |
| 5.1 Failure Diagnosis | 8.2 General Instructions |
| 5.2 Repair Instructions | |

* Not published

Associated Publications

5 The following Publications are associated with this installation:

Code No.	Type	Title
2350-T-200	AESP	Combat Vehicle, Tracked, WARRIOR, Common Items
2350-T-203	AESP	Combat Vehicle, Tracked, WARRIOR, (OPV) and WARRIOR (BCV)
5800-A-200	AESP	Communications Installations
6130-M-501	AESP	Battery Management System in OPV
7010-C-101	AESP	Battlefield Artillery Target Engagement System (BATES)
5840-C-100	AESP	Man-portable Surveillance Target Acquisition Radar (MSTAR)
Tels A 414	EMER	Handling Precautions, Static Sensitive Devices
Tels C 740	EMER	CLANSMAN, Accessories Audio
Tels F 580	EMER	Station, Radio UK/PRC 351
Tels F 590	EMER	Station, Radio UK/PRC 320
Tels H 610	EMER	Station, Radio UK/VRC 353
Tels K 010	EMER	CLANSMAN, Battery Charging Equipment
Tels L 210	EMER	CLANSMAN, VHF Antenna System
Tels L 800	EMER	CLANSMAN, Radio Control Harness
Tels L 820	EMER	CLANSMAN, Secure Speech Harness
Tels M 650	EMER	Test Set, Audio, for Radio Audio Accessories
Tels M 670	EMER	CLANSMAN, Harness Installation Test set
Tels M 680	EMER	Test Set Control Harness
61123	UHB	Radio, Station UK/PRC 320
61128	UHB	Radio, Station UK/PRC 351
61172	UHB	CLANSMAN, Radio Control Harness and Audio Accessories
61393	UHB	Radio, Station UK/PRC 353
61656	UHB	Test Set, Audio and Radio Audio Accessories
61834	UHB	DMU
43740	CES	Station Radio UK/PRC 320 Bare Set
43753	CES	Station Radio UK/PRC 351 Bare Set
43754	CES	Station Radio UK/VRC 353 Bare Set
44916	CES	DMU
46224	CES	IK for BATES in OPV
46225	CES	IK for Secure Speech
46226	CES	IK for UK/PRC 320
46227	CES	IK for UK/PRC 351
46228	CES	IK for Communication Control Harness
46229	CES	IK for UK/VRC 353
61119	IPC	Station Radio UK/PRC 320
61152	IPC	Station Radio UK/PRC 351
61206	IPC	CLANSMAN, Audio Accessories
61215	IPC	AFV Crewman's Headgear
61216	IPC	Headset Remote Control
61219	IPC	DC Charging Unit
61266	IPC	CLANSMAN, Radio Control Harness
61597	IPC	ARFAT
61610	IPC	TUAAM
61991	IPC	Station Radio UK/VRC 353

Diagnosis

- 11 Diagnostic procedures are contained in Charts 1 to 9.
- 12 Chart 1 is a failure diagnosis master chart which asks basic questions to identify the facility that has been lost and then directs the UTR to the appropriate supplementary chart dealing with that facility.
- 13 The supplementary charts provide the UTR with a logical sequence of checks that enable a failed cable assembly or unit to be isolated.

Failure diagnosis chart symbols

- 14 Standard symbols are used in the charts, the significance of which is defined below:



START or END
symbol



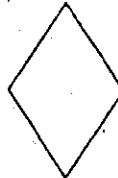
CONCLUSION
or REPAIR
ACTION
symbol



INSTRUCTION
symbol



OFF PAGE
CONNECTOR
symbol



DECISION
symbol

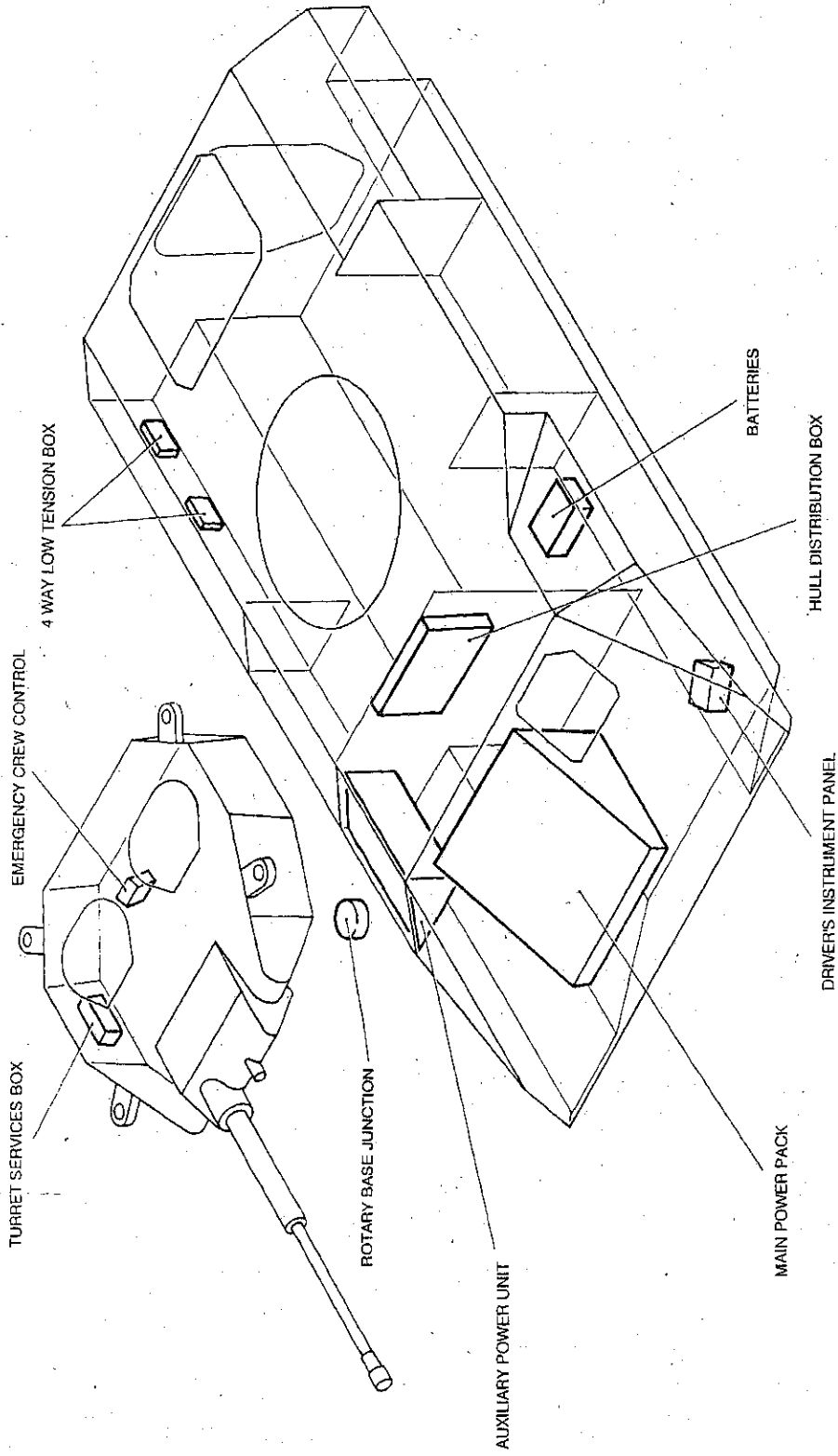


Fig 1 Electrical supply - equipment location

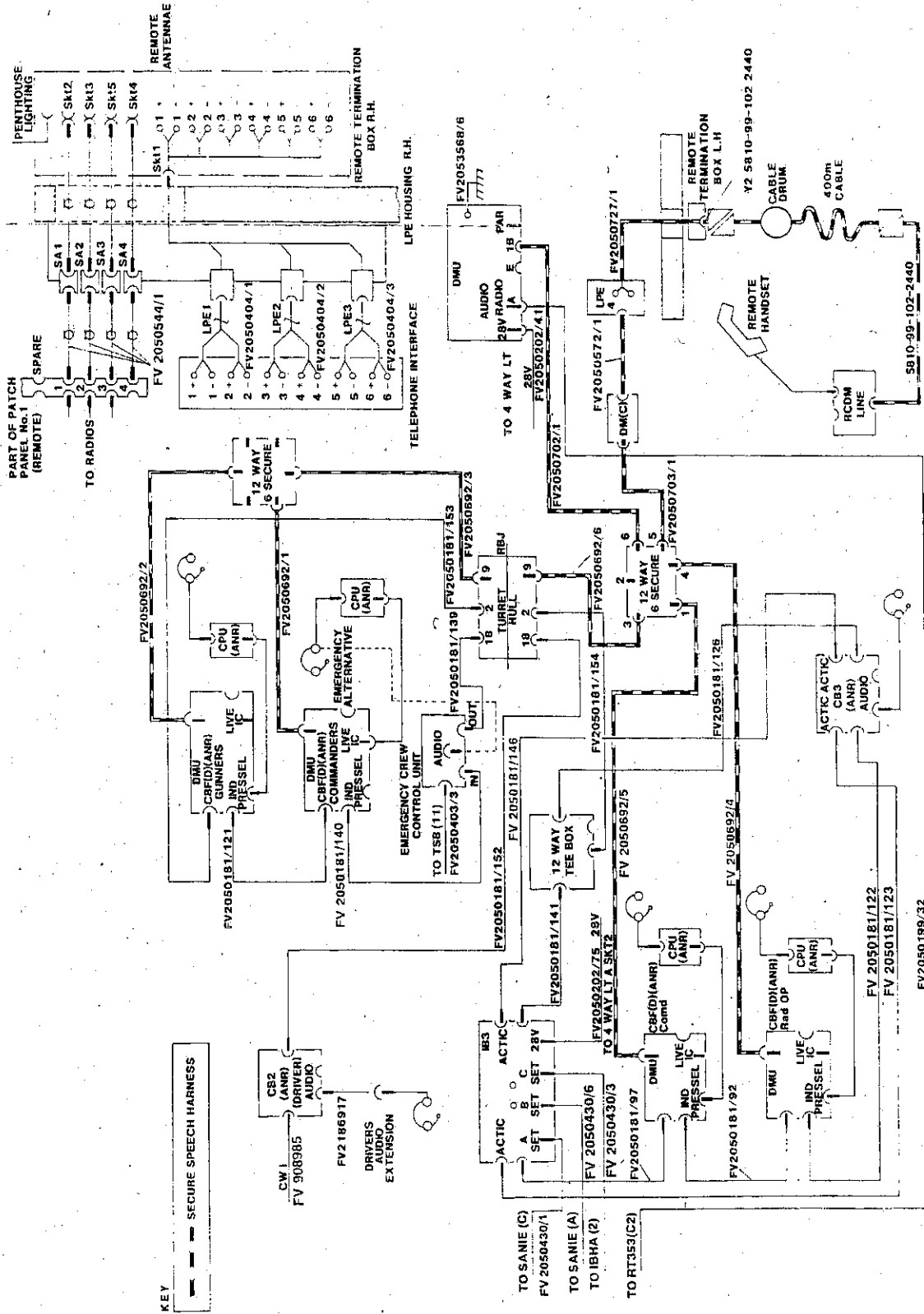


Fig 4 Block schematic - Communications installation in WARRIOR (OPV)

B10

B11

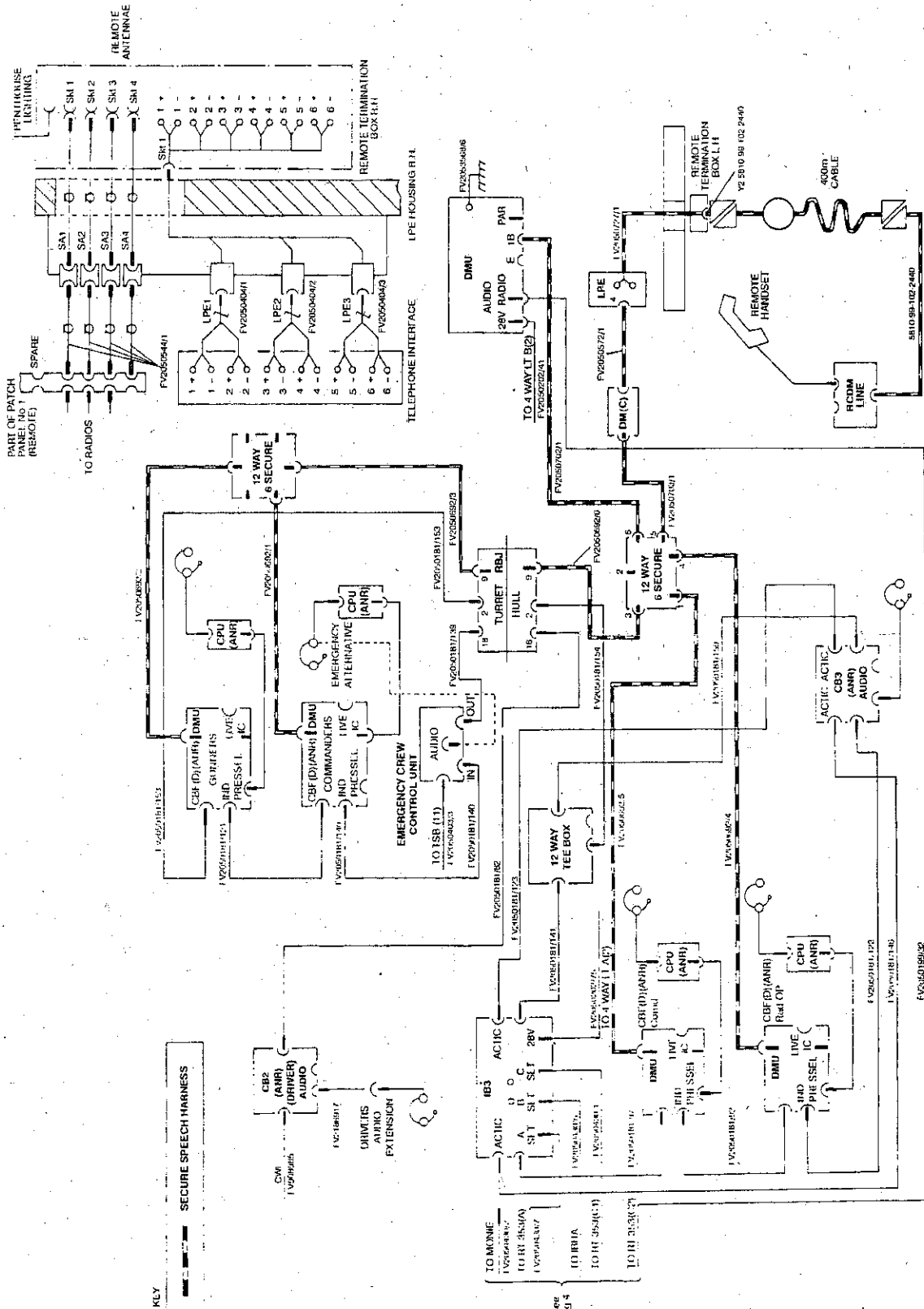


Fig 4A Block schematic - communications installation in WARRIOR (BCV)

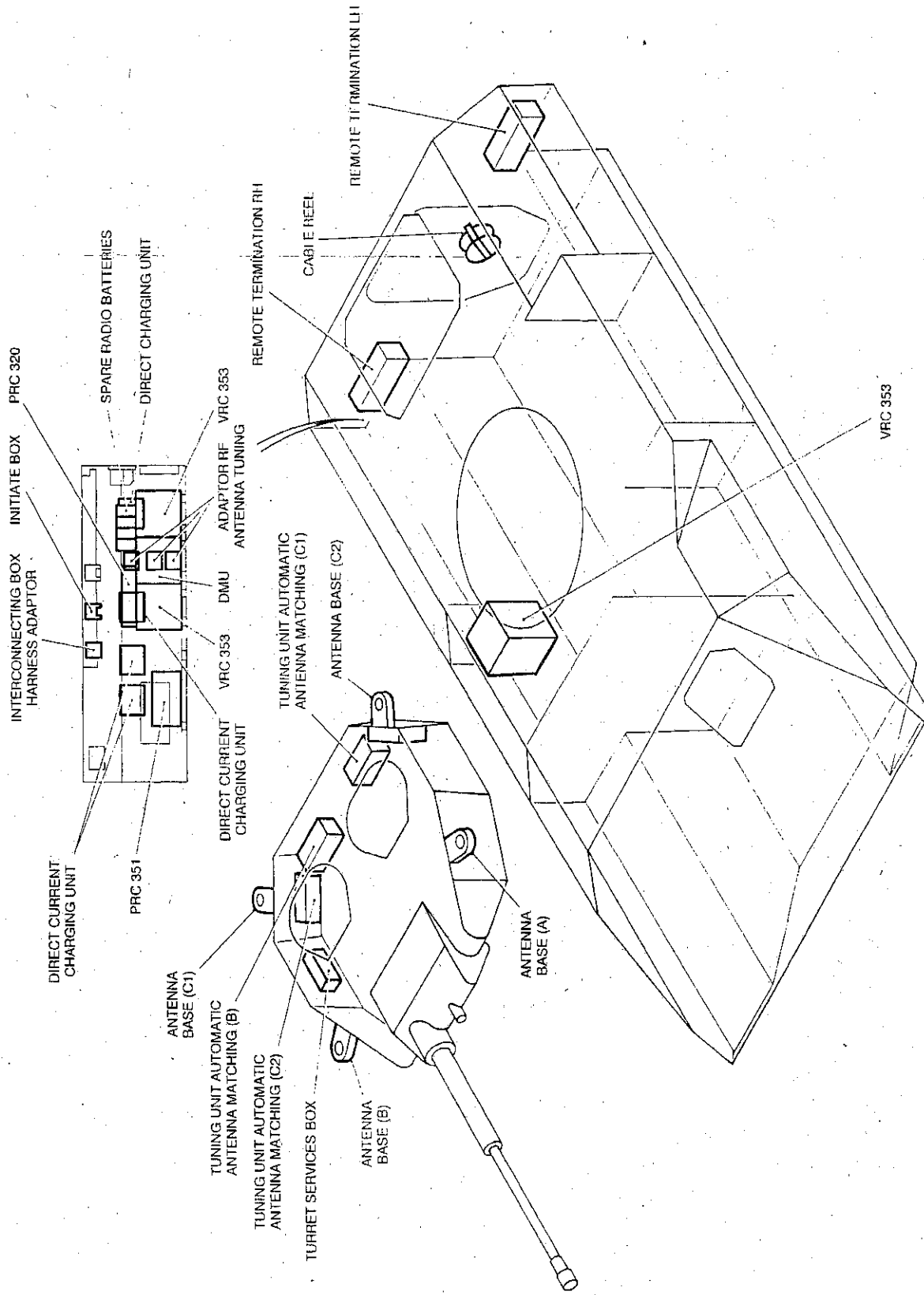


Fig 7 Location of radio equipment in WARRIOR (BCV)

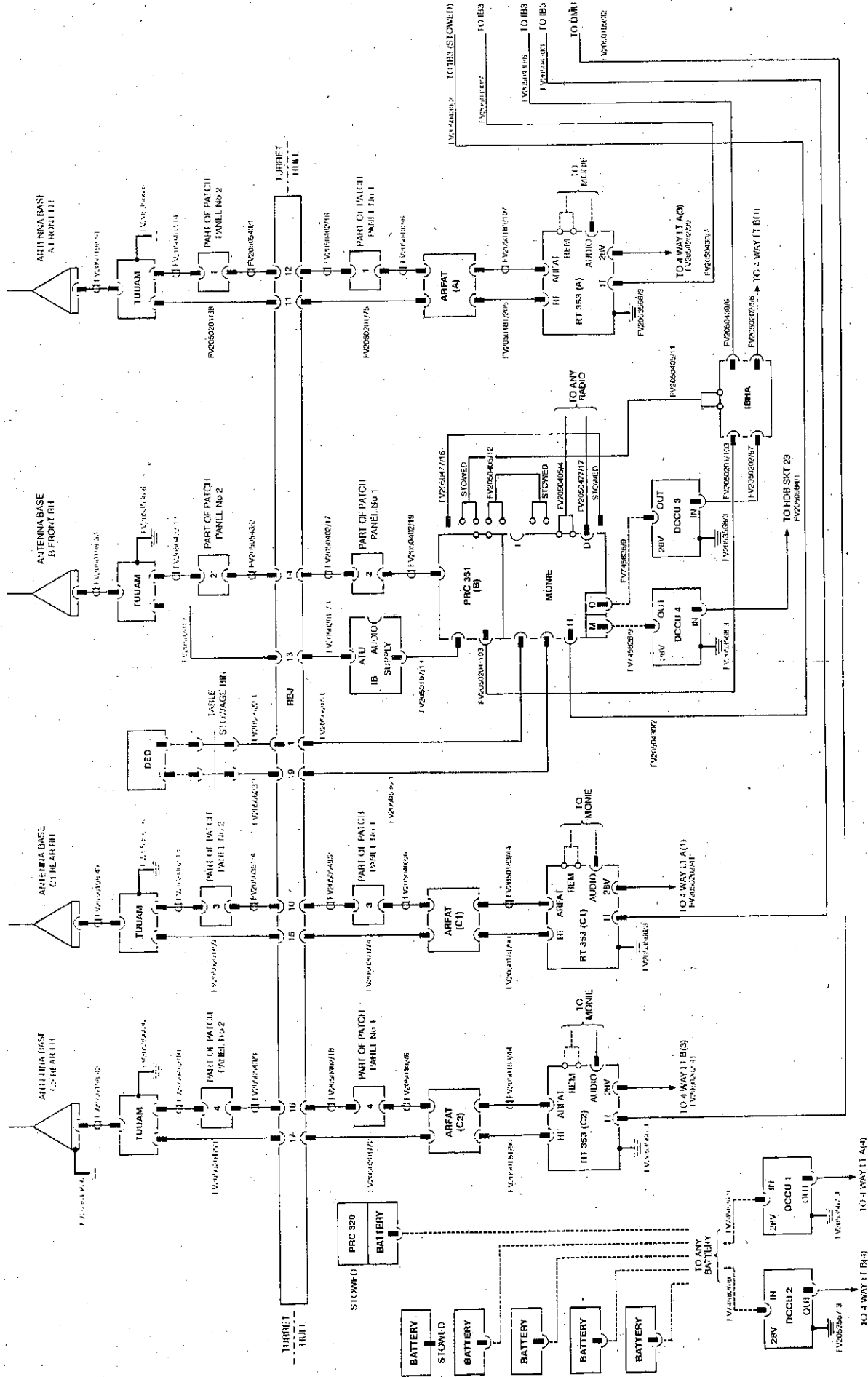


Fig 8 Block schematic - radio installation in WARRIOR (BCV)

MCV 411-00



Fig 9 Deleted



ENSURE: Vehicle and Radio Battery
Master switches, are switched 'ON'
ENSURE: Headsets/handsets used
during tests are proven serviceable

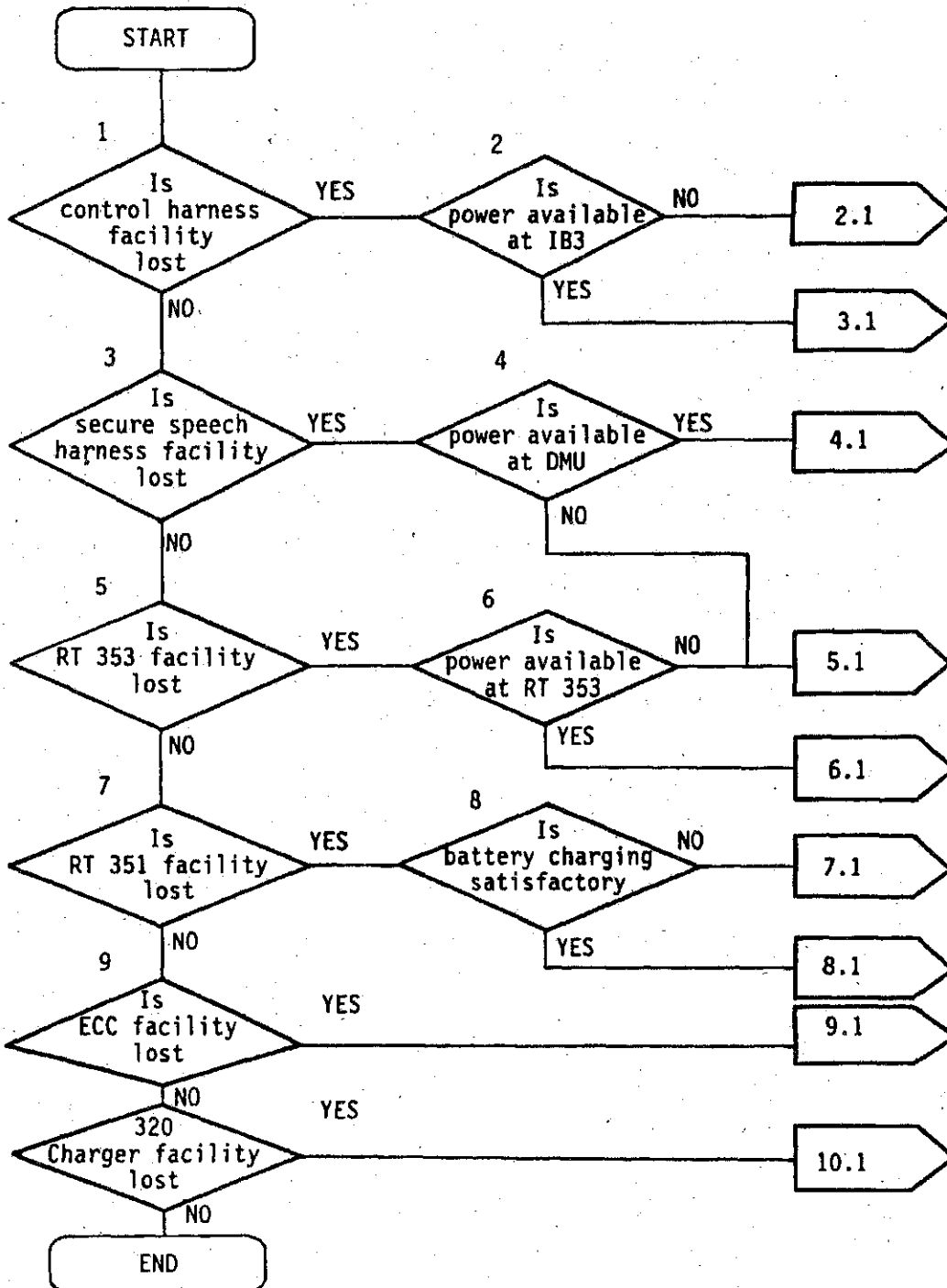


Chart 1 - Main Chart

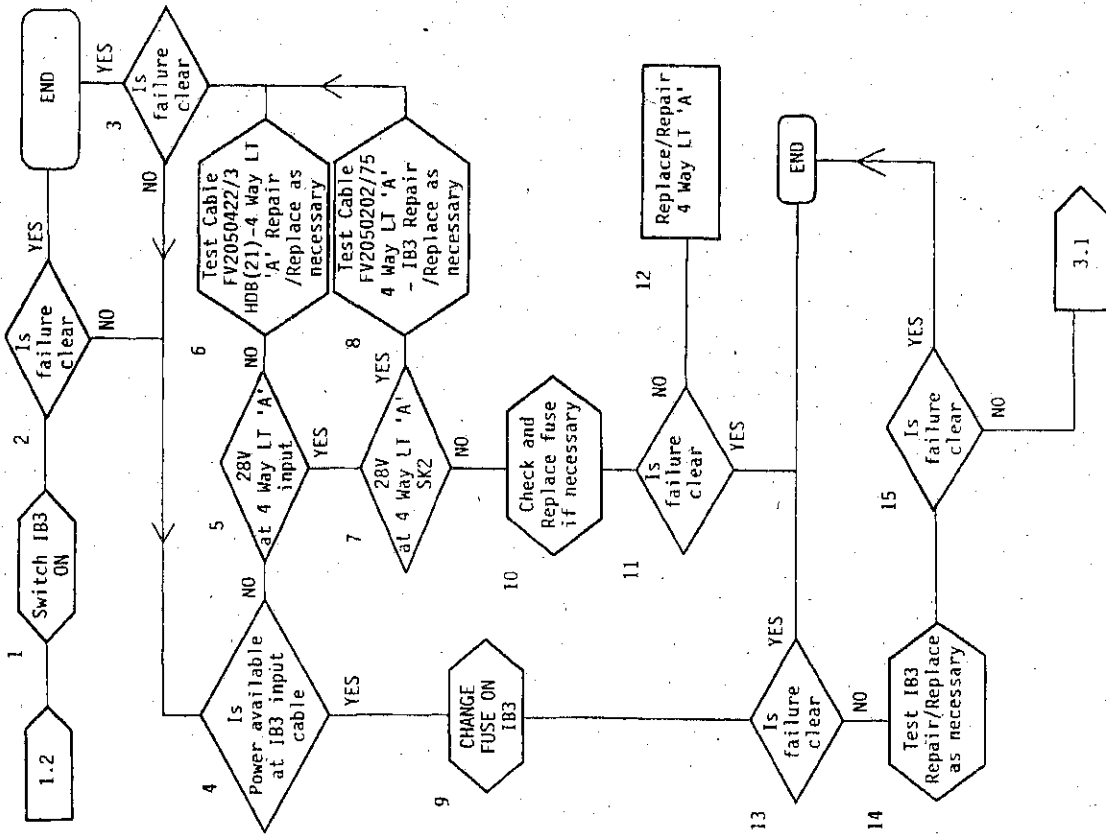


Chart 2 - Loss of power to Control Harness

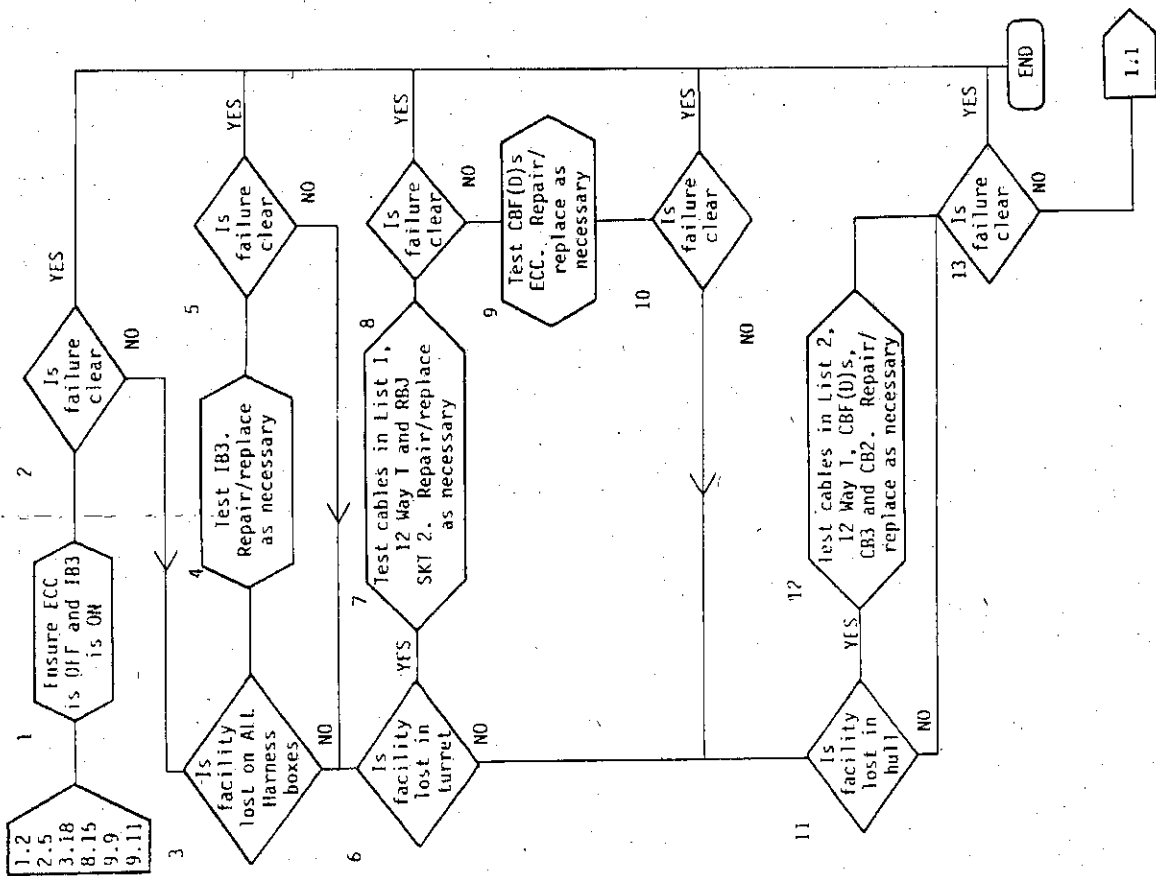


Chart 3 Loss of control harness facility

LIST for FAILURE DIAGNOSIS CHART 3

LIST 1

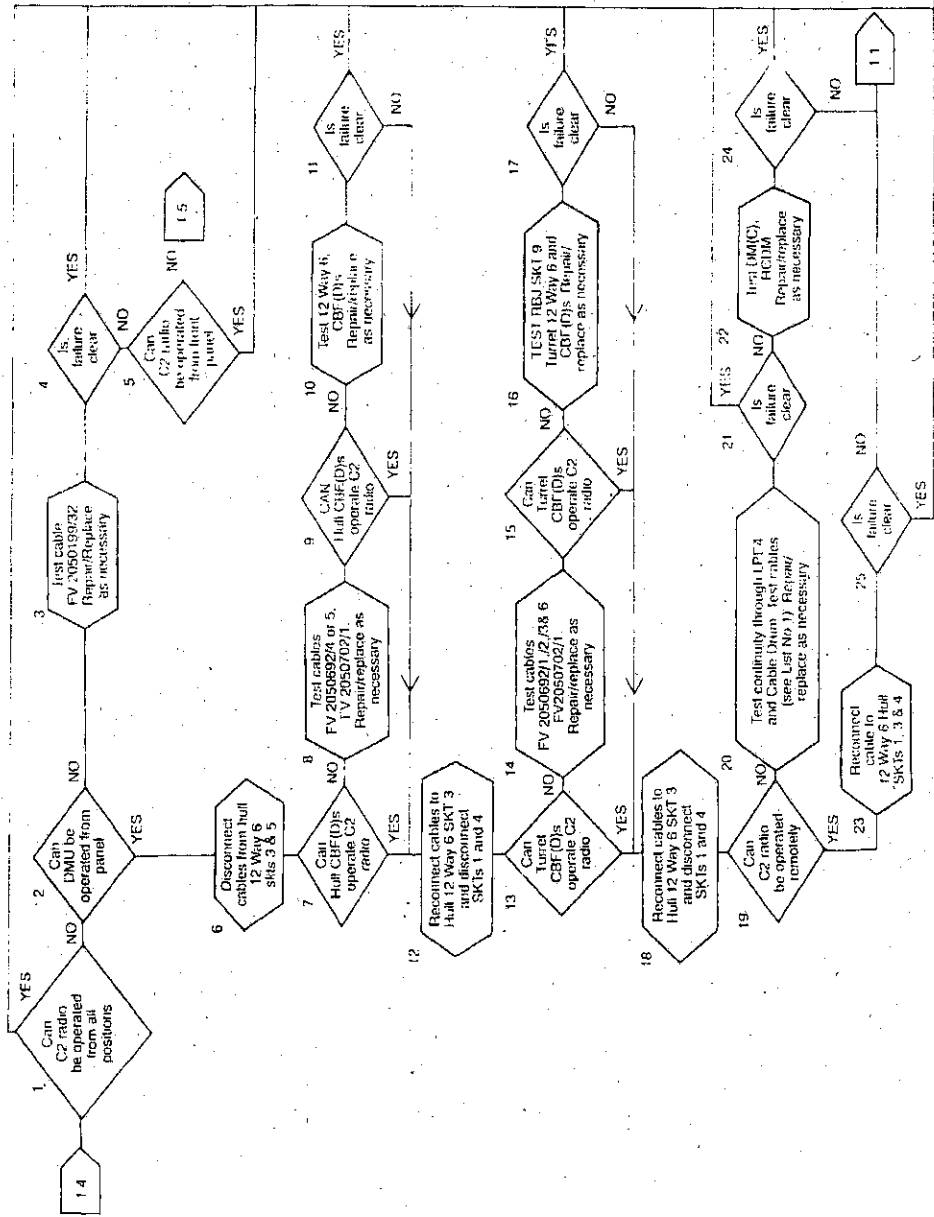
FV 2050181/-

- /153 RBJ SKI 2 - CBF(D) GNR
- /121 CBF(D) GNR - CBF(D) COMD
- /139 ECC - RBJ SKI 18
- /140 ECC - CBF(D) COMD
- /154 RBJ SKI 2 - 12 WAY T
- /182 RBJ SKI 18 - CB2,DVR

LIST 2

FV 2050181/-

- /122 CB3 - CBF(D) RAD OP
- /123 CB3 - IB3 (ACTIC)
- /146 CB3 - IB3 (ACTIC)
- /92 CBF(D) RAD OP - CBF(D) COMD
- /97 CBF(D) COMD - IB3
- /159 CB3 - 12 WAY T
- /141 12 WAY T - IB3



Circuit 4 Loss of secure speech facility

LIST 1	DM(C) - LPT 4 TERMINATION BOX - CABLE CONNECTOR
FV 2050157/1	CABLE CONNECTOR - CABLE DRUM
Y2 5810-99-102-2440	CONNECTOR
Y2 5810-99-102-2440	CONNECTOR - RCDM

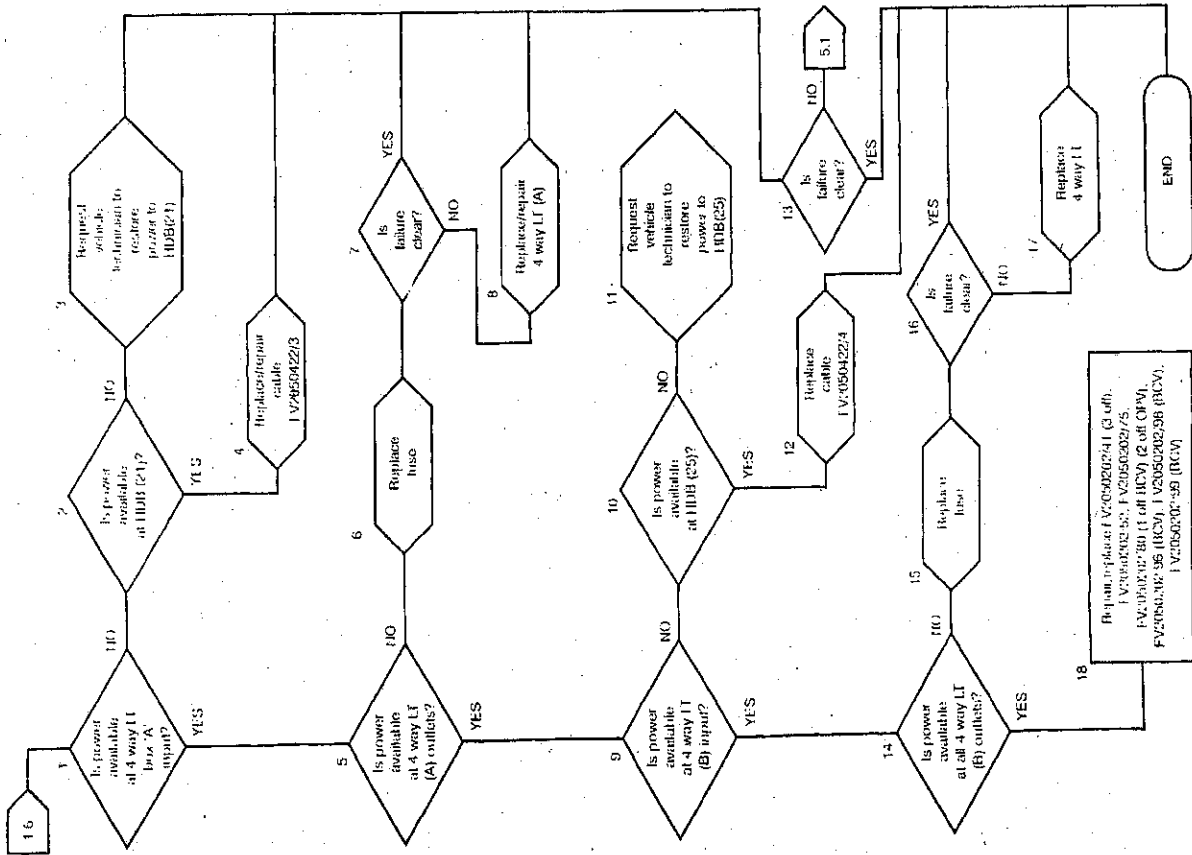


Chart 5 Loss of power to DIMU or RT553