



Ministry of Defence

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United Kingdom

Ref: FOI2018/07720

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



5 July 2018

Dear [Redacted],

Thank you for your email of 7 June 2018 requesting the following information:

""could i please have copies of the following publications in order for me to complete a museum display project involving a number of EX MOD sourced communication vehicles.

- 5800-c-100-741 range rover installations
5800-c-102-201 land rover installation
5800-c-103-201 land rover installation
5800-c-104-201 land rover installation
5800-c-107-302 land rover installation
5800-c-109-711 land rover installation
5800-c-203-711 land rover installation illustrated parts catalogue

""""""The above AESP REFERENCE NUMBERS ARE SOURCED FROM YOUR PUBLICATION 5800-A-001-012, index to communications,detection and coherent radiation equipment, dated 2004 (army equipment support publications).

i believe these are for the communications installation equipment i details, these could be covered by a vehicle aesp supplement or the comms system supplement aesp """"""

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 (MOD), and I can confirm that some of the information in scope of your request is held.

Some of the information you have requested can be found enclosed as attachments with this letter. Unfortunately, some of the information you have requested is no longer held by the MOD. Please refer to table below for status of documents requested:

Table with 2 columns: Reference Number and Status. Rows include items like '5800-c-100-741 range rover installations' with status 'Attachment enclosed' and '5800-c-102-201 land rover installation' with status 'Manual no longer available'.

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](mailto: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

The information within this publication is released by the UK Government to the recipient in accordance with the conditions of Release at Page (ii)



COMMUNICATIONS INSTALLATION (FORWARD DETACHMENT)  
(CPUCS) IN TRUCK 3/4 TON. FFR LANDROVER (HARD TOP)

TECHNICAL DESCRIPTION

This publication contains information covering the requirements of categories 302, 303, 511, 512, 522, 523, 532, 533, 712 and 722

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BY COMMAND OF THE DEFENCE COUNCIL

*W. J. G. Jones*

Ministry of Defence

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Sponsor: DGEME  
File Ref: EB 76104/30  
Publication Authority: Electronics Branch REME

Comments on the contents of this publication should be submitted in accordance with AESP 0100-P-011-013

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AMENDMENT RECORD

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TECHNICAL DESCRIPTION

Chapter

- 1 Introduction
- 2 Construction
- 3 Technical description
- 4 Repair information
- 5 Spares list





PREFACE

SPONSOR: DGEME

Codified Title:  
Installation Radio Station  
(Forward Detachments)

PUBLICATIONS AUTHORITY  
Electronics Branch  
Leigh Sinton Road  
Malvern  
Worcs  
WR14 1LL

INTRODUCTION

1 Service users should forward any comments concerning this publication through the channels prescribed in AESP 0100-P-011-113.

2 The subject matter of this publication may be affected by Defence Council Instructions (DCI's), Standing Operating Procedures (SOP's), or by Local Regulations (LR's). When any such Instruction, Order or Regulation contradicts any portion of this publication they are to be taken as the overriding authority.

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.

CATEGORIES AND INFORMATION LEVELS														
Category				4		5				6	7		8	
	1	2	3	1	2	1	2	3	4		1	2	1	2
	Level													
1 (User/Operator)	101	201	201	*	*	201	201	*	*	201	*	*	811	821
2 (Unit Maintenance)	*	*	302	*	*	302	302	302	*	*	302	302	*	+
3 (Field Maintenance)	*	*	302	*	*	302	302	302	*	*	*	*	*	+
4 (Base Maintenance)	*	*	*	*	*	*	*	*	*	*	*	*	*	+

- |                                    |                                 |
|------------------------------------|---------------------------------|
| 1.0 Purpose & Planning Information | 5.3 Inspection Standards        |
| 2.0 Operating Information          | 5.4 Calibration Procedures      |
| 3.0 Technical Description          | 6.0 Maintenance Schedules       |
| 4.1 Installation Instructions      | 7.1 Illustrated Parts Catalogue |
| 4.2 Prep for Special Environments  | 7.2 Commercial Parts Lists      |
| 5.1 Failure Diagnosis              | 8.1 Modification Instructions   |
| 5.2 Repair Instructions            | 8.2 General Instructions        |

\* Not published

Note ...

Reference to AESP 0100-A-001-001 must be made to ensure the availability of the listed publications.

ASSOCIATED PUBLICATIONS

4 The following publications are associated with this installation:

Code No.	Type	Title
5800-E-100	AESP	Corps Patrol Unit Communication System
5800-E-101	AESP	Message Handling Processor Equipment
5800-E-102	AESP	Receiver SYSCON Container Installation (CPUCS) in Transportable Container (CB 393)
5800-E-103	AESP	Receiver Slave Installation (CPUCS) in Transportable Container (CB 396)
5800-E-104	AESP	Message Handling Processor (CPUCS) in Transportable Container (CB 391)
5800-E-105	AESP	Frequency Management Installation (CPUCS) in Transportable Container (CB 3015)
5800-E-106	AESP	Visual Display Unit Installation (CPUCS) in Transportable Container (CB 392)
5800-E-107	AESP	Transmitter SYSCON Container Installation (CPUCS) in Transportable Container (CB 393)
5800-E-108	AESP	Transmitter Type TTA 1860S Slave Installation (CPUCS) in Transportable Container (CB 395)
5800-E-109	AESP	Transmitter Type TTA 1885E Slave Installation (CPUCS) in Transportable Container (CB 3019)
5800-G-100	AESP	Radio Relay Installation (CPUCS) in Trailer 3/4 Ton
2510-C-030	AESP	Transportable Container 3 Ton Truck mounted (CB 300 series) Basic Container Body
5815-M-301	AESP	Teleprinter Electronic UK/TGC 402
5895-C-200	AESP	Digital Message Handling Device
216-M-0611	AP	Equipment Bid 950
116E-0735-16	AP	Receiver UK/TRR 628
Tels K010	EMER	Clansman Battery Charging Equipments
Tels F 590	EMER	UK/PRC - 320
WKSP F100	EMER	Terminating and Jointing of Electric Wires and Cables

(continued)

Code No.	Type	Title
TH 4374	Man. Handbook	Piccolo Multiplexer LA 1121
TH 2355	Man. Handbook	Piccolo Modem LA 1117D
TBA	Man. Handbook	Antenna 12' whip
TBA	Man. Handbook	Antenna Para Vee (Racal)
A/C 13137	User Handbook	Generating Set Lightweight (3.5 kVA Onan)
A/C 70805	User Handbook	Royal Signals Reference Manual Vol III Pt 1
45091/1 Issue 3	CES	Communications Installation (Forward Detachment) (CPUCS) In Truck 3/4 Ton, FFR Land Rover (Hard Top)

ABBREVIATIONS

A/C	-	Army Code
AH	-	Ampere Hour
AP	-	Air Publications
BCD	-	Binary Coded Decimal
CCITT	-	International Telegraph and Telephone Consultative Committee
CES	-	Complete Equipment Schedule
CPUCS	-	Corps Patrol Unit Communications System
DEL	-	Direct Exchange Lines
d.i.l.	-	Dual-in-Line
DMHD	-	Digital Message Handling Device
DSU	-	Depot Storage Unit
ELCB	-	Earth Leakage Circuit Breaker
EMC	-	Electro-Magnetic Compatibility
ESR	-	Electronic Send, Receive
FFR	-	Fitted For Radio
GS	-	General Service
HF	-	High Frequency
IEC	-	International Electrotechnical Commission
ITA	-	International Telegraph Alphabet
LED	-	Light Emitting Diode
Man. Handbook	-	Manufacturers Handbook
MFSK	-	Multi-frequency Shift Keying
RCU	-	Remote Combining Unit
r.f.	-	radio frequency
RO	-	Receive Only
SSB	-	Single Sideband
STB	-	Secure Teleprinter Broadcast
TBA	-	To Be Advised
TMG	-	Test Message Generator
USB	-	Upper Sideband
WKSP	-	Workshop

WARNINGSWARNING - LETHAL VOLTAGE

THE VOLTAGES USED IN THIS INSTALLATION CAN ENDANGER LIFE. CARELESSNESS CAN BE FATAL. ENSURE THAT THE LAND ROVER IS CORRECTLY EARTHED AND THAT THE EARTH LEAKAGE CIRCUIT BREAKER OPERATES SATISFACTORILY BEFORE UNDERTAKING WORK ON THE EQUIPMENT. OTHER PERSONNEL SHOULD KEEP CLEAR OF THE VEHICLE UNTIL THE EARTH LEAKAGE CIRCUIT BREAKER TEST IS SATISFACTORY.

WARNING - LETHAL VOLTAGE

SWITCH OFF AND DISCONNECT IMPORTED AC SUPPLY BEFORE DISCONNECTING THE VEHICLE SAFETY EARTH AND CHASSIS EARTH.

WARNING - LETHAL VOLTAGE

BEFORE ATTEMPTING TO DISMOUNT ANY EQUIPMENTS ENSURE THAT THE AC POWER HAS BEEN SWITCHED OFF AND THAT THE EQUIPMENT POWER INPUT CABLES HAVE BEEN DISCONNECTED.

WARNING - ELECTRIC SHOCK

TO AVOID ELECTRIC SHOCK, DISCONNECT THE EQUIPMENT FROM THE AC/DC POWER INPUT SOURCE BEFORE COMMENCING MODIFICATION OPERATIONS ON THE TELEPRINTER.

WARNING - SHOCK HAZARD

BEFORE ATTEMPTING TO GAIN ACCESS TO THE POWER INPUT/OUTPUT PANEL, SWITCH OFF THE MAINS POWER TO THE CONTAINER AND DISCONNECT THE SUPPLY CABLES FROM THE POWER INPUT/OUTPUT PANEL AT THE EXTERIOR OF THE CONTAINER.

WARNING - SHOCK HAZARD

BEFORE ATTEMPTING TO GAIN ACCESS TO THE POWER DISTRIBUTION UNITS, SWITCH OFF THE MAINS POWER TO THE INSTALLATION AND DISCONNECT THE SUPPLY CABLES.

# RESUSCITATION

## TREATMENT OF THE NON-BREATHING CASUALTY

### NOTICE

The inclusion of the emergency resuscitation placard (MOD Form 656) in Military Technical Publications has been discontinued.

This notice is to be retained in the publication until removed by amendment instruction.



Chapter 1

INTRODUCTION

ROLE AND PURPOSE

1 The eight Forward Detachment Land Rovers form an integral part of the Corps Patrol Unit Communication System (CPUCS). They are normally located with Divisional and Corps Headquarters of 1(BR) Corps in BAOR. Each Land Rover Installation houses the equipment required to receive and print (in plain text) messages transmitted from the Base Station on the Secure Teleprinter Broadcast (STB) frequencies. Though not part of the fixed installation, the Detachments are also equipped with management radio equipment to facilitate reporting back to the Base Station and receiving information from the Base Station in Digital Message Handling Device (DMHD) format.

2 Facilities and equipment are provided to allow for:

2.1 Reception on 2 High Frequency (HF) antennas of frequencies in the range 2-30 MHz.

2.2 Reception on 2 HF Radio sets of Upper Side Band (USB) transmissions on frequencies of the STB. (Radio set range 0.015 to 29.9999 MHz).

2.3 Demultiplexing of the two multiplexed channels contained in the received USB.

2.4 Decoding of the tone encoded data (x2)

2.5 Decryption of the encrypted data (x2)

2.6 Printing of the plain language traffic (x2)

DESCRIPTION

3 The installation comprises two receiving positions installed in a rack, mounted behind the driver/passenger seats of the Forward Detachments Land Rover.

4 The remaining equipment is mounted in racks to the right of the Land Rover in the rear compartment. The left hand side of this area is fitted with bench seats for two operators.

5 The antenna and power cables are stowed as loose articles. Antennas and masts are carried in the General Service (GS) Land Rover.

6 The installation is powered from an external 240 V 50 Hz single phase supply. The total power requirement is TBA.

PRINCIPLES OF OPERATION

7 Fig 1 shows the Installation Block Diagram.

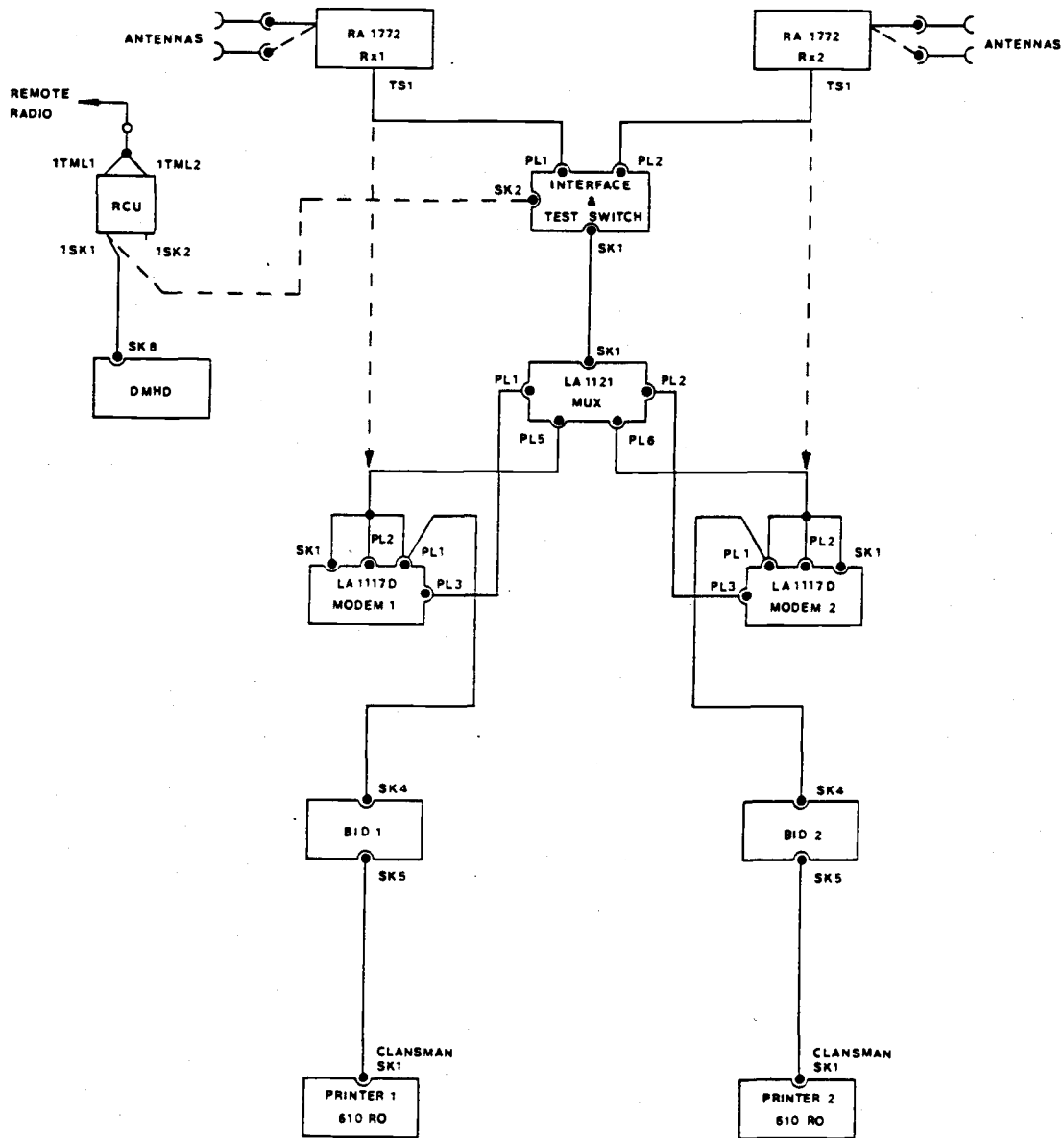


Fig 1 Installation Block Diagram



8 The Forward Detachment Land Rover, via suitably deployed mobile antenna systems, receives on pre-arranged frequencies in the HF Band, the STB signals broadcast from the Base Station.

Note ...

The same two channels broadcast on all STB frequencies.

9 The received signals enter the Land Rover Installation via antenna input connectors and are fed to two separate HF Radio Receivers (Type RA 1772).

10 The USB outputs of the two receivers are passed to the two inputs of a Piccolo Multiplexer LA 1121 demodulator unit which separates the two tone encoded data channels received in each USB. Two feeds of each tone encoded data channel are then connected to individual Piccolo Modem LA 1117D units where the tone encoded data is decoded to provide a single digital data output. (The Piccolo units operate a form of frequency diversity working by selecting the better of the two inputs for output on a character by character basis).

11 The 2 digital data streams are passed to Bid 950 units when decryption is performed. The plain language outputs are fed to two printing machines (Teleprinter Electronic UK/TGC 402 modified for R0) to produce a hard copy of the received text.

12 Facilities are provided via an interface and test switch to loop back signals at the various equipments in order to test, through the use of a test message generator, the functioning of the installation.

13 Associated with this installation is a remote radio set (UK/PRC - 320) and its associated equipment (Control Radio Set Local/Remote, Antenna and Clansman Batteries). This provides the Forward Detachment with extra receiving capabilities, the facility for radio frequency (r.f.) loop testing and transmitter facilities to the Base Station.

END



Chapter 2  
CONSTRUCTION

COMPLEMENT

- 1 The interior layout of the Land Rover is illustrated in Fig 1.
- 2 Within the Forward Detachments Land Rover, the rear compartment is fitted with two equipment racks. One equipment rack is behind the forward compartment seats and is bolted to the floor and roof. There is no access to the rear compartment from the front. This rack houses the receiving and demultiplexing equipments.
- 3 The second equipment rack is situated along the right hand side and is bolted to the wall and floor. This equipment rack houses the BID 950 equipments and Teleprinter Electronic UK/TGC 402 (modified to Receive Only (RO)) units.

WARNINGS ...

- (1) LETHAL VOLTAGE. THE VOLTAGES USED IN THIS INSTALLATION CAN ENDANGER LIFE. CARELESSNESS CAN BE FATAL. ENSURE THAT THE CONTAINER IS CORRECTLY EARTHED AND THAT THE EARTH LEAKAGE CIRCUIT BREAKER OPERATES SATISFACTORILY BEFORE UNDERTAKING WORK ON THE EQUIPMENT. OTHER PERSONNEL SHOULD KEEP CLEAR OF THE CONTAINER UNTIL THE EARTH LEAKAGE CIRCUIT BREAKER TEST IS SATISFACTORY.
- (2) LETHAL VOLTAGE. SWITCH OFF AND DISCONNECT IMPORTED AC SUPPLY BEFORE DISCONNECTING THE CONTAINER SAFETY EARTH AND CHASSIS EARTH.

- 4 The Power Distribution Unit is mounted on the rear wall on the left hand side of the Land Rover.
- 5 Two heaters are mounted on separate panels, next to each other, below the rear compartment operators seat.
- 6 Two reversible fans and their associated controllers are mounted in the rear compartment. These are situated on the rear wall, either side of the rear door.
- 7 A striker plate mounted at the hinged side of the door operates a black-out microswitch. As the door opens, the microswitch is operated turning off the fluorescent lights. The blackout circuit may be overridden by suitable positioning of the MASTER ON/OFF switch located above the striker plate.
- 8 Access for mains power is on the external panel of the Power Distribution Unit.

**FIGURE NOT SUPPLIED**

Fig 1 Interior Layout of Land Rover

9 During depot storage a dehumidifier is positioned within the Land Rover and the bung removed from the drain hole. The drain pipe should then be positioned in the hole. Power for the dehumidifier is supplied through the Depot Storage Unit (DSU). The DSU is positioned midway up the rear wall to the right of the rear door.

10 Three ceiling mounted fluorescent lights are fitted in the rear compartment of the Land Rover. Each is positioned on the centre rail of the roof mounting.

11 A blue light is fitted over the rear door. This is controlled by the MASTER ON/OFF switch to the right of the rear door.

12 Two fire extinguishers are fitted in the Land Rover. One is in the rear compartment on the back door. The second is positioned in the front compartment below the dashboard on the passenger side.

13 A First Aid kit is provided. This is strapped to the rear door below the fire extinguisher.

14 Table 1 lists the equipment installed/stowed within the Forward Detachment, Land Rover.

TABLE 1 INSTALLED/STOWED EQUIPMENT

EQUIPMENT	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	WEIGHT (kg)	POWER REQUIREMENTS
Receiver Radio UK/TRR 628	483	177	380	13	Voltage-input supply 240 V +/- 10%, 45 Hz - 66 Hz Power Consumption 48 W
Piccolo Multiplexer LA 1121	483	133	400	20	Voltage-input supply 20 V - 27.6 V d.c. (24 V nominal) 115 V or 230 V a.c. +/- 10% 45 Hz - 60 Hz Power Consumption 60 W
Piccolo Modem LA 1117D	483	133	400	20	Voltage-input supply 20 V - 27.6 V d.c. (24 V nominal) 200 V - 250 V a.c 45 Hz - 60 Hz Power Consumption 40 W
Equipment Bid 950	Refer to AP 216-M-0611				

(continued)

TABLE 1 INSTALLED/STOWED EQUIPMENT (continued)

EQUIPMENT	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	WEIGHT (kg)	POWER REQUIREMENTS
Teleprinter Electronic UK/TGC 402	480	195	435	14	Voltage-input supply 115 V - 230 V +/- 10% 47 Hz - 63 Hz Power Consumption 52.8 W
Remote Combining Unit	170	111	80	0.1	Voltage-input supply 24 V d.c.
Isolating Switch	136	126	122	2	-
Charger Battery,	210	145	120	2.25	20 V - 30 V d.c.
Battery, Secondary, Alkaline, 24 V, 4 AH	229	123	77	8	24 Volts 4 AH
Interface and Test Unit Assembly	210	225	100	0.5	-
Test Message Generator	TBA	TBA	TBA	TBA	TBA
DMHD	225	70	235	4	Voltage-input supply 20 V - 32 V d.c. (24 V nominal) Power Consumption Display ON 5 W Display OFF 3.2 W
Battery, Type 63 Lead Acid 12 V 44 AH	207	190	175	12	12 Volts 44 AH
Battery Charger (La Marche)	286	181	130	5	Voltage-input supply 240 V a.c. +/- 10% 45 Hz - 65 Hz
Power Distribution Unit	225	370	110	6	-

END

Chapter 3

TECHNICAL DESCRIPTION

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- 1 AC Power Input Panel (WARNING)
- 4 Power Distribution Unit
- 13 Lighting/Blackout Switches
- 17 Equipment Racks (CAUTION)
- 20 Stowage and Stowed Items
- 21 Battery, Secondary, Alkaline 24 V 4 AH
- 24 Battery, Type 63, Lead Acid 12 V, 44 AH
- 27 Battery Charger (La Marche)
- 30 Charger Battery, DC, 28 V
- 31 DMHD
- 32 Equipment BID 950
- 33 Interface and Test Unit Assembly
- 37 Isolating Switch
- 38 Piccolo Modem LA 1117D
- 61 Piccolo Multiplexer LA 1121
- 78 Receiver Radio UK/TRR 628
- 81 Remote Combining Unit
- 83 Teleprinter Electronic UK/TGC 402
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6	Interface and Test Unit Assembly Circuit Diagram	...	...	...	...	...	...	...	...	13/14
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AC POWER INPUT PANEL

1 Fig 1 shows the front panel layout of the AC Power Input Panel.

**FIGURE NOT SUPPLIED**

Fig 1 AC Power Input Panel

WARNING ...

SHOCK HAZARD. BEFORE ATTEMPTING TO GAIN ACCESS TO THE POWER INPUT PANEL, SWITCH OFF THE MAINS POWER TO THE CONTAINER AND DISCONNECT THE SUPPLY CABLES FROM THE POWER INPUT PANEL AT THE EXTERIOR OF THE CONTAINER.

2 The Power Input Panel is mounted on the rear of the Forward Detachments Land Rover.



3 The external face of the mains input panel is equipped with the following items:

- 3.1 A single phase three pin 240 V power input plug.
- 3.2 Safety earth terminal.
- 3.3 Chassis earth terminal.
- 3.4 A fixed three pin Mk IV socket marked 'Penthouse 240 V'.
- 3.5 A warning label, DANGER - BEFORE CONNECTING POWER SOURCE ENSURE ALL EARTH TERMINALS ARE GROUNDED.

#### POWER DISTRIBUTION UNIT

4 Fig 2 shows the front panel layout of the Power Distribution Unit and Fig 3 shows the Power Distribution Unit internal wiring.

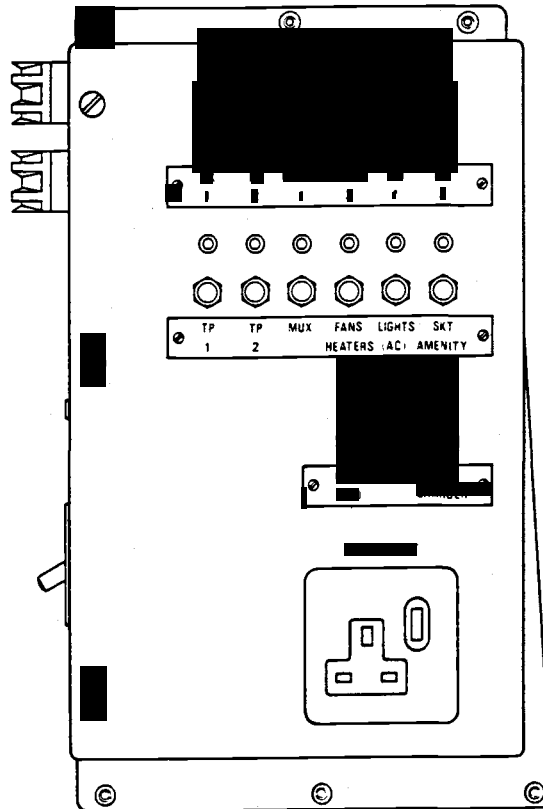


Fig 2 Power Distribution Unit Front Panel

5 The Power Distribution Unit controls the distribution of a.c. power within the installation.



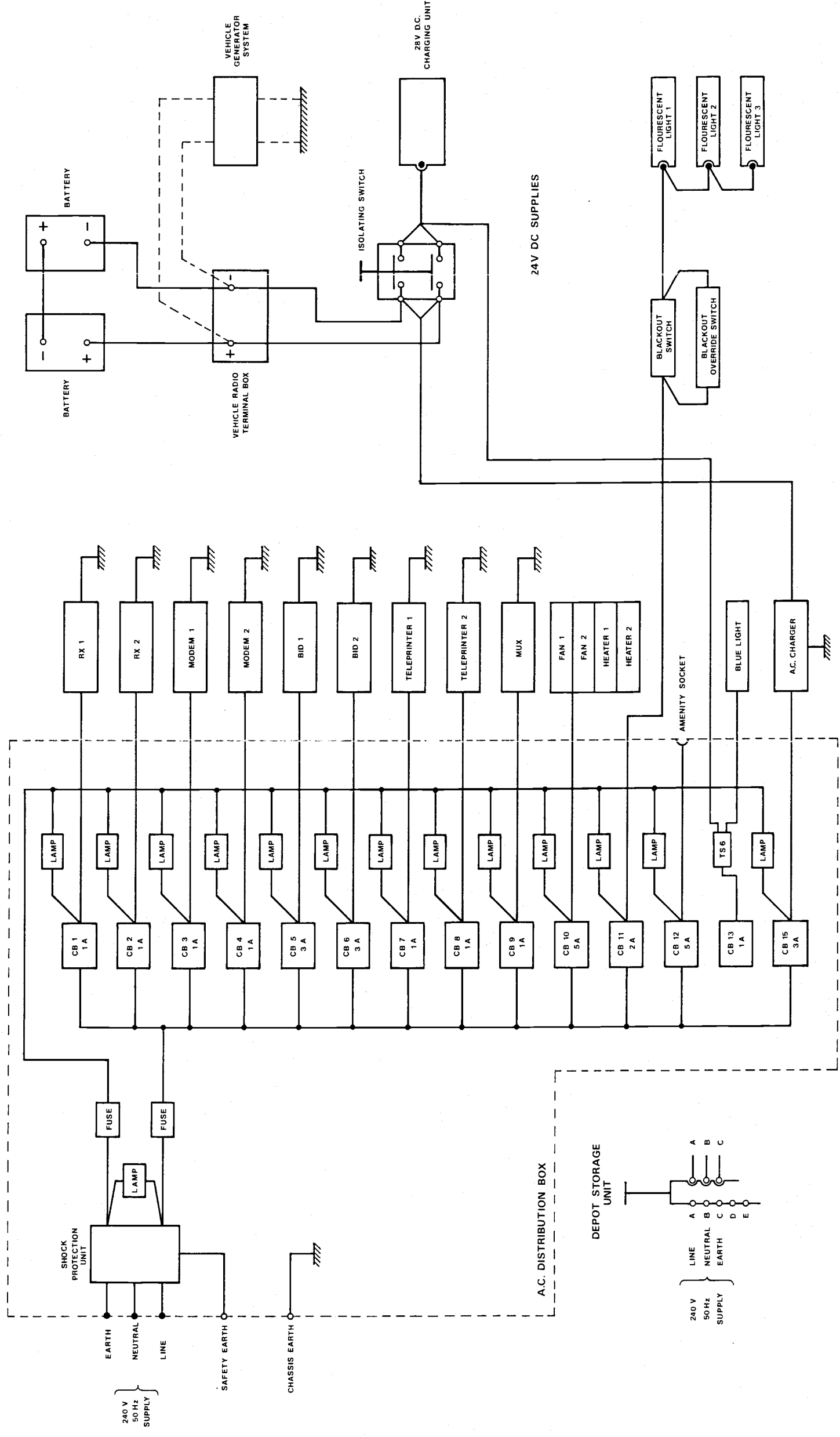


Fig 3 Power Distribution Unit Internal Wiring



- 6 The 240 V, 50 Hz supply for the installation enters via power plug PL1, which is located on the AC Power Input Panel at the rear of the installation. The supply input has a 50 A capability; this supply feeds all the equipment except the dehumidifier, which is used during periods of depot storage and is supplied via the DSU.
- 7 The Power Distribution Unit incorporates earth leakage and current overload protection devices. Input voltage and load current metering is provided together with a neon to indicate 'Mains On'.
- 8 The Power Distribution Unit is fed from a single phase output of a generator or the domestic mains supply.
- 9 The Neutral line is earthed at the generator or domestic mains supply, and the chassis of the installation is earthed locally. Two earth rods are used at the installation; one is connected to the Chassis Earth Terminal, the other to the Safety Earth Terminal. Under normal conditions, the potential differences between the Neutral and Earth terminals are not significant.
- 10 Should a failure occur such that load current flows between Line and Earth instead of between Line and Neutral, the earth resistance may cause the chassis of the installation to rise to a dangerous potential above 'true' earth.
- 11 The change in potential difference between the chassis and the safety earth rod will be sensed by the Earth Leakage Circuit Breaker (ELCB) causing it to trip and break the supply input.
- 12 Each of the equipments and other services are fed from a separate spur of the Main supply and are protected by current-controlled circuit breakers of appropriate rating:
- |                            |              |
|----------------------------|--------------|
| 12.1 Rx 1 (Receiver 1)     | (CB1 - 1 A)  |
| 12.2 Rx 2 (Receiver 2)     | (CB2 - 1 A)  |
| 12.3 MODEM 1               | (CB3 - 1 A)  |
| 12.4 MODEM 2               | (CB4 - 1 A)  |
| 12.5 BID 1                 | (CB5 - 3 A)  |
| 12.6 BID 2                 | (CB6 - 3 A)  |
| 12.7 T/P 1 (Teleprinter 1) | (CB7 - 1 A)  |
| 12.8 T/P 2 (Teleprinter 2) | (CB8 - 1 A)  |
| 12.9 MUX (Multiplexer)     | (CB9 - 1 A)  |
| 12.10 FANS/HEATER          | (CB10 - 5 A) |
| 12.11 LIGHTS (AC)          | (CB11 - 2 A) |
| 12.12 AMENITY              | (CB12 - 5 A) |

12.13 LIGHTS (DC) (CB13 - 1 A)

12.14 AC CHARGER (CB15 - 3 A)

#### LIGHTING/BLACKOUT SWITCHES

13 Three ceiling mounted fluorescent lights and a Blue light are installed in the rear compartment of the Land Rover.

14 The MASTER ON/OFF switch controls the operation of the lighting circuit. This circuit is fed from CB11 (2 A) of the Power Distribution Unit.

15 With the MASTER ON/OFF switch set to OFF the Blue light is inoperable. Each particular fluorescent light is switched on using the switch on the end of each light panel.

16 With the MASTER ON/OFF switch set to ON, the Blue light is illuminated when the rear door is opened. At this point, the fluorescent lights are extinguished.

#### EQUIPMENT RACKS

17 Both equipment racks in the Land Rover are shock mounted. The equipment rack behind the front compartment seats is mounted to the radio table and roof and forms a partition between the front and rear compartments. The equipment rack on the right hand side is mounted to the floor and the right hand wall.

18 The equipment within the rack (behind the front compartment seats) is bolted in, and is accessible from the front only. The exception to this is that the Clansman Batteries (Batteries, Secondary, Alkaline, 24 V 4 AH) are located on the front compartment side of the equipment rack.

19 The rack containing the BIDs has two hinged front covers to protect the BIDs from unauthorised operation. This rack is 1050 mm wide, 240 mm high and 560 mm deep.

#### CAUTION ...

SECURITY. This front cover must be closed and secured at all times except when operations necessitate altering the controls of the BID equipments.

#### STOWAGE AND STOWED ITEMS

20 Table 1 lists the items that are stowed within the Forward Detachments Land Rover.

TABLE 1 STOWED ITEMS

CATALOGUE NO./ DRAWING NO.	DESIGNATION	QTY
Z99-6140-99-8057	Battery, Ni-CAD 4 AH	3
5985-99-630-8455	Antenna Element, Bottom	4
5985-99-630-8456	Antenna Element, Centre	2
5985-99-630-8457	Antenna Element, Top	2
Z42/5985-99-637-0806	Case Antenna	1
5965-99-633-5991	Headgear Lightweight	2
5805-99-104-0214	Key Telegraph Manual	1
6545-99-211-1573	First Aid Kit	1
4210-99-881-4724	Fire Extinguisher	1
	Cable Assy Electrical	1
	Lead Electrical	2
Z42/59750-99-2233700	Earth Spike	2

BATTERY, SECONDARY, ALKALINE 24 V 4 AH

21 This is commonly known as the Clansman Battery. Within the Forward Detachments Land Rover three are installed.

22 This battery is a sealed unit, supplying 24 volts d.c. for the DMHD equipment. It is rated at 4 Ampere/Hour (AH).

23 In the Forward Detachment Land Rover it should be charged only via the charger, battery, d.c. 28 V and a special purpose lead is supplied for this purpose. Of the three batteries in use within the Forward Detachment Land Rover, one is used for the DMHD equipment, one is used for the remote UK/PRC 320 radio and one is a standby which is kept charged. Only one battery can be charged at a time from the Charger, Battery, d.c., 28 V.

BATTERY, TYPE 63, LEAD ACID, 12 V 44 AH

24 The two lead acid batteries are connected in series to provide a supply of 24 volts nominal at a rate of 44 AH. The batteries are installed in an exterior panier on the left hand side of the vehicle. Access is achieved by unscrewing the two screw headed fasteners and raising the hinged lid.

25 The batteries can be charged from the engine driven alternator or from the interior mounted Battery Charger (LA MARCHE) when mains power is connected to the vehicle.

26 The batteries supply power to the Charger Battery, d.c. 28 V and the Emergency Lights.

BATTERY CHARGER (LA MARCHE)

27 The Battery Charger (LA MARCHE) is mounted on the left hand side of the equipment frame. It is powered by 240 V a.c. whenever mains/generator power is connected to the vehicle (i.e. there is no ON/OFF switch). The unit will supply a charging current, at 28 volts nominal, of up to 4 Amps.

28 A meter mounted in the front panel indicates the charging current. The unit is permanently wired to the Lead Acid Batteries mounted in the exterior panier.

29 A fuse rated at 2 Amps is accessible on the front panel.

CHARGER, BATTERY, DC 28 V

30 A hermetically sealed d.c. to d.c. converter with voltage and current regulation designed to float charge a single clansman Battery from a 28 V d.c. Fitted For Radio (FFR) vehicle supply. The equipment may also be used for charging the battery (Battery, Secondary, Alkaline 24 V 4 AH in isolation from the radio. Single lamp indication operated by a temperature sensing circuit shows correct charging and fully charged conditions.

DMHD

31 Fig 4 shows a diagram of the DMHD. For the technical description of the DMHD, see AESP 5895-C-201.



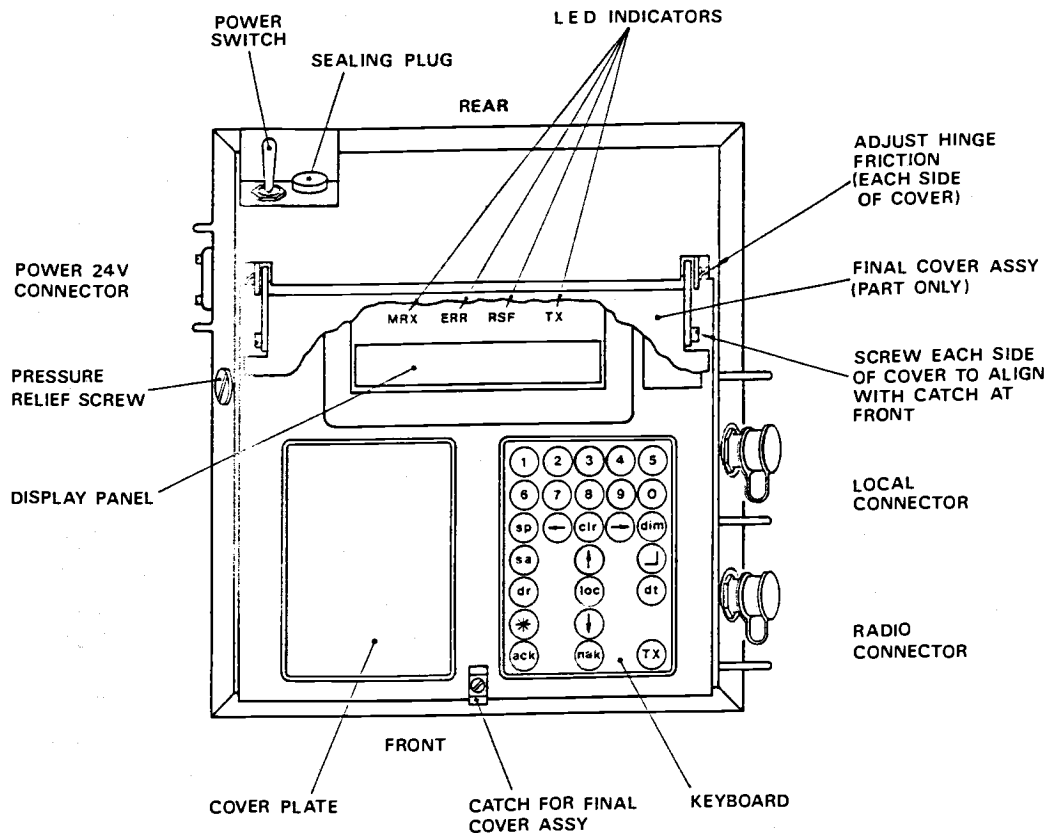


Fig 4 DMHD - diagram

EQUIPMENT BID 950

32 For information on this unit, refer to AP 216-M-0611.

INTERFACE AND TEST UNIT ASSEMBLY

33 The Interface and Test Unit Assembly provides the following functions:

- 33.1 Interfaces the two receiver audio outputs to a single cable carrying the signal inputs to the Piccolo Multiplexer LA 1121.
- 33.2 Allows test signals originating from the Test Message Generator (TMG) to be switched to either receive channel of the Piccolo Multiplexer LA 1121 for loopback checking of the system.
- 33.3 A keyswitch and push button operated 'Pressel' control line for outputting via the RCU to the remote UK/PRC 320 radio transmitter.
- 33.4 A through connection of a test signal output via the RCU to the remote UK/PRC 320 radio transmitter.

34 The unit is positioned in the centre of the main frame. Three D type connectors and an earth bonding stud are mounted on the rear of the unit.

35 A test switch, a key operated switch, a push button switch and a pattern 105 Clansman Audio connector are mounted on the Front Panel as shown in Fig 5.

36 Fig 6 shows the circuit diagram of the Interface and Test Unit Assembly.

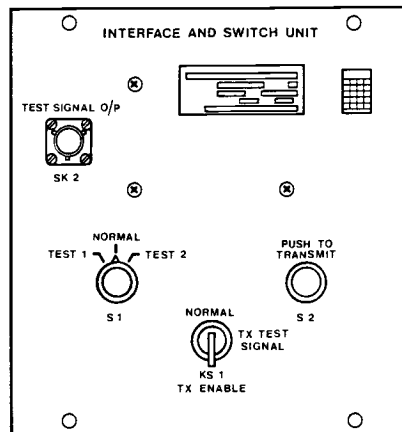


Fig 5 Interface and Test Unit Assembly Front Panel

#### ISOLATING SWITCH

37 A heavy duty switch (Lucas CAV type 444D-2M) (handle must be pulled before turning) which can be used to isolate or connect the Charger Battery d.c. 28 volt from/to the vehicle 28 volt supplies.

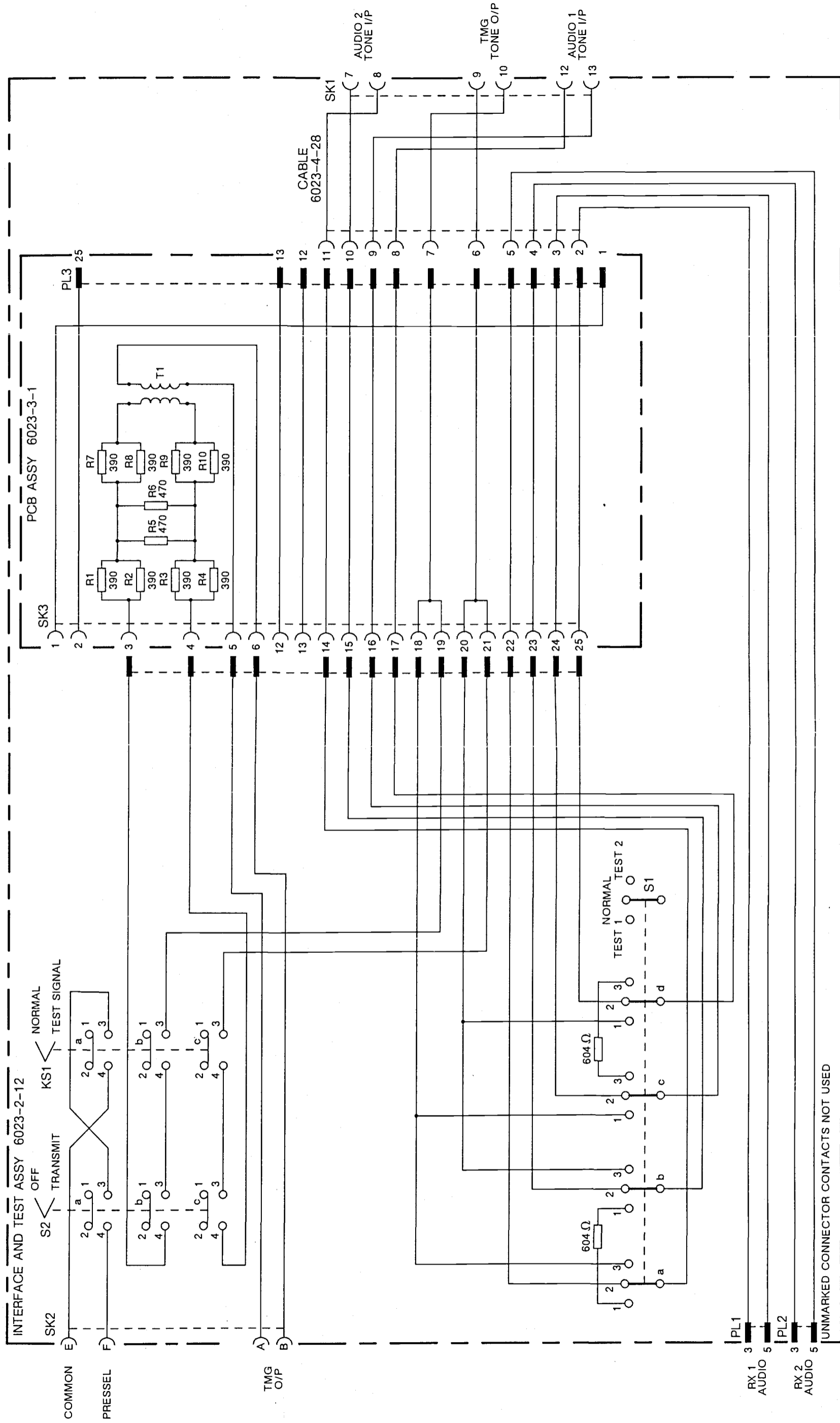
#### PICCOLO MODEM LA 1117D

38 The LA 1117D is a modem designed primarily to operate as an interface between a low speed telegraphy system (normally a teleprinter) and a HF radio link. It uses the multi-frequency shift keying (MFSK) piccolo modulation system.

39 The send and receive systems operate independently. This allows operation in the semi-duplex or full duplex mode according to the terminal equipment provided. The construction of the LA 1117 also permits sub-equipping to provide send-only and receive-only variants. In this installation both send and receive circuits are equipped.

40 Front panel controls have been reduced to a minimum, operational control being exercised via rear panel connectors. Many of the front panel status and warning indicators are repeated by logic signals at the rear panel connectors. Operational flexibility is achieved by means of a number of wired links and four switches on several of the printed circuit boards, which allows the choice of alternative methods of operation and performance parameters. Table 2 lists the setting of these links and Table 3 the setting of the switches for use within CPUCS.

41 For Piccolo coding, each character of the telegraph code is converted to a sequence of two audio tones, each tone being of 50 ms duration. The tones are chosen from a group of tones spaced at 20 Hz intervals. Each group of tones is referred to as a channel.



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Fig 6 Interface and Test Unit Assembly Circuit Diagram



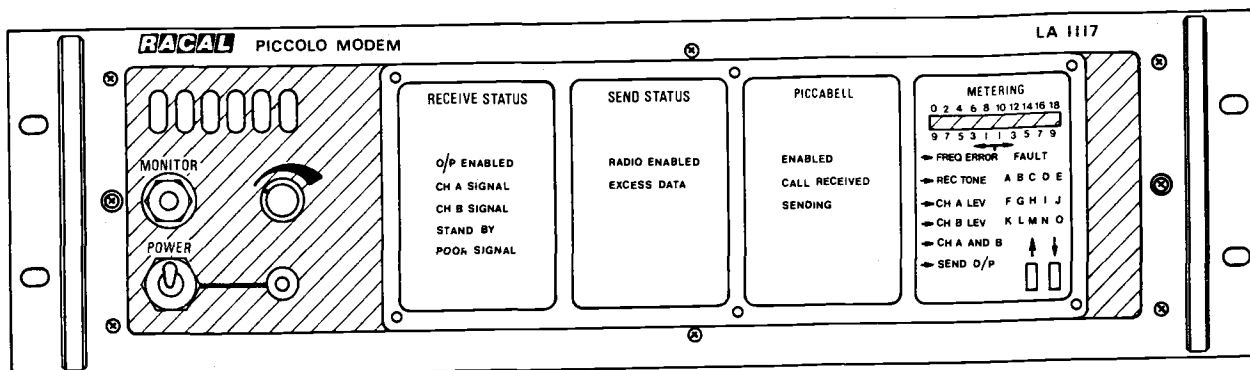


Fig 7 Piccolo Modem LA 1117D

TABLE 2 PICCOLO MODEM LINK CONFIGURATION

LOCATION	LINK	POSITION
Board A	1	A
Board A	2	A
Board A	3	A
Board B	1	B
Board B	2	A
Board B	3	B
Board B	4	B
Board B	5	A
Board D	1	A
Board D	2	A
Board D	3	B
Board D	4	B
Board E	1	A
Board E	2	A
Board E	3	A
Board E	4	A
Board E	5	A

(continued)

TABLE 2 PICCOLO MODEM LINK CONFIGURATION (continued)

LOCATION	LINK	POSITION
Board F	1	B
Board F	2	B
Board G	1	B
Board G	2	Made
Board H	1	A
Board H	2	A
Board L	1	A
(Rear Panel)	2	A
(Rear Panel)	3	B
Board M	1	A
(Front Panel)	2	A
(Front Panel)	3	A

TABLE 3 PICCOLO MODEM SWITCH SETTINGS

SWITCH	SETTING
1	UP (Normal)
2	UP (Normal)
3	UP (Normal)
4	DOWN (Internal)

Note ...

Switches 1 to 4 are accessible via a removable plate on the rear panel.

42 The six tone versions of the LA 1117 provide 36 tone pairs per channel. This allows operation with International Telegraph Alphabet (ITA) No. 2 telegraph code of 32 characters, one tone sequence being allocated to the standby condition and three tone sequences remaining unused. The twelve tone versions provide 144 tone pairs per channel, and allow operation with ITA No. 5 code of 128 characters. One tone sequence is allocated to the standby condition and 15 remain unused.

43 For ITA No. 5 code working the 12 tones are spaced from 0 Hz to 220 Hz above the lower limit of the channel in use. For ITA No. 2 code working the tones are spaced from 60 Hz to 160 Hz above the lower limit of the channel in use (tones 3 to 8 of the full channel set).

44 The send and receive systems may be operated in different channels. The channel to be used is selected by the application of logic levels to the three control wires provided for each system. If no connection is made to the control wires, channel 1 is automatically selected. Using suitable external combining networks, up to four modems, working in different channels, may be connected to drive a common transmitter or to be fed from a common receiver. Modems multiplexed in this way must be operated in channels 1, 3, 5 and 7 only to prevent overlap of the channels. It is not necessary for all the multiplexed modems to use the same telegraph code, but the same code must be used for the send and receive systems in any one modem.

45 The piccolo encoding and decoding takes place under the control of the send and receive 10 Hz clocks which are independently derived from the frequency standard. A data rate of exactly 10 characters per second is therefore maintained at the audio output to the transmitter and at the serial output to the receive teleprinter. The modem is designed to permit an input data rate in excess of ten characters per second from the send teleprinter for short periods.

46 Successful operation of the communication link depends upon accurate synchronisation of the receive clock to the incoming signal. This is achieved by transmitting a synchronising signal during a mandatory standby period immediately before data is transmitted. During this period the receiving modem receive clock is synchronised with the incoming signal. Further synchronising signals will be transmitted automatically in any character period during which no character is available for transmission by the sending modem. This will check, and if necessary correct, the synchronism during each break in the data stream.

47 When multiplex working is in use the send clocks of the transmitting modems must be synchronised. Provision is made for one send clock to act as a master clock, or for all the clocks to be synchronised to an external 10 Hz source. The receive systems of multiplexed modems are individually synchronised to their received signals.

48 The normal input to the send system is serial binary coded information from a teleprinter or tape reader. The serial data input connector conforms to the requirements of International Telegraph and Consultative Committee (CCITT) V24, and the electrical characteristics of the applied signals should conform to CCITT V28. An internal link detailed in Table 2 can be set to make either polarity of mark acceptable.

49 Three audio outputs, carrying MFSK coded characters or the standby tone sequence, are provided. The main output, intended for transmitter modulation, is balanced and at a level which can be reset between -20 dBm and +3 dBm in 600 ohms (set to -13 dBm for use in CPUCS).

50 The other two audio outputs are intended for local use only, and are not suitable for direct connection to UK Post Office lines. The outputs are accurately in quadrature, and may be used to generate Single Sideband (SSB) modulation by the third method. One output may be balanced or unbalanced, according to the setting of an internal link. The level can be preset between -20 dBm and +3 dBm in 600 ohms (not used in this installation).

51 In addition to the audio outputs, a Binary Coded Decimal (BCD) representation of the audio tone to be transmitted is provided on nine control lines. This covers the audio frequencies used in channels 1 to 7. The control line signals are at TTL levels, and may be used to control a digitally programmed synthesizer. An internal link can be set to make the logic active high or active low (not used in this installation).

52 The receive system accepts MFSK modulated audio signals from two HF receivers, operated in diversity, via 600 ohm balanced inputs. Although the system will function with a single audio input this is not recommended. The selection of the larger of the diversity signals is carried out automatically within the modem. The two inputs must be in the same channel.

53 The output of the receiver system is serial binary coded information suitable for driving a teleprinter. The serial data output connector conforms to the requirements of CCITT V24, and the signals conform to the requirements of CCITT V28. An internal link detailed in Table 2 can be set to make either polarity of mark available.

54 The unit contains a Piccabell facility (not used in this installation). This is a selective calling system which generates a pre-set signal sequence in response to a single SEND CALL instruction. The call cycle consists of:

54.1 A 9.6 second period of synchronising signal (96 standby tone pairs).

54.2 A pre-set, single character address, repeated 16 times.

54.3 The ALL MARK character (Letter Shift in ITA No.2 code, Direct Exchange Line (DEL) in ITA No.5 code) repeated 16 times.

54.4 A pre-set, four character sender identification signal, repeated four times.

55 The 9.6 second standby transmission ensures that the receiving station is synchronised to the transmission before the address is received.

56 The receive system provides for the automatic generation of a CALL RECEIVED signal in response to the recognition of a pre-set address signal. This may be used to enable a teleprinter for either four or 25 seconds. A self cancelling mode, in which the receiving station reverts to the listening condition approximately three seconds after the generation of the CALL RECEIVED signal, is also provided.

57 A check of even parity is made on the send data input when the ITA No. 5 code is in use. The parity bit is not used in the piccolo modulating system, so that, although the parity bit is reinserted in the received data, no check for errors occurring in the radio link is provided.

58 A 'near miss' facility is provided which gives a general indication of the error rate in the data being received and a rapid indication of failure or serious deterioration of the radio circuit. An optional error indication facility is available with an additional printed circuit board.



59 A comprehensive system for monitoring the operation of the modem is incorporated. Light Emitting Diode (LED) indicators are used to indicate the status of the send and receive channels and the piccabell called system during operation. A loudspeaker or headphones may be used to monitor the MFSK tones from either of the inputs to the receive channel or in the send channel. A visual monitoring system, able to display signal levels, tone detector activated and the frequency error in the synchronising system, is available as an aid to the detection of faulty operation.

60 Continuous automatic monitoring of 15 parameters within the modem is carried out. Failure of any one of these will result in the lighting of the associated LED on a front panel error indicator.

PICCOLO MULTIPLEXER LA 1121

61 The LA 1121 Piccolo Multiplexer provides facilities for the multiplexing and demultiplexing of the audio signals to and from up to four Piccolo Modems type LA 1117, together with appropriate control facilities.

62 The LA 1121 performs three independent functions viz the combining of the send path signals, the splitting of the composite receive-path signals and system control.

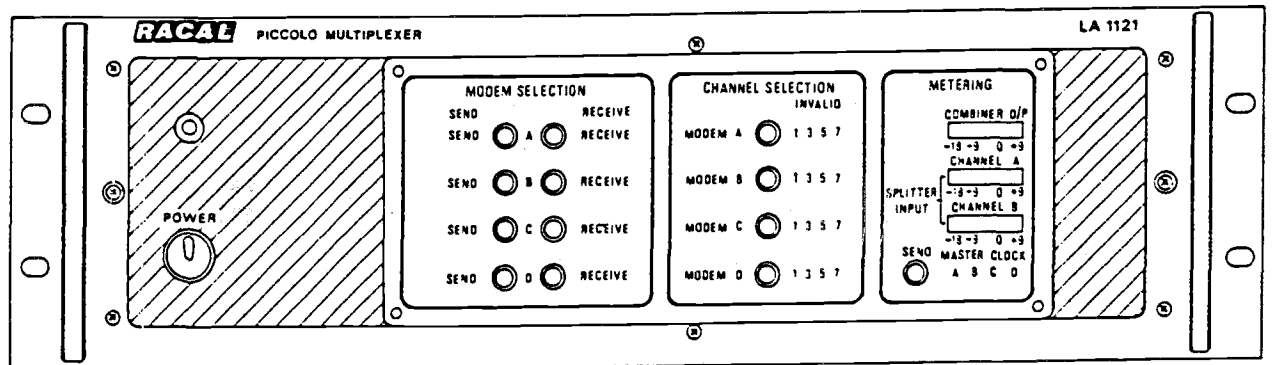


Fig 8 Piccolo Multiplexer LA 1121

- 63 The send section combines the audio outputs from up to four LA 1117 Piccolo Modems into a single composite audio signal suitable for driving an SSB modulator.
- 64 The receive section accepts the audio outputs from two radio receivers operating in diversity and splits them to form four pairs of audio signals to drive four Piccolo Modems.
- 65 Control signals for the send and receive sections of the LA 1121 unit and for the associated Piccolo Modems are provided by the control section of the LA 1121.
- 66 The send and receive sections of the LA 1121 are completely separate. This allows for the production of send only, receive only or full duplex systems (full duplex supplied for this installation).
- 67 The control of the LA 1121 Piccolo Multiplexer and of the associated LA 1117 Piccolo Modems is effected by the controls and displays located on the front panel of the LA 1121 unit.
- 68 These controls consist of thirteen pushbuttons which together cover the functions of channel selection, modem send selection, modem receive selection and send master clock selection.
- 69 On pressing a pushbutton, the relevant control instruction is sent to the LA 1121 circuits and, via a logic interface operating at V28 signal levels, to the LA 1117 units. A legend adjacent to the pushbutton glows, to indicate the selected operational state.
- 70 Metering is provided to show the combiner output level, the channel A splitter input level and the channel B splitter input level. These signal levels are shown on three ten-element bar-graph indicators. The indicators have a dynamic range of 30 dB, from -20 dBm to +9 dBm, in 3 dB steps.
- 71 The nominal signal level for the three audio signal paths is -13 dBm, at 600 ohms impedance.
- 72 The LA 1121 unit can be powered from either a 115 V a.c. supply, a 230 V a.c. supply or a 24 V d.c. supply. All necessary operating potentials are derived from this supply via inbuilt voltage regulator and d.c.-to-d.c. converter modules.
- 73 The a.c. and d.c. supply inputs can be connected at the same time. The d.c. supply is disconnected internally when an a.c. supply is available; it is switched into use 'automatically' when the a.c. supply is removed either intentionally or during a supply failure.
- 74 The LA 1121 unit is designed for standard 483 mm wide rack mounting. All the components are housed in a folded sheet metal box which has a removable top cover. The box is formed by a front panel assembly, a rear panel assembly and the main chassis.
- 75 The operational controls and displays are carried on the front panel assembly.

76 The signal and logic circuits are carried on a total of seven printed circuit boards.

77 The majority of the inter-board connections are made via ribbon-wiring which terminates into multiway connectors. The external signal connections are made via multipin connectors which protrude through the rear panel.

RECEIVER RADIO UK/TRR 628

78 The Receiver Radio UK/TRR 628 is a fully synthesised, tunable solid state communications receiver, designed for operator control and suitable for all forms of reception and monitoring over the frequency band 15 kHz to 30 MHz.

79 Selection of the megahertz band is by switched incremental 1 MHz steps. Two rates of tuning within the megahertz band may be switch selected, fast (100 Hz steps) or slow (10 Hz steps) and once the required frequency has been set, the single tuning knob may be electrically disengaged, ensuring no change in the setting due to any accidental movement. The frequency display is a non-flicker electronic read out.

**FIGURE NOT SUPPLIED**

Fig 9 Receiver Radio UK/TRR 628

80 Comprehensive metering facilities provide an indication of r.f. level, AF level, FSK tune and supply test levels. A switched monitor loudspeaker and two front panel head phone jacks are provided as well as comprehensive input and output connectors mounted on the rear of the chassis.

#### REMOTE COMBINING UNIT

81 The Remote Combining Unit (RCU) provides an interface between the DMHD located in the Forward Detachment, Land Rover and the remote radio. This is to allow remote operation of the radio although frequency changes cannot be achieved remotely.

82 A call and speak facility is provided through the RCU between the Forward Detachment operator and the remote radio operator.

## FIGURE NOT SUPPLIED

Fig 10 Remote Combining Unit

#### TELEPRINTER ELECTRONIC UK/TGC 402

83 The Teleprinter Electronic UK/TGC 402 comprises two modules, printer and Electronic Send Receive (ESR) Module with integral keyboard. For use within the Forward Detachment Land Rover, the Teleprinter UK/TGC 402 is modified to remove the keyboard, thereby enabling RO operation.

84 The Teleprinter Electronic UK/TGC 402 prints at speeds of up to 90 characters per second using standard teleprinter rolls. The 9 x 9 dot matrix characters are formed by moving a nine needle ballistic print head horizontally across the paper roll and firing the appropriate needles at the paper surface with an inked ribbon interposed. The needle impact causing the transfer of ink to the paper.

85 Data received and stored in memory is released for printing on a first-in, first-out basis and when dual colour ribbons are fitted, the colour signifies whether data is 'Received Data' or 'Transmitted Data'.

86 An Audible Warning device is energised when the print head reaches a pre-selected number of characters before the end of line.

87 The printer will accept standard teleprinter rolls of 8.5" width, single or up to six part, carbon interleaved or pressure sensitive paper. Rolls of up to 5 inches diameter are acceptable and are totally enclosed within the printer housing. The printer is fitted with a paper low visual indicator or interface alarm status signal.

88 The printer can be fitted with standard single or dual colour spool ribbons. These are fitted by the operator through access in the top cover.

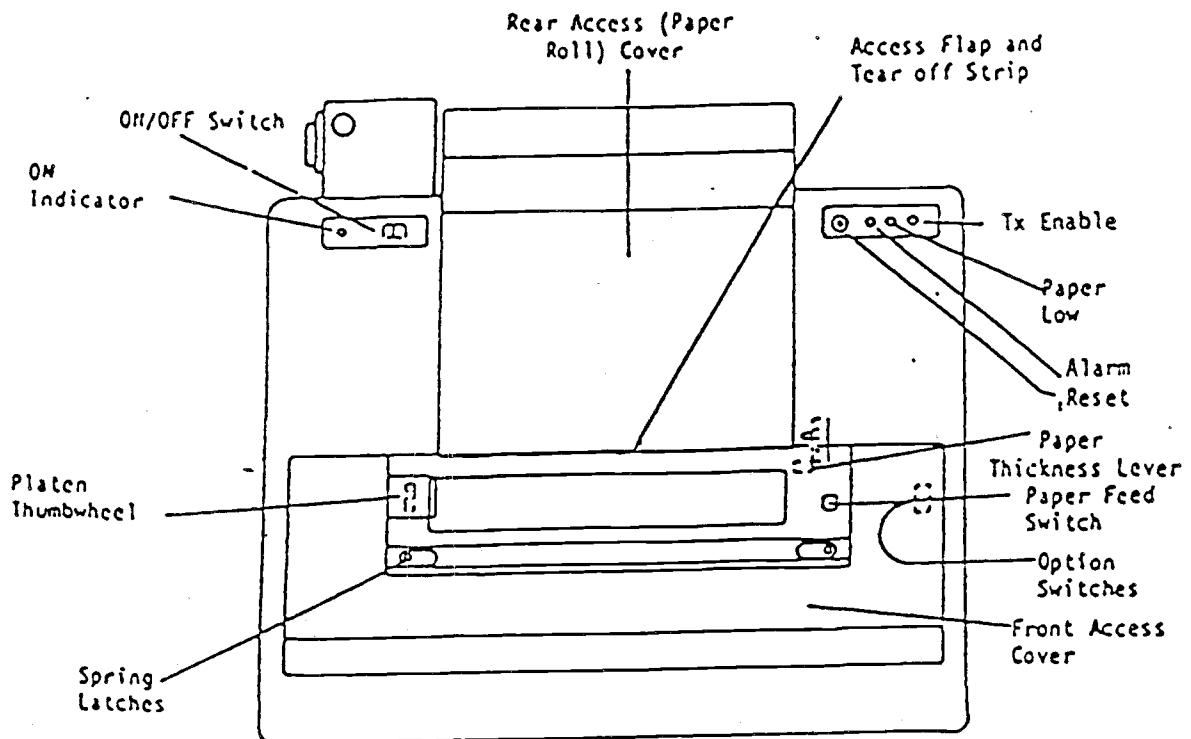


Fig 11 Teleprinter UK/TGC 402

89 The printer is fitted with a 25-way 'D' type plug for interconnection with the communications interface. The a.c. mains supply is connected via a three-pin International Electrotechnical Commission (IEC) plug fitted at the rear of the printer. A mating two metre long mains cable with moulded connector is provided as standard.

90 A series G plug, to MIL C2648L, is also fitted to the rear panel for connection of d.c. supply.

91 The printer is housed in a polystyrol moulded case providing sound insulation and fire retardent properties.

92 The Teleprinter UK/TGC 402 has an electronic memory and strip display. The memory is used for off-line message preparation, for transmission of stored messages and for storing received messages. These processes will all take place simultaneously when necessary.

93 The strip display is used for operator 'prompts' to help with terminal use.

94 The printer can be used off-line for local printing of messages or online for printing received messages.

95 When a Teleprinter Electronic UK/TGC 402 has to be replaced, the new item will be a complete unit (i.e. with keyboard). Before this unit can be installed in the Forward Detachment Land Rover it has to be modified to R0. The procedure for modification is detailed in Chapter 4 in Removal and Replacement of this unit.

#### TEST MESSAGE GENERATOR

96 TBA

END

Chapter 4  
REPAIR INFORMATION  
CONTENTS

Para

- 1 Failure Diagnosis (WARNING)
- 14 Wiring Failures  
Instructions for the Replacement of Individual Equipments (WARNING)
- 17 Battery, Secondary, Alkaline 24 V 4 AH
- 18 Battery, Type 63, Lead Acid 12 V, 44 AH
- 19 Battery Charger (La Marche)
- 20 Charger Battery, DC, 28 V
- 21 DMHD
- 22 Teleprinter Electronic UK/TGC 402 (WARNING) (CAUTION)
- 24 Equipment BID 950
- 25 Interface and Test Unit Assembly
- 26 Isolating Switch
- 27 Piccolo Modem LA 1117D
- 28 Piccolo Multiplexer LA 1121
- 29 Receiver Radio UK/TRR 628
- 30 Remote Combining Unit

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3 DIL Switch Settings ... ..	47

Repair  
Chart  
No

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3 Signal Distribution - diagram ... ..	15/16
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FAILURE DIAGNOSIS

1 This section provides the technician with a guide to failure diagnosis and the relevant information to enable the replacement of failed components and units within the Forward Detachments Land Rover. Repair Charts 1 - 5 show the repair policy for this installation.

2 The Repair Charts depict the repair policy in diagrammatic form using a series symbols as shown in Fig 1. All items to which the same repair policy applies, and which are descended from the same vertical line on the chart, are represented by a single symbol. This symbol may contain reference to a table where the items represented are listed.

3 Information on each item is contained in or adjacent to the repair chart symbol as applicable.

4 Circuit diagrams of the a.c. and signal distribution are provided at Figs 2 and 3. All electrical descriptions of individual assemblies and units are given in previous paragraphs. Wiring diagrams and tables of technical block connections for individual assemblies are provided at Figs 4 - 6 and Table 1.

5 Prior to any failure diagnosis carry out the following checks:

5.1 Check that the earth spikes and connections are correctly installed.

5.2 Check that the power cable is correctly and securely connected.

5.3 Check that the generator/mains supply is correct and switched on.

6 No special tools or test equipment are required beyond those contained in the tool kit telecoms (Technicians) and a general purpose multimeter.

7 Follow the procedures detailed in 5800-C-107-201 for connecting power to the Forward Detachments Land Rover and for powering individual equipments.

8 By routine procession through the procedures, making full use of indicator lamps, built in current and voltage meters a power failure may be isolated to a particular unit or distribution box.

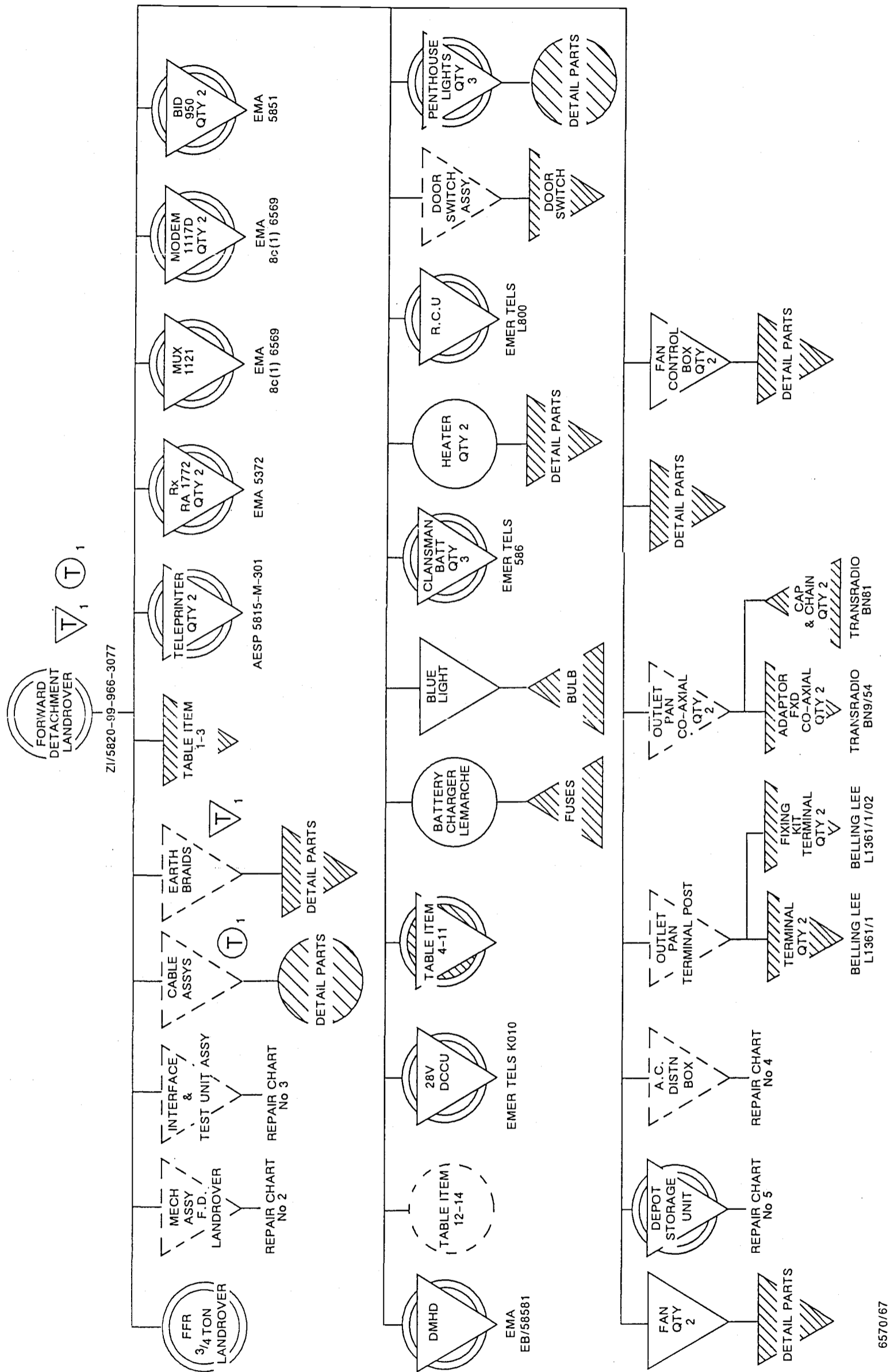
9 The following procedure details how to gain access to the Power Distribution Unit and change a circuit breaker.

9.1 TBA

WARNING ...

SHOCK HAZARD. BEFORE ATTEMPTING TO GAIN ACCESS TO THE POWER DISTRIBUTION UNITS, SWITCH OFF THE MAINS POWER TO THE INSTALLATION AND DISCONNECT THE SUPPLY CABLES .





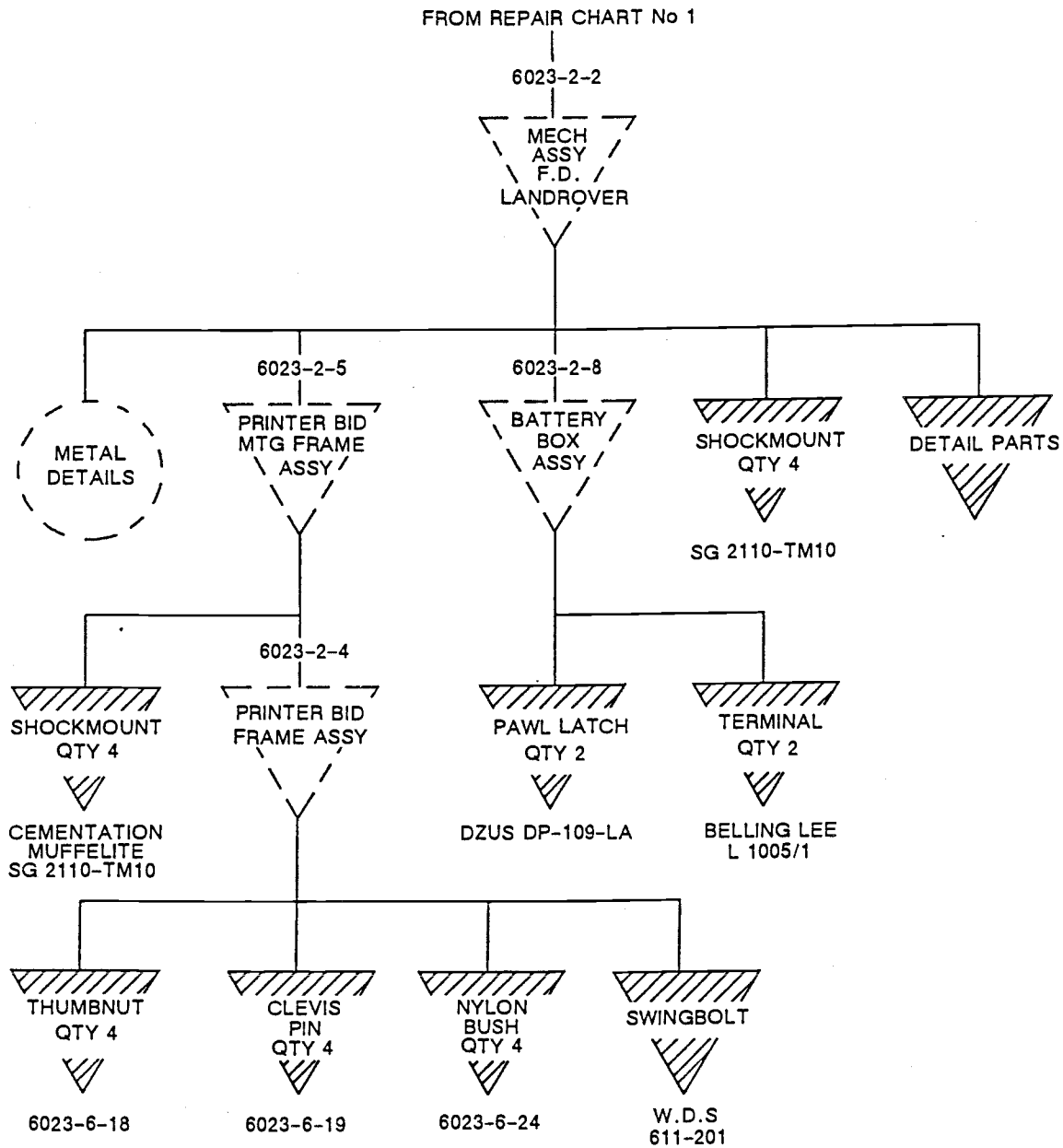
Repair Chart No 1 Communications Installation (Forward Detachment)  
(CPUCS) in 3/4 Ton FFR Land Rover (Part 1)

6570/67



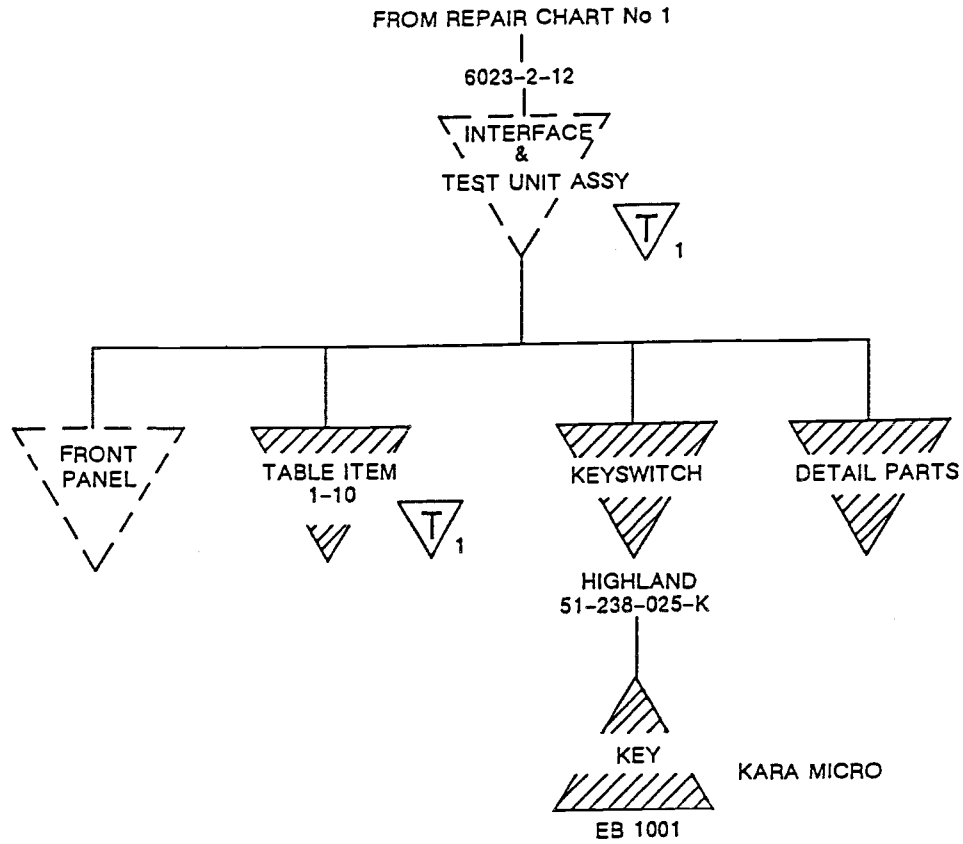
ITEM	DESIGNATION	QTY	PART NO/NSN
1	Telescopic Slide	6	
2	Isolating Switch	1	
3	Heater Socket	2	
4	Blackout Curtain Assembly	1	
5	Bracket Fire Extinguisher	1	
6	Battery 12 V	2	
7	Fire Extinguisher	1	4210-99-881-4724
8	Earth Spike	2	5975-99-223-3700
9	Pick	1	
10	Mattock	1	5120-99-910-4746
11	First Aid Kit	1	6545-99-211-1573
12	Printer Mounting Plate Assembly	1	
13	Cable Reel	1	
14	Safe	1	

Repair Chart No 1 Communications Installation (Forward Detachment)  
(CPUCS) in 3/4 Ton FFR Land Rover (Part 2)



6570/58

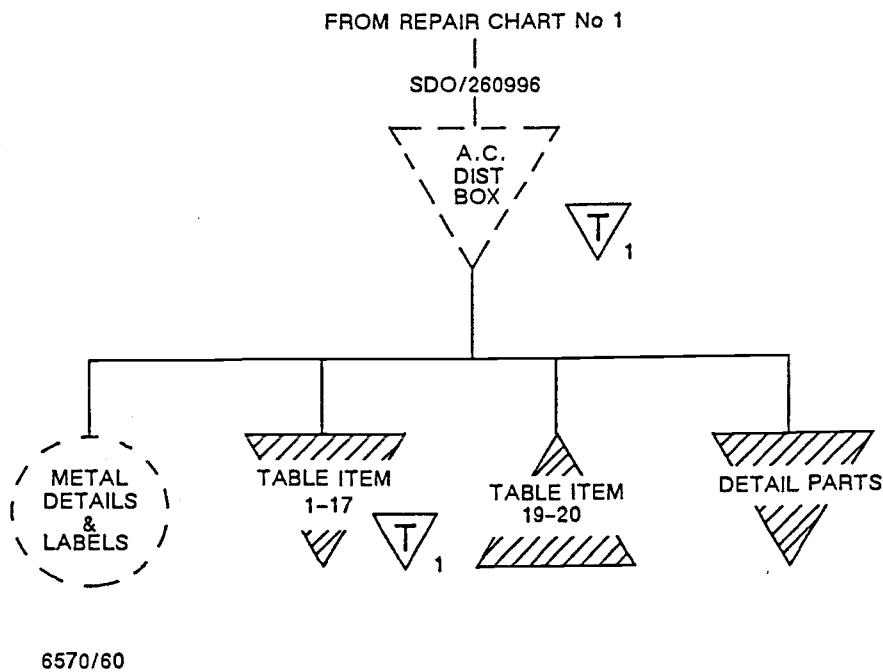
Repair Chart No 2 Mechanical Assembly Forward Detachment Land Rover



6570/59

ITEM	DESIGNATION	QTY	PART NO/NSN
1	Interface PCB Assembly	1	6023-3-1
2	Push Button Switch	1	Highland 51-133-025
3	Rotary Switch	1	Elma 04-1431
4	Spacer	1	Elma 4124-31
5	Knob	1	Elma 020-4420
6	Pointer	1	Elma 041-4120
7	Washer	1	Elma 048-2100
8	Cap	1	Elma 040-4020
9	Fixed Socket	1	Style No C2097-10-07-FF0
10	Resistor	2	Welwyn

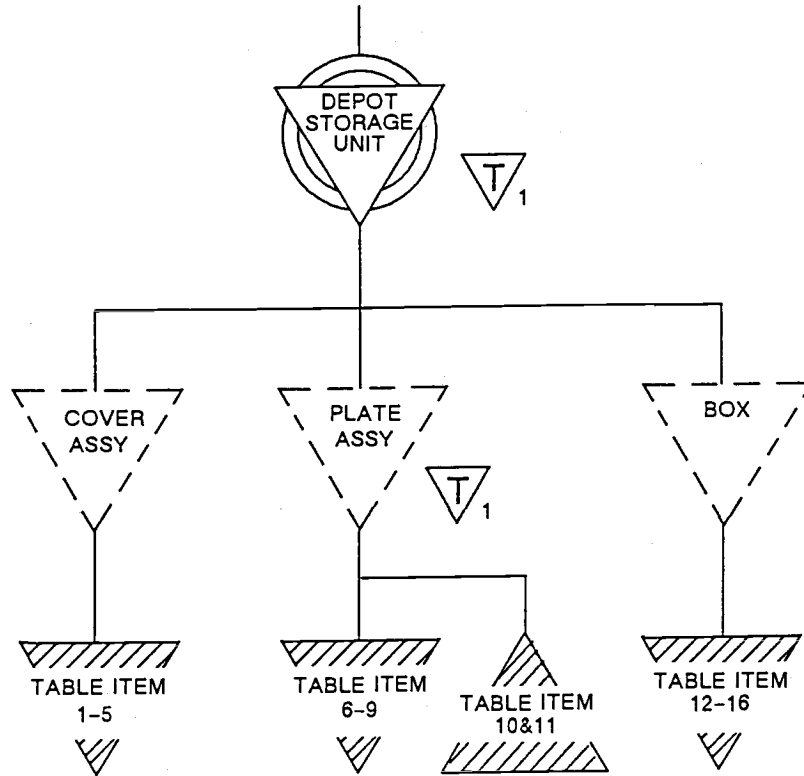
Repair Chart No 3 Interface and Test Unit Assembly



ITEM	DESIGNATION	QTY	PART NO/NSN
1	Fuse Holder	2	5920-99-643-6112
2	Shock Protection Unit	1	Crabtree L13030-30A-500V
3	Neon Indicator Red	1	6210-99-622-4922
4	Pattern 3 Terminal 3 Amp	2	5940-99-636-6809
5	Min Neon Indicator Red	13	Belling Lee L1897/240/RED
6	Circuit Breaker 1 A	8	ETA 412-K14-N2(-FN2) 1A
7	Circuit Breaker 2 A	1	ETA 412-K14-N2(-FN2) 2A
8	Circuit Breaker 3 A	3	ETA 412-K14-N2(-FN2) 3A
9	Circuit Breaker 5 A	2	ETA 412-K14-N2(-FN2) 5A
10	Socket Outlet	1	MK 2958 MCO
11	Terminal Block	4	Belling Lee L1639BN1
12	Fixed Plug	1	5935-99-940-1666
13	Terminal Block 12 Way 30 A	2	Metway 1222T
14	Fixing Kit Ref 02	2	Belling Lee L1361/1
15	Oddie Midget Fastener	3	Ross Courtney OF 554
16	Retaining Washer	3	Ross Courtney OF 726
17	Clip Midget Type	3	Ross Courtney 212
18	Fuse Link 1.15 A	2	5920-99-059-0147
19	Lid Fuse Holder	2	5920-99-533-6883

Repair Chart No 4 AC Distribution Box

FROM REPAIR CHART No 1



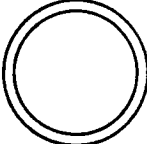

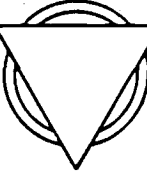
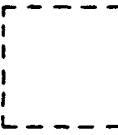
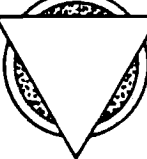

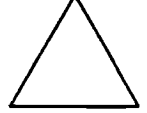



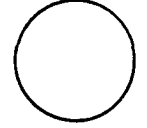
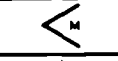
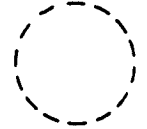

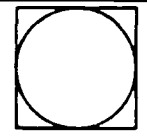







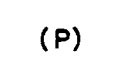


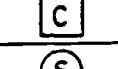
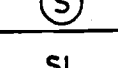
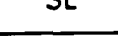

6570/53

ITEM	DESIGNATION	QTY	PART NO/NSN
1	Lens	1	FV 686933
2	Bezel	1	FV 686934
3	Sealing Ring	4	
4	Pivot	4	FV 686931
5	Screw	4	FV 842200
6	Terminal Block	1	
7	Lamp Holder	1	FV 667667
8	Fuse Unit	1	FV 953264
9	ELCB	1	
10	Fuse	1	
11	Lamp	1	6240-99-996-5395
12	Plugs Fixed	1	MS 3102E-18-11-PX
13	Gasket	1	FV 585124
14	Cap and Chain Assembly	1	
15	Socket Fixed	1	FV 385008
16	Gasket	1	FV 585122

Repair Chart No 5 Depot Storage Unit





	INDICATES AN EQUIPMENT HELD ON USER CHARGE, WHICH WHEN DEFECTIVE MUST BE REPAIRED BY THE REPAIR ORGANISATION, OR IF A COMPLETE REPLACEMENT IS REQUIRED, IT MUST BE OBTAINED THROUGH THE NORMAL SUPPLY CHANNELS		INDICATES AN ITEM WHICH CAN BE REPLACED BY THE REPAIR ORGANISATION AT BASE LEVEL (NORMALLY RANGED AS A SPARE)
	INDICATES AN ANCILLARY ITEM OF THE EQUIPMENT WHICH WHEN DEFECTIVE MUST BE REPAIRED BY THE REPAIR ORGANISATION (NORMALLY A CES ITEM)		INDICATES AN ITEM WHICH IS SUBJECT TO BASE REPAIR BUT IS NOT RANGED AS A SPARE
	INDICATES AN ANCILLARY ITEM OF THE EQUIPMENT WHICH IS NOT SUBJECT TO REPAIR (NORMALLY A CES ITEM)		CROSS HATCHING WITHIN ANY SYMBOL INDICATES THAT THE ITEM REPRESENTED IS A CONSUMABLE ITEM
	INDICATES AN ITEM WHICH CAN BE REPLACED BY THE OPERATOR AT UNIT LEVEL (NORMALLY RANGED AS A SPARE)		A DESIGNATION WITHOUT A SYMBOL SURROUND IS USED TO INDICATE A LOGICAL BREAKDOWN AREA WHICH DOES NOT EXIST AS AN ASSEMBLY
	INDICATES AN ITEM WHICH IS SUBJECT TO UNIT REPAIR BUT IS NOT RANGED AS A SPARE		SYMBOLS REPRESENTING ITEMS WHICH ARE STOWED OR CARRIED REMOTE FROM THE EQUIPMENT ARE JOINED TO THE CHART BY BROKEN LINES
	INDICATES AN ITEM WHICH CAN BE REPLACED BY THE REPAIR ORGANISATION AT FIELD LEVEL (NORMALLY RANGED AS A SPARE)		THE SYMBOLS SO ANNOTATED REPRESENT CENTRALISED REPAIR ITEMS (CENTREMS) SEE LIST OF CENTREMS FOR REPAIR/RETURN AGENCY
	INDICATES AN ITEM WHICH IS SUBJECT TO FIELD REPAIR BUT IS NOT RANGED AS A SPARE		INDICATES THAT TEST AND DIAGNOSTIC FACILITIES ARE REQUIRED BY THE OPERATOR *
	INDICATES AN ITEM WHICH CAN BE REPLACED BY THE REPAIR ORGANISATION AT INTERMEDIATE LEVEL (NORMALLY RANGED AS A SPARE)		INDICATES THAT TEST AND DIAGNOSTIC FACILITIES ARE REQUIRED AT UNIT LEVEL *
	INDICATES AN ITEM WHICH IS SUBJECT TO INTERMEDIATE REPAIR BUT IS NOT RANGED AS A SPARE		INDICATES THAT TEST AND DIAGNOSTIC FACILITIES ARE REQUIRED AT FIELD LEVEL *
			INDICATES THAT TEST AND DIAGNOSTIC FACILITIES ARE REQUIRED AT INTERMEDIATE LEVEL *
			INDICATES THAT TEST AND DIAGNOSTIC FACILITIES ARE REQUIRED AT BASE LEVEL *
			INDICATES THAT A RE-USABLE PACKAGE IS TO BE PROVIDED FOR GENERAL USE
			INDICATES THAT A RE-USABLE PACKAGE IS TO BE PROVIDED FOR USE BETWEEN BASE AND CONTRACTORS
			INDICATES THAT A RE-USABLE PACKAGE IS TO BE PROVIDED FOR AN ASSEMBLY WHICH IS CARRIED AS AN OPERATORS SPARE WITH A MOBILE EQUIPMENT OR SYSTEM
			INDICATES THAT THE ITEM IS SCHEDULED FOR REPAIR BY CONTRACTORS
			INDICATES A NOMINATED WORKSHOP WITH ECHELON 2 CALIBRATION FACILITIES.
			INDICATES A NOMINATED WORKSHOP WITH ECHELON 3 CALIBRATION FACILITIES.
			INDICATES THAT SCREENING FACILITIES ARE REQUIRED AT FIELD LEVEL *
			SHelf LIfeD ITEM LIFE IN MONTHS TO BE INDICATED BY A FIGURE FOLLOWING THE SYMBOL
			LIfe USAge ITEM LIFE IN HOURS, ROUNDS FIRED, MILEAGE etc. TO BE INDICATED

KEY TO REPAIR CHART SYMBOLS

<p>* THESE SYMBOLS MAY BE ADDITIONALLY ANNOTATED TO INDICATE THE TYPE OF TEST FACILITY REQUIRED THUS :-</p>	<ol style="list-style-type: none"> <li>1. GENERAL PURPOSE TEST EQUIPMENT</li> <li>2. BUILT IN TEST EQUIPMENT</li> <li>3. SPECIAL TO TYPE TEST EQUIPMENT</li> <li>4. SPECIAL TO SYSTEM TEST EQUIPMENT</li> <li>5. AUTOMATIC TEST EQUIPMENT</li> </ol>
<p><b>TEST FACILITIES</b></p>	

Fig 1 Key to Repair Chart Symbols



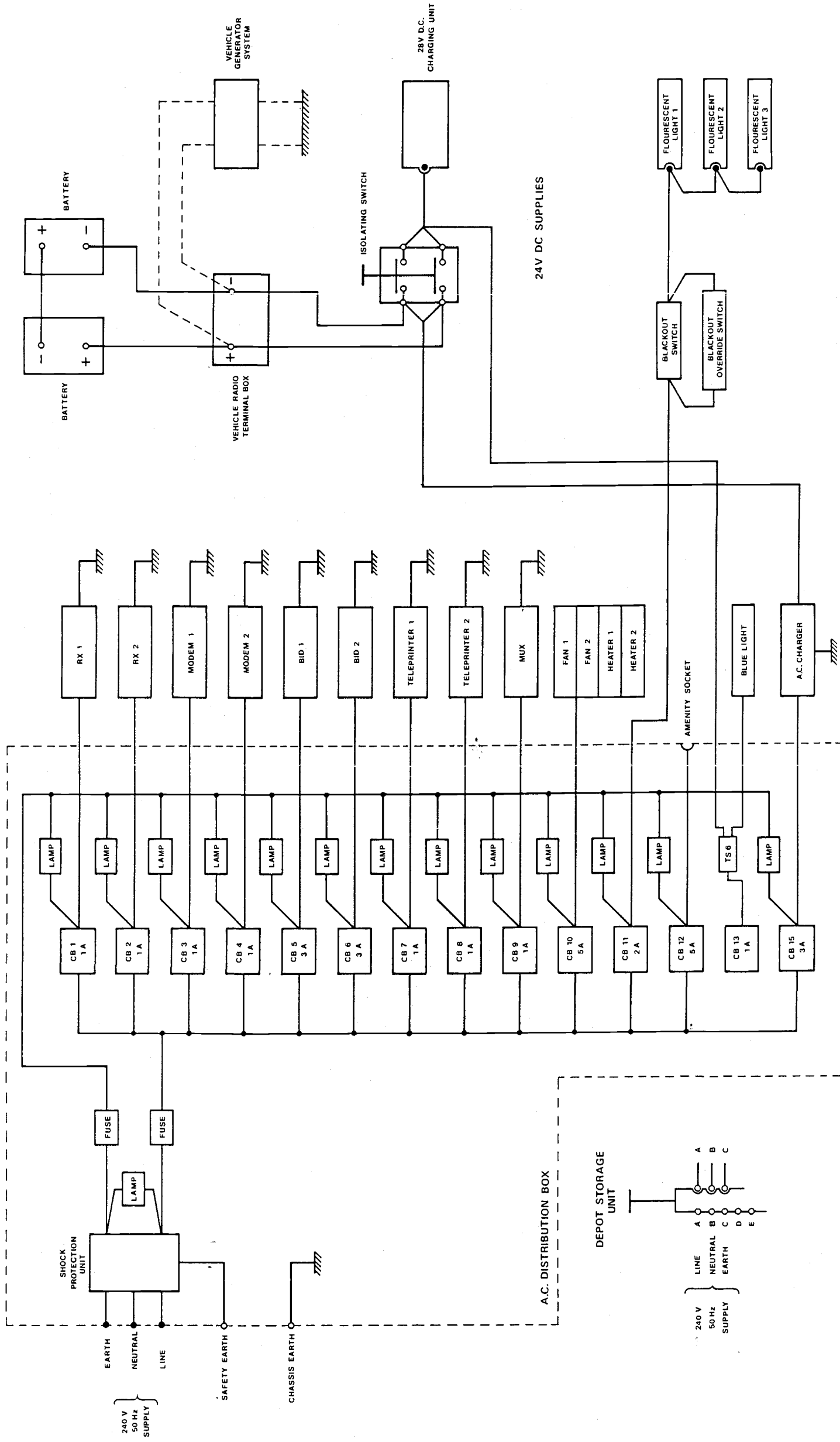


Fig 2 AC Circuit Distribution Diagram



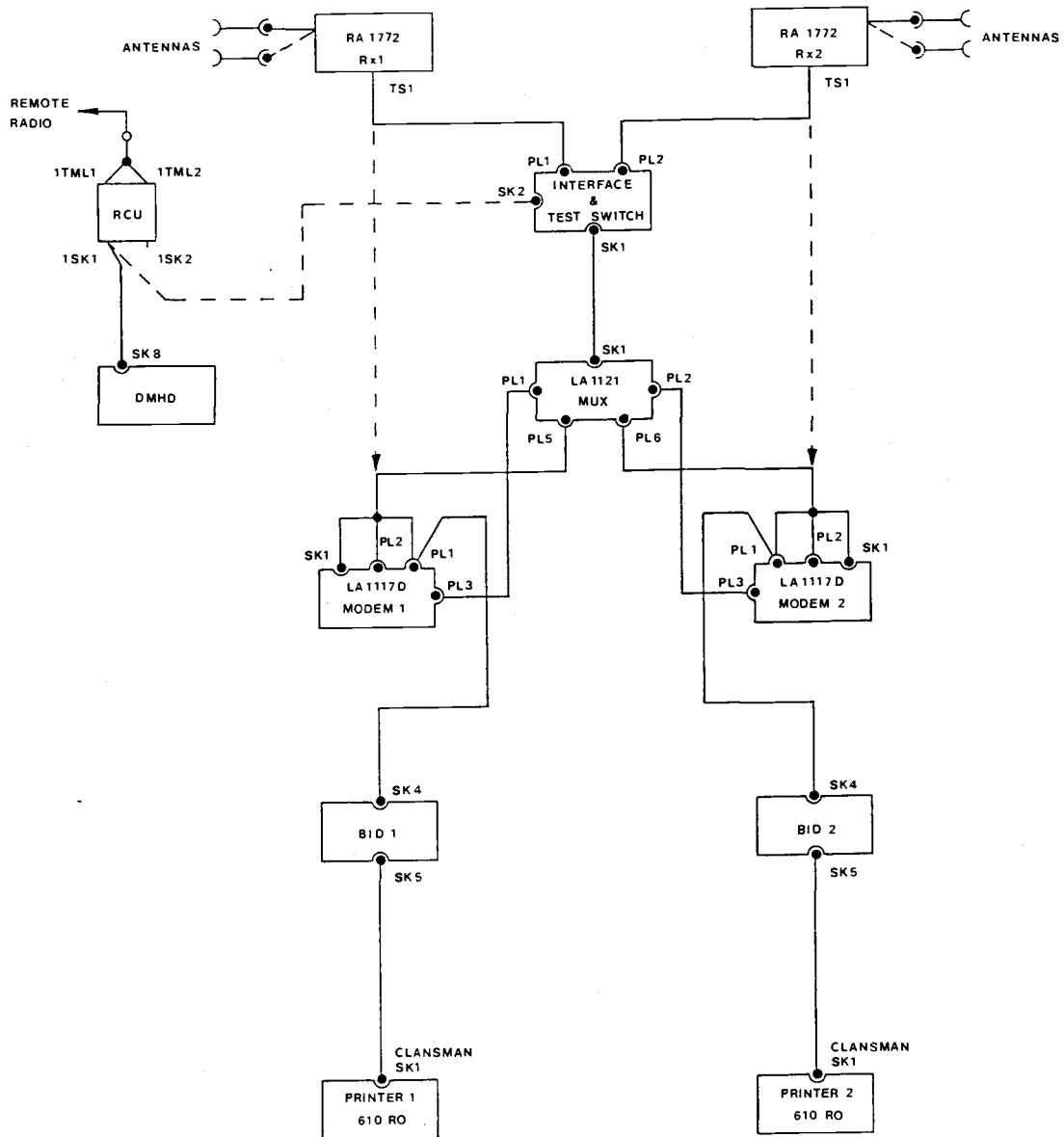
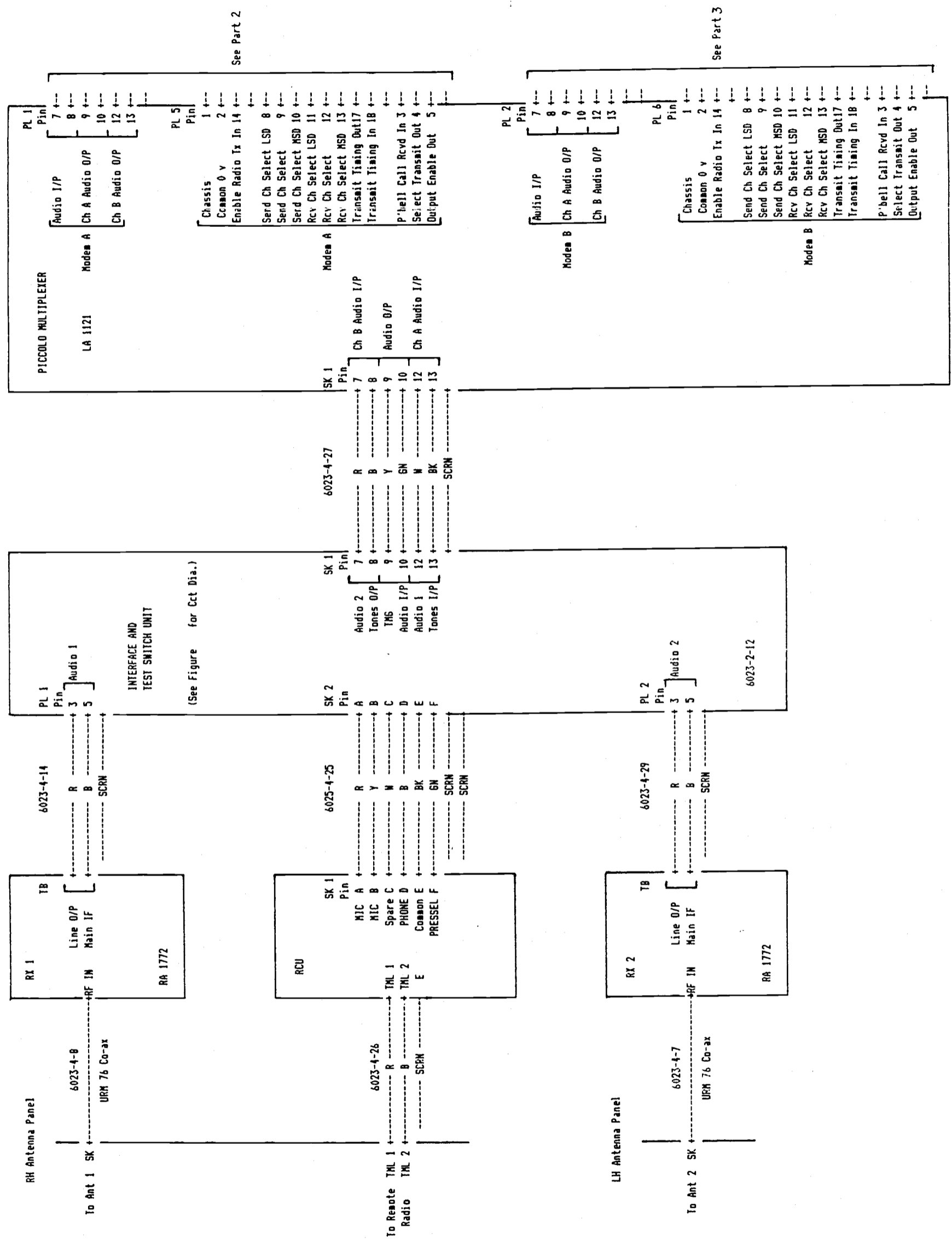


Fig 3 Signal Distribution Diagram





See Part 2

See Part 3

Fig 4 Signal Wiring Part 1





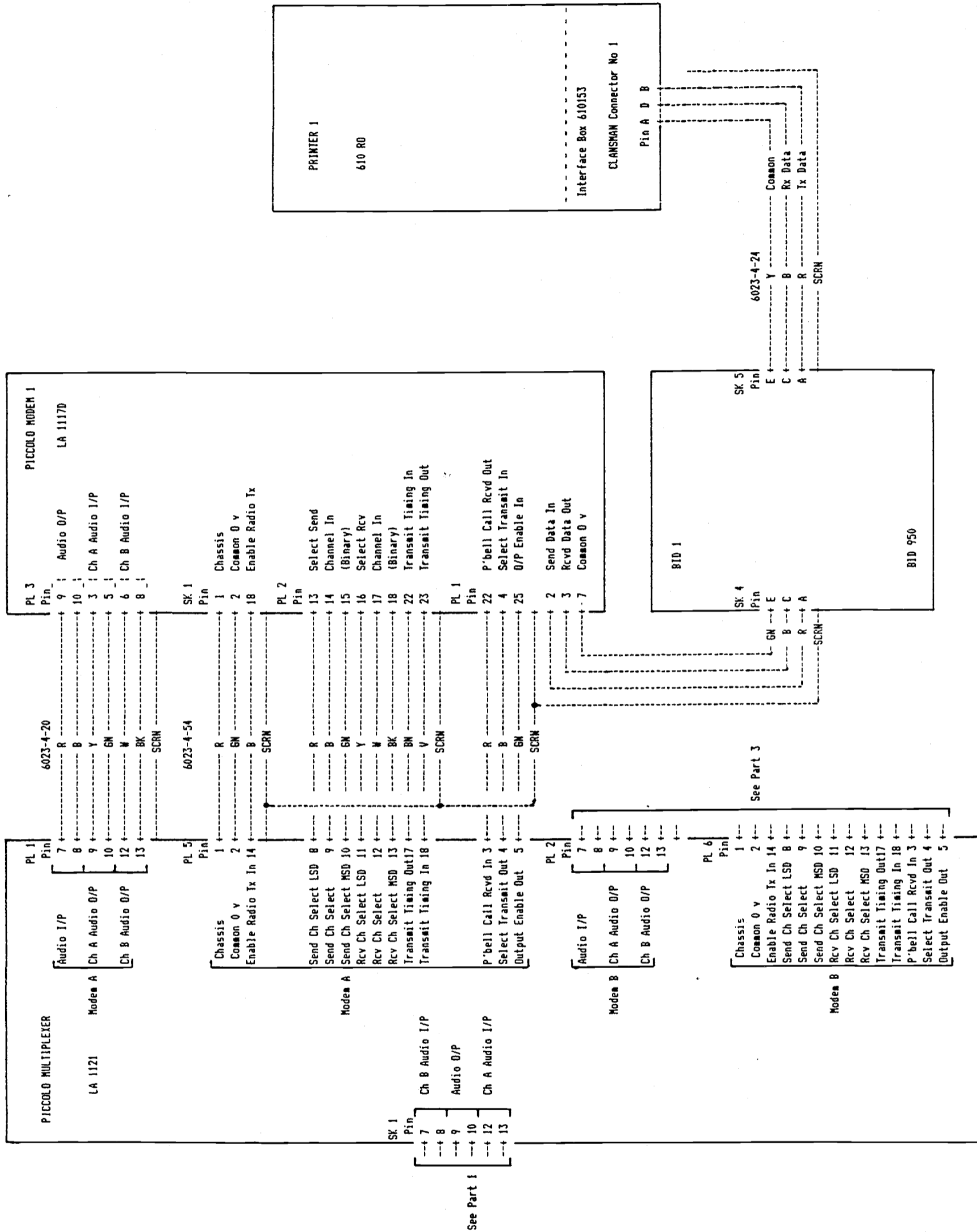


Fig 5 Signal Wiring Part 2



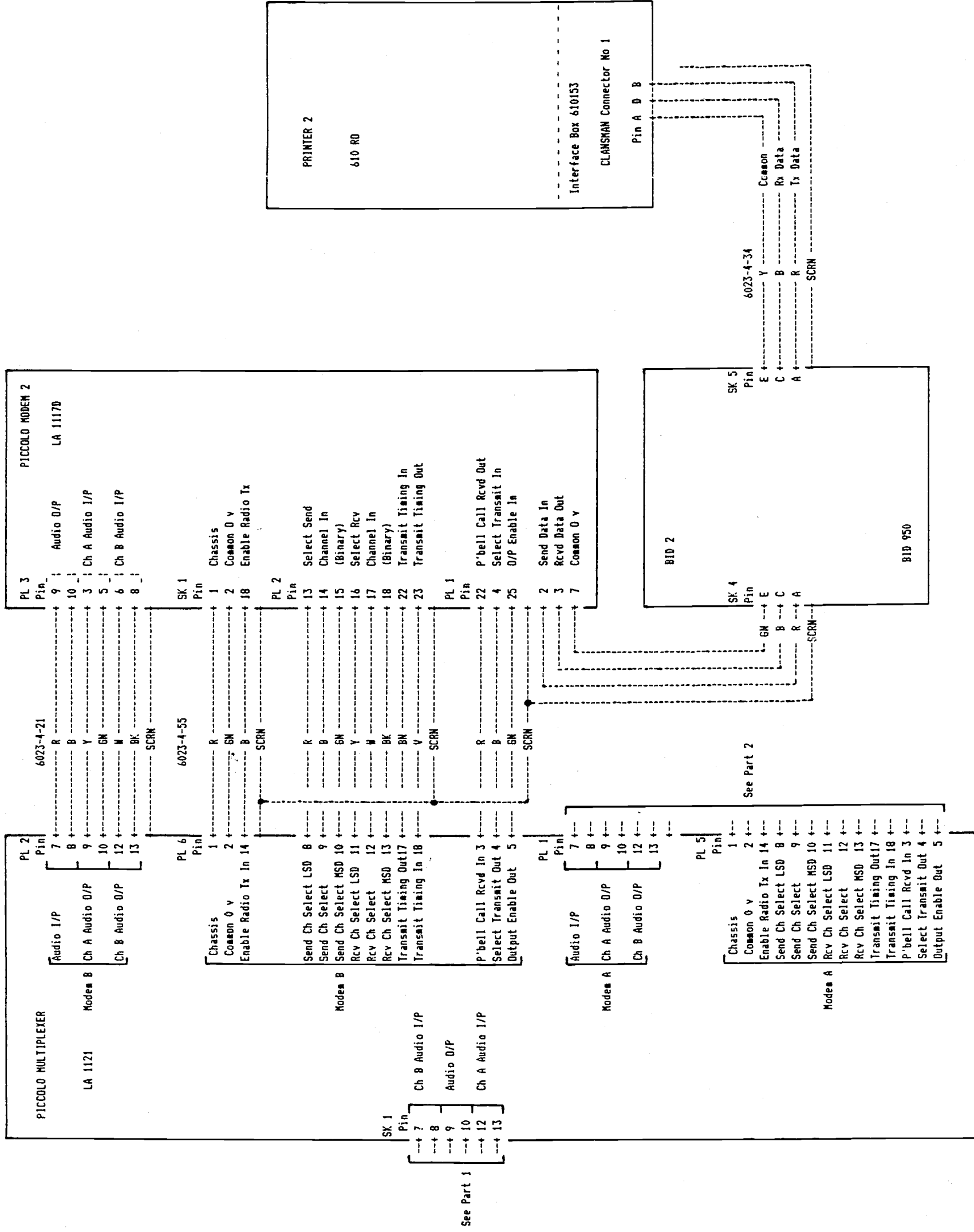


Fig 6 Signal Wiring Part 3



10 Inspect for component defects arising from wear, physical damage or deterioration such as badly worn, corroded or damaged metal surfaces, broken or deformed connectors and cracked, chipped or discoloured insulators.

11 Ensure all wiring is free from cuts and sign of wear, and all cable loom strapping is intact.

12 Unscrew the back shell of plug and/or socket connectors where applicable and ensure that wiring is secure and insulating sleeves are serviceable and correctly positioned.

Note ...

As all internal cables are screened to comply with Electro-Magnetic Compatibility (EMC) considerations, it is important to maintain the screening arrangement as supplied (see cable tables for details).

13 Electrical inspection of a suspect unit comprises point to point continuity or resistance checks with the power supply disconnected or switched off, following by input and output voltage checks using a multimeter, with the power applied.

#### WIRING FAILURES

14 Each end of every cable is fitted with an identification sleeve to indicate the terminal destination of the end.

15 For information on termination and retermination of cables, refer to Comms Inst EMER WKSP F100.

16 Table 1 shows the wiring connections and the signals they carry in the Forward Detachments Land Rover.



TABLE 1 WIRING CONNECTIONS AND SIGNALS

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-1	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-11	3 Pin	Power SK Rx1	BN - L	Mains (L)	
				B - TS.3-15			B - N	Mains (N)	
				G/Y - TS.4-15			G/Y - E	Mains (E)	
				Braid-TS.4-15			Braid - Not Connected		
6023-4-2	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-10	3 Pin	Power SK Rx2	BN - L	Mains (L)	
				B - TS.3-14			B - N	Mains (N)	
				G/Y - TS.4-14			G/Y - E	Mains (E)	
				Braid-TS.4-14			Braid - Not Connected		
6023-4-3	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-2	13 A Mains Switched	Heater SK	BN - L	Mains (L)	
				B - TS.3-23			B - N	Mains (N)	
				G/Y - TS.4-23			G/Y - E	Mains (E)	
				Braid-TS.4-24			Braid - Not Connected		
							Fitting 2997 ALM		
6023-4-4	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-1	Open Ended	TMLS Door Switch	BN - L	Mains (L)	
				B - TS.3-24			B - N	Mains (N)	
				G/Y - TS.4-24			G/Y - E	Mains (E)	
				Braid-TS.4-24			Braid - Not Connected		
6023-4-5	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-2	Open Ended	TMLS Fan 2	BN - L	Mains (L)	
				B - TS.3-23			B - N	Mains (N)	
				G/Y - TS.4-24			G/Y - E	Mains (E)	
				Braid-TS.4-21			Braid - Not Connected		

(continued)





TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-6	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-2	Open Ended	TMLS Fan 1	BN - L	Mains (L) Mains (N) Mains (E)	
				B - TS.3-23			B - N		
				G/Y - TS.3-23			G/Y - E		
				Braid-TS.4-22			Braid - Not Connected		
6023-4-7	CO-AX M76	BNC Connector Elbow 31GB- 0654-6(314)	Ant-Coax Panel SK L.H.	Inner -	BNC Connector Straight 31GB- 0555-6(314)	Rx2 SK	Inner -	RF Conductor Outer - Scrn	
				Outer - Scrn			Outer - Scrn		
6023-4-8	CO-AX M76	BNC Elbow 31GB-0654- 6(314)	Ant-Coax Panel SK R.H.	Inner -	BNC Straight 31GB-0555- 6(314)	Rx1 SK	Inner -	RF Conductor Outer - Scrn	
				Outer - Scrn			Outer - Scrn		
6023-4-9	3 Core Screen	3 pin Socket MS 3106E 14S73S	IPL 1 SK	BN - A	Open Ended	TMLS Door Switch	BN - L	Mains (L) Mains (N) Mains (E)	
				B - B			B - N		
				G/Y - C			G/Y - E		
6023-4-10	3 Core Screen	3 pin Plug with Cable Clamp MS 3106E 14S73P	IPL 2 PL	BN - A	3 pin Socket with Cable Clamp MS 3106E 14S73S	IPL 3 SK	BN - A	Mains (L) Mains (N) Mains (E)	
				B - B			B - B		
				G/Y - C			G/Y - C		
6023-4-11	CO-AX M76	BNC Straight 31GB-0555- 6(314)	Ant. Coax Panel SK	Inner -	Open Ended	Antenna TMLS Pan	Coax Outlet	RF	
				Outer - Scrn			Outer - Scrn		
6023-4-12	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-7	Free Socket with Grounding Ring PTG55A- 10-6SB	PL1 BID 1	BN - F	Mains (L) Mains (N) Mains (E)	
				B - TS.3-18			B - E		
				G/Y - TS.4-18			G/Y - A		
				Braid-TS.4-18			Braid - Not Connected		

(continued)



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-13	3 Core Screen	Open Ended	TLMS AC Dist Box	BN - TS.5-6 B - TS.3-19 G/Y - TS.4-19 Braid-TS.4-19	Free Socket with Grounding Ring 10-6SB	PL1 BID 2	BN - F B - E G/Y - A Braid - Not Connected	Mains (L) Mains (N) Mains (E)	
6023-4-14	Multi- Core 16/0.2	Open Ended	TMLS Rx1	R - Line O/P B - Main IF Braid - Not Connected	D Type 15 way DAM 15S	PL1 Interface	R - 3 B - 5 Braid - Shell	Audio 1 Audio 1	
6023-4-15	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-8 B - TS.3-17 G/Y - TS.4-17 Braid-TS.4-17	Mains Connector P587	PL12 Modem 2	BN - L B - N G/Y - E Braid - Not Connected	Mains (L) Mains (N) Mains (E)	
6023-4-16	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-9 B - TS.3-16 G/Y - TS.4-16 Braid-TS.4-16	Mains Connector P587	PL12 Modem 1	BN - L B - N G/Y - E Braid - Not Connected	Mains (L) Mains (N) Mains (E)	
6023-4-17	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-3 B - TS.3-22 G/Y - TS.4-22 Braid-TS.4-22	Mains Connector P587	PL12 Mux	BN - L B - N G/Y - E Braid - Not Connected	Mains (L) Mains (N) Mains (E)	
6023-4-18	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-5 B - TS.3-20 G/Y - TS.4-20 Braid-TS.4-20	Mains Connector P587	Mains PL Printer 1	BN - L B - N G/Y - E Braid - Not Connected	Mains (L) Mains (N) Mains (E)	

(continued)



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS		
6023-4-19	3 Core Screen	Open Ended	TMLS AC Dist Box	BN - TS.5-4	Mains	Mains PL	BN - L	Mains (L)			
				B - TS.3-21			Connector	Printer 2	B - N	Mains (N)	
				G/Y - TS.4-21			P587		G/Y - E	Mains (E)	
				Braid-TS.4-21			Braid - Not Connected				
6023-4-20	Multi- Core 16/0.2	D Type 15 way DAM 15S	PL1 Mux	R - 7	D Type 15 way DAM 15S	PL3 Modem 1	R - 9	TMG Audio 1 Input			
				B - 8			B - 10	"			
				G - 9			G - 3	Audio A Tone O/P CH 1			
				Y - 10			Y - 5	"			
				W - 12			W - 6	Audio A Tone O/P CH 2			
				BK - 13			BK - 8	"			
	Braid - Shell		Braid - Shell								
6023-4-21	Multi- Core 16/0.2	D Type 15 way DAM 15S	PL2 Mux	R - 7	D Type 15 way DAM 15S	PL3 Modem 2	R - 9	TMG Audio 2 Input			
				B - 8			B - 10	"			
				G - 9			G - 3	Audio B Tone O/P CH 1			
				Y - 10			Y - 5	"			
				W - 12			W - 6	Audio B Tone O/P CH 2			
				BK - 13			BK - 8	"			
	Braid - Shell		Braid - Shell								
6023-4-22								Not Used			
6023-4-23								Not Used			
6023-4-24	Multi- Core 16/0.2	Free Socket with Grounding Ring C2093- 10-07FF0	Line SK Printer 1	R - B	Free Plug with Grounding Ring C2093- 12-10MNO	SK5 BID 1	R - A	Tx Data			
				B - D			B - C	Rx Data			
				Y - A			Y - E	Common			
				Braid - Not Connected			Braid - Shell				
								(continued)			



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-25	6 Core	Free Plug	Radio SK DMHD	R - A	Free Plug	SK1 RCU	R - A	DMHD Tx	
	Double	Straight Outlet		Y - B	Straight Outlet		Y - B	DMHD Tx	
	Screen	C2093-10-07-MFO		W - C	C2093-10-07-MFO		W - C	Spare	
	Cable			B - D			B - D	DMHD Rx	
	NC/79301/2			BK - E			BK - E	Common	
				G - F			G - F	DMHD Tx Pulse	
6023-4-26	2 Core	Open Ended	TMLS RCU	R - Positive	Open Ended	TMLS R.H.	R - Positive		
	Double			B - Negative		Outlet Panel	B - Negative		
	Screen			Inner & Outer			Inner & Outer		
	Cable			Braid - Earth			Braid - Not		
	NC/79301/1			Tag			Connected		
6023-4-27	6 Core	D Type 15 way	SK1 Mux	R - 7	D Type 15 way	SK1 Interface	R - 7	Audio 2 Tone I/P	
	16/0.2	Plug DAM 15P		B - 8	Plug DAM 15P		B - 8	"	
				Y - 9			Y - 9	TMG Audio O/P	
				G - 10			G - 10	"	
				W - 12			W - 12	Audio 1 Tone I/P	
				BK - 13			BK - 13	"	
6023-4-28	12 Core	D Type 25 way	Branch 1(End A)	Y - 6	D Type 15 way	Branch 1(End B)	Y - 9	TMG Audio O/P	
	7/0.2	Socket	PL3	G - 7	Socket DAM 15S	SK1	G - 10	"	
		DBM 25S		W - 8			W - 12	Audio 1 Tone I/P	
				BK - 9			BK - 13	"	
				R - 10			R - 7	Audio 2 Tone I/P	
				B - 11			B - 8	"	
			Braid - Shell			Braid - Not			
						Connected			

(continued)





TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-28 (continued)	12 Core	D Type 25 way	Branch 2(End A)	BN - 2	D Type 15 way	Branch 2(End C)	BN - 3	Audio 1	
	17/0.2	Socket DBM 25S	PL3	V - 3	Plug DAM 15P	PL1	V - 5	Audio 1	
6023-4-29	2 Core 16/0.2	Open Ended	TMLS Rx2	0 - 4	D Type 15 way	Branch 3(End D)	0 - 3	Audio 2	
				P - 5	Plug DAM 15P	PL2	P - 5	Audio 2	
6023-4-30	3 Core Screen	Open Ended	TMLS AC Dist Box	R - Line 0/P	D Type 15 way	PL2 Interface	R - 3	Audio 2	
				B - Main IF	Socket		B - 5	Audio 2	
				Braid - Not Connected	DAM 15S		Braid - Shell		
				TS.5-12	Open Ended	TMLS AC	BN - L	Mains (L)	
TS.3-13	Open Ended	Charger	B - N	Mains (N)					
TS.4-13	Open Ended		G/Y - E	Mains (E)					
Braid-TS.4-13	Open Ended		Braid - Not Connected						
6023-4-31	2 Core 16/0.2	Open Ended	TMLS AC Dist Box	R - TS.6-2	Open Ended	TMLS Isolator	R - TML 3	+VE	
				B - TS.6-3	Open Ended	Switch	B - TML 4	-VE	
				BK/Braid-TS.6-4	Open Ended		BK/Braid-Not Connected	Earth	
6023-4-32	2 Core 16/0.2	Open Ended	TMLS AC Dist Box	R - TS.6-1	Open Ended	TMLS ELP	R - TML 1	+VE	
				B - TS.6-6	Open Ended		B - TML 2	-VE	
				BK/Braid-TS.6-4	Open Ended		BK/Braid-Not Connected	Earth	
6023-4-33	2 Core 24/0.2	Open Ended	ISO Switch TMLS	BN - ISO	Free Plug	DCCU Input	BN - A		
				B - ISO	Switch+ with Grounding		B - B		
				Switch-	Ring C2093-				
				Switch-	10-02-FC0				(continued)



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-34	4 Core 16/0.2	Free Socket with Grounding Ring C2093- 10-07-FF0	Line SK Printer 2	R - B B - D Y - A Braid - Not Connected	Free Plug with Grounding Ring C2093- 12-10-MN0	SK5 BID 2	R - A B - C Y - E Braid - Shell	Tx Data Rx Data Common	
6023-4-35	Unipren 70	Terminal KRD25-10	Isolator SW +VE IN	-	Terminal KRD25-8	Radio TML +VE	-		
6023-4-36	Unipren 70	Terminal KRD25-10	Isolator SW -VE IN	-	Terminal KRD25-8	Radio TML -VE	-		
6023-4-37	Unipren 70	Terminal KRD25-8	Radio TML +VE	-	Terminal Side Entry M8	Battery TML +VE	-		
6023-4-38	Unipren 70	Terminal KRD25-8	Radio TML -VE	-	Terminal Side Entry M8	Battery TML -VE	-		
6023-4-39	Unipren 70	Battery Terminal Positive CTB 242W10	Battery Link	P	Battery Terminal Negative CTB 343W10		N		
6023-4-40	Braid Fite 16	Terminal KRD25-6	AC Box to Main Eqpt Frame	-	Terminal KRD25-6		-	Earth Braid	
6023-4-41	Braid Fite 11	Terminal KRD16-6	Main Eqpt Frame to Seat Frame	-	Terminal KRD16-6		-	Earth Braid	
6023-4-42	Braid Fite 11	Terminal KRD16-6	Roof to Side	-	Terminal KRD16-6		-	Earth Braid	

(continued)



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-43	Braid Fite 11	Terminal KRD16-6	Seat Frame to Heater Base	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-44	Braid Fite 16	Terminal KRD25-6	Eqpt Frame to BID Frame	-	Terminal KRD25-10	-	-	Earth Braid	
6023-4-45	Braid Fite 11	Terminal KRD16-6	BID Base to BID Frame	-	Terminal KRD16-10	-	-	Earth Braid	
6023-4-46	Braid Fite 11	Terminal KRD16-5	Modem 1 to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-47	Braid Fite 11	Terminal KRD16-5	Rx 1 to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-48	Braid Fite 11	Terminal KRD16-5	Rx 2 to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-49	Braid Fite 11	Terminal KRD16-5	Mux to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-50	Braid Fite 11	Terminal KRD16-5	Modem 2 to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-51	Braid Fite 11	Terminal KRD16-5	BID to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-52	Braid Fite 11	Terminal KRD16-5	Printer to Frame	-	Terminal KRD16-6	-	-	Earth Braid	
6023-4-53	2 Core 24/0.2	Terminals 18 RA-38	ISO Switch TMLS	BN - +VE B - -VE	Terminals A2543R	AC Charger	BN - +VE B - -VE		

(continued)



TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS
6023-4-54	3 Core	D Type 25 way	Branch 1(End A)	R - 1	D Type 25 way	Branch 1(End B)	R - 1		Chassis
	7/0.2	Socket DB-25S-A197	PL5 Mux	G - 2 B - 14 Braid - Shell	Plug DB-25P-K87	SK1 Modem 1	G - 2 B - 8 Braid - Shell		OV From Mux Enable Radio Tx
8 Core	7/0.2		Branch 2(End A)	R - 8	D Type 37 way	Branch 2(End C)	R - 13		LS
			PL5 Mux	B - 9 G - 10 Y - 11 W - 12 BK - 13 BN - 17 V - 18 Braid - Shell	Socket DC-37S-A197	PL2 Modem 1	B - 14 G - 15 Y - 16 W - 17 BK - 18 BN - 22 V - 23 Braid - Shell		Send Modem CH Select MS LS Receive Modem CH Sel MS Tx Timing Out Synchro Tx Timing In Tx 10 Hz
3 Core	7/0.2		Branch 3(End A)	R - 3	D Type 25 way	Branch 3(End D)	R - 22		Picabell Call Rec'd
			PL5 Mux	B - 4 G - 5 Braid - Shell	Socket DB-25S-A197	PL1 Modem 1	B - 4 G - 25 Braid - Shell		Select Tx O/P Enable
3 Core	7/0.2	D Type 25 way	Branch 4(End D)	R - 2	Free Plug	Branch 4(End E)	R - A		Send Data In
			Socket DB-25S-A197	B - 3 G - 7 Braid - Shell	with Grounding Ring C2093-12-10MNO	SK4 BID 1	B - C G - E Braid - Shell		Rx Data Out OV Line

(continued)





TABLE 1 WIRING CONNECTIONS AND SIGNALS (continued)

CABLE ASSEMBLY DRAWING NO.	CABLE	CONNECTOR	IDENT	PIN OUT	CONNECTOR	IDENT	PIN OUT	SIGNAL	REMARKS	
6023-4-55	3 Core 7/0.2	D Type 25 way Socket DB-25S-A197	Branch 1(End A) PL6 Mux	R - 1	D Type 25 way Plug DB-25P-K87	Branch 1(End B) SK1 Modem 2	R - 1	Chassis OV		
				B - 2			B - 2			
	8 Core 7/0.2			Branch 2(End A) PL6 Mux	G - 14	D Type 37 way Socket DC-37S-A197	Branch 2(End C) PL2 Modem 2	G - 18	LS Send Modem CH Select MS LS Receive Modem CH Sel MS Tx Timing Out Synchron Tx Timing In Tx 10 Hz	
					Braid -			Braid -		
					Shell			Shell		
					R - 8			R - 13		
					B - 9			B - 14		
					G - 10			G - 15		
					Y - 11			Y - 16		
					W - 12			W - 17		
BK - 13	BK - 18									
6023-4-56	3 Core 7/0.2	D Type 25 way Socket DB-25S-A197	Branch 3(End A) PL6 Mux	R - 3	D Type 25 way Socket DB-25S-A197	Branch 3(End D) PL1 Modem 2	R - 22	Picabell Call Rec'd Select Tx O/P Enable		
				B - 4			B - 4			
	3 Core 7/0.2			Branch 4(End D) PL1 Modem 2	G - 5	Free Plug with Grounding Ring C2093-12-10MNO	Branch 4(End E) SK4 BID 2	G - 25	Send Data In Rx Data Out OV Line	
					Braid -			Braid -		
					Shell			Shell		
					R - 2			R - A		
					B - 3			B - C		
					G - 7			G - E		
					Braid -			Braid -		
					Shell			Shell		
3 Core Screen	3 Pin Plug with Cable Clamp MS 3106E 14S73P	ILP 1		BN - A	3 Pin Socket with Cable Clamp MS 3106E 14S73S	ILP 2	BN - A	Mains (L) Mains (N) Mains (E)		
				B - B			B - B			
				G/Y - C			G/Y - C			



INSTRUCTIONS FOR THE REPLACEMENT OF INDIVIDUAL EQUIPMENTS.

WARNING ...

LETHAL VOLTAGE. BEFORE ATTEMPTING TO DISMOUNT ANY EQUIPMENTS ENSURE THAT ALL AC POWER HAS BEEN SWITCHED OFF AND THAT THE EQUIPMENT POWER INPUT CABLES HAVE BEEN DISCONNECTED.

Battery, Secondary, Alkaline 24 V 4 AH

17 The procedure to remove and replace the Battery, Secondary, Alkaline 24 V 4 AH is as follows.

- 17.1 Remove the positive and negative battery leads.
- 17.2 Release the battery retaining clip.
- 17.3 Remove and replace unit.
- 17.4 Secure the battery with the battery retaining clip.
- 17.5 Reconnect the positive and negative battery leads.

Battery, Type 63, Lead Acid 12 V 44 AH

18 The procedure to remove and replace the Battery, Type 63, Lead Acid 12 V 44 AH is as follows:

- 18.1 Lift flap to enable access to external battery compartment.
- 18.2 Disconnect the positive and negative battery leads.
- 18.3 Release the battery retaining clip.
- 18.4 Remove and replace unit.
- 18.5 Secure the battery with the battery retaining clip.
- 18.6 Reconnect the positive and negative battery leads.
- 18.7 Close and secure the battery compartment flap.

Battery Charger (La Marche)

19 TBA

Charger Battery, DC, 28 V

20 TBA

DMHD

21 The procedure to remove and replace a DMHD unit is as follows:

- 21.1 Switch off power to unit (ON/OFF switch at back of unit).

21.2 Remove power connection from unit - located on the right hand side of unit. Remove data connections (Local and Radio) from left hand side of unit.

21.3 Loosen and remove the two clips holding the unit to the mounting frame.

21.4 Replace unit with known operational unit and secure to mounting frames with clips.

21.5 Replace connections to unit and switch ON. Ensure unit becomes operational.

#### Teleprinter Electronic UK/TGC 402

22 When replacing a Teleprinter Electronic UK/TGC 402, modification to the replacement printer is required. The following procedure details the steps necessary for this modification and the items needed.

#### WARNING ...

ELECTRIC SHOCK. TO AVOID ELECTRIC SHOCK, DISCONNECT THE EQUIPMENT FROM THE AC/DC POWER INPUT SOURCE BEFORE COMMENCING MODIFICATION OPERATIONS ON THE TELEPRINTER.

#### CAUTION ...

STATIC HAZARD. Anti-static precautions should be observed when handling Printed Circuit Boards and Integrated Circuits.

TABLE 2 PARTS FOR MODIFICATION OF TELEPRINTER ELECTRONIC UK/TGC 402

ITEM	QTY
Cover for Receive Only Printer	1
Integrated Circuit PS PB, MJ2841, Y8513A	2
Tie Cable Base (self adhesive) (supplied by SD)	2
Tie Cable (small) (supplied by SD)	2
Cover Label Strip 'Trend 610'	1
Self Adhesive Foam Strip (cut to length as per cover removed)	3 Lengths

- 22.1 Position Teleprinter Electronic UK/TGC 402 over edge of bench to gain access to two of the screws securing Printer to Base Board and remove screws.
- 22.2 Reposition Teleprinter Electronic UK/TGC 402 and remove remaining two screws securing Printer to Base Board.
- 22.3 Disconnect Ribbon Cable (locked in place) and three Earth Tags (Bayonet Connectors) at rear of Keyboard Module.
- 22.4 Remove Keyboard Module and Base Board.
- 22.5 Open Printer covers, remove Paper Roll then close covers.
- 22.6 Remove four socket head screws from corners of Printer and lift Printer cover clear of mechanism.
- 22.7 Insert the two Integrated Circuits into the Interface and Needle Drive Board at positions marked '2' and '3'. Ensure that the Integrated Circuits are aligned with their indentations pointing upwards.
- 22.8 The printer head should be moved to the left for easy access and the Ribbon cable and plug should be drawn back into the printer, folded back on itself and secured to the base of the printer using the clip already in position holding the ribbon cable.
- 22.9 The two earth leads on the right hand side of the printer should be drawn back into the printer and neatly secured to the base using a self adhesive cable tie base and a cable tie.
- 22.10 The printer head should be moved to the right for easy access and the earth cable on the left hand side of the printer should be drawn inside and secured as per 22.9 above.
- 22.11 The settings on three groups of d.i.l. switches should be made as listed in Table 3.

TABLE 3 DIL SWITCH SETTINGS

SWITCH	POSITION
A  (Located at the centre of print controller board on the right hand side - facing inwards)	ALL OFF

(continued)

TABLE 3 DIL SWITCH SETTINGS (continued)

SWITCH	POSITION
B  (Located at the centre of print controller board on the right hand side - facing inwards)	1 ON
	2 OFF
	3 ON
	4 OFF
	5 ON
	6 OFF
	7 OFF
	8 OFF
	9 OFF
	10 ON
	11 OFF
	12 ON
LOGIC BOARD SWITCH  (Located at the centre of print controller board on the right hand side - facing inwards)	1 ON
	2 OFF
	3 OFF
	4 ON
	5 OFF
	6 OFF
	7 ON
	8 N/A
	9 N/A
	10 N/A

- 22.12 After removing printer cover place upside down on bench.
- 22.13 Locate two spring clips holding access flap. Remove holding screws and lift out access flap. Complete with platen cover (clear perspex).
- 22.14 Remove earthing cable and associated locking screws.
- 22.15 Locate and remove six self tapping screws and one M3 nut and bolt securing paper roll cover.
- 22.16 Remove paper roll cover.
- 22.17 Refit to modified printer cover supplied:
- 22.17.1 Paper roll cover.
  - 22.17.2 Perspex access flap.
  - 22.17.3 Earthing cable.
- 22.18 Using foam strip supplied, fit pieces to new cover as appropriate. (Refer to old cover).

22.19 Replace Printer Cover and Paper Roll.

Note ...

The installation may be tested by sending a test message to the Printer and checking the printout.

23 The procedure to remove and replace a Teleprinter Electronic UK/TGC 402 is as follows:

23.1 Undo the front clamps on the Teleprinter flap and drop down.

23.2 Pull the unit forward slightly and release cables at rear.

23.3 Pull unit forward completely.

23.4 Release unit from base plate (four screws on underside of base plate visible through clearance holes).

23.5 Replace unit with known operational unit. Replace base on Teleprinter and secure with four screws through clearance holes.

23.6 Relocate unit on frame.

23.7 Reconnect rear panel cables.

23.8 Reposition unit fully in frame.

23.9 Replace flap on front of Teleprinter and secure with clamps.

#### Equipment BID 950

24 The procedure to remove and replace an Equipment BID 950 is as follows:

24.1 Ensure the Teleprinter Electronic UK/TGC 402 is fully secured in its normal position.

24.2 Open the front cover of the BID equipment frame. Remove the four screws securing the front panel of the BID.

24.3 Release the Teleprinter Electronic UK/TGC 402 above and slide it forwards sufficiently to allow access to rear of the BID 950.

24.4 Remove cables from rear panel.

24.5 Reposition Teleprinter Electronic UK/TGC 402.

24.6 Withdraw the Equipment BID 950 from the frame and replace.

24.7 Reposition the Equipment BID 950 in the frame.

24.8 Release the Teleprinter Electronic UK/TGC 402 above and slide it forwards sufficiently to allow access to rear of BID 950.

24.9 Reconnect cables on rear panel.

- 24.10 Reposition the Teleprinter Electronic UK/TGC 402.
- 24.11 Secure the Equipment BID 950 front panel with four screws.
- 24.12 Close the front cover of the Equipment BID 950 frame.

#### Interface and Test Unit Assembly

25 The procedure to remove and replace the Interface and Test Unit Assembly is as follows:

- 25.1 Remove the four screws securing the front panel.
- 25.2 Pull unit forward slightly and remove cables from the rear panel.
- 25.3 Remove and replace unit.
- 25.4 Locate unit in frame.
- 25.5 Reconnect rear panel cables.
- 25.6 Locate unit fully in frame and secure with four screws.

#### Isolating Switch

26 The procedure to remove and replace an Isolating Switch is as follows:

- 26.1 Release the four battery cables on the front of the unit.
- 26.2 Remove the two control leads.
- 26.3 Remove the three screws securing the unit.
- 26.4 Remove and replace unit.
- 26.5 Secure unit with three screws.
- 26.6 Reconnect the two control leads.
- 26.7 Reconnect the four battery cables.

#### Piccolo Modem LA 1117D

27 The procedure to remove and replace a Modem LA 1117D is as follows:

- 27.1 Switch unit off and remove mains power.
- 27.2 Remove cables from rear of unit.
- 27.3 Remove the four bolts securing the unit front panel.
- 27.4 Remove and replace unit.
- 27.5 Secure unit at front panel with four screws.



27.6 Reconnect rear panel cables.

27.7 Reconnect mains power and switch unit on. Ensure power is available to unit.

Piccolo Multiplexer LA 1121

28 The procedure to remove and replace a Piccolo Multiplexer LA 1121 is as follows:

28.1 Switch unit off and remove mains power.

28.2 Remove cables from rear of unit.

28.3 Remove the four bolts securing the unit front panel.

28.4 Remove and replace unit.

28.5 Secure unit at front panel with four screws.

28.6 Reconnect rear panel cables.

28.7 Reconnect mains power and switch unit on. Ensure power is available to unit.

Radio Receiver UK/TRR 628

29 The procedure to remove and replace a Radio Receiver UK/TRR 628 is as follows:

29.1 Switch unit off and remove mains power.

29.2 Remove cables from rear of unit.

29.3 Remove the four bolts securing the unit front panel.

29.4 Remove and replace unit.

29.5 Secure unit at front panel with four screws.

29.6 Reconnect rear panel cables.

29.7 Reconnect mains power and switch unit on. Ensure power is available to unit.

Remote Combining Unit

30 TBA

END



Chapter 5

SPARES LIST

Table	Page
1 Service Supply Items .....	1
2 Commercial Supply Items .....	1

1 The spares for the Forward Detachments Land Rover are held within the Makers Spares Pack (MSP) for the CPUCS system. The MSP reference is NSN 5999-99-750-5124.

2 Within the MSP, the spares relevant to this container are listed in the following tables.

TABLE 1 SERVICE SUPPLY ITEMS

ITEM	NSN
Connector BNC	5935-99-627-8769
Lid, Fuse Holder	5920-99-533-6883
Door Switch	Z32/5930-99-105-8259
Door Switch	Z32/5930-99-105-8260
Neon Indicator Red	6210-99-622-4922
Fixed Plug SQ Flange	5935-99-940-1666
Nut Gland Washer Set	Z1/5330-99-419-0476

TABLE 2 COMMERCIAL SUPPLY ITEMS

ITEM	PART NO	MANUFACTURER
Fan Assy	RSR0/261031	Air Screw Ltd
Connector BNC	31GB-0555-6(314)	Amphenol
Plug Free	C2093-12-10-MB0	Amphenol
Plug Free	C2093-12-10-MNO	Amphenol

(continued)

TABLE 2 COMMERCIAL SUPPLY ITEMS (continued)

ITEM	PART NO	MANUFACTURER
Socket Free	C2093-10-07-MFO	Amphenol
Fuse Holder Panel	L1302/B Size 1	Belling Lee
Heater	952 BR	Belling Lee
Neon Indicator Red	L1897/240/RED	Belling Lee
Terminal	L/1005/1/BLACK	Belling Lee
Terminal	L/1005/1/RED	Belling Lee
Junction Shell	DA 121 073-50	Cannon
Plug Free D	DAM 15P	Cannon
Plug Free D	DBM 25P	Cannon
Sliding Lock Assy	D 121073-23	Cannon
Sliding Lock Assy	DA 51220-1	Cannon
Sliding Lock Assy	DB 51221-1	Cannon
Socket	DAM 155	Cannon
Socket	DBM 255	Cannon
Socket Free D	DAM 15S	Cannon
Socket Free D	DBM 25S	Cannon
Mount Resilient	GBCSG2110TM10	Cementation
Cap	040-4020	Elma
Pointer	041-4120	Elma
Screw Stop	4124-21	Elma
Switch Rotary	04-1431	Elma
Washer	048-2100	Elma
Circuit Breaker 1 Amp	412-K14-N2 1A	ETA Ltd
Circuit Breaker 2 Amp	412-K14-N2 2A	ETA Ltd
Circuit Breaker 3 Amp	412-K14-N2 3A	ETA Ltd
Circuit Breaker 5 Amp	412-K14-N2 5A	ETA Ltd

(continued)

TABLE 2 COMMERCIAL SUPPLY ITEMS (continued)

ITEM	PART NO	MANUFACTURER
Transformer	VM 7465	Gardner
Keyswitch	51-237-025-D311	Highland
Keyswitch	51-238-125-k	Highland
Switch Push Button	51-133-025	Highland
Coax O/Let Panel	SD3/261055	H-Hivolt Ltd
Gasket	SD1/260968	H-Hivolt Ltd
Gasket Coax O/Let Panel	SB3/261054	H-Hivolt Ltd
Terminal Post O/Let	SD2/261081	H-Hivolt Ltd
Telescopic Slide	IMS 300/15DL	Imhoff
Shock Protection Unit	L13030-30A-500V	J A Crabtree
Socket O/Let 240 V 13 A	2958 MCO	MK
Socket Outlet	2997 ALM	MK
Backshell	NCB 8-5-10 02 ST/8	Newchapel
Backshell	NCB 8-5-10-02 ST/8P	Newchapel
Connector 3 P Min	BA77207	Racal
PCB Assy	6023-3-1	SD
PCB Assy I/Face	6023-3-1	SD
Thumb Nut	6023-6-18	SD
Backshell	05-1778-10-6	Thorn
Outlet	052058-12-10	Thorn
Plug 3P	MS 3106E 14573P	Thorn
Receptacle	05-0599-10-7SN	Thorn
Socket 3P	MS 3106E 14573S	Thorn
Socket Free	PTG55A-10-6SB	Thorn
Swing Bolt	WDS 611-201	WDS Tooling

END





[REDACTED]



[REDACTED]





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# C3I INSTALLATIONS IN RANGE ROVER

## COMPLETE EQUIPMENT SCHEDULE SERVICE EDITION SIMPLE EQUIPMENT

BY COMMAND OF THE DEFENCE COUNCIL

A handwritten signature in black ink, appearing to be 'Ramm'.

Ministry of Defence  
Issued by  
ARMY TECHNICAL SUPPORT AGENCY  
DIRECTORATE OF TECHNICAL SERVICES



AMENDMENT RECORD

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**COMPLETE EQUIPMENT SCHEDULE (SERVICE) INFORMATION**

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- 1 General Information - Not Issued
- 2 CES - C3I Installation in Range Rover
- 2-1 Installation of UK/PRC 320/351(2)/SCRA in Range Rover (SVIC 26/136) Z99/5820-99-861-9672
- 2-2 IKEE for UK/PRC 320 in Range Rover Z99/5820-99-623-9295
- 2-3 IKEE for UK/PRC 351/2 in Range Rover Z99/5820-99-663-6571
- 2-4 IKEE for 4 way L.T. box in Range Rover Z99/5820-99-663-6572
- 2-5 IKEE for SCB in Range Rover Z99/5820-99-391-0939
- 2-6 IKEE for SCRA in Range Rover Z99/5820-99-925-3081
- 3 Indexes Not Issued

**PREFACE**

**Sponsor: ES31e (1)**  
**Publication Agency: Army Technical Support Agency**  
**File Ref: 751/560/3**  
**Production Branch: AVCI 1**

**Introduction**

- 1 Any comments by service users on this publication should be forwarded through the channels prescribed in AESP 0100-P-011-013. An AESP Form 10 is provided at the end of this publication; it should be photocopied and used for forwarding comments on this AESP.
- 2 Service users must register their requirements on the AESP Form 1(M) attached to this document. Failure to do so will result in the user not receiving the automatic issue of future amendments or additions. The Form 1(M) should be completed and returned to ATSA as shown on the form.
- 3 AESPs are issued under Defence Council authority and where AESPs specify action to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores, subject to the provisions of Para 4 below.
- 4 The subject matter of this 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 it is to be taken as the overriding authority.

**Instructions for use by units**

- 5 Detailed instructions for use by Units are given in Materiel Regulations for the Army Vol 1 Pam 1.

**Initial issues by RLC**

- 6 Initial issues by RLC as detailed below:
  - 6.1 One copy of the CES will be attached to the Units copy of the issue voucher and one further copy accompany every equipment.
  - 6.2 Deficiencies (if any) will be enfaced on the covering issue voucher by reference to the Serial Number of the items listed in the simple CES.
  - 6.3 'To follow' vouchers will not be created.
  - 6.4 All items listed in the CES can be issued separately. If any listed herein becomes unserviceable it should be extracted and exchanged and the equipment retained pending receipt. Transfers between equipment holders should normally be complete to CES.

**In lieu items**

- 7 Authorised 'in lieu' items held against this CES will not be replaced until such time as they are no longer serviceable. When replacement becomes necessary the correct item, as listed in the CES, will be demanded.

**General notes**

- 8 Certain items may be annotated as follows:
  - 8.1 (E) - Expendable stores, consumable stores and material, 'NON LEDGER' spare parts of minor value.
  - 8.2 (X) - ESSENTIAL ITEMS without which the RLC will not issue the equipment.
  - 8.3 (\*) - This star indicates the accountability classification of the item.

8.4 (NI) - (Not Illustrated) when appearing with a number in the 'Fig Item' column indicates that the item is not illustrated.

8.5 (NIV) - (Not in Vocabulary) indicates that the item is not available within the Stores System.

### Amendments

9 Amendments to the catalogue will be published as and when necessary. These will be numbered consecutively, and the Amendment record sheet is to be completed for each amendment list embodied. New or amended material will be highlighted by side lining to show the extent of the amendment.

### Indentations

10 Items are listed in a logical assembly/disassembly order and are indented by the 'dot system' in which each 'Dot' depicts the relationship of the item to the assembly.

#### MAIN ASSEMBLY.

Attaching parts for main assembly.

. FIRST LEVEL OF BREAKDOWN (Sub-assembly or part of main assembly).

. Attaching parts for first level.

. . SECOND LEVEL OF BREAKDOWN (Sub-sub-assembly or detail part of Sub-assembly).

. . Attaching parts for second level.

### Description

11 The item Description and Annotation Block is also to convey additional information to the CES user, which will appear in brackets ie related location detail, eg another AESP or Chapter/Item within this AESP.

### ADDITIONAL INFORMATION

#### Applicability details

12 This CES relates to:- not applicable

### RELATED AND ASSOCIATED PUBLICATIONS

#### Related publications

13 The octad for the subject equipment consists of the publications shown in Table 1. 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).

#### Associated publications

14	<u>Reference</u>	<u>Title</u>
	Nil	

TABLE 1 CATEGORIES AND INFORMATION LEVELS

Category/Sub-category		Information Level				
		1 User/operator	2 Unit Maintenance	3 Field Maintenance	4 Base Maintenance	
1	0	Purpose and Planning Information	*	*	*	*
	1	Equipment Support Policy Directives	*	*	*	*
	2	Purpose and Planning Information, Medical and Dental	*	*	*	*
2	0	Operating Information	*	*	*	*
	1	Aide Memoire	*	*	*	*
	2	Training Aids	*	*	*	*
3		Technical Description	*	*	*	*
4	1	Installation Instructions	*	*	*	*
	2	Preparation for Special Environments	*	*	*	*
5	1	Failure Diagnosis	*	*	*	*
	2	Repair Instructions	*	*	*	*
	3	Inspection Standards	*	*	*	*
	4	Calibration Procedures	*	*	*	*
6		Maintenance Schedules	*	*	*	*
7	1	Illustrated Parts Catalogues	*	*	*	*
	2	Commercial Parts Lists	*	*	*	*
	3	Complete Equipment Schedule, Production Edition	*	*	*	*
	4	Complete Equipment Schedule, Service Edition (Simple Equipment)	741	741	741	741
	5	Complete Equipment Schedule, Service Edition (Complex Equipment)	*	*	*	*
8	1	Modification Instructions	*	*	*	*
	2	General Instructions, Special Technical Instructions and Servicing Instructions	*	*	*	*
	3	Service Engineered Modification Instructions (RAF only)	*	*	*	*

\* Category/Sub-category not published



**CHAPTER 2-0**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**C3I INSTALLATION IN RANGE ROVER**

**CONTENTS**

Chapter

- 2-1 Installation of UK/PRC 320/351(2)/SCRA in Range Rover (SVIC 26/136) Z99/  
5820-99-861-9672
- 2-2 IKEE for UK/PRC 320 in Range Rover Z99/5820-99-623-9295
- 2-3 IKEE for UK/PRC 351/2 in Range Rover Z99/5820-99-663-6571
- 2-4 IKEE for 4 way L.T. box in Range Rover Z99/5820-99-663-6572
- 2-5 IKEE for SCB in Range Rover Z99/5820-99-391-0939
- 2-6 IKEE for SCRA in Range Rover Z99/5820-99-925-3081

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	C31 INSTALLATIONS IN RANGE ROVER	REF EA	
NI 1	Z99	5820-99-861-9672	INSTALLATION OF UK/PRC 320 / 351 (2) / SCRA IN RANGE ROVER, ( SVIC 26/136 ) (See Chap 2-1)	REF EA	



**CHAPTER 2-1**

**COMPLETE EQUIPMENT SCHEDULES (SERVICE)  
SIMPLE EQUIPMENT**

**INSTALLATION OF UK/PRC 320/351(2)/SCRA  
IN RANGE ROVER (SVIC 26/136) Z99/  
5820-99-861-9672**

**CONTENTS**

**Chapter**

2-1	Installation of UK/PRC 320/351(2)/SCRA in Range Rover (SVIC 26/136) Z99/ 5820-99-861-9672
2-1-1	Main Items-Not Issued
2-1-2	Tools-Not Issued
2-1-3	Spares-Not Issued
2-1-4	Literature

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CES

Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION OF UK/PRC 320/ 351(2)/ SCRA IN RANGE ROVER (SVIC 26/136)	1 EA	
NI 1	Z99 K2515	5820-99-623-9295 AESP5800-C-100-741 CHAP2-2	. INSTALLATION KIT,ELECTRONIC EQUIPMENT FOR UK/PRC 320 IN RANGE ROVER (See Chap 2-2)	REF EA	
NI 2	Z99 K2515	5820-99-663-6571 AESP5800-C-100-741 CHAP2-3	. INSTALLATION KIT,ELECTRONIC EQUIPMENT FOR UK/PRC 351/2 IN RANGE ROVER (See Chap 2-3)	REF EA	
NI 3	Z99 K2515	5820-99-663-6572 AESP5800-C-100-741 CHAP2-4	. INSTALLATION KIT ELECTRONIC EQUIPMENT FOR 4 WAY L.T. BOX IN RANGE ROVER (See Chap 2-4)	REF EA	
NI 4	Z99 K2515	5820-99-391-0939 AESP5800-C-100-741 CHAP2-5	. INSTALLATION KIT,ELECTRONIC EQUIPMENT FOR SCB IN RANGE ROVER (See Chap 2- 5)	REF EA	
NI 5	Z99 K2515	5820-99-925-3081 AESP5800-C-100-741 CHAP2-6	. INSTALLATION KIT,ELECTRONIC EQUIPMENT FOR SCRA IN RANGE ROVER (See Chap 2- 6)	REF EA	
NI 6		NIV	. MAIN ITEMS (Not Issued)	REF EA	
NI 7		NIV	. TOOLS (Not Issued)	REF EA	
NI 8		NIV	. SPARES (Not issued)	REF EA	
NI 9		NIV	. LITERATURE (See Chap 2-1-4)	REF EA	





**CHAPTER 2-1-1**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**MAIN ITEMS-NOT ISSUED**

**CONTENTS**

Chapter

2-1-1	Main Items-Not Issued
2-1-1-1	Ancillary Equipment-Not Issued

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**CHAPTER 2-1-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	LITERATURE	REF EA	
NI 1	U1269	NIV AESP5800-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	



**CHAPTER 2-2**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**IKEE FOR UK/PRC 320 IN RANGE ROVER Z99/**  
**5820-99-623-9295**

**CONTENTS**

Chapter

2-2	IKEE for UK/PRC 320 in Range Rover Z99/5820-99-623-9295
2-2-1	Main Items
2-2-2	Tool-Not Issued
2-2-3	Spares-Not Issued
2-2-4	Literature

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION KIT ELECTRONIC EQUIPMENT FOR UK/PRC 320 IN RANGE ROVER	1 EA	
NI 1		NIV	. MAIN ITEMS (See Chap 2-2-1)	REF EA	
NI 2		NIV	. TOOLS ( Not Issued)	REF EA	
NI 3		NIV	. SPARES (Not Issued)	REF EA	
NI 4		NIV	. LITERATURE (See Chap 2-2-4)	REF EA	



**CHAPTER 2-2-1**

**COMPLETE EQUIPMENT SCHEDULES (SERVICE)  
SIMPLE EQUIPMENT**

**MAIN ITEMS**

**CONTENTS**

Chapter

2-2-1	Main Items
2-2-1-1	Ancillary Equipment-Not Issued

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Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	MAIN ITEMS	REF EA	
NI 1	Z42 K0242	5985-99-744-3410 SD2/231601/PD	BASE ANTENNA SUPPORT; NO 31 MK7; COMPRISING CLAMP, NUT, BASE AND SOCKET ASSEMBLY AND CIRCLIP.	1 EA	
NI 2	Z42 K3834	5985-99-649-8140 748-000	ANTENNA ELEMENT; TOP SECTION	1 EA	
NI 3	Z42 K3834	5985-99-630-8456 MA682	ANTENNA ELEMENT - MIDDLE SECTION	1 EA	
NI 4	Z42 K3834	5985-99-630-8455 MA681	ANTENNA ELEMENT; BOTTOM SECTION	1 EA	
NI 5	Z99 K7777	5820-99-634-7531 FV760330	FRAME MOUNTING STEEL 11.31/ 64-IN LG 8.7/8-IN W 1.7/8-IN H	1 EA	
NI 6	Z99 K0242	5820-99-645-0133 SDD253501	PLATE ADAPTOR CARRIER	1 EA	
NI 7	Z1 K0242	5330-99-949-1082 61364	GASKET	1 EA	
NI 8	Z2 K0236	5340-99-103-4883 SD/A166396	BUSHING,RUBBER	2 EA	
NI 9	Z42 K0236	5970-99-103-5758 SD/A166393	INSULATOR,BOWL	30 EA	
NI 10	Z1 K0242	5330-99-419-0475 SD/A166387	GLAND ASSEMBLY	1 EA	
NI 11	Z42 U0795	5995-99-117-7436 FV745826/7	CABLE ASSEMBLY.POWER,ELECTRICAL	1 EA	
NI 12	Z42 U1515	5995-99-985-2028 FV2050202/103	CABLE ASSEMBLY	1 EA	
NI 13	Z42 U1515	5995-99-500-6447 FV2050275/6	CABLE ASSEMBLY	1 EA	
NI 14	Z42 U0795	5995-99-894-8671 FV2050282/11	CABLE ASSEMBLY	1 EA	
NI 15	G1 K0000	5305-99-122-5362 BS3692HXEXMT06.00 X025ST00ZN	SCREW, MACHINE; STEEL; ZINC PLATED; HEX HD; M6 X 25 MM LG	6 EA	

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Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 16	G1 K0000	5305-99-122-5365 BS3692HXEXMT08.00 X016ST00ZN	SCREW, CAP, HEXAGON HEAD ISO M; STEEL; HEX HD; ZINC PLATED; 8MM BY 1.25MM PITCH; 16MM LG; CLASS 6G THD	5 EA	
NI 17	G1 K0000	5306-99-122-5255 BS3692HXEXMT08.00 X045ST00ZN@8.8	BOLT, MACHINE STEEL; HEX HD; ZINC PLATED W/ CHROMATE; 8.00X1.25 ISO M THD; 45 MM LG; CLASS 6G THD;	4 EA	
NI 18	G1 K0000	5310-99-122-5296 BS3692PLHXMT08.00 ST00ZN	NUT, PLAIN, HEXAGON; ISO M; STEEL; CHAMFERED BEARING SURFACE; ZINC PLATED; M8 X 1.25MM THD; 13MM W A/ F, 6.50MM O/A H; CLASS 6H THD	4 EA	
NI 19	G1 K0000	5310-99-122-6475 BS4320FT08.40RD17. 00ST00ZN	WASHER, FLAT; STEEL; RD; ZINC PLATED; RD HOLE; M8 NOM BOLT SIZE; 17.00MM NOM OD; 1MM NOM THK;	4 EA	
NI 20	G1 K0000	5310-99-138-7965 BS4320FT08.00RD21. 00ST00ZN	WASHER, FLAT; STEEL; RD; ZINC PLATED; RD HOLE; 8MM BOLT SIZE; 21MM OD; 1.6MM THK;	4 EA	
NI 21	G1 K0000	5310-99-138-9227 BS4464LK08.00RD12. 75ST00ZN	WASHER, LOCK; STEEL; SPLIT HELICAL RING; ZINC PLATED W/CHROMATE: 8.00MM NOM BOLT SIZE; 12.75MM OD; 2.00MM THK;	8 EA	
NI 22	G1 D8286	5310-12-162-7601 DIN6798-A6,4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, 1/4"	6 EA	
NI 23	G1 D8286	5310-12-143-7999 DIN6797-A8,4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, M8	6 EA	

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	No Off DofQ	Quantity on Issue
2 NI 0		NIV	ASSOCIATED ITEMS ACCOUNTED FOR SEPARATELY ON UNIT EQUIPMENT TABLE	REF EA	
NI 1	Z99 K0242	5820-99-114-3188 SDD218775	TRANSMITTER-RECEIVER, RADIO UK/RT 320	REF EA	
NI 2	Z99 K0835	6130-99-620-2114 SDB243873	CHARGER BATTERY; 14 V DC; D.C.C.U.	REF EA	
NI 3	Z9BAT K2490	6140-99-620-8057 28050-455-10	BATTERY, SECONDARY; METAL CASE; 24V; 4A HOUR CAPACITY; CONNECTOR TERMINAL; 5 IN. NOM W; 7.63 IN. NOM LG; 2.84 IN. NOM H (1 Spare, stowed)	REF EA	



**CHAPTER 2-2-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	No Off DofQ	Quantity on Issue
1 NI 0		NIV	LITERATURE	REF EA	
NI 1	U1269	NIV AESP5800-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	



**CHAPTER 2-3**

**COMPLETE EQUIPMENT SCHEDULES (SERVICE)  
SIMPLE EQUIPMENT**

**IKEE FOR UK/PRC 351/2 IN RANGE ROVER  
Z99/5820-99-663-6571**

**CONTENTS**

Chapter

2-3	IKEE for UK/PRC 351/2 in Range Rover Z99/5820-99-663-6571
2-3-1	Main Items
2-3-2	Tools-Not Issued
2-3-3	Spares-Not Issued
2-3-4	Literature

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION KIT ELECTRONIC EQUIPMENT FOR UK/PRC 351/2 IN RANGE ROVER	1 EA	
NI 1		NIV	. MAIN ITEMS (See Chap 2-3-1)	REF EA	
NI 2		NIV	. TOOLS (Not Issued)	REF EA	
NI 3		NIV	. SPARES (Not Issued)	REF EA	
NI 4		NIV	. LITERATURE (See Chap 2-3-4)	REF EA	



**CHAPTER 2-3-1**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**

**MAIN ITEMS**

**CONTENTS**

Chapter

2-3-1	Main Items
2-3-1-1	Ancillary Equipment-Not Issued

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	MAIN ITEMS	REF EA	
NI 1	Z99 K2490	5821-99-630-6156 49013-001-01	TUNING UNIT AUTOMATIC ANTENNA MATCHING. WITHOUT ANTI-VIBRATION KIT	1 EA	
NI 2	Z99 K2490	5820-99-630-6488 49135-100-10	INITIATE BOX	1 EA	
NI 3	Z42 K2490	5985-99-100-4298 48050-835-08	BASE ANTENNA ELEMENT	1 EA	
NI 4	Z42 K3834	5985-99-630-8456 MA682	ANTENNA ELEMENT - MIDDLE SECTION	1 EA	
NI 5	Z42 K3834	5985-99-630-8455 MA681	ANTENNA ELEMENT; BOTTOM SECTION	1 EA	
NI 6	Z1 K0242	5330-99-949-1082 61364	GASKET	1 EA	
NI 7	Z99 K7777	5820-99-634-7531 FV760330	FRAME MOUNTING STEEL 11.31/ 64-IN LG 8.7/8-IN W 1.7/8-IN H	1 EA	
NI 8	Z99 K0242	5820-99-645-0133 SDD253501	PLATE ADAPTOR CARRIER	1 EA	
NI 9	Z2 K0242	5365-99-949-1043 SD/A162764	BUSHING, RUBBER, 1/2IN. DIA HOLE, 3/4IN. SQ BODY, 1/4IN. O/A LG	4 EA	
NI 10	Z2 K0242	5365-99-949-1084 SDA162763	BUSHING, RUBBER; SYNTHETIC; 0.3 28 IN. DIA OF CENTRE HOLE; 0.500 IN. DIA OF BODY; 0.688 IN. DIA OF FLANGE; 1.406 IN. O/A LG.	4 EA	
NI 11	Z99 K0242	5365-99-637-9758 SD4/260059	SPACER, SLEEVE	2 EA	
NI 12	G1 U0795	5306-99-767-3548 FV990074	BOLT, SHOULDER	4 EA	
NI 13	Z42 U0795	5995-99-117-7436 FV745826/7	CABLE ASSEMBLY. POWER, ELECTRICAL	1 EA	
NI 14	Z42 U1515	5995-99-730-8811 FV2050183/118	CABLE ASSEMBLY	1 EA	
NI 15	Z42 U1515	5995-99-924-6094 FV2050198/88	CABLE ASSEMBLY	1 EA	

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Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 16	Z42 U1515	5995-99-853-6828 FV2050201/111	CABLE ASSEMBLY	1 EA	
NI 17	Z42 U1515	5995-99-887-6812 FV2050201/112	CABLE ASSEMBLY	1 EA	
NI 18	Z42 U1515	5995-99-723-0585 FV2050201/104	CABLE ASSEMBLY	1 EA	
NI 19	Z1 U0795	5820-99-791-8033 FV2053560/6	LEAD,ELECTRICAL	1 EA	
NI 20	G1 K0000	5306-99-122-8100 BS3692HXEXMT06.00 X075ST00ZN @8.8	BOLT,MACHINE; M6;STEEL;ZINC PLATED;HEX HD;75MM LG	3 EA	
NI 21	G1 K0000	5305-99-122-5365 BS3692HXEXMT08.00 X016ST00ZN @8.8	SCREW,MACHINE,STEEL;ZINC PLATED;HEX HD,8 MM BY 16 MM LG	4 EA	
NI 22	G1 K0000	5305-99-122-5255 BS3692HXEXMT08.00 X045ST00ZN	BOLT,MACHINE;ISO METRIC;STEEL;HEX HD; ZINC PLATED;8MM X 1.2MM PIT 45MM LG	4 EA	
NI 23	G1 U0795	5306-99-122-5258 FV2042048/76	BOLT, MACHINE; STEEL; ZINC PLATED; HEX HD; M8 X 65 MM LG	2 EA	
NI 24	G1 U0795	5310-99-122-5295 FV972997 ITEM 24	NUT,PLAIN,HEXAGON;ISO M;STEEL; CHAMFERED;ZINC PLATED;M6X1.00 MM THD; 10.00 MM W A/F;5.00 MM O/A H;CL 6H THD; STRENGTH GRADE 8;RH THD	1 EA	
NI 25	G1 K0000	5310-99-122-5296 BS3692PLHXMT08.00 ST00ZN	NUT,PLAIN,HEXAGON; ISO M; STEEL; CHAMFERED BEARING SURFACE; ZINC PLATED; M8 X 1.25MM THD; 13MM W A/ F, 6.50MM O/A H; CLASS 6H THD	6 EA	
NI 26	G1 K0000	5310-99-122-6475 BS4320FT08.40RD17. 00ST00ZN	WASHER, FLAT; STEEL; ZINC PLATED; M8	4 EA	
NI 27	G1 K0000	5310-99-138-7965 BS4320FT08.00RD21. 00ST00ZN	WASHER,FLAT; STEEL;RD;ZINC PLATED;RD HOLE;8MM BOLT SIZE;21MM OD;1.6MM THK;	10 EA	
NI 28	G1 K0000	5310-99-138-9227 BS4464LK08.00RD12. 75ST00ZN	WASHER, LOCK; STEEL; SPLIT HELICAL RING; ZINC PLATED W/CHROMATE; 8.00MM NOM BOLT SIZE; 12.75MM OD; 2.00MM THK;	10 EA	

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Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 29	G1 D8286	5310-12-162-7601 DIN6798-A6,4-FST-A3P	WASHER.LOCK.STEEL.FLAT EXTERNAL TEETH, ZINC PLATED,1/4"	5 EA	
NI 30	G1 D8286	5310-12-143-7999 DIN6797-A8,4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, M8	10 EA	
NI 31	H1 U0406	8030-99-225-0248 LOCTITE242-50ML	LOCKING SEALANT; MEDIUM STRENGTH THREADLOCKING, MEDIUM VISCOSITY, THIXOTROPIC, CONTROLLED TORQUE TENSION, COLOUR BLUE	1 BT	

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
2 NI 0		NIV	ASSOCIATED ITEMS ACCOUNTED FOR SEPARATELY ON UNIT EQUIPMENT TABLE	REF EA	
NI 1	Z99 K0242	5820-99-114-3639 SDD214200	TRANSMITTER/RECEIVER RADIO TRR UK/RT351	REF EA	
NI 2	Z99 K0242	5820-99-114-3640 SDD239400	AMPLIFIER,RADIO FREQUENCY	REF EA	
NI 3	Z9BAT K2490	6140-99-620-8057 28050-455-10	BATTERY, SECONDARY; METAL CASE; 24V; 4A HOUR CAPACITY; CONNECTOR TERMINAL; 5 IN. NOM W; 7.63 IN. NOM LG; 2.84 IN. NOM H (1 Spare,Stowed)	REF EA	
NI 4	Z99 K0835	6130-99-620-2114 SDB243873	CHARGER BATTERY;14 V DC;D.C.C.U.	REF EA	



**CHAPTER 2-3-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	LITERATURE	REF EA	
NI 1	U1269	NIV AESP5800-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	





**CHAPTER 2-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**IKEE FOR 4 WAY L.T. BOX IN RANGE ROVER**  
**Z99/5820-99-663-6572**

**CONTENTS**

Chapter

2-4	IKEE for 4 way L.T. box in Range Rover Z99/5820-99-663-6572
2-4-1	Main Items
2-4-2	Tools-Not Issued
2-4-3	Spares-Not Issued
2-4-4	Literature

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION KIT ELECTRONIC EQUIPMENT FOR 4 WAY L.T. BOX IN RANGE ROVER	1 EA	
NI 1		NIV	. MAIN ITEMS (See Chap 2-4-1)	REF EA	
NI 2		NIV	. TOOLS (Not Issued)	REF EA	
NI 3		NIV	. SPARES (Not Issued)	REF EA	
NI 4		NIV	. LITERATURE (See Chap 2-4-4)	REF EA	



**CHAPTER 2-4-1**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**MAIN ITEMS**

**CONTENTS**

Chapter

2-4-1	Main Items
2-4-1-1	Ancillary Equipment-Not Issued

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Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	MAIN ITEMS	REF EA	
NI 1	Z88 U0795	5820-99-405-4221 FV2073001	4 WAY L. T. BOX ASSEMBLY; ELECTRONIC CONTROL BOX WITH ANTI-VIBRATION MOUNTING;	1 EA	
NI 2	Z42 U1515	5995-99-702-3566 FV2051028/3	CABLE ASSEMBLY	1 EA	
NI 3	Z99 K0242	5365-99-637-9758 SD4/260059	SPACER,SLEEVE	2 EA	
NI 4	G1 U0795	5306-99-122-5258 FV2042048/76	BOLT, MACHINE; STEEL; ZINC PLATED; HEX HD; M8 X 65 MM LG	2 EA	
NI 5	G1 K0000	5310-99-122-5296 BS3692PLHXMT08.00 ST00ZN	NUT,PLAIN,HEXAGON; ISO M; STEEL; CHAMFERED BEARING SURFACE; ZINC PLATED; M8 X 1.25MM THD; 13MM W A/ F, 6.50MM O/A H; CLASS 6H THD	2 EA	
NI 6	G1 K0000	5310-99-122-6475 BS4320FT08.40RD17. 00ST00ZN	WASHER, FLAT; STEEL; ZINC PLATED; M8	1 EA	
NI 7	G1 K0000	5310-99-138-7965 BS4320FT08.00RD21. 00STOOZN	WASHER,FLAT; STEEL;RD;ZINC PLATED;RD HOLE;8MM BOLT SIZE;21MM OD;1.6MM THK;	2 EA	
NI 8	G1 K0000	5310-99-138-9227 BS4464LK08.00RD12. 75ST00ZN	WASHER, LOCK; STEEL; SPLIT HELICAL RING; ZINC PLATED W/CHROMATE; 8.00MM NOM BOLT SIZE; 12.75MM OD; 2.00MM THK;	1 EA	
NI 9	G1 D8286	5310-12-143-7999 DIN6797-A8,4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, M8	5 EA	





**CHAPTER 2-4-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	LITERATURE	REF EA	
NI 1	U1269	NIV AESP5800-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	



**CHAPTER 2-5**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**

**IKEE FOR SCB IN RANGE ROVER Z99/  
5820-99-391-0939**

**CONTENTS**

Chapter

2-5	IKEE for SCB in Range Rover Z99/5820-99-391-0939
2-5-1	Main Items
2-5-2	Tools-Not Issued
2-5-3	Spares-Not Issued
2-5-4	Literature

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION KIT ELECTRONIC EQUIPMENT FOR SCB IN RANGE ROVER	1 EA	
NI 1		NIV	. MAIN ITEMS (See Chap 2-5-1)	REF EA	
NI 2		NIV	. TOOLS (Not Issued)	REF EA	
NI 3		NIV	. SPARES (Not Issued)	REF EA	
NI 4		NIV	. LITERATURE (See Chap 2-5-4)	REF EA	





**CHAPTER 2-5-1**

**COMPLETE EQUIPMENT SCHEDULES (SERVICE)  
SIMPLE EQUIPMENT**

**MAIN ITEMS**

**CONTENTS**

Chapter

2-5-1	Main Items
2-5-1-1	Ancillary Equipment-Not Issued

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CES

Fig. No Item No	Army DMC NSCM	NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	MAIN ITEMS	REF EA	
NI 1	Z99 K0242	5895-99-117-6108 SDC2349900	CONTROL, COMMUNICATION SYSTEM; SET COMBINING BOX.	1 EA	
NI 2	Z42 U1515	5995-99-728-8545 FV2050201/123	CABLE ASSEMBLY	1 EA	
NI 3	Z42 U1515	5995-99-818-0542 FV2050201/124	CABLE ASSEMBLY	1 EA	
NI 4	Z42 U1269	5965-99-620-5667 SD/C229881	CABLE ASSEMBLY, SWITCH, ELECTRICAL	1 EA	
NI 5	Z42 K0242	5965-99-620-8320 SD/0229880	HEADSET-MICROPHONE	1 EA	
NI 6	Z42 K5282	5965-99-620-5669 SDC242200*1SSUE7	HANDSET W/SWITCH;W/ CORD;TERMINATED W/PLUG,7 POLE	1 EA	
NI 7	G1 K0000	5310-99-122-6475 BS4320FT08.40RD17. 00ST00ZN	WASHER, FLAT; STEEL; ZINC PLATED; M8	1 EA	
NI 8	G1 K0000	5310-99-138-9227 BS4464LK08.00RD12. 75ST00ZN	WASHER, LOCK; STEEL; SPLIT HELICAL RING; ZINC PLATED W/CHROMATE; 8.00MM NOM BOLT SIZE; 12.75MM OD; 2.00MM THK;	1 EA	
NI 9	G1 D8286	5310-12-143-7999 DIN6797-A8,4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, M8	2 EA	
NI 10	G1 K0000	5310-99-122-5296 BS3692PLHXMT08.00 ST00ZN	NUT,PLAIN,HEXAGON; ISO M; STEEL; CHAMFERED BEARING SURFACE; ZINC PLATED; M8 X 1.25MM THD; 13MM W A/ F, 6.50MM O/A H; CLASS 6H THD	2 EA	



**CHAPTER 2-5-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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Fig. No Item No	Army DMC NSCM NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0	NIV	LITERATURE	REF EA	
NI 1	U1269 NIV AESP5800-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	





**CHAPTER 2-6**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**

**IKEE FOR SCRA IN RANGE ROVER Z99/  
5820-99-925-3081**

**CONTENTS**

**Chapter**

2-6	IKEE for SCRA in Range Rover Z99/5820-99-925-3081
2-6-1	Main Items
2-6-2	Tools-Not Issued
2-6-3	Spares-Not Issued
2-6-4	Literature

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	INSTALLATION KIT ELECTRONIC EQUIPMENT FOR SCRA IN RANGE ROVER	1 EA	
NI 1		NIV	. MAIN ITEMS (See Chap 2-6-1)	REF EA	
NI 2		NIV	. TOOLS (Not Issued)	REF EA	
NI 3		NIV	. SPARES (Not Issued)	REF EA	
NI 4		NIV	. LITERATURE (See Chap 2-6-4)	REF EA	



**CHAPTER 2-6-1**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**MAIN ITEMS**

**CONTENTS**

Chapter

2-6-1	Main Items
2-6-1-1	Ancillary Equipment-Not Issued

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CES

Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	MAIN ITEMS	REF EA	
NI 1	6MTI K0242	5820-99-744-5086 PT6036-3-611003	GASKET ASSEMBLY	1 EA	
NI 2	Z88 U3674	5820-99-708-9191 RR000147-A0	MOUNTING TRAY	1 EA	
NI 3	Z88 U3674	5820-99-533-9884 RR000140-A1	BRACKET MOUNTING	1 EA	
NI 4	Z88 U3674	5820-99-109-8814 RR000154-A0	ANTI VIBRATING MOUNTING ASSEMBLY	1 EA	
NI 5	Z88 K1057	5965-99-661-7002 PT3926-1-600000	HANDSET W/SWITCH;W/ CORD;TERMINATED W/FREE CONNECTOR	1 EA	
NI 6	Y1 K5562	5965-99-661-8549 PT5562-2-720334	HOLDER,HANDSET SIX 4.4MM DIA MTG HOLES ON 20MM WD, 85MM LG CENTRES; 200.2MM LG, 50MM WD, 50MM MAX H; IRREGULAR SHAPE, PLASTIC	1 EA	
NI 7	Z42 U1515	5995-99-663-6573 FV2051035/1	CABLE ASSEMBLY	1 EA	
NI 8	Z42 U1515	5995-99-983-0683 FV2050393/8	CABLE ASSEMBLY	1 EA	
NI 9	Z42 U1515	5995-99-577-3946 FV2050388/10	CABLE ASSEMBLY	1 EA	
NI 10	Z42 U1515	5995-99-976-0169 FV2050549/4	CABLE ASSEMBLY	1 EA	
NI 11	Z42 K7777	5995-99-765-7194 MOD(PE)MVEE FV205 3554/4	LEAD ELECTRICAL TUBULAR BRAID 7/90/.0032IN AND 16/7/ .0040IN TINNED COPPER TERMINAL LUG WITH MTG HOLE 1ST AND TER LUG WITH SLOT 2ND	1 EA	
NI 12	Z88 U0795	5995-99-640-8066 FV2053554/11	LEAD,ELECTRICAL	1 EA	
NI 13	G1 K0000	5306-99-122-5250 BS3692HXEXMT06.00 X060ST00ZN@8.8	BOLT,MACHINE; ISO M;STEEL;HEX HD;ZINC PLATED W/CHROMATE;6MM BY 1MM PITCH; 60MM LG;CLASS 6G THD	6 EA	
NI 14	G1 K0000	5305-99-122-5255 BS3692HXEXMT08.00 X045ST00ZN	BOLT,MACHINE;ISO METRIC;STEEL;HEX HD; ZINC PLATED;8MM X 1.2MM PIT 45MM LG	4 EA	

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 15	G1 K0000	5310-99-122-5296 BS3692PLHXMT08.00 ST00ZN	NUT,PLAIN,HEXAGON; ISO M; STEEL; CHAMFERED BEARING SURFACE; ZINC PLATED; M8 X 1.25MM THD; 13MM W A/ F, 6.50MM O/A H; CLASS 6H THD	4 EA	
NI 16	G1 K0000	5310-99-122-6474 BS4320FT6.550RD12. 30ST00ZN	WASHER, FLAT; STEEL; RD SHAPE; ZINC PLATED; RD HOLE; 6 MM NOM BOLT SIZE; 12.50 MM O/A OD; 1.60 MM THK	6 EA	
NI 17	G1 K0000	5310-99-138-7965 BS4320FT08.00RD21. 00ST00ZN	WASHER,FLAT; STEEL;RD;ZINC PLATED;RD HOLE:8MM BOLT SIZE:21MM OD;1.6MM THK;	4 EA	
NI 18	G1 K0000	5310-99-137-9232 BS4464LK06.00RD09. 60ST00ZN	WASHER, LOCK, STEEL; SINGLE COIL; ZINC PLATED; 6 MM NOM SIZE; 9.60MM OD; 1.50MM THK	6 EA	
NI 19	G1 K0000	5310-99-138-9227 BS4464LK08.00RD12. 75ST00ZN	WASHER, LOCK; STEEL; SPLIT HELICAL RING; ZINC PLATED W/CHROMATE; 8.00MM NOM BOLT SIZE; 12.75MM OD; 2.00MM THK;	3 EA	
NI 20	G1 D8286	5310-12-143-7999 DIN6797-A8.4-FST-A3P	WASHER, LOCK, STEEL, FLAT EXTERNAL TEETH, ZINC PLATED, M8	2 EA	

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
2 NI 0		NIV	ASSOCIATED ITEMS ACCOUNTED FOR SEPARATELY ON UNIT EQUIPMENT TABLE	REF EA	
NI 1	Z88 K0242	5820-99-647-9538 PT6036-0-600101	TRANSMITTER-RECEIVER,RADIO; TX/RX	REF EA	
NI 2	Z88 K0242	5820-99-647-9539 PT6036-0-600111	CONTROL,INDICATOR GROUP	REF EA	
NI 3	Z88 K0242	5820-99-647-9540 PT6036-0-600107	CONTROL,KEYER;	REF EA	
NI 4	Z88 K0242	5820-99-647-9541 PT6036-0-600103	ANTENNA,VEHICLE MOUNTED;	REF EA	



**CHAPTER 2-6-4**  
**COMPLETE EQUIPMENT SCHEDULES (SERVICE)**  
**SIMPLE EQUIPMENT**  
**LITERATURE**

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Fig. No Item No	DMC NSCM	Army NSN Part Number	Item Description and Annotations	NoOff DofQ	Quantity on Issue
1 NI 0		NIV	LITERATURE	REF EA	
NI 1	U1269	NIV AESP58000-C-100-741	COMPLETE EQUIPMENT SCHEDULE	1 EA	





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COMMENT ON AESP

TO: ARMY TECHNICAL SUPPORT AGENCY (DTS) FROM:  
BLDG 10/8 SECTION TS1 32  
HA HA ROAD  
WOOLWICH  
LONDON SE18 4QF

Sender's Reference..... Tel.No.....

Date.....

Title of AESP C3I INSTALLATIONS IN RANGE ROVER

COMMENT

Signed: .....

---

TO: ..... FROM: ATSA (DTS)  
..... BLDG 10/8 SECTION TS1 32  
..... HA HA ROAD  
..... WOOLWICH  
..... LONDON SE18 4QF

Thank you for commenting on AESP 5800-C-100-741

\* Action is being taken to:

\*(i) Revise the AESP

\*(ii) Amend the AESP

\* No action is considered necessary for the following reasons:

\* Delete as necessary

Signed: .....

Date.....



**AESP CUSTOMER REGISTRATION  
AND DEMAND FORM**

**PART I - REGISTRATION**

a) Address:-

b) BIN No

c) UIN

d) Information level

e) Equipment designation

f) Reason submitted (tick one box)

Initial registration

Amendment

Cancellation

Demand only

g) AESP Reference number

h) Category	1	2	3	4	5	6	7	8	j) Non-equip AESP Qty			
Sub - Cat	0	1	2	0	1	2	3	4	5	1	2	3
Quantity												

**PART II - DEMANDS**

Note : For available categories, see relevant Group Index

LSTPA Codes : SE = Stock Exhausted (please justify requirement)  
NS = Nil Stock (allow 4 wks for demand to be satisfied)  
NYP = Not Yet Published

k) Category	Qty	Codes

AESP Form 1(M) Pads	Qty

AESP Form 2 Pads	Qty

l) Unit Stamp

m) Name (capitals) .....

Rank / grade .....

Tel no. ....

Sig ..... Date .....









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**COMMAND CONTROL,  
COMMUNICATIONS AND INFORMATION  
(C<sup>3</sup>I) INSTALLATION IN**

**TRUCK, UTILITY, MED, LIGHTLY ARMoured  
PROTECTED (VPK) 4X4 LAND ROVER**

**ILLUSTRATED PARTS CATALOGUE**

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Ha Ha Road  
Woolwich SE18 4QF





AMENDMENT RECORD

Amdt	Incorporated by	Date
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2 Antenna System Installation, VPK Land Rover.	
2.1 Radio Mounting Bars.	
2.2 Ground Plane Assembly and Attachments.	
2.3 Box - Antenna Mounting Assembly and Cable Assemblies.	
2.4 Impact Plate/Mounting Frame Assembly and Cable Stowage Installation.	
3 Index of NATO Stock Numbers.	
4 Index of Part Numbers/Drawing Numbers.	

██████████

PREFACE

Introduction

1 This Illustrated Parts Catalogue (IPC) is designed for the identification of component parts or assemblies of parts of the equipment, and to provide the information necessary for the demanding of spares.

2 This IPC may list some or all of the parts comprising the equipment concerned, but only those parts given a NATO Stock Number, Service Catalogue or Reference Number will normally be available as spares. Should there be a requirement for an item not assigned a number, demands may be submitted quoting the AESP, item number, Figure Reference and Item Name. Where a manufacturer's reference is known, this should also be quoted.

Quantities

3 The figure in the 'Number Off' column specifies the quantity for the unit (or assembly, subassembly etc); it does not indicate the quantity to be demanded.

Demands

4 When demanding Spare Parts the following particulars must be quoted:-

- a Management Code (Man Code).
- b NATO Stock Number.
- c Item Name.
- d Name of Equipment for which the part is required.
- e Manufactures reference, if known.

Alternatives quoted apply only to the Equipment covered by this IPC.

Annotations

- 5
- a A/R When appearing in the 'Number Off' column indicates that the quantity is 'as required'.
  - b NI Against a number in the 'Fig Item' column indicates that the item is not illustrated.
  - c \* (Obsolescent stock) - an asterisk in the 'Part Number' column indicates an obsolescent item, no further purchase of which will be made but stocks are to be used until exhausted.
  - d NP (Non-provisioned) - when appearing in the 'NATO Stock Number' column indicates that the time may be illustrated, but not available from stock as a replacement item.
  - e LM Indicates local manufacture, ie a part that is to be manufactured by Service units from local resources.
  - f REF In the 'Number Off' column indicates that the item is listed for reference purposes only.

PREFACE - Contd

Abbreviations

6 Abbreviations and symbols used in this IPC have been approved and are listed separately.

Amendments

7 Amendments to the catalogue will be published as and when necessary.

They will be numbered consecutively, and the Amendment Record Sheet is to be completed for each Amendment List embodied.

8 New or amended matter will be indicated by side lining to show the extent of the amendment.

Indentations

9 Items are listed in a logical assembly/disassembly order and are indented by the 'Dot System' in which each 'dot' depicts the relationship of the item to the main assembly:-

MAIN ASSEMBLY

Attaching parts for main assembly

. FIRST LEVEL OF BREAKDOWN (Subassembly or detail part of the main assembly).

. Attaching parts for first level.

. . SECOND LEVEL OF BREAKDOWN (Subassembly or detail part of subassembly)

. . Attaching parts for second level.

. . . THIRD LEVEL OF BREAKDOWN (Sub-sub-subassembly or detail part of sub-subassembly)

. . . Attaching parts for third level.

Note: a Attaching parts for the Main Assembly are listed at the end of the text of the Main Assembly.

b Catalogue numbers quoted in this catalogue will supersede any number that may have been allotted previously.

Publication Information

10 Any communication regarding this AESP should be made in accordance with 0100-P-011-013 to Army Scaling and Cataloguing Authority, Ha Ha Road, Woolwich SE18 4QF.

List of Abbreviations

The following abbreviations are in accordance with the requirements of JSP 187.

Each abbreviation is listed individually but may appear in the text coupled with others:-  
eg. ft/min, ft/sec, o/a lg, o/a dim, hex hd.

A . . .	ampere	lg . .	long (length)
ac . .	alternating current	lh . .	left hand
A/F . .	across flats	LT . .	low tension
Al . .	aluminium		
A/R . .	as required	M . .	mega
		mA . .	milliampere
BA . .	British Association Screw Thread	max	maximum
Be Cu	Beryllium copper	Mc/s	megacycles per second
BL . .	breech loading	mH . .	millihenry(s)
BSF . .	British Standard Fine Thread	min . .	minimum
BSW	British Standard Whitworth Thread	Mk . .	Mark
		mm . .	millimeter
		M ohms	megohms(s)
Cd . .	cadmium	mtd . .	mounted
cont . .	continued	mtg . .	mounting
cres . .	corrosion resistant steel	mW	milliwatt(s)
csk . .	countersunk		
Cu . .	copper	neg . .	negative
		nF . .	nanofarad(s)
		Ni . .	nickel
dc . .	direct current	no . .	number
deg . .	degree	nom	nominal
dia . .	diameter		
dim . .	dimension(s)	o/a . .	overall
dp . .	double-pole	od . .	outside diameter
dpdt . .	double-pole, double-throw		
dpst . .	double-pole, single-throw	pF . .	picofarad(s)
		Phos B	phosphor bronze
ext . .	external	psi . .	pounds per square inch
		PTFE	polytetrafluoroethylene
fil . . .	fillister	PVC	polyvinyl chloride
fin . .	finish		
ft . . .	foot	qty . .	quantity
h . . .	high (height)	rd . .	round
hd . .	head	rect . .	rectangular
hex . .	hexagon	ref . .	reference
HT . .	high tension	rh . .	right hand
Hz . .	hertz		
		scr . .	screw
id . . .	inside diameter	skt . .	socket
in . . .	inch	spdt	single-pole, double throw
kg . .	kilogram(s)		
k ohms	kilohms(s)		
kV . .	kilovolt(s)		

List of Abbreviations - Contd.

spst .	single pole single throw	UNEF	Unified Extra Fine Thread
sq ..	square	UNF	Unified Fine Thread
srbf .	synthetic resin bonding fabric	UNS	Unified Special Thread
std ..	standard	V ..	volts(s)
SWG	standard wire gauge		
syn .	synthetic		
thd ..	thread	w ..	width
thk ..	thick(ness)	W ..	Watt(s)
tpi ..	threads per inch	w/ ..	with
		w/o .	without
uF ..	microfarad(s)	Whit	Whitworth
uH ..	microhenry(s)	wgk	working
UN ..	Unified Series		
UNC	Unified Coarse Thread	Zn .	Zinc

ADDITIONAL INFORMATION

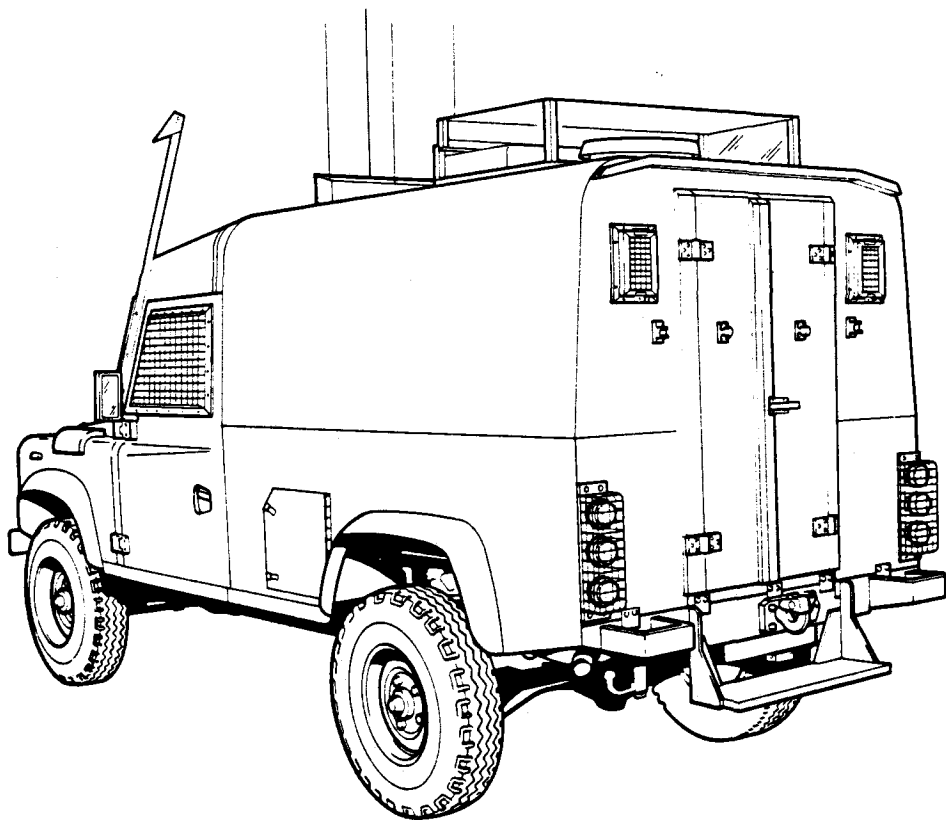
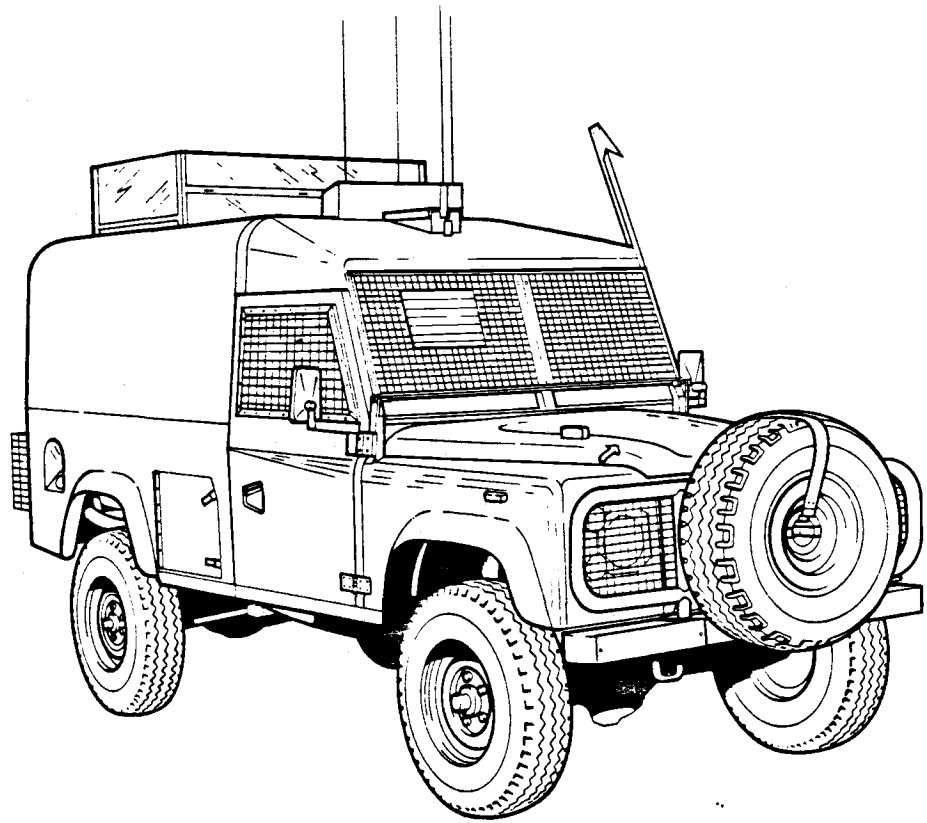
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VPK LANDROVER COMMUNICATION INSTALLATION

Veh Code }  
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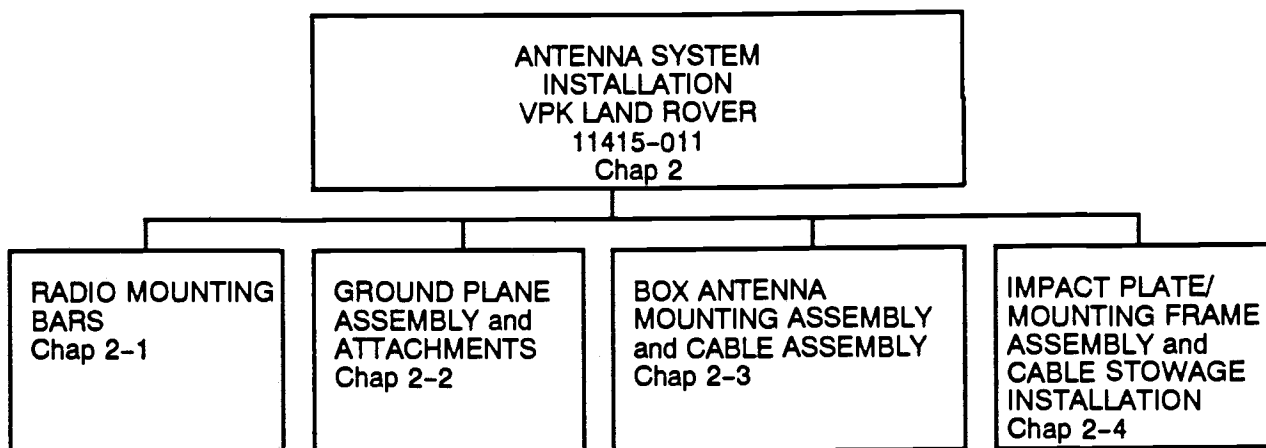






**CHAPTER 1**  
**INDEX OF ASSEMBLIES AND SUB - ASSEMBLIES**





INDEX OF MAIN ASSEMBLIES AND SUB ASSEMBLIES

Fig Item	Man Code Navy - N Army - A RAF - R	NATO Stock No	Item Name and Description	Part No/ Drawing No.	Location in Chap 2 or Separate Sched. No.
1			RADIO MOUNTING BARS		2-1
2			GROUND PLANE ASSEMBLY and ATTACHMENTS		2-2
3			BOX ANTENNA MOUNTING ASSEMBLY and CABLE ASSEMBLIES		2-3
4			IMPACT PLATE/MOUNTING FRAME ASSEMBLY and CABLE STOWAGE INSTALLATION		2-4



**CHAPTER 2**  
**PARTS LIST**  
**ANTENNA SYSTEM INSTALLATION**  
**VPK LAND ROVER**





CHAPTER 2-1  
PARTS LIST  
RADIO MOUNTING BARS





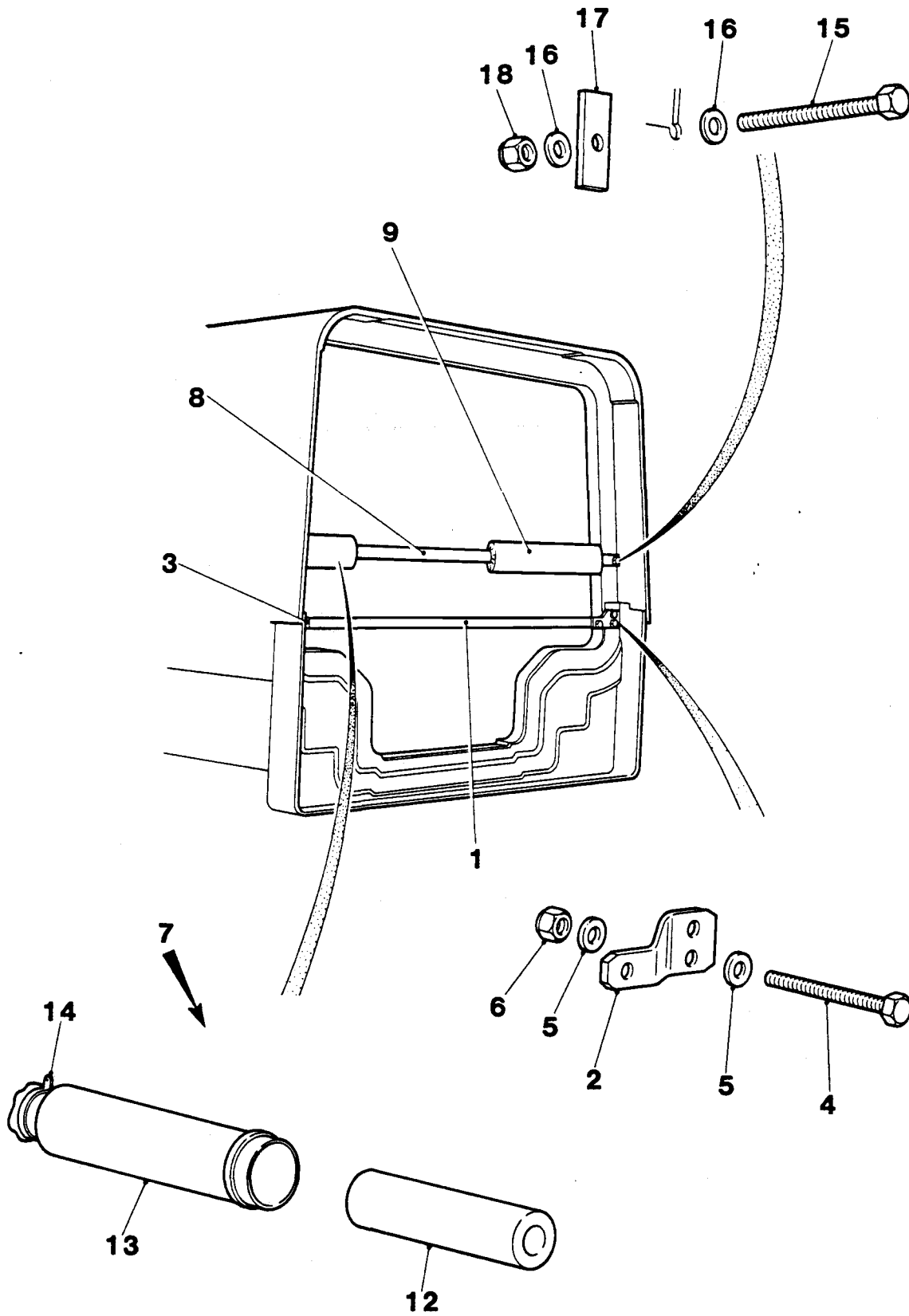


Fig 1 Radio Mounting Bars

Fig Item	ARMY MAN CODE	NATO Stock Number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot- tations
1-			RADIO MOUNTING BARS			
-1	Z5	5820-99-215-3264	. SUPPORT RADIO RECEIVER	11713-011	1	
2	Z5	5340-99-009-0818	. RADIO LOWER MOUNTING BAR BRACKET - lh	11711-011	1	
3	Z5	5340-99-660-4330	. RADIO LOWER MOUNTING BAR BRACKET - rh	11710-011	1	
4	G1	5305-99-136-3259	. SCREW, M8 x 45; hex hd	VSM 13200	6	
5	G1	5310-99-122-6475	. WASHER, M8; plain	GHF 301	12	
6	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	6	
7		NP	. BAR PADDED ASSY	11741-011	1	
8	Z5	9510-99-331-1263	. . RADIO MOUNTING BAR - upper	11712-011	1	
9	Z5	9330-99-219-2479	. . MOUNTING BAR CUSHION - lh	11776-011	1	
NI 10	Z5	9330-99-147-0308	. . MOUNTING BAR CUSHION COVER - lh	11777-011	1	
NI 11	6MT4	5340-99-837-2114	. . STRAP LINE SUPPORTING	543-412	2 1	
12	Z5	9330-99-739-5361	. . MOUNTING BAR CUSHION - rh	11839-011		
13	Z5	9330-99-755-2607	. . MOUNTING BAR CUSHION COVER - rh	11838-011	1	
14	6MT4	5340-99-837-2114	. . STRAP LINE SUPPORTING	543-412	2	
15	G1	5305-99-361-7347	. SCREW, M8 x 55; hex hd	00134-999	2	
16	G1	5310-99-122-6475	. WASHER, plain; M8	GHF 301	4	
17	Z5	5365-99-994-9399	. SPACER, PLATE	11358-011	2	
18	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	2	



CHAPTER 2-2

PARTS LIST

GROUND PLANE ASSEMBLY AND ATTACHMENTS







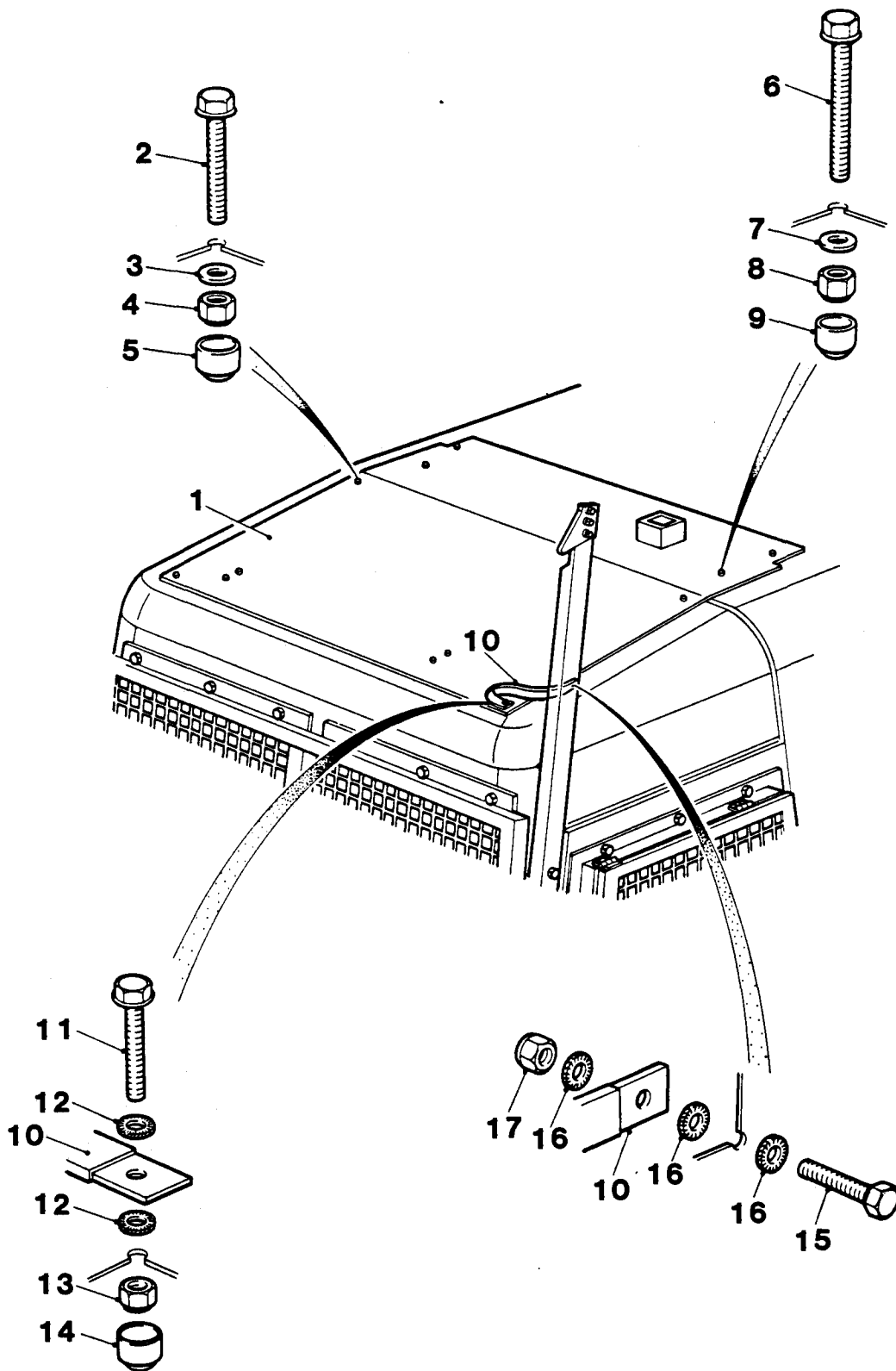


Fig 2 Ground Plane Assembly and Attachments

Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
1-			GROUND PLANE ASSEMBLY AND ATTACHMENTS			
1	Z5	9515-99-875-6888	. GROUND PLANE ASSY	11529-011	1	
2	G1	5305-99-535-3856	. SCREW, M8 x 35; hex hd; flanged	00112-999	3	
3	G1	5310-99-122-6775	. WASHER, M8; plain	GHF 301	3	
4	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	3	
5		TBA	. CAP, M8	02253-983	3	
6	G1	5305-99-136-3259	. SCREW, M8 x 45; hex hd; flanged	VSM 13200	2	
7	G1	5310-99-122-6475	. WASHER, M8; plain	GHF 301	2	
8	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	2	
9		TBA	. CAP, M8	02253-983	2	
10	Z5	5995-99-721-4062	. LEAD ELECTRICAL	11531-011	1	
11	G1	5305-99-535-3856	. SCREW, M8 x 35; hex hd; flanged	00112-999	1	
12	G1	5310-12-124-4341	. SHAKEPROOF WASHER - M8	00383-997	2	
13	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	1	
14		TBA	. CAP, M8	02253-983	1	
15	G1	5305-99-122-5367	. SCREW, M8 x 25; hex hd	1523 657	1	
16	G1	5310-12-124-4341	. SHAKEPROOF WASHER, M8	00383-997	3	
17	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	1	



**CHAPTER 2-3**

**PARTS LIST**

**BOX - ANTENNA MOUNTING ASSEMBLY  
AND CABLE ASSEMBLIES**





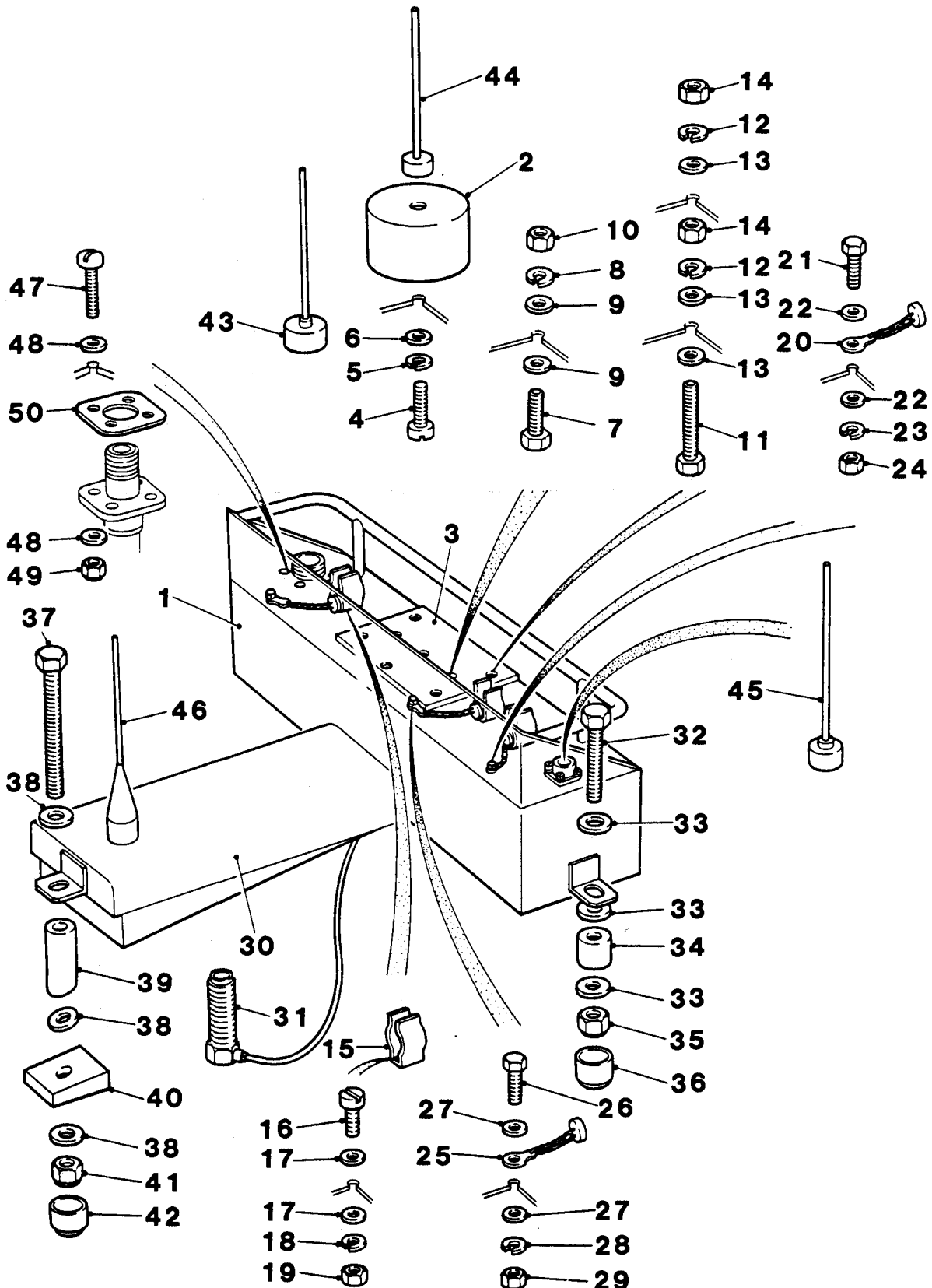


Fig 1 Box Antenna Mounting Assembly



Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
1-	Z5	5820-99-920-8514	. BOX ANTENNA MOUNTING ASSY	7330/001/01/000		
1	Z5	5820-99-885-0914	. . ANTENNA MOUNTING BOX	7330/006/50/000	1	
2	Z5	5820-99-967-5663	. . ANTENNA MATCHING UNIT (AMU) - METALLIC	02310-983	1	
3	Z5	5821-99-577-3203	. . PLATE - ADAPTOR AMU	7330/160/00/284	1	
4	G1	5305-99-122-5359	. . SCREW, M6 x 12; hex hd	9900349	1	
5	G1	5310-99-137-9232	. . WASHER LOCK, M6	7067214	1	
6	G1	5310-99-122-6474	. . WASHER, M6; plain	851007	1	
7	G1	5305-99-122-5359	. . SCREW, M6 x 12; pan hd	900349	3	
8	G1	5310-99-137-9232	. . WASHER LOCK, M6	7067214	3	
9	G1	5310-99-122-6474	. . WASHER, M6, plain	851007	6	
10	G1	5310-99-122-5295	. . NUT, plain; M6	NU7-14Y1	3	
11	G1	5305-99-122-5362	. . SCREW, M6 x 25; hex hd	9923926	4	
12	G1	5310-99-137-9232	. . WASHER LOCK, M6	7067214	8	
13	G1	5310-99-122-6474	. . WASHER, M6, plain	851007	12	
14	G1	5310-99-122-5295	. . NUT, plain; M6	NU7-14Y1	8	
15	Z30	5999-99-011-9868	. . CLIP, electrical	B22708	3	
16	G1	5305-99-135-0695	. . SCREW, MACHINE, metric; steel; pan hd M4 x 10mm lg	406804	3	
17	G1	5310-99-122-8063	. . WASHER, FLAT; steel M4	100	6	
18	G1	5310-99-135-9291	. . WASHER, LOCK, steel; split helical ring; M4	918660	3	
19	G1	5310-99-652-4443	. . NUT, plain; hexagon, metric steel M4	WB1325-1	3	
20	Z32	5935-99-947-0691	. . CAP AND CHAIN (64 lg chain)	BS4183	2	
21	G1	5305-99-762-0138	. . SCREW, MACHINE, metric; steel hex hd M3 x 14mm lg	GE10004	2	
22	G1	5310-99-122-8062	. . WASHER, flat; steel M3	34-2602	4	
23	G1	5310-99-135-9290	. . WASHER, LOCK, steel; split helical ring M3	810008	2	
24	G1	5310-99-137-7323	. . NUT PLAIN, hexagon metric; steel M3	ST24764	2	
25	Z32	5935-99-651-6843	. . CAP AND CHAIN (125 lg chain)	3888-001-028	1	
26	G1	5305-99-762-0138	. . SCREW, MACHINE, metric; steel; hex hd; M3 x 14mm lg		1	
27	G1	5310-99-122-8062	. . WASHER, flat; steel M3	34-2602	2	
28	G1	5310-99-135-9290	. . WASHER, LOCK, steel; split helical ring M3	810008	1	
29	G1	5310-99-137-7323	. . NUT, PLAIN, hexagon metric; steel M3	ST24764	1	

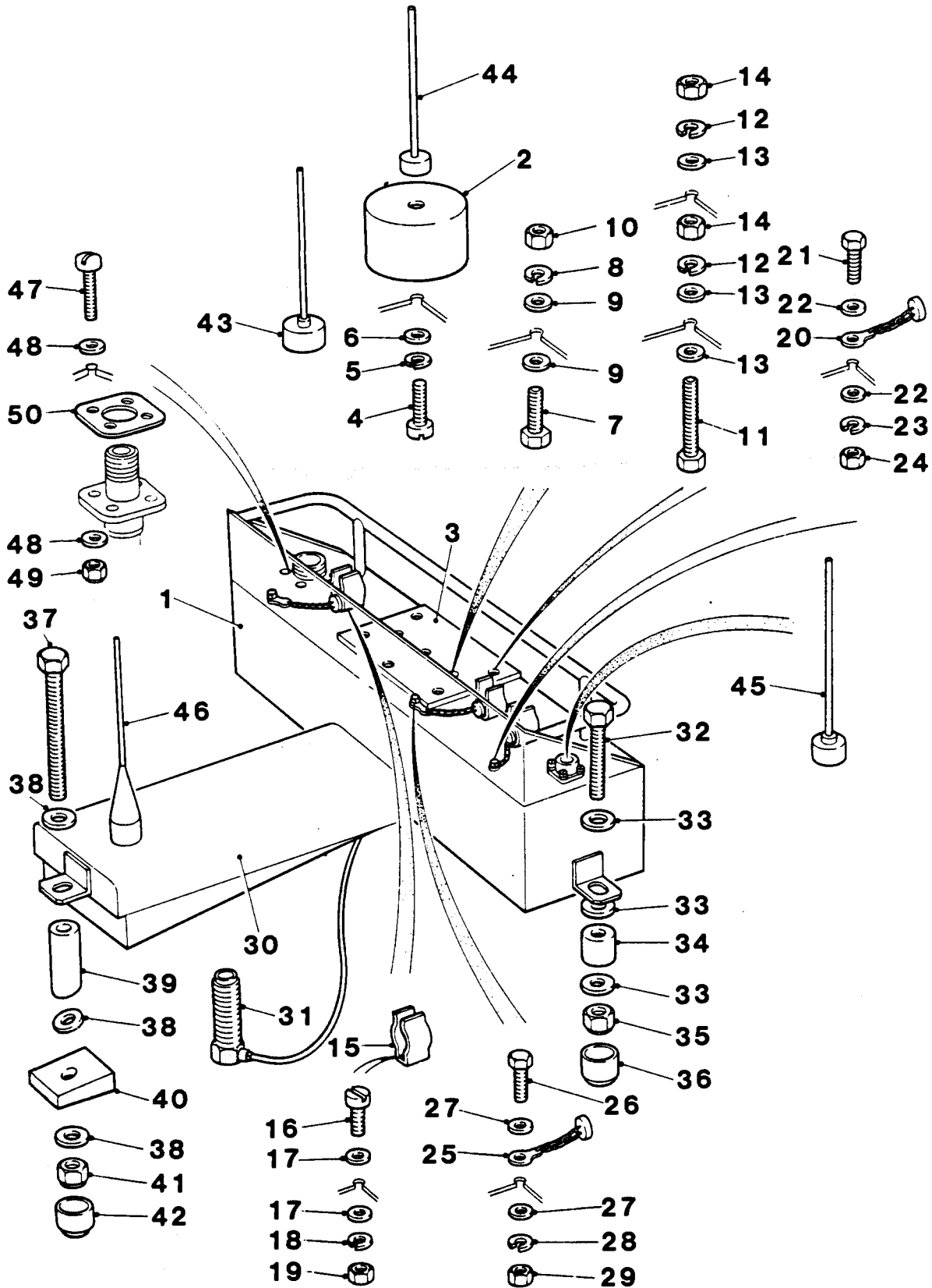


Fig 1 Box Antenna Mounting Assembly

Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
1-			. BOX ANTENNA MOUNTING ASSY (cont)	7330/001/01/000		
30	Z5	5820-99-616-7282	. ANTENNA BOX FRONT COVER	11409/011	1	
31	Z42	5985-99-780-6789	. ANTENNA BASE BOOT ASSY	ST 791842	1	
32	G1	5305-99-361-7347	. SCREW, MACHINE, metric; steel; hex hd; M8 x 55	00134-999	2	
33	G1	5310-99-122-6475	. WASHER, PLAIN, M8	GHF 301	4	
34	Z5	5365-99-727-8126	. SPACER, SLEEVE	11172-011	2	
35	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	2	
36		TBA	. CAP, M8	02253-983	2	
37	G1	5305-99-917-5931	. BOLT, MACHINE, metric; steel; hex hd; M8 x 85	00057-999	1	
38	G1	5310-99-122-6475	. WASHER, PLAIN, M8	GHF 301	3	
39	Z5	5820-99-147-0279	. SPACER, FRONT	11166-011	1	
40	Z5	5310-99-256-3503	. WASHER, BEVEL	11168-011	1	
41	G1	5310-99-122-5496	. NUT, M8; nyloc	394-367	1	
42		TBA	. CAP, M8	02253-983	1	
43	Z5	5985-99-967-5654	. ANTENNA WHITE	IN 0793	1	
44	Z5	6350-99-966-9488	. ANTENNA BLUE	IN 0349	1	
45	Z5	5895-99-282-1516	. ANTENNA BROWN	IN 0909	1	
46	Z42	5985-99-780-6778	. WHIP ANTENNA VHF	02291-983	1	
47	G1	5305-99-135-0418	. SCREW, MACHINE, metric; steel pan hd M3 x 16 slotted	880847	8	
48	G1	5310-99-122-8062	. WASHER, PLAIN, M3	34-2602	16	
49	G1	5310-99-124-4124	. NUT, M3 nyloc	PPY-036116	8	
50		TBA	. GASKET, flange	41 11966-011	2	

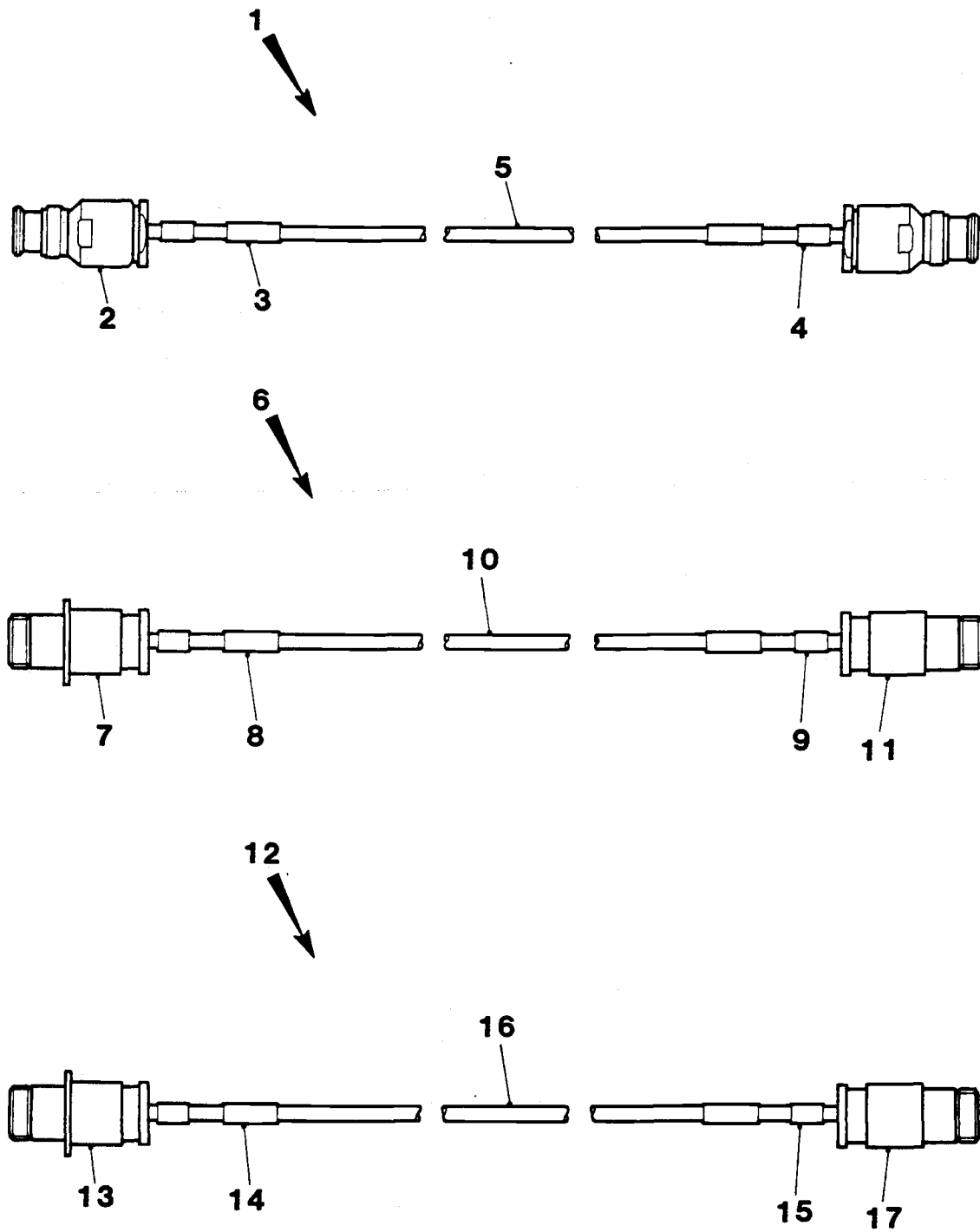


Fig 2 Box Antenna Mounting Assembly - Cable Assemblies

Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
2-			BOX ANTENNA MOUNTING ASSEMBLY - CABLE ASSEMBLIES			
1	Z5	5995-99-075-4723	. CABLE ASSEMBLY, BLUE	7330/142/99/000/3	1	
2	Z5	5935-99-574-1054	. . PLUG, BNC, FREE	B35A03 H001X99	2	
3		TBA	. . SLEEVE IDENTIFICATION	RN30002 4/8	2	
4		TBA	. . SLEEVE, heat shrink; blue	RN30002 4/8	2	
5	Z1	6145-99-014-9538	. . CABLE, RADIO, FREQUENCY	S312515	AR	
6	Z5	5995-99-125-5865	. CABLE ASSEMBLY, WHITE	7330/70/92/000/1	1	
7	Z32	5935-99-439-8781	. . CONNECTOR, fixed N type	25N-50-7-8C	1	
8		TBA	. . SLEEVE IDENTIFICATION	RN30002 4/8	2	
9		TBA	. . SLEEVE, heat shrink; white	RN30002 4/8	2	
10	Z1	6145-99-014-9538	. . CABLE, RADIO FREQUENCY	S312515	AR	
11	Z32	5935-99-001-3500	. . CONNECTOR, free, N type	B46427	1	
12	Z5	5995-99-522-0461	. CABLE ASSEMBLY (BROWN)	7330/69/91/000/1	1	
13	Z32	5935-99-439-8781	. . CONNECTOR, fixed N type	25N-50-7-8C	1	
14		TBA	. . SLEEVE IDENTIFICATION	RN30002 4/8	2	
15		TBA	. . SLEEVE, heat shrink, brown	RN30002 4/8	2	
16	Z1	6145-99-014-9538	. . CABLE, RADIO FREQUENCY	S312515	AR	
17	Z32	5935-99-001-3500	. . CONNECTOR, free, N type	B46427	1	



**CHAPTER 2-4**

**PARTS LIST**

**IMPACT PLATE/MOUNTING FRAME ASSEMBLY AND  
CABLE STOWAGE INSTALLATION**







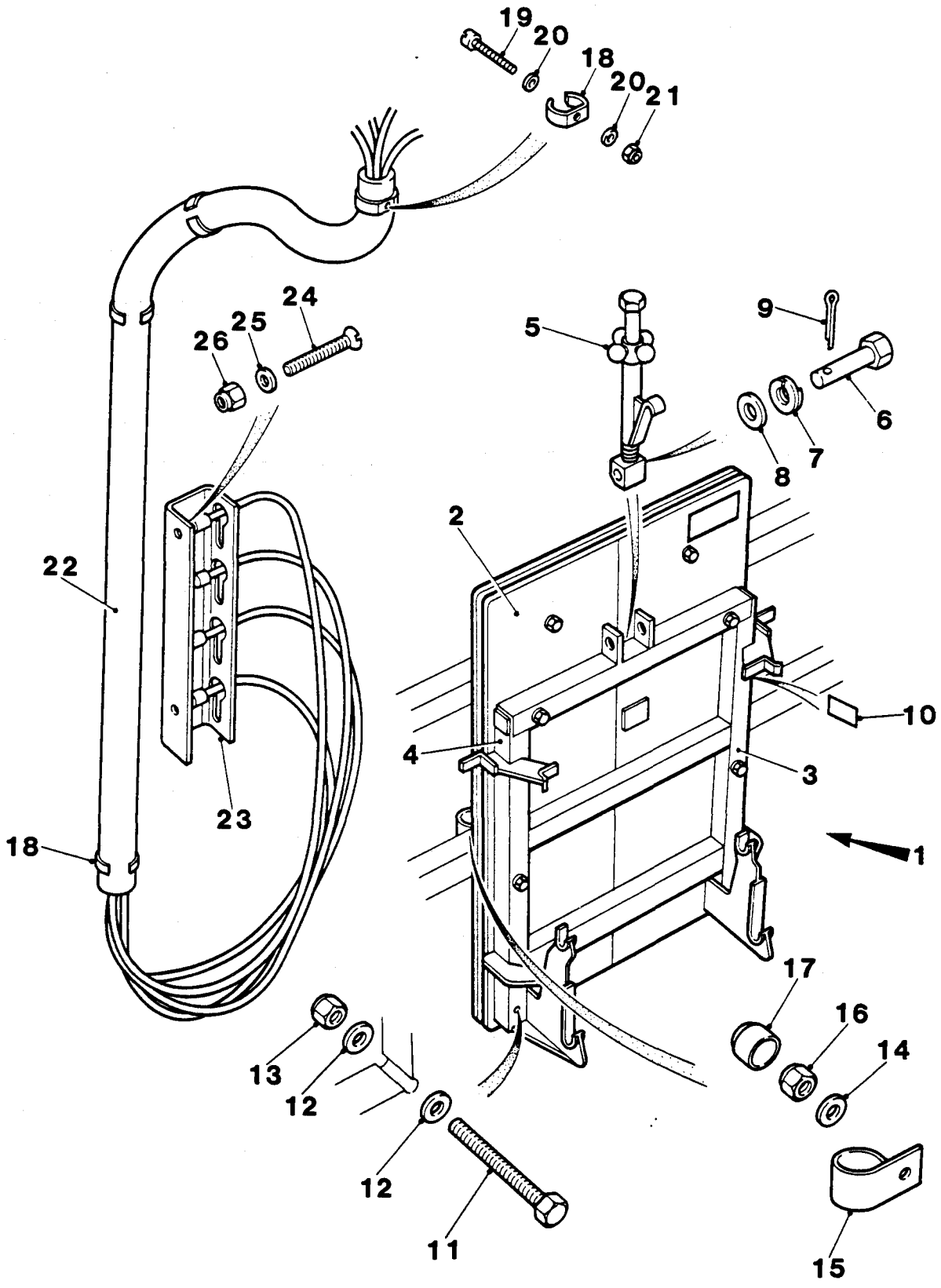


Fig 1 Impact Plate/Mounting Frame Assembly,  
and Cable Stowage Installation

Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
1-			IMPACT PLATE/MOUNTING FRAME ASSY, and CABLE STOWAGE INSTALLATION		REF	
1		NP	. IMPACT PLATE/MOUNTING FRAME ASSY	11714-011	1	
2	Z5	5820-99-513-6171	. . IMPACT PLATE ASSEMBLY	7330/003/03/000	1	See fig 2
3	Z5	5820-99-513-5186	. . MOUNTING FRAME ASSEMBLY	7330/002/02/000	1	
4	Z5	5895-99-304-1573	. . . FRAME, ASSEMBLY	7330/008/52/000	1	
5	Z5	5999-99-370-9372	. . . SPRING CLAMP ASSEMBLY	7330/83/21/000	1	
6	Z5	5315-99-441-7496	. . . PIN, STRAIGHT, HEADED	7330/84/00/247	1	
7	G1	5310-99-135-9325	. . . WASHER, LOCK, double coil; M10		4	
8	G1	5310-99-124-8086	. . . WASHER, flat; light M10		4	
9	G1	5315-99-138-2200	. . . PIN, COTTER, split; 1.6mm dia x 16mm lg	BS 1574	1	
10	Z99	5820-99-622-4910	. . . MODIFICATION RECORD PLATE	SDA 213711	1	
11	G1	5305-99-136-3259	. . SCREW, MACHINE, metric; steel hex hd M8 x 45mm lg	VSM13 200	6	
12	G1	5310-99-122-6475	. . WASHER, plain, M8	GHF 301	12	
13	G1	5310-99-122-5496	. . NUT, M8; nyloc	394-367	6	
14	G1	5305-99-122-6475	. . WASHER, plain, M8	GHF 301	4	
15	Z42	5999-99-011-9868	. . CLIP ELECTRICAL	BS 22708	1	Hellerman D20
16	G1	5310-99-122-5496	. . NUT, M8; nyloc	394-367	4	
17		TBA	. . CAP, M8	02253-983	4	
18	G1	5340-99-943-2875	. CLIP SPRING TENSION	00467-996	4	
19	G1	5305-99-135-0418	. SCREW, MACHINE, metric; steel; pan hd slotted M3 x 16	880847	4	
20	G1	5310-99-122-8062	. WASHER, plain, M3	34-2602	8	
21	G1	5310-99-124-4124	. NUT, M3, nyloc	PPY 036116 41	4	
22	Z5	5975-99-223-5315	. CONDUIT, NON-METALLIC, FLEXIBLE	11406-011	1	
23	Z5	5820-99-701-4521	. BRACKET CABLE STOWAGE	11651-011	1	
24	G1	5305-99-122-3003	. SCREW, steel; csk; pozi; M5 x 25	BS 4183	2	
25	G1	5310-99-122-3032	. WASHER, plain, M5	1467846	2	
26	G1	5310-99-122-5494	. NUT, M5; nyloc	00290-998	2	

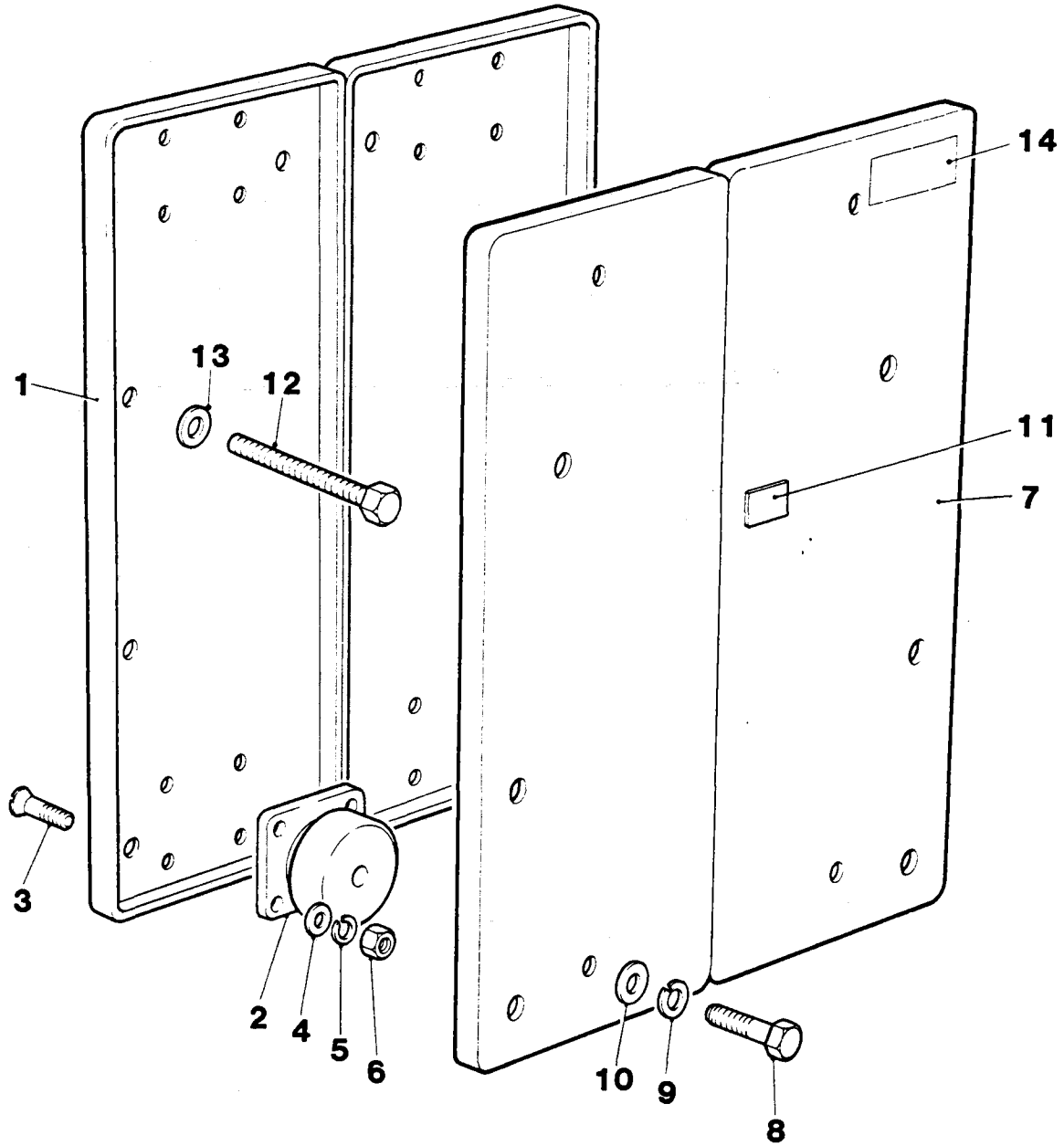


Fig 2 Impact Plate Assembly

Fig Item	ARMY MAN CODE	NATO Stock number	Item Name and Description	Part No/ Drawing No.	No. Off	Annot-ations
2-			IMPACT PLATE/MOUNTING FRAME ASSY AND CABLE STOWAGE INSTALLATION			
		NP	. IMPACT PLATE/MOUNTING FRAME ASSY	11714- 011		
			. . IMPACT PLATE ASSEMBLY	7330/003	REF	
1	Z5	5820-99-950-3760	. . . PLATE MOUNTING	/03/000 7330/024	1	
2	6MT1	5340-99-793-1952	. . . MOUNT, RESILIENT	/00/201 SG1015	4	
3	G1	5305-99-135-0499	. . . SCREW, MACHINE, csk hd; M5 x 12mm lg	-TM6 BS 4183	16	
4	G1	5310-99-122-8064	. . . WASHER, flat; M5	BS 4320	32	
5	G1	5310-99-135-9292	. . . WASHER, LOCK, split helical ring; single coil; M5	BS 4464	16	
6	G1	5310-99-135-0786	. . . NUT, plain; M5	BS 3692	16	
7	Z5	5820-99-234-2845	. . . PLATE, IMPACT	7330/023	1	
8	G1	5305-99-122-8750	. . . SCREW, MACHINE, hex hd; M6 x 20mm lg	/00/200 BS 4183	4	
9	G1	5310-99-135-4101	. . . WASHER, LOCK, split helical ring; single coil; M6	BS 4464	4	
10	G1	5310-99-122-6474	. . . WASHER, flat; M6	BS 4320	4	
11	Z99	9905-99-622-4910	. . . MODIFICATION RECORD PLATE		1	
12	G1	5305-99-136-3259	. . . SCREW, M8 x 45; hex hd	VSM 13200	4	
13	G1	5310-99-122-6475	. . . WASHER, plain; M8	GHF 301	4	
14	Z5	9905-99-768-0827	. PLATE INSTRUCTION	7330/139	1	
				/00/285		



**CHAPTER 3**  
**INDEX OF NATO STOCK NUMBERS**





INDEX OF NATO STOCK NUMBERS

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5310-12-124-4341	2-2/5-16	5310-99-135-9290	2-3/5-28	5340-99-943-2875	2-4/5-18
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5935-99-001-3500	2-3/9-17	5310-99-135-9292	2-4/7-5	5820-99-950-3760	2-4/7-1
5340-99-009-0818	2-1/5-2	5310-99-135-9325	2-4/5-7	6350-99-966-9488	2-3/7-44
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5310-99-122-5494	2-4/5-26	5975-99-223-5315	2-4/5-22		
5310-99-122-5496	2-1/5-6	5820-99-234-2845	2-4/7-7		
5310-99-122-5496	2-1/5-18	5310-99-256-3503	2-3/7-40		
5310-99-122-5496	2-2/5-4	5895-99-282-1516	2-3/7-45		
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5310-99-122-5496	2-3/7-35	5305-99-361-7347	2-3/7-32		
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5310-99-122-5496	2-4/5-16	5935-99-439-8781	2-3/9-13		
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5310-99-122-6474	2-3/5-13	5820-99-513-5186	2-4/5-3		
5310-99-122-6474	2-4/7-10	5820-99-513-6171	2-4/5-2		
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5310-99-122-8062	2-3/7-48	5820-99-701-4521	2-4/5-23		
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5310-99-122-8063	2-3/5-17	5365-99-727-8126	2-3/7-34		
5310-99-122-8064	2-4/7-4	9330-99-739-5361	2-1/5-12		
5305-99-122-8750	2-4/7-8	9330-99-755-2607	2-1/5-13		
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5310-99-124-4124	2-4/5-21	5305-99-762-0138	2-3/5-26		
5310-99-124-8086	2-4/5-8	9905-99-768-0827	2-4/7-14		
5995-99-125-5865	2-3/9-6	5895-99-780-6778	2-3/7-46		
5305-99-135-0418	2-3/7-47	5985-99-780-6789	2-3/7-31		
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INDEX OF PART NUMBERS/DRAWING NUMBERS

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**AIR DEFENCE COMMAND AND INFORMATION SYSTEM  
(ADCIS)**

**INSTALLATIONS IN LAND ROVER 110 (FFR)**

**ILLUSTRATED PARTS CATALOGUE**

**REPRINTED INCORPORATING AMDT 1**

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**AMENDMENT RECORD**

To record the incorporation of an Amendment List in the publication, sign against the appropriate A.L. No. and insert the date of incorporation.

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4	Index of Part Numbers/Drawing Numbers

**PREFACE****NOTE**

A VIK for Land Rover Wolf has been designed to supersede Land Rover 90/110 (GS/FFR) ADCIS fits.

**INTRODUCTION**

1 This Illustrated Parts Catalogue (IPC) is designed as an aid to the identification of component parts or assemblies of parts of the equipment, and to provide information necessary for demanding spares.

2 This IPC may list some or all of the parts comprising the equipment concerned, but only those parts assigned a NATO Stock Number, Service Catalogue or Reference Number will normally be available as spares. Should there be a requirement for an item not assigned a number, demands may be submitted quoting the AESP, Item Number, Figure Reference and Item Name. Where a manufacturer's reference is known this should also be quoted.

**Quantities**

3 The figure in the 'Number off' column specifies the quantity for the unit (or assembly, sub-assembly etc); it does not indicate the quantity to be demanded.

**Demands**

4 When demanding Spare Parts the following particulars must be quoted:

- 4.1 Management Code (Man Code).
- 4.2 NATO Stock Number.
- 4.3 Item Name.
- 4.4 Name of Equipment for which part is required.
- 4.5 Manufacturer's reference, if known.

Alternatives quoted apply only to the Equipment covered by this IPC.

**Modification State**

5 When appropriate, a list at the front of each chapter or sub-chapter will indicate the modification numbers which have been incorporated in the IPC by amendment action, subsequent to initial issue.

**Annotations**

6

- 6.1 AR When appearing in the 'Number off' column indicates that the quantity is 'as required'
- 6.2 NI (Not Illustrated) when appearing with a number in the 'Fig Item' column indicates that the item is not illustrated.
- 6.3 \* (Obsolescent stock) - an asterisk in the 'Part Number' column indicates an obsolescent item, no further purchase of which will be made but stocks are to be used until exhausted.
- 6.4 NP (Non-provisioned) - when appearing in the 'NATO Stock Number' column indicates that the item may be illustrated, but not available from stock as a replacement item.

6.5 LM Indicates local manufacture, ie a part that is to be manufactured by Service units from local resources.

6.6 Ref In the 'Number off' column indicates that the item is listed for reference purposes only.

### Abbreviations

7 Abbreviations and symbols used in this IPC have been approved and are listed separately.

### Amendments

8 Amendments to this catalogue will be published as and when necessary. They will be numbered consecutively and the 'Amendment Record Sheet' is to be completed for each Amendment List embodied.

9 New or amended material will be highlighted by side lining to show the extent of the amendment.

### Indentations

10 Items are listed in a logical assembly/disassembly order and are indented by the 'Dot System' in which each 'dot' depicts the relationship of the item to the main assembly.

#### MAIN ASSEMBLY

Attaching parts for main assembly

- . FIRST LEVEL OF BREAKDOWN (Sub-assembly or detail part of main assembly)
  - . Attaching parts for first level
- .. SECOND LEVEL OF BREAKDOWN (Sub-sub-assembly or detail part of Sub-sub-assembly)
  - .. Attaching parts for second level
- ... THIRD LEVEL OF BREAKDOWN (Sub-sub-sub-assembly or detail part of Sub-sub-assembly)
  - ... Attaching parts for third level

### NOTES

- (1) Attaching parts for the Main Assembly are listed at the end of the text of the Main Assembly.
- (2) Catalogue numbers quoted in this catalogue will supersede any number that may have been allotted previously.

### Publication Information

11 Should any comment on the contents of the AESP be necessary a locally produced copy of the FORM 10 which can be found at the last leaf of this publication, this should be completed and forwarded to the Publication Approving Authority at the address already shown on the form, in accordance with 0100-P-011-013.

### Abbreviations and Symbols

ADCIS	Air Defence Command and Information System
A.L.	Amendment List
BADLO	Brigade Air Defence Liaison Officer
BeCu	Beryllium Copper
CO	Change Over
CRADLO	Corps (Rear) Air Defence Liaison Officer
csk	countersunk
ext	external
FFR	Fitted For Radio
hd	head
hex	hexagonal
IDT	Interactive Display Terminal

IKEE	Installation Kit Electronics Equipment
int	internal
IPC	Illustrated Parts Catalogue
lg	long
LH	Left Hand
NC	Not connected
MCE	Multi-purpose Communications Equipment
N.D	Not Drawn
N.I.	Not Illustrated
No.	Number
pl	plated
RH	Right Hand
rnd	round
skt	socket



Publication Information

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Abbreviations and Symbols

ADCIS	Air Defence Command and Information System
A.L.	Amendment List
BADLO	Brigade Air Defence Liaison Officer
BeCu	Beryllium Copper
CO	Change Over
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ext	external
FFR	Fitted For Radio
hd	head
hex	hexagonal
IDT	Interactive Display Terminal
IKEE	Installation Kit Electronics Equipment
int	internal
IPC	Illustrated Parts Catalogue
lg	long
LH	Left Hand
NC	Not connected
MCE	Multi-purpose Communications Equipment
N.D	Not Drawn
N.I.	Not Illustrated
No.	Number
p1	plated
RH	Right Hand
rnd	round
skt	socket





**CHAPTER 1**  
**INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES**



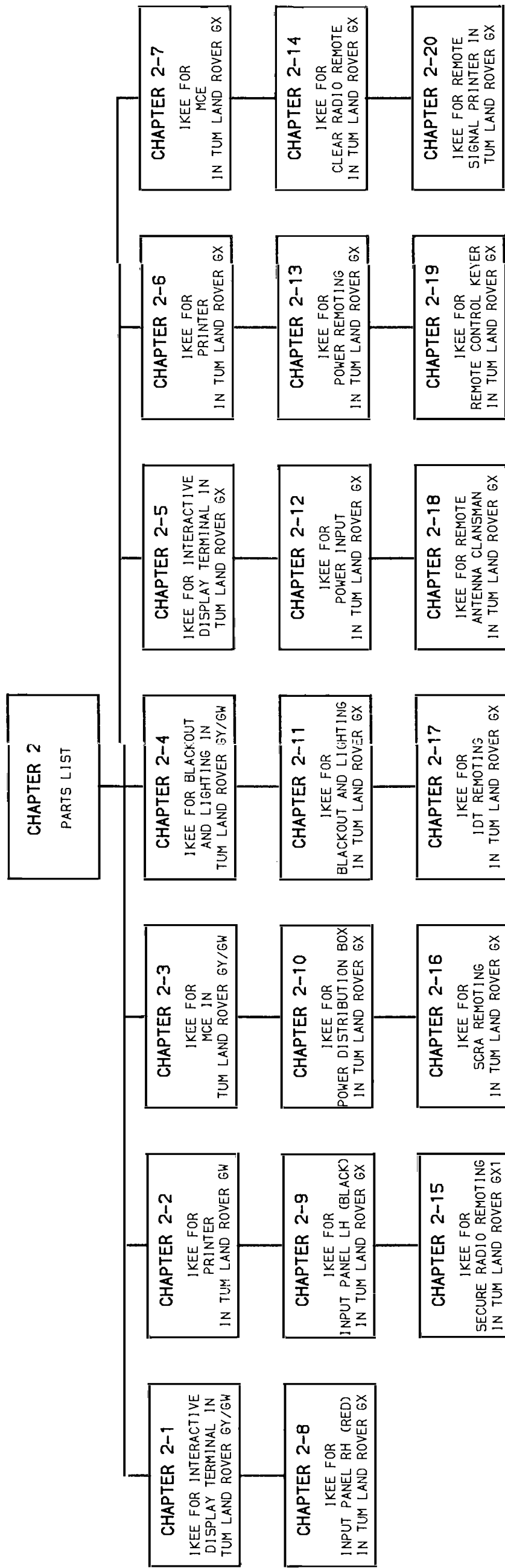
**GENERAL****VEHICLE IDENTIFICATION****NOTE**

A VIK for Land Rover Wolf has been designed to supersede Land Rover 90/110 (GS/FFR) ADCIS fits.

1 The Air Defence Command Information System (ADCIS) installations in Land Rover (FFR), cover four types of vehicle role. During the design phase of the installation, each vehicle was allocated a code which is referenced throughout this publication. The following Table gives a cross reference, between the ADCIS role of the installed vehicle and the code used on the design documentation, CES's, and the drawing set.

**TABLE 1 VEHICLE CODES**

<b>Code</b>	<b>Vehicle Role</b>
GY	Brigade Air Defence Officer (BADLO) / Brigade Air Defence Commander (BADCOMD)
GW	Corps Rear Air Defence Liaison Officer (CRADLO) / Rear Support Command (RSC)
GX1	Regimental Command Post (RCP)
GX2	Regimental Workshop (WKSP)
GX	RCP/WKSP



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Chapter 1-1  
INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM  
LAND ROVER GY  
BRIGADE AIR DEFENCE LIAISON OFFICER (BADLO)





INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GY (BADLO)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
1	Z95	7025-99-450-1078	IKEE for Interactive Display Terminal in TUM Land Rover GY/GW ADCIS	FV 2162155	2-1
	Z95	5820-99-030-1281		CES 46546	REF
2	Z95	7025-99-008-0595	IKEE for MCE in TUM Land Rover GY/GW (ADCIS)	FV 2162154	2-3
	Z95	5820-99-225-5097		CES 46545	REF
3	Z95	7025-99-052-3921	IKEE for Blackout and Lighting in TUM Land Rover GY/GW (ADCIS)	FV 2162153	2-4
	Z95	5820-99-894-0764		CES 46544	REF



Chapter 1-2  
INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM  
LAND ROVER GW  
CORPS REAR AIR DEFENCE LIAISON OFFICER (CRADLO)

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INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GW (CRADLO)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
1	Z95	7025-99-450-1078	IKEE for Interactive Display Terminal in TUM Land Rover GY/GW ADCIS	FV 2162155	2-1
	Z95	5820-99-030-1281		CES 46546	REF
2	Z95	7025-99-396-0138	IKEE for Printer in TUM Land Rover GW (ADCIS)	FV 2162156	2-2
	Z95	5820-99-131-7519		CES 46547	REF
3	Z95	7025-99-008-0595	IKEE for MCE in TUM Land Rover GY/GW (ADCIS)	FV 2162154	2-3
	Z95	5820-99-225-5097		CES 46545	REF
4	Z95	7025-99-052-3921	IKEE for Blackout and Lighting in TUM Land Rover GY/GW (ADCIS)	FV 2162153	2-4
	Z95	5820-99-894-0764		CES 46544	REF



Chapter 1-3  
INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM  
LAND ROVER GX1  
REGIMENTAL COMMAND POST (RCP)





INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GX1 (RCP)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
1	Z95	7025-99-803-6658	IKEE for Interactive Display Terminal in TUM Land Rover GX (ADCIS)	FV 2162206	2-5
	Z95	5820-99-020-6882		CES 465473	REF
2	Z95	7025-99-738-9454	IKEE for Printer in TUM Land Rover GX (ADCIS)	FV 2162192	2-6
	Z95	5820-99-926-3403		CES 46563	REF
3	Z95	7025-99-096-2824	IKEE for MCE in TUM Land Rover GX (ADCIS)	FV 2162193	2-7
	Z95	5820-99-940-5050		CES 46564	REF
4	Z95	7025-99-708-9571	IKEE for Input Panel RH (Red) in TUM Land Rover GX (ADCIS)	HCT 129041	2-8
	Z95	5820-99-807-1567		CES 46575	REF
5	Z95	7025-99-701-4419	IKEE for Input Panel LH (Black) in TUM Land Rover GX (ADCIS)	HCT 129042	2-9
	Z95	5820-99-320-4722		CES 46576	REF
6	Z95	7025-99-460-8754	IKEE for Power Distribution Box in TUM Land Rover GX (ADCIS)	FV 2162209	2-10
	Z95	5820-99-811-5128		CES 46574	REF
7	Z95	7025-99-147-0159	IKEE for Blackout and Lighting in TUM Land Rover GX (ADCIS)	FV 2162194	2-11
	Z95	5820-99-755-4994		CES 46565	REF
8	Z95	7025-99-915-3738	IKEE for Power Input in TUM Land Rover GX (ADCIS)	FV 2162204	2-12
	Z95	5820-99-602-1243		CES 46572	REF
9	Z95	7025-99-887-3709	IKEE for Power Remoting (IDT and Penthouse) in TUM Land Rover GX (ADCIS)	FV 2162199	2-13
	Z95	5820-99-535-3850		CES 46569	REF
10	Z95	7025-99-147-0160	IKEE for Clear Radio Remote in TUM Land Rover GX (ADCIS)	FV 2162197	2-14
	Z95	5820-99-438-7298		CES 46578	REF

INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GX1 (RCP) (continued)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
11	Z95	7025-99-382-6077	IKEE for Secure Radio Remoting in TUM Land Rover GX1 (ADCIS)	FV 2162196	2-15
	Z95	5820-99-660-5433		CES 46567	REF
12	Z95	7025-99-477-4889	IKEE for SCRA Antenna Remoting in TUM Land Rover GX (ADCIS)	FV 2162202	2-16
	Z95	5820-99-660-5434		CES 46570	REF
13	Z95	7025-99-513-6065	IKEE for IDT Remoting in TUM Land Rover GX (ADCIS)	FV 2162195	2-17
	Z95	5820-99-256-4027		CES 46566	REF
14	Z95	7025-99-477-4882	IKEE for Remote Antenna Clansman in TUM Land Rover GX (ADCIS)	FV 2162198	2-18
	Z95	5820-99-256-4028		CES 46568	REF
15	Z95	7025-99-660-4129	IKEE for Remote Control Keyer in TUM Land Rover GX (ADCIS)	FV 2162203	2-19
	Z95	5820-99-547-7722		CES 46571	REF
16	Z95	7025-99-595-6447	IKEE for Remote Signal Printer in TUM Land Rover GX (ADCIS)	FV 2162210	2-20
				CES 46880	REF

Chapter 1-4  
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OF ADCIS EQUIPMENT INTO TUM  
LAND ROVER GX2  
REGIMENTAL WORKSHOP (WKSP)

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INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GX2 (WKSP)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
1	Z95	7025-99-803-6658	IKEE for Interactive Display Terminal in TUM Land Rover GX (ADCIS)	FV 2162206	2-5
	Z95	5820-99-020-6882		CES 46573	REF
2	Z95	7025-99-738-9454	IKEE for Printer in TUM Land Rover GX (ADCIS)	FV 2162192	2-6
	Z95	5820-99-926-3403		CES 46563	REF
3	Z95	7025-99-096-2824	IKEE for MCE in TUM Land Rover GX (ADCIS)	FV 2162193	2-7
	Z95	5820-99-940-5050		CES 46564	REF
4	Z95	7025-99-708-9571	IKEE for Input Panel RH (Red) in TUM Land Rover GX (ADCIS)	HCT 129041	2-8
	Z95	5820-99-807-1567		CES 46575	REF
5	Z95	7025-99-701-4419	IKEE for Input Panel LH (Black) in TUM Land Rover GX (ADCIS)	HCT 129042	2-9
	Z95	5820-99-320-4722		CES 46576	REF
6	Z95	7025-99-460-8754	IKEE for Power Distribution Box in TUM Land Rover GX (ADCIS)	FV 2162209	2-10
	Z95	5820-99-811-5128		CES 46574	REF
7	Z95	7025-99-147-0159	IKEE for Blackout and Lighting in TUM Land Rover GX (ADCIS)	FV 2162194	2-11
	Z95	5820-99-755-4994		CES 46565	REF
8	Z95	7025-99-915-3738	IKEE for Power Input in TUM Land Rover GX (ADCIS)	FV 2162204	2-12
	Z95	5820-99-602-1243		CES 46572	REF
9	Z95	7025-99-887-3709	IKEE for Power Remoting (IDT and Penthouse) in TUM Land Rover GX (ADCIS)	FV 2162199	2-13
	Z95	5820-99-535-3850		CES 46569	REF
10	Z95	7025-99-147-0160	IKEE for Clear Radio Remote in TUM Land Rover GX (ADCIS)	FV 2162197	2-14
	Z95	5820-99-438-7298		CES 46578	REF

INDEX OF ASSEMBLIES AND SUB-ASSEMBLIES  
OF ADCIS EQUIPMENT INTO TUM LAND ROVER GX2 (WKSP)(continued)

Item	Army Man Code	Nato Stock No. or Catalogue No.	Item Name	Part No./ Drawing No.	Location in Chap 2 or Separate Sched.No.
11	Z95	7025-99-477-4889	IKEE for SCRA Antenna Remoting in TUM Land Rover GX (ADCIS)	FV 2162202	2-16
	Z95	5820-99-660-5434		CES 46570	REF
12	Z95	7025-99-513-6065	IKEE for IDT Remoting in TUM Land Rover GX (ADCIS)	FV 2162195	2-17
	Z95	5820-99-256-4027		CES 46566	REF
13	Z95	7025-99-477-4882	IKEE for Remote Antenna Clansman in TUM Land Rover GX (ADCIS)	FV 2162198	2-18
	Z95	5820-99-256-4028		CES 46568	REF
14	Z95	7025-99-660-4129	IKEE for Remote Control Keyer in TUM Land Rover GX (ADCIS)	FV 2162203	2-19
	Z95	5820-99-547-7722		CES 46571	REF
15	Z95	7025-99-595-6447	IKEE for Remote Signal Printer in TUM Land Rover GX (ADCIS)	FV 2162210	2-20
				CES 46880	REF



Chapter 2  
PARTS LIST











Chapter 2-1

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-450-1078 (FV 2162155)

INTERACTIVE DISPLAY TERMINAL  
in TUM Land Rover GY/GW (ADCIS)  
5820-99-030-1281 (CES 46546)

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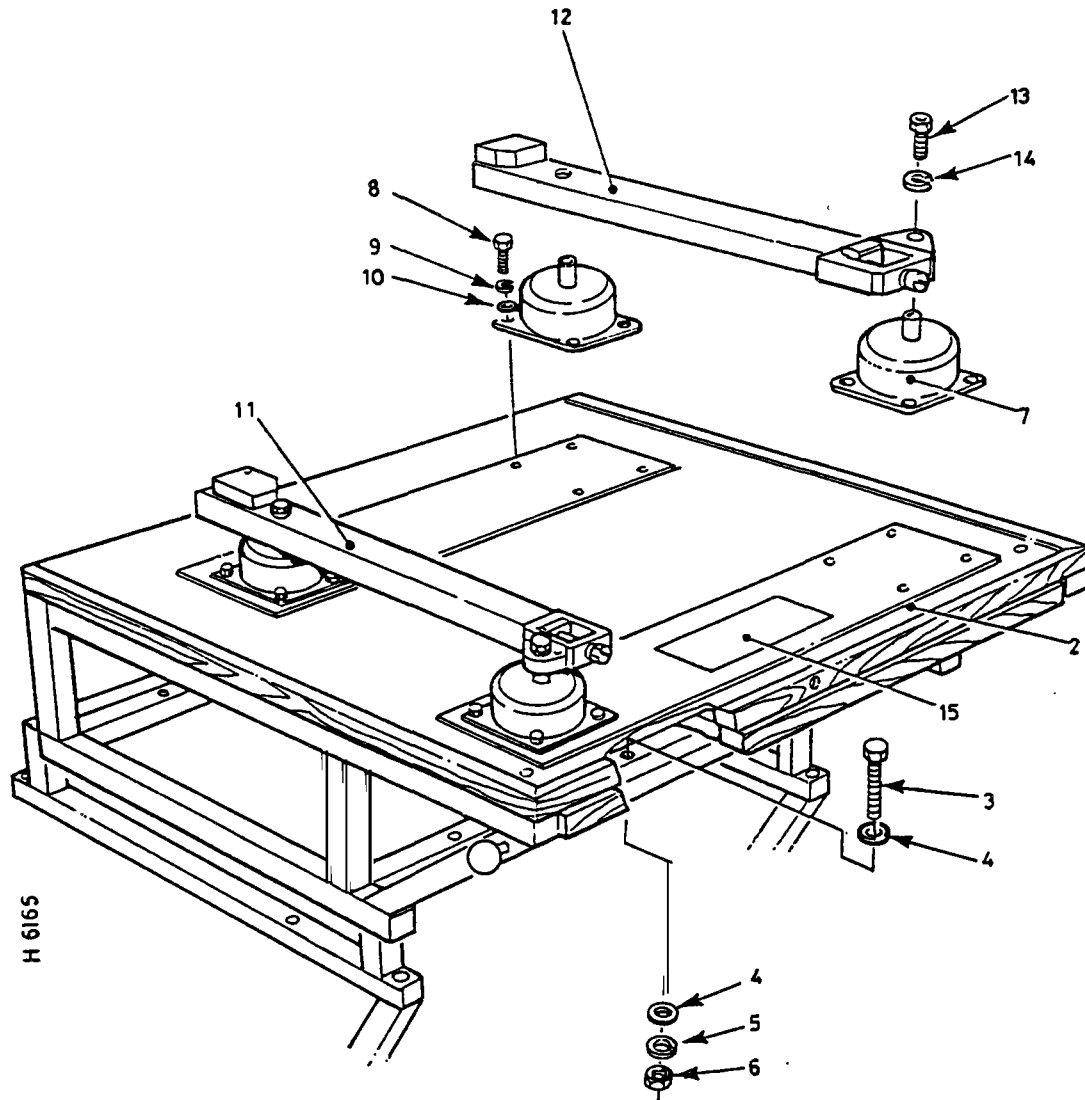
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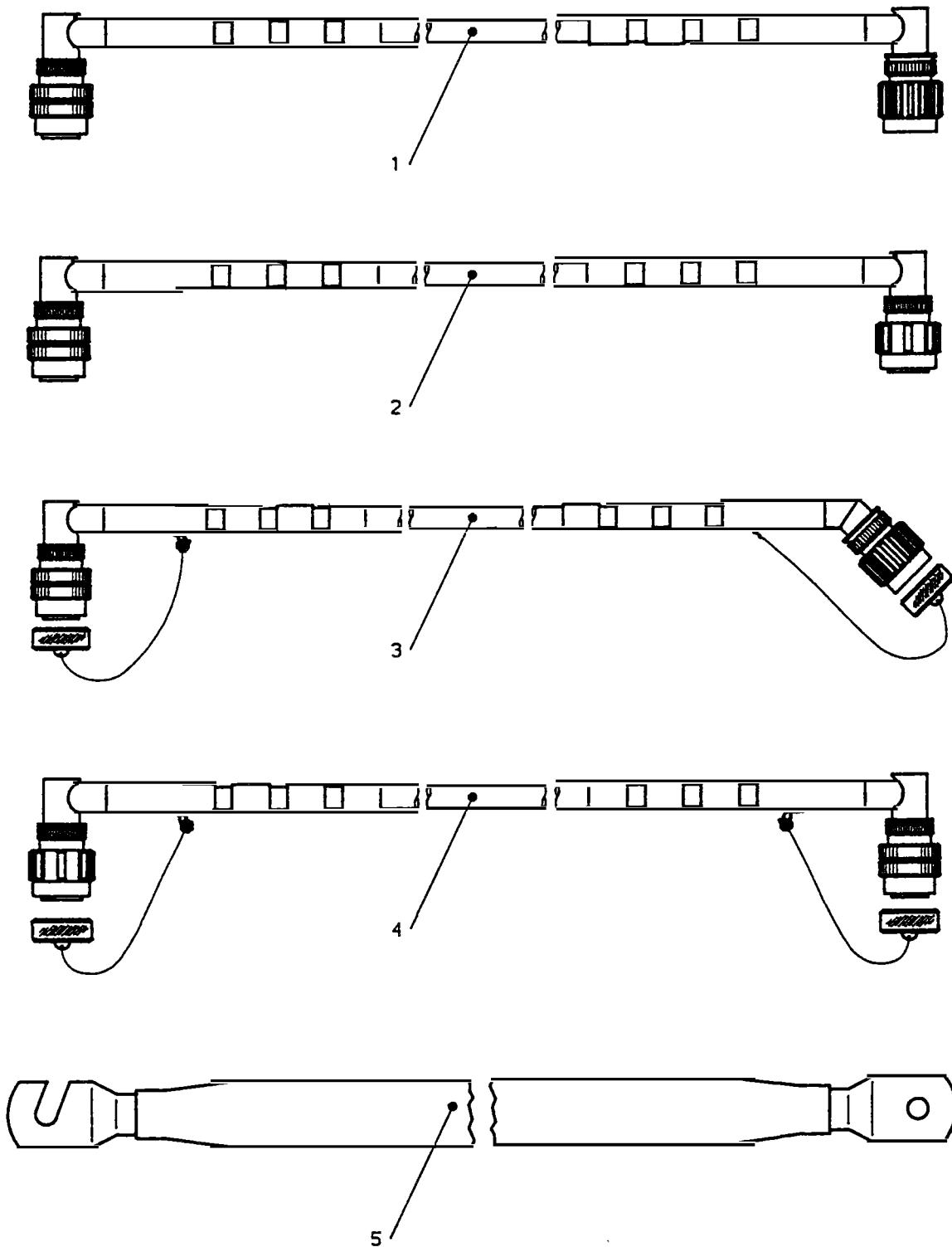




H 6165

Fig 1 IDT Mounting frame assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
NI 1-1			INSTALLATION OF IDT . INTERACTIVE DISPLAY TERMINAL (IDT) with Keyboard	PT2162- 03000-25- 0-T	REF 1	MARCONI
-2	Z95	5820-99-660-5093	. IDT MOUNTING FRAME ASSEMBLY	FV 2161792	1	
-3	G1	5306-99-122-5259	. BOLT, MACHINE M8, hex, 70mm lg, steel		4	
-4	G1	5310-99-122-6475	. WASHER, FLAT, Form A, M8, steel		8	
-5	G1	5310-99-138-9227	. WASHER, LOCK, M8, steel		4	
-6	G1	5310-99-122-5296	. NUT, PLAIN, hex, M8, steel		4	
-7	G1		. SHOCK MOUNT	EIFH 886 C01	4	Stop Choc
-8		5305-99-122-5356	. SCREW, hex hd, M5, 16 mm lg, steel		16	
-9	G1	5310-99-138-9226	. WASHER, LOCK, M5, steel		16	
-10	G1	5310-99-122-3032	. WASHER, FLAT, M5, FORM A, steel		16	
-11	Z95	5820-99-950-3840	. BAR EQUIPMENT MOUNTING ASSEMBLY, LH	FV 2081251	1	
-12	Z95	5820-99-521-3606	. BAR EQUIPMENT MOUNTING ASSEMBLY, RH	FV 2081250	1	
-13	G1	5305-99-135-1374	. SCREW, skt cap hd, M6, 25mm lg, steel		4	
-14	G1	5310-99-137-9232	. WASHER, LOCK, M6, steel		4	
-15			. LABEL, WARNING	FV 2162185	1	
NI-16			. PLATE - MCE/IDT CABLE SUPPORT	FV 2162013	1	
NI-17	Z32	5920-99-059-0144	. FUSE, CARTRIDGE, 5A		3	
NI-18			. CABLE TIE 7.5 W x 250 L	ND 21377K	10	
NI-19			. BAG, LINEN 7" x 5"	ND 21346B	1	Quick Pack



H 6298

Fig 2 Cable assemblies and lead electrical (GY/GW)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-075-5164	CABLE ASSEMBLY - IDT TO MCE	FV 2050772/1	1	
-2	Z95	5995-99-370-9531	CABLE ASSEMBLY - IDT TO 3 WAY DIST BOX	FV 2050771/2	1	
-3	Z95	5995-99-300-7258	CABLE ASSEMBLY - IDT REMOTE TO MCE (STOWED)	FV 2050918/1	1	
-4	Z95	5995-99-721-5023	CABLE ASSEMBLY - IDT REMOTE TO 3 WAY DIST BOX (STOWED)	FV 2050918/1	1	
-5	Z88	5995-99-783-5805	LEAD ELECTRICAL - IDT TO TABLE REAR	FV 2053568/8	1	
NI-6	Z1	5340-99-362-6580	CLIP CABLE	FV 964639/32	5	
NI-7	Z2	5340-99-771-6752	CLIP CABLE	FV 964639/19	1	
NI-8	G1	5305-99-122-5360	SCREW hex hd M6 X 16 lg		1	
NI-9	G1	5305-99-122-8667	SCREW hex hd M8 X 35 lg		2	
NI-10	G1	5305-99-122-3259	SCREW hex hd M8 X 45 lg		2	
NI-11	G1	5310-99-135-0757	NUT PLAIN hex M6		2	
NI-12	G1	5310-99-122-5296	NUT PLAIN hex M8		7	
NI-13	G1	5310-99-122-6474	WASHER FLAT M6 (FORM A)		2	
NI-14	G1	5310-99-137-3586	WASHER FLAT M8 (FORM C)		14	
NI-15	G1	5310-99-137-9232	WASHER LOCK M6		1	
NI-16	G1	5310-99-138-9227	WASHER LOCK M8		7	
NI-17	G1	5310-12-156-4956	WASHER internal tooth M6		2	

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Chapter 2-2

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-396-0138 (FV 2162156)

PRINTER  
in TUM Land Rover GW (ADCIS)  
5820-99-131-7519 (CES 46547)





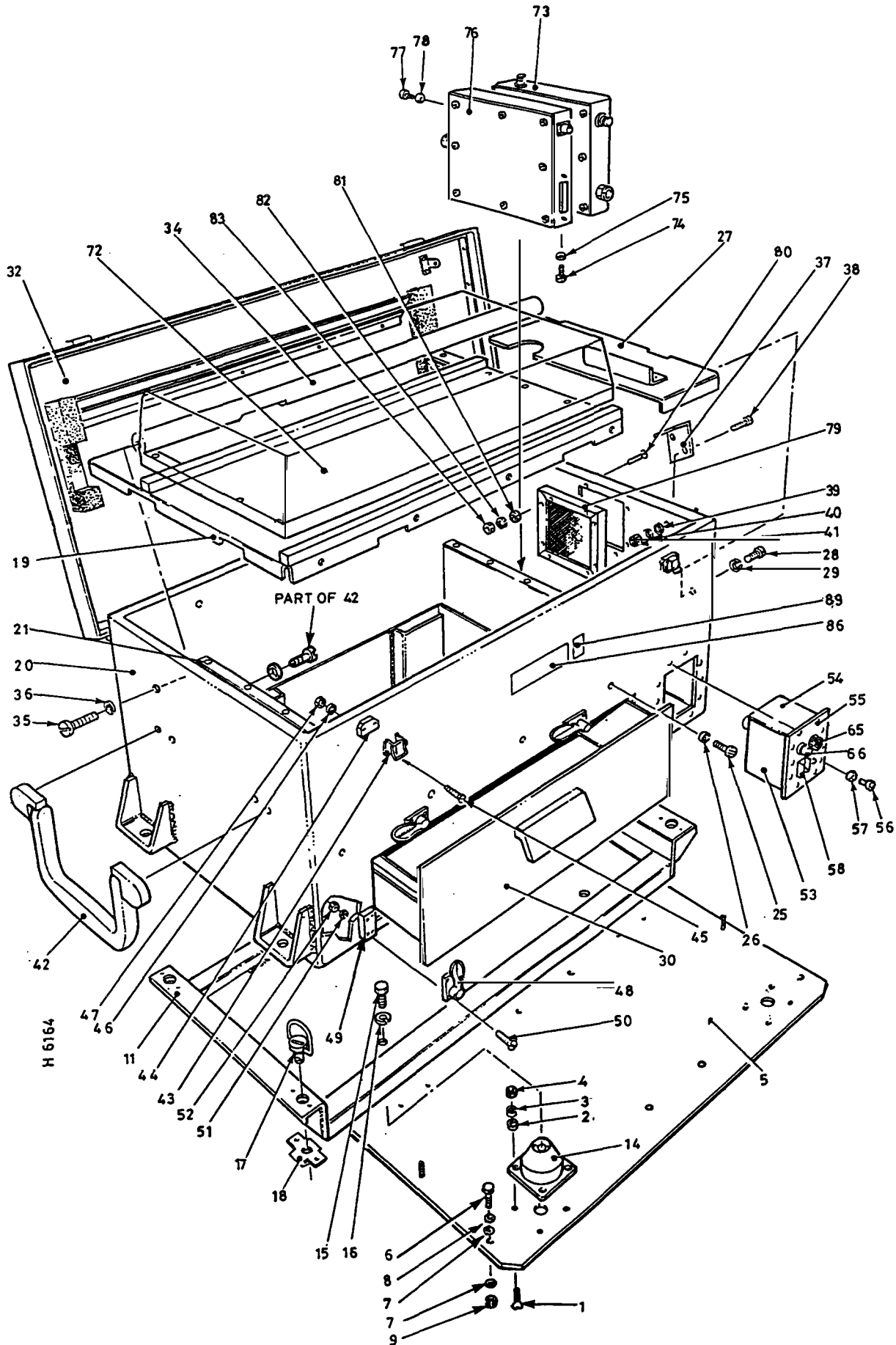


Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-	Z95	5820-99-335-4642	. PRINTER ENCLOSURE ASSEMBLY	FV 2161594	1	
1-1	G1	5305-99-122-5279	. SCREW csk hd, M4, 16 mm lg, steel		16	
-2	G1	5310-99-122-3031	. WASHER FLAT, Form A, M4 steel		16	
-3	G1	5310-99-138-9225	. WASHER LOCK, M4, steel		16	
-4	G1	5310-99-135-0755	. NUT PLAIN, hex, M4 steel		16	
-5	Z95	5820-99-219-2589	. PLATE MOUNTING	FV 2161781	1	
-6	G1	5306-99-122-8103	.. BOLT, hex hd, M8, 35 mm lg, steel		8	
-7	G1	5310-99-137-3586	.. WASHER FLAT, FORM C, M8, steel		16	
-8	G1	5310-99-138-9227	.. WASHER LOCK, M8, steel		8	
-9	G1	5310-99-122-5296	.. NUT PLAIN, hex, M8, steel		8	
NI-10			.. CHASSIS TRAY ASSEMBLY	FV 2161619	1	
-11			... CHASSIS TRAY	FV 2162008	1	
NI-12			... 9 mm RIVET PLATE	339 400 190	4	DZUS
NI-13			... RIVET POP SLD csk hd, Ø3.2 x 4.1 lg	AK 44 SB	8	TUCK FASTENERS
-14	Z98	5340-99-930-5389	.. SHOCKMOUNT	E1E-43S-63ED	4	Stop Choc
-15	G1	5305-99-122-5360	.. SCREW, hex hd, M6, 16 mm lg, steel		4	
-16	G1	5310-99-137-9232	.. WASHER LOCK, M6, steel		4	
-17			.. 9mm Stud Ring	319 414 190	4	DZUS
-18			.. Steel Retainer	329 101 190	4	DZUS

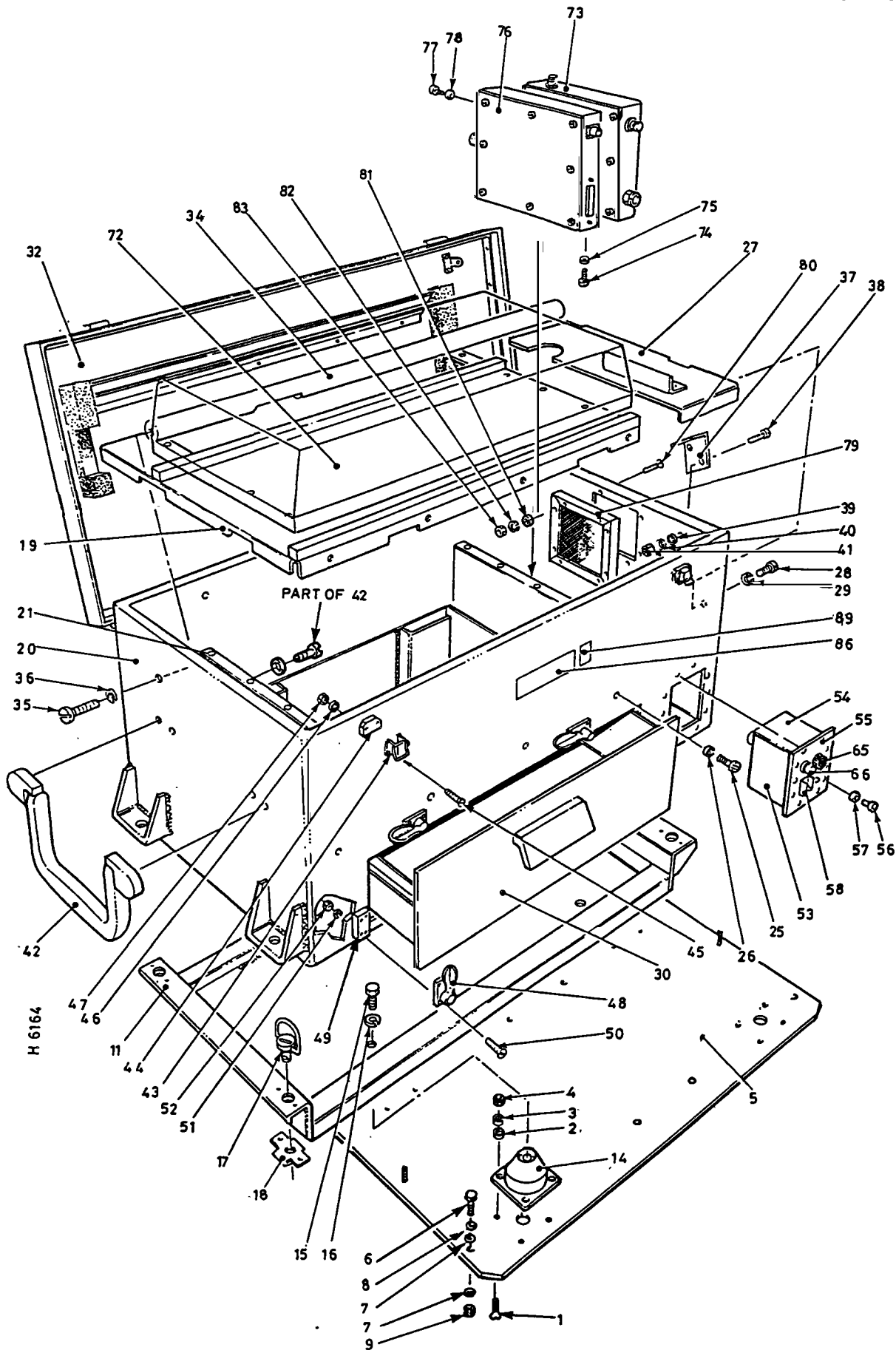


Fig 1 ADCIS Printer enclosure assembly



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-19			. PRINTER ENCLOSURE SUB-ASSEMBLY	FV 2162073	1	
-20			.. ENCLOSURE - PRINTER	FV 2161597	1	
-21			.. PLATE - SUPPORT	FV 2161596	2	
NI-22			.. RIVET POP SLD, dmd hd, Ø4.0 x 11.0 lg	AD 58 SB	10	TUCK FASTENERS
NI-23	G1	5320-99-120-9000	.. RIVET POP SLD dmd hd, Ø4.8 x 9.8 lg	AD 66 SB	4	TUCK FASTENERS
NI-24			.. PLATE -MOUNTING	FV 2161595	1	
-25	G1	5305-99-135-0429	.. SCREW, pan hd, M5 x 12 mm lg, steel		14	
-26	G1	5310-99-138-9226	.. WASHER, LOCK, M5, steel		14	
-27			.. PLATE - ACCESS	FV 2161617	1	
-28	G1	5305-99-135-0429	.. SCREW, pan hd, M5 x 12 mm lg, steel		2	
-29	G1	5310-99-138-9226	.. WASHER, LOCK, M5, steel		2	
-30			.. TRAY PAPER - ASSEMBLY	FV 2161890	1	
NI-31			.. RIVET POP SLD csk hd, Ø4.8 x 9.8 lg	AK 66 SB	6	TUCK FASTENERS
-32			.. LID ASSEMBLY	FV 2161598	1	
NI-33	G1	5320-99-120-9000	.. RIVET POP SLD dmd hd, Ø4.8 x 9.8 lg	AD 66 SB	2	TUCK FASTENERS
-34			.. ROLLER BAR	FV 2161892	1	
-35	G1	5305-99-135-0440	.. SCREW pan hd, M6, 16 mm lg, steel		2	
-36	G1	5310-99-137-9232	.. WASHER LOCK, M6, steel		2	
-37			.. ANGLE BRACKET (SLOTTED)	FV 2162000	1	

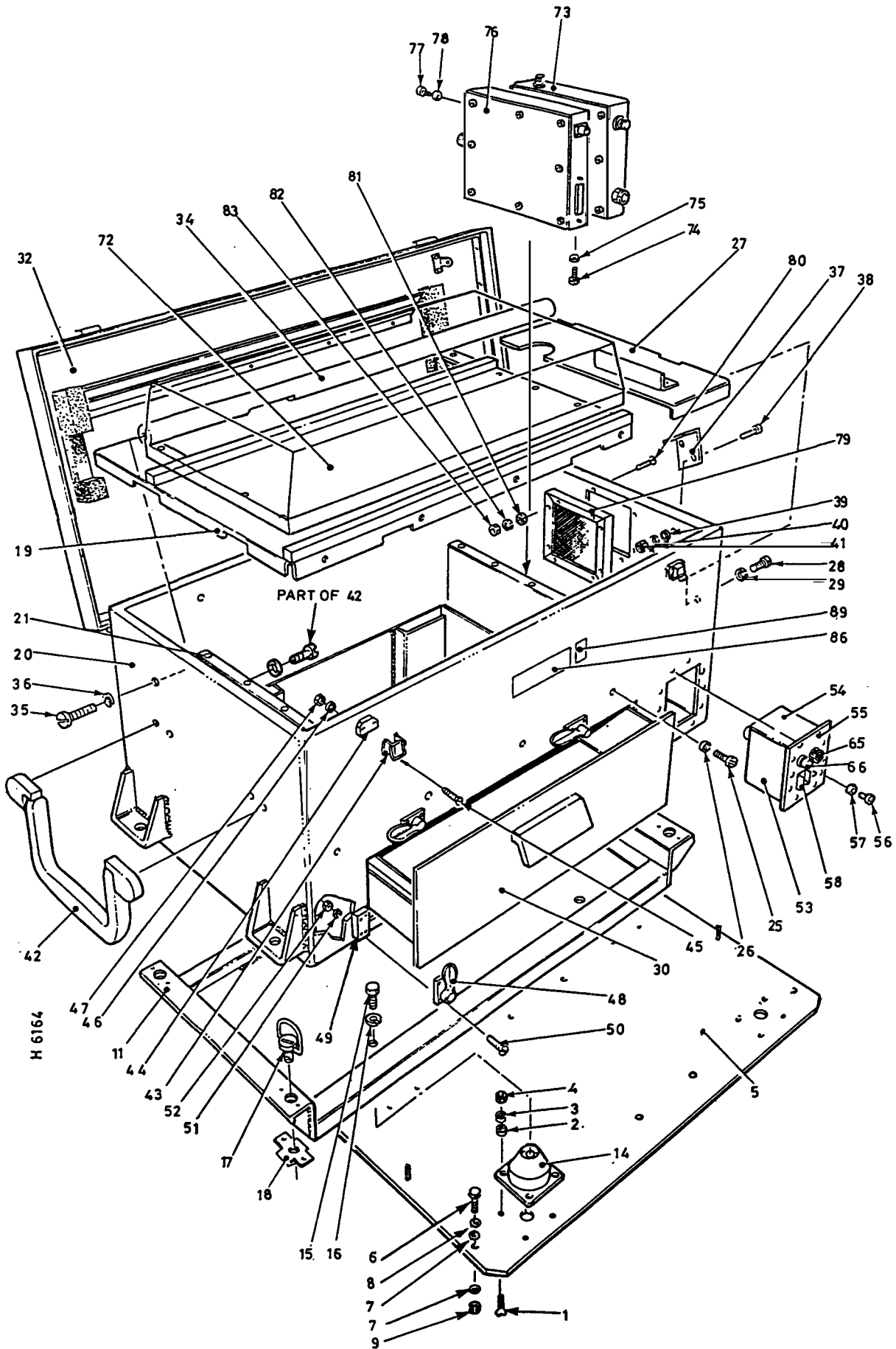


Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-38	G1	5305-99-135-0423	.. SCREW pan hd, M4, 12 mm lg, steel		2	
-39	G1	5310-99-122-3031	.. WASHER FLAT, Form A, M4, steel		2	
-40	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		2	
-41	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		2	
-42			.. HANDLE	478K-HAN- 160PL (Style 47)	2	IMHOF-BEDCO
-43			.. FASTENER TOGGLE LATCH	TL8038	2	DZUS
-44			.. PACKING PLATE (5 mm)	FV 2162016	2	
-45	G1	5305-99-135-0423	.. SCREW pan hd, M4, 12 mm lg, steel		4	
-46	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		4	
-47	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		4	
-48	6MT13	5340-99-624-8072	.. FASTENER GRAVELY SMALL	6098-2	4	Stedall
-49			.. PACKING PLATE (3 mm)	FV 2162015	4	
-50	G1	5305-99-135-0418	.. SCREW pan hd, M3, 16 mm lg, steel		16	
-51	G1	5310-99-138-9224	.. WASHER LOCK, M3, steel		16	
-52	G1	5310-99-135-0754	.. NUT PLAIN, hex, M3, steel		16	
-53			.. CHASSIS- SWITCH MTG ASSEMBLY	FV 2162006	1	
-54			... CHASSIS SWITCH MTG	FV 2161618	1	

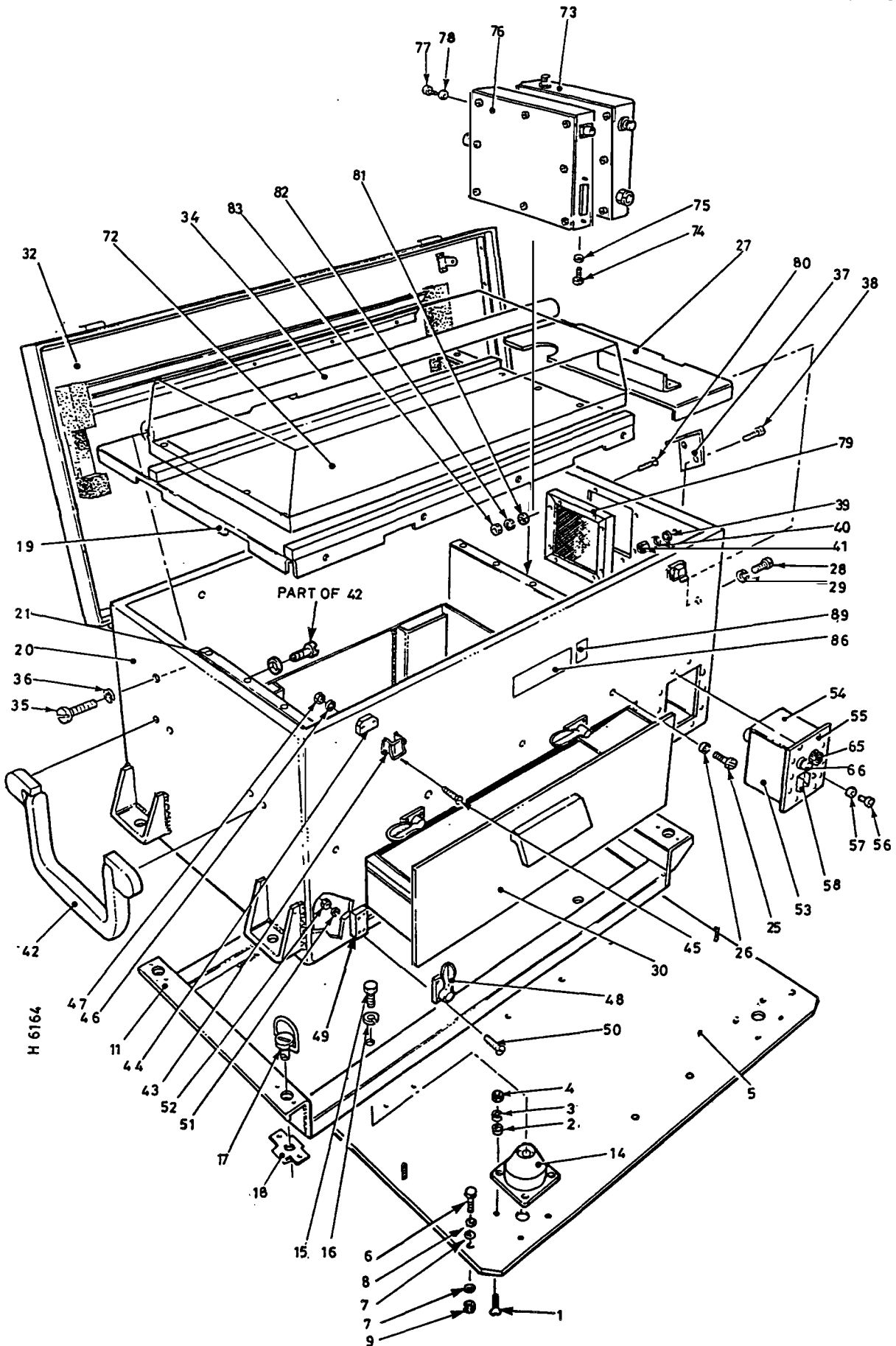
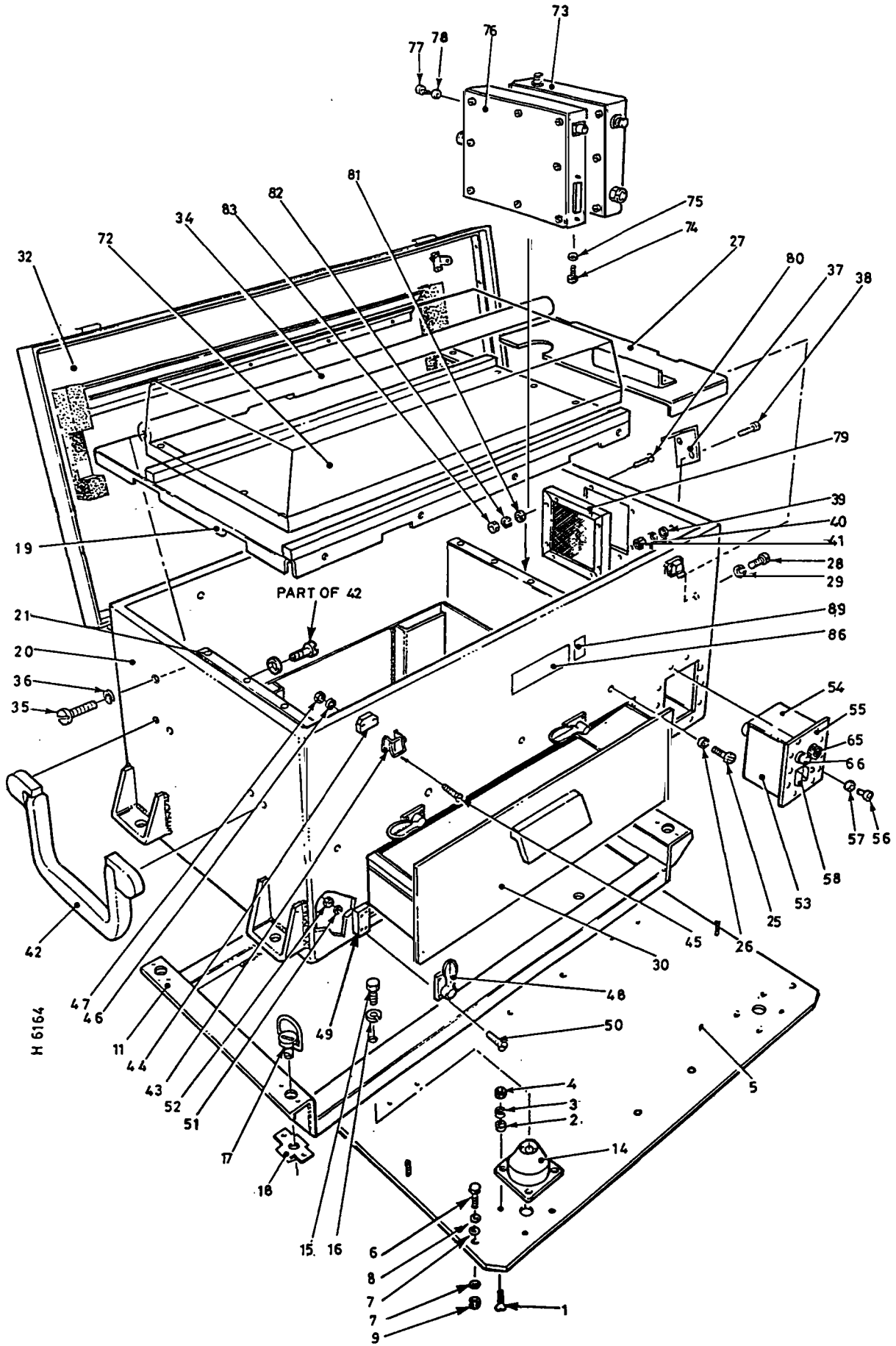


Fig 1 ADCIS Printer enclosure assembly

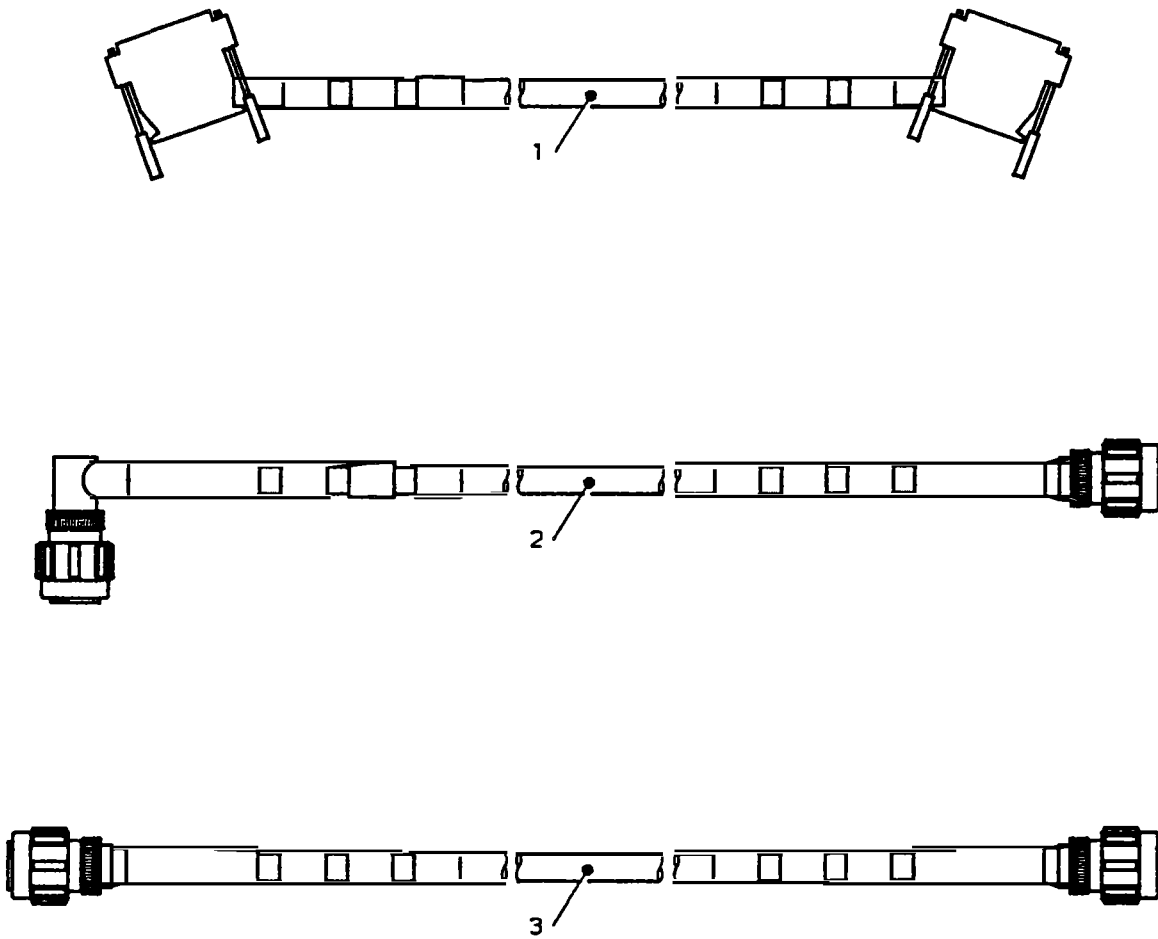
FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-55			... CHASSIS SWITCH PLATE	FV 2162003	1	
-56	G1	5305-99-135-0425	... SCREW pan hd, M4 x 20 lg, steel		10	
-57	G1	5310-99-138-9225	... WASHER LOCK, M4, steel		10	
-58			... SWITCH GUARD	FV 2162007	1	
NI-59			... RIVET POP SLD dmd hd, Ø3.2 x 7.5 lg	AD 44 SB	1	TUCKER FASTENERS
NI-60	G1	5306-99-135-8622	... BOLT, hex hd, M6 x 25 lg, steel		1	
NI-61		5310-99-779-3610	... NUT THUMB M6, steel		1	
NI-62	G1	5310-99-122-5295	... NUT PLAIN HEX, M6, steel		1	
NI-63	G1	5310-12-156-4956	... WASHER, INT TOOTH, M6, steel		4	
NI-64	G1	5310-99-137-9232	... WASHER, LOCK, M6, steel		1	
-65	Z32	5920-99-012-0231	... FUSEHOLDER SIZE '0'		1	
-66	X1	6250-99-012-0913	... LAMP HOLDER MIN FLANGE S6/8 Style BH-23		1	
NI-67	Z3	6210-99-639-9142	... LENS LIGHT CAP GREEN		1	
NI-68	Z32	5920-99-059-0111	... FUSE LINK 3A SIZE 0, CERAMIC		1	
NI-69			... BULB MIDGET FLANGE LED 28 V GREEN		1	MARL INTERNATIONAL
NI-70			... CONN, PLUG, FIXED CIRC 8-4N	62GB-57A-8-4-PN	1	AMPHENOL
NI-71			... SWITCH 2 POLO C/O	TYPE 504 TO BS9572 F002	1	LUCAS/NSF



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Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-72			.. PRINTER - PERSONAL	2227A	1	Hewlett Packard (Quiet Jet Plus)
-73	Z95	5820-99-052-3953	.. TELEPRINTER SIGNAL MODULE	FV 2161955	1	
-74	G1	5305-99-135-0425	.. SCREW pan hd, M4, 20 mm lg, steel		3	
-75	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		3	
-76			.. TELEPRINTER POWER MODULE	FV 2161952	1	
-77	G1	5305-99-135-0425	.. SCREW pan hd, M4, 20 mm lg, steel		3	
-78	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		3	
-79			.. VENT GRILLE	FV 2161891	1	
-80	G1	5305-99-122-5281	.. SCREW csk hd, M4, 25 mm lg, steel		8	
-81	G1	5310-99-122-3031	.. WASHER FLAT, Form A, M4, steel		8	
-82	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		8	
-83	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		8	
NI-84			.. TRUNKING	FV 2161893	1	
NI-85			.. RIVET POP SLD dmd hd, Ø3.2 x 9.1 lg	AD 46 SB	3	TUCK FASTENERS
-86			.. LABEL, NAMEPLATE	FV 2162004	1	
NI-87			.. TRUNKING	FV 2162005	1	
NI-88			.. RIVET POP SLD dmd hd, Ø3.2 x 9.1 lg	AD 46 SB	3	TUCK FASTENERS
-89	Z2	9905-99-649-2246	.. PLATE MODIFICATION RECORD		1	

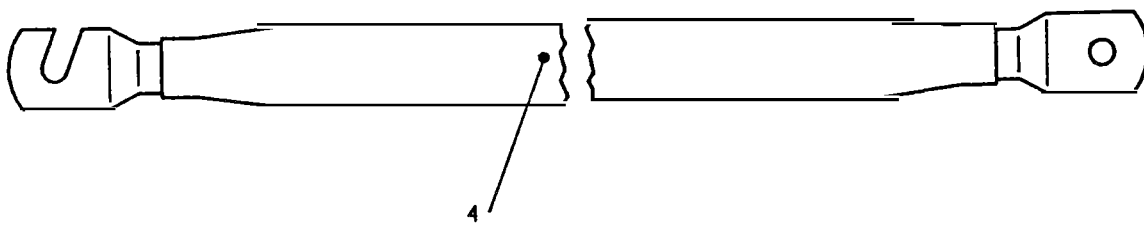
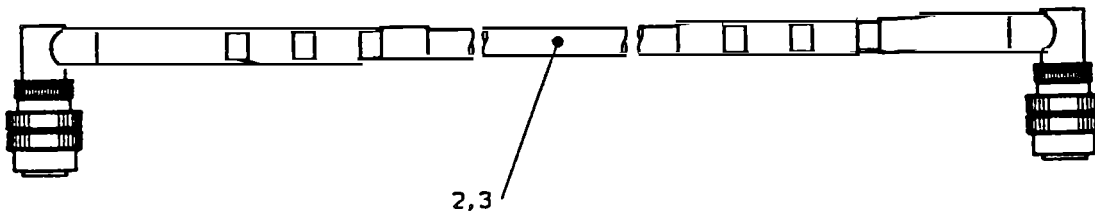
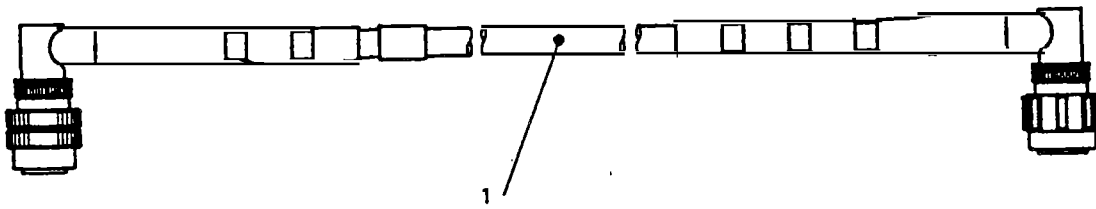


H 6192

Fig 2 ADCIS Printer enclosure cable assemblies



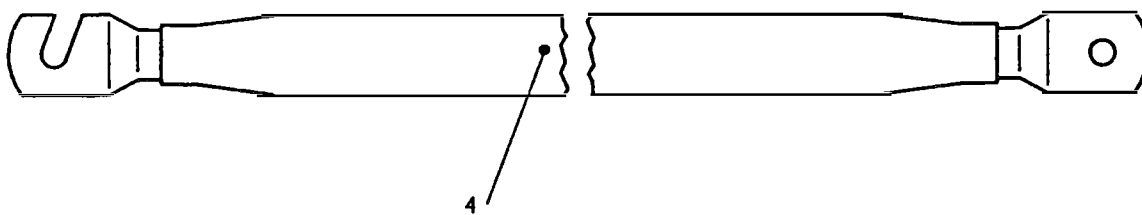
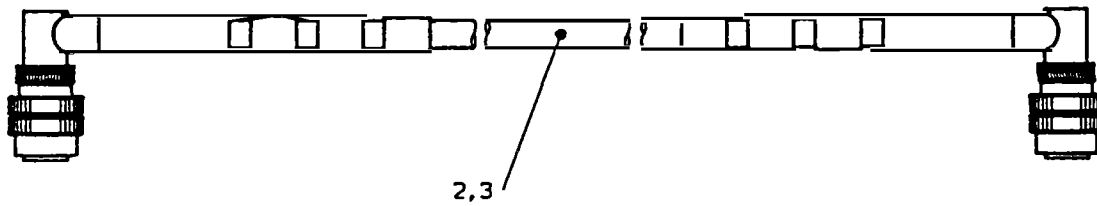
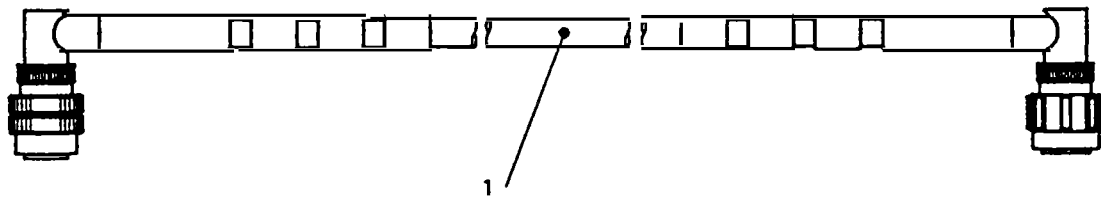
FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-551-2409	.. CABLE ASSEMBLY Printer - Signal Module	FV 2050861/1	1	
-2	Z95	5995-99-599-0387	.. CABLE ASSEMBLY Switch - Power Module	FV 2050860/1	1	
-3	Z95	5995-99-721-3676	.. CABLE ASSEMBLY Signal Module - Power Module	FV 2050859/1	1	
NI-4			.. BAG LINEN 7" x 5"	ND 21346B	1	
NI-5			.. CABLE TIE 7.5 W x 250 L	ND 21377K	10	



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Fig 3 Cable assemblies and lead electrical (GW)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
3-1	Z95	5995-99-660-6216	. CABLE ASSEMBLY - PRINTER TO 3 WAY DIST BOX	FV 2050771/3	1	
-2	Z95	5995-99-382-6226	. CABLE ASSEMBLY - PRINTER TO IDT	FV 2050774/1	1	
-3	Z95	5995-99-781-4162	. CABLE ASSEMBLY - PRINTER TO IDT REMOTING (STOWED)	FV 2050774/6	1	
-4	Z42	5995-99-783-5801	. LEAD ELECTRICAL - PRINTER TO EARTH	FV 2053568/4	1	
NI-5	6MT4	5340-99-835-0301	. CLAMP LOOP STEEL D13 FXG HOLE D10.31		2	
NI-6	G1	5305-99-122-5366	. SCREW hex hd, M8 X 20mm lg, steel		2	
NI-7	G1	5310-99-122-5296	.. NUT PLAIN hex, M8, steel		2	
NI-8	G1	5310-99-137-3586	.. WASHER FLAT, M8,(FORM C), steel		4	
NI-9	G1	5310-99-138-9227	.. WASHER LOCK, S/COIL, M8, steel		2	
NI-10	6MT4	5340-99-828-4174	.. CLAMP LOOP, steel D12.70 FXG HOLE D5.0		3	
NI-11	G1	5310-99-135-0755	.. NUT PLAIN hex, M4, steel		3	
NI-12	G1	5310-99-122-3031	.. WASHER FLAT M4 (FORM A) steel		3	
NI-13	G1	5310-99-138-9225	.. WASHER LOCK, S/COIL, M4, steel		3	
NI-14	Z99	5340-99-657-7645	. CLIP, CABLE D9.0 fxg hole D8.8		3	
NI-15	G1	5305-99-122-3259	.. SCREW hex hd, M8 X 45 mm lg, steel		3	
NI-16	G1	5310-99-122-5296	. NUT PLAIN hex M8 steel		3	



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Fig 3 Cable assemblies and lead electrical (GW)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
NI 17	G1	5310-99-137-3586	.. WASHER FLAT, M8 (FORM C), steel		6	
NI-18	G1	5310-99-138-9227	.. WASHER LOCK S/COIL, M8, steel		3	
NI-19	G1	5310-99-135-0757	.. NUT PLAIN hex, M6, steel		1	
NI-20	G1	5310-12-156-4956	.. WASHER LOCK, int tooth, M6, steel		2	
NI-21	Z32	5920-99-059-0146	.. FUSE LINK CARTRIDGE 10A, SIZE 1		3	

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Chapter 2-3

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-008-0595 (FV 2162154)

MULTI-PURPOSE COMMUNICATION EQUIPMENT  
in TUM Land Rover GY/GW (ADCIS)  
5820-99-225-5097 (CES 46545)







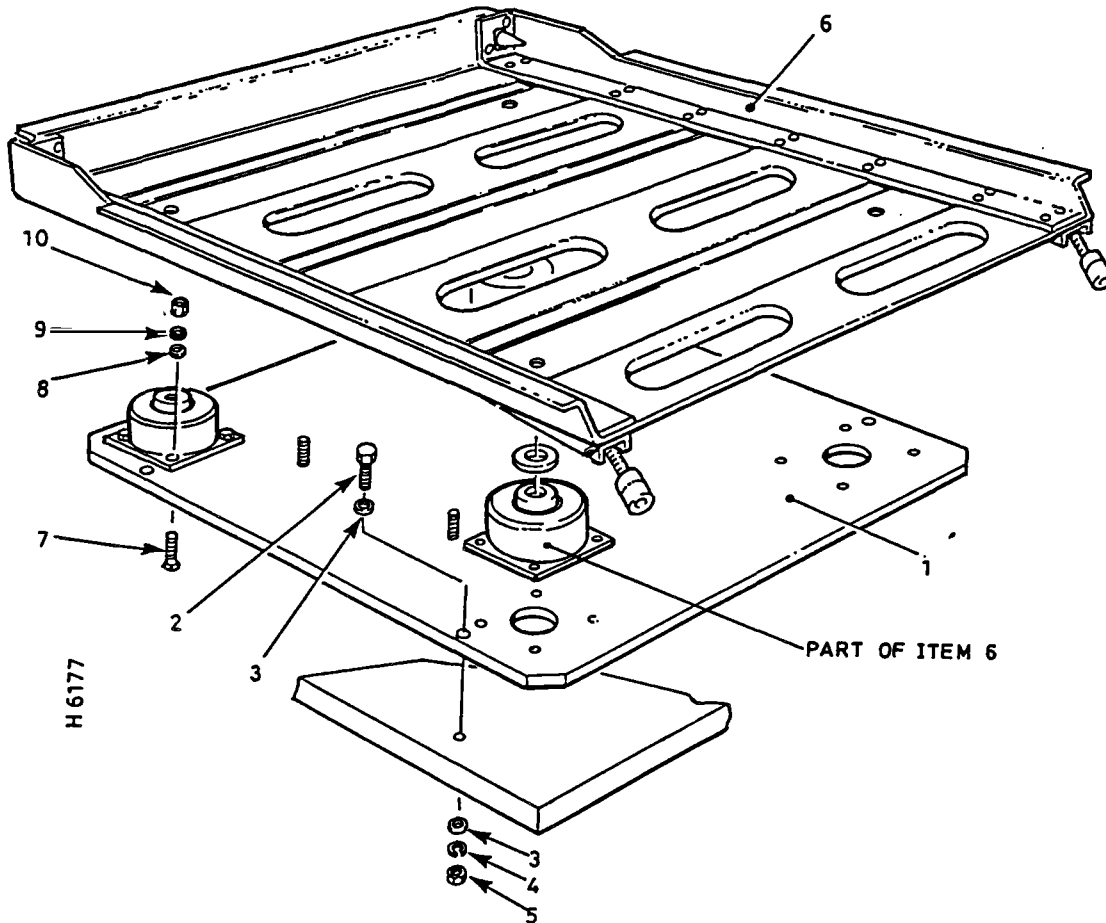
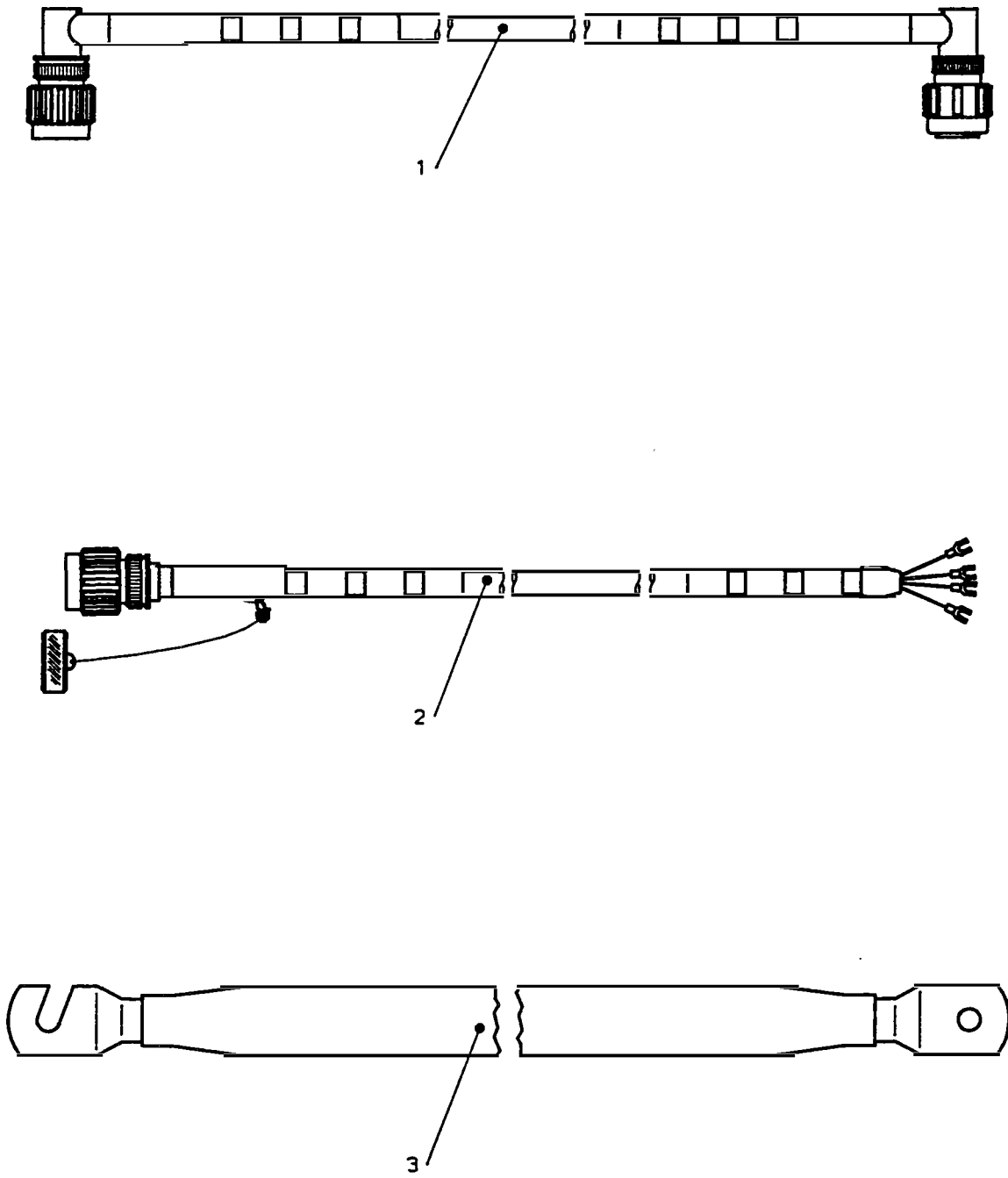


Fig 1 MCE mounting (GY/GW)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5340-99-660-6217	INSTALLATION OF MCE . PLATE MOUNTING (MCE)	FV 2161894	REF 1	
-2	G1	5306-99-122-8103	. BOLT, hex hd, M8, 35 mm lg, steel		4	
-3	G1	5310-99-137-3586	. WASHER FLAT, FORM C, M8, steel		8	
-4	G1	5310-99-138-9227	. WASHER LOCK, M8, steel		4	
-5	G1	5310-99-122-5296	. NUT PLAIN, M8, steel		4	
-6	Z88	5820-99-215-1882	. MCE COMPLETE WITH TRAY		1	
-7	G1	5305-99-122-5284	. SCREW csk hd, M5, 12 mm lg, steel		16	
-8	G1	5310-99-122-3032	. WASHER FLAT, M5, steel		16	
-9	G1	5310-99-138-9226	. WASHER LOCK, M5, steel		16	
-10	G1	5310-99-122-5294	. NUT PLAIN, M5, steel		16	
NI-11	Z32	5920-99-059-0144	. FUSE LINK ELECTRICAL 5 A		3	
NI-12			. BAG LINEN 7" x 5"	ND 21346B	1	
NI-13			. CABLE TIE 7.5 W x 250 L	ND 21377K	10	



H 6300

Fig 2 Cable assemblies and lead electrical (GY/GW)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-300-7259	. CABLE ASSEMBLY - MCE TO 3 WAY DIST BOX	FV 2050773/1	1	
-2	Z95	5995-99-535-4038	. CABLE ASSEMBLY - MCE TO PTARMIGAN COUPLER (STOWED)	FV 2050913/1	1	
-3	Z88	5995-99-783-5802	. LEAD ELECTRICAL - MCE TO EARTH	FV 2053568/5	1	
NI-4	6MT4	5340-99-790-7017	. CLAMP LOOP STEEL		2	
NI-5	G1	5340-99-733-3145	. CLIP, CABLE	FV 964639/41	3	
NI-6	G1	5305-99-122-5366	. SCREW hex hd, M8 x 20 mm lg, steel, zinc plate		3	
NI-7	G1	5310-99-135-0755	. NUT PLAIN hex M4 steel, zinc plate		2	
NI-8	G1	5310-99-135-0757	. NUT PLAIN hex M6 steel, zinc plate		1	
NI-9	G1	5310-99-122-5296	. NUT PLAIN hex M8 steel, zinc plate		3	
NI-10	G1	5310-99-122-3031	. WASHER FLAT M4 (Form A) steel, zinc plate		2	
NI-11	G1	5310-99-137-3586	. WASHER FLAT M8 (Form C) steel, zinc plate		6	
NI-12	G1	5310-99-138-9225	. WASHER LOCK M4		2	
NI-13	G1	5310-12-156-4956	. WASHER int. tooth M6		2	
NI-14	G1	5310-99-138-9227	. WASHER LOCK M8		3	

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Chapter 2-4

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-450-1078 (FV 2162153)

BLACKOUT AND LIGHTING  
in TUM Land Rover GY/GW (ADCIS)  
5820-99-894-0764 (CES 46544)

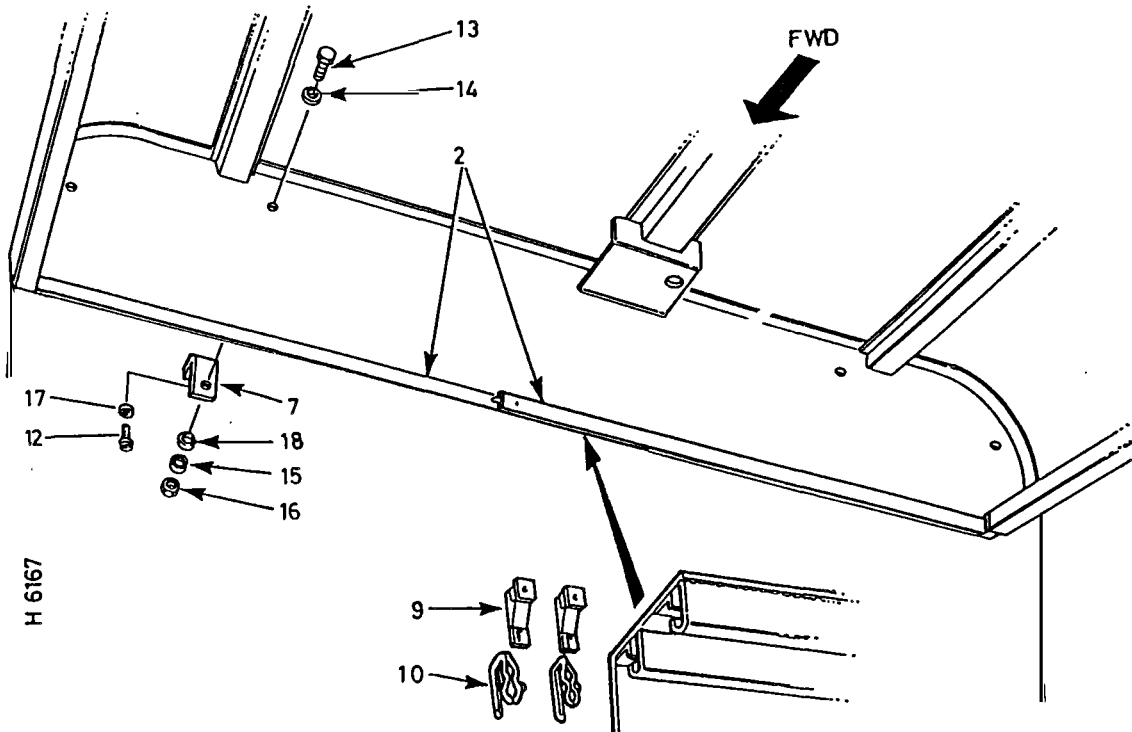
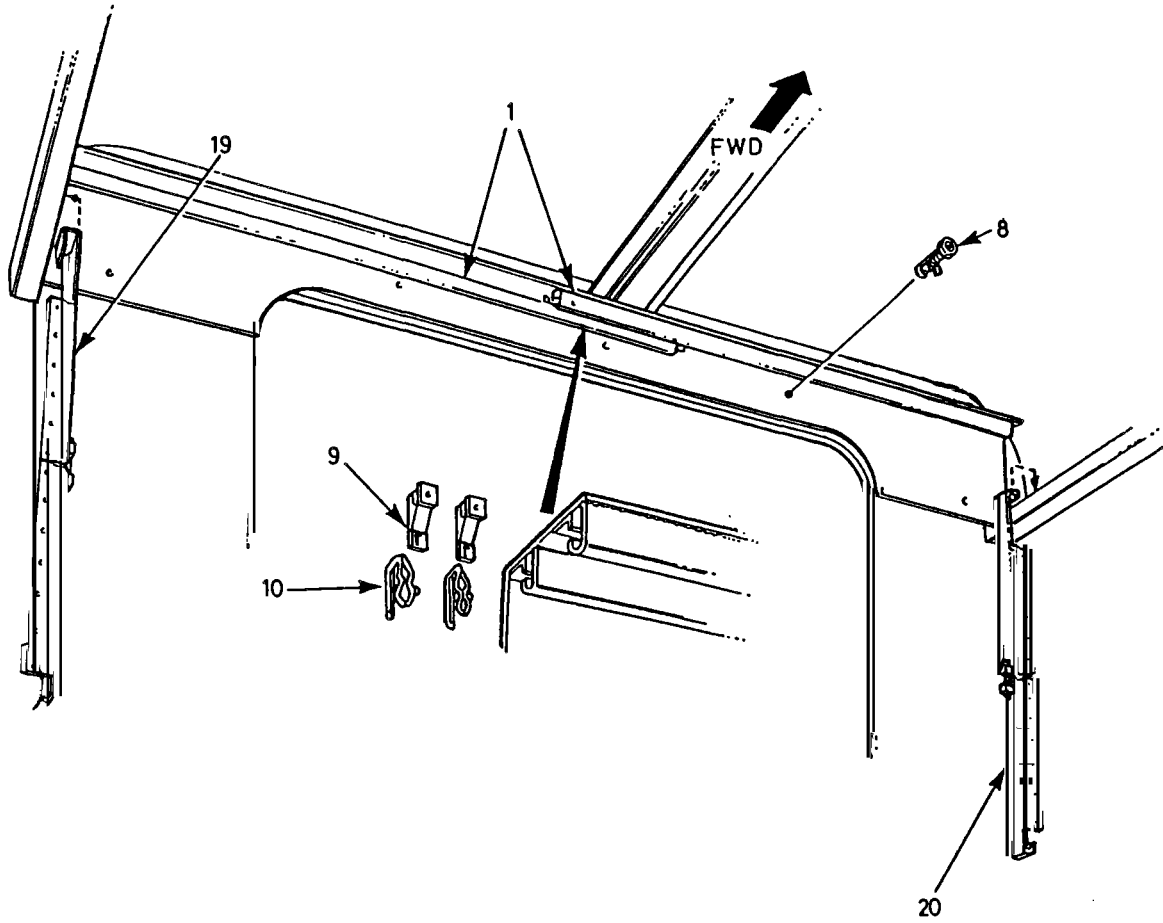
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H 6167

Fig 1 Blackout curtain installation (GY/GW)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			BLACKOUT AND LIGHTING (GY/GW)			
	Z95	7230-99-001-6093	. BLACKOUT CURTAIN INSTALLATION (GY/GW)	FV 2162092	1	Existing
1-1			. CURTAIN RAIL ASSEMBLY	FV 2162093	1	
-2			. CURTAIN RAIL ASSEMBLY	FV 2162094	1	
NI-3			. BLACKOUT CURTAIN	FV 2162095/1	1	
NI-4			. BLACKOUT CURTAIN	FV 2162095/2	1	
NI-5			. BLACKOUT CURTAIN	FV 2162096/1	1	
NI-6			. BLACKOUT CURTAIN	FV 2162096/2	1	
-7			. BRACKET	FV 2162097	4	
-8			. LATCH-PAWL, slotted hd, steel	DP-109-5A	5	DZUS
-9			. HOOK	20083	76	Antiference
-10			. HOOK	R67	80	
NI-11	Z88	5820-99-127-2064	. LOCK SLIDE	9494	8	Antiference
-12			. RAWLNUT, M4, 20 mm lg, steel		4	
-13	G1	5305-99-122-5357	. SCREW, hex hd, M5, 20 mm lg, steel		4	
-14	G1	5310-99-139-0309	. WASHER, FLAT FORM C), M5, steel		4	
-15	G1	5310-99-138-9226	. WASHER, LOCK M5 steel		4	
-16	G1	5310-99-122-5294	. NUT PLAIN, M5 steel		4	
-17	G1	5310-99-138-9225	. WASHER, LOCK M4 steel		4	
-18	G1	5310-99-139-0309	. WASHER, FLAT, M5, (FORM G), steel		4	
-19			. BRACKET TOP AND BOTTOM ASSY L/H SIDE	FV 2162188	1	
-20			. BRACKET TOP AND BOTTOM ASSY R/H SIDE	FV 2162189	1	

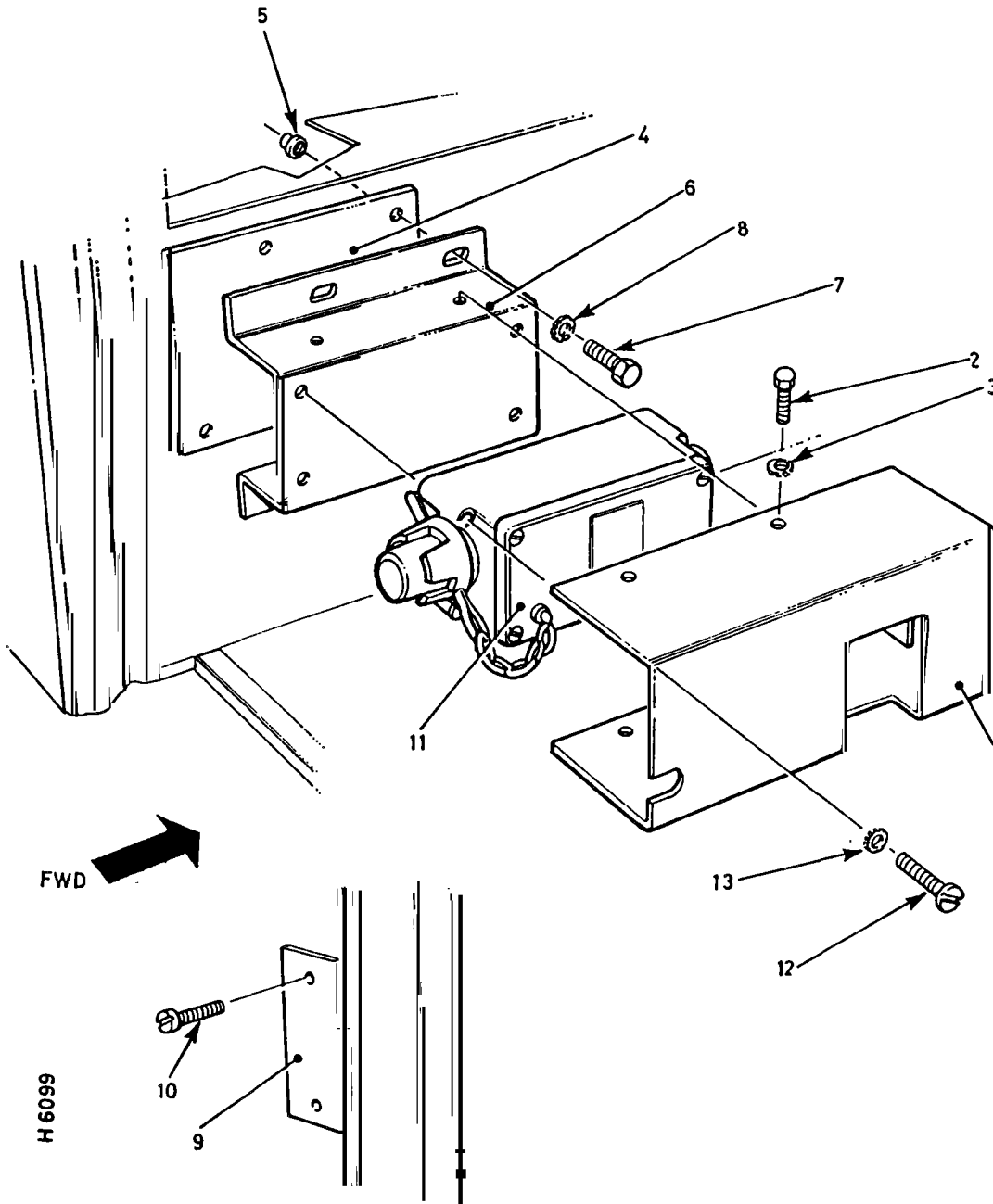


Fig 2 Micro switch mounting assembly (blackout switch)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
	Z95	5930-99-786-2405	. MICRO SWITCH MOUNTING ASSEMBLY	FV 2162100	1	REF
2-1			.. GUARD	FV 2162233	1	
-2	G1	5305-99-138-3707	.. SCREW, hex hd, M4, 12 mm lg, steel		4	
-3		5310-12-153-8566	.. WASHER, EXTERNAL TOOTH, M4, steel		4	
-4			.. INTERFACE PLATE	FV 2162215	1	
-5			.. BUSH, BLIND RIVET, csk hd, M6		4	
-6			.. MOUNTING PLATE	FV 2162213	1	
-7	G1	5305-99-122-5362	.. SCREW, hex hd, M6, 25 mm lg, steel		4	
-8	G1	5310-12-156-4913	.. WASHER, LOCK, M6, steel		4	
-9			.. STRIKER PLATE	FV 2162214	1	
-10	G1	5305-99-120-5485	.. SCREW, pan hd, No. 6 x 9.5 lg, steel		2	
-11	G1	5930-99-100-3821	.. SWITCH, MICRO 5A		1	
-12	G1	5305-99-135-0434	.. SCREW, pan hd, M5, 35 mm lg, steel		4	
-13	G1	5310-12-146-3828	.. WASHER, EXTERNAL TOOTH, M5, steel		4	

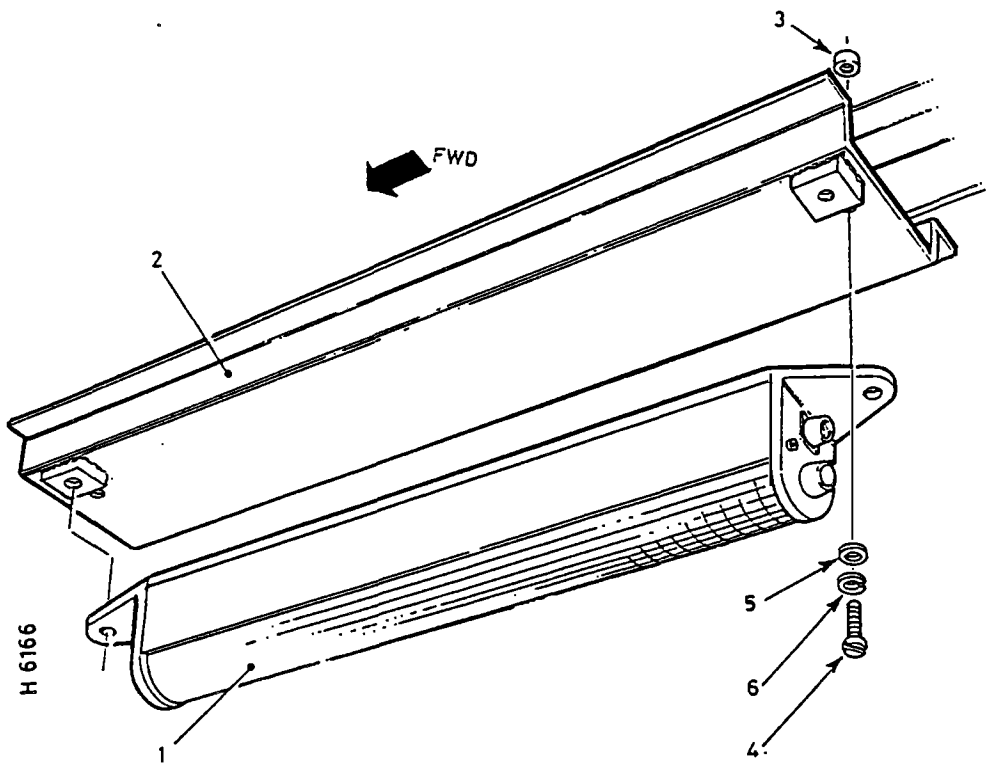
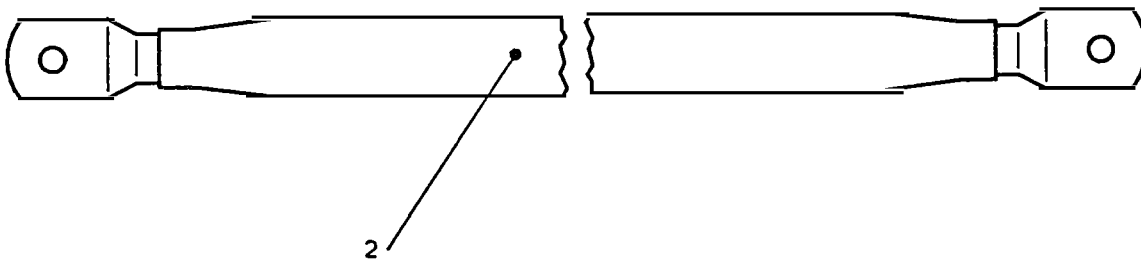
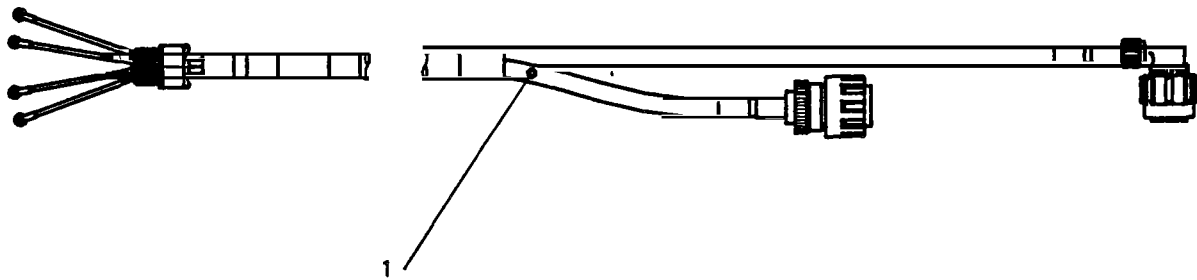


Fig 3 Blackout lighting

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
3-1	Z88	6210-99-737-4870	. LIGHT UNIT, PENTHOUSE No. 1 MK1		1	Westair
-2	Z95	5820-99-300-5993	.. TOP HAT ASSEMBLY	FV 2162114	1	
-3			.. BUSH, BLIND RIVET, csk hd, M5	ND 22530N	2	Lintite, M5 UPO 30
-4	G1	5305-99-135-0430	.. SCREW, pan hd, M5, 16 mm lg, steel		2	
-5	G1	5310-99-122-3032	.. WASHER, FLAT (FORM A), M5, steel		2	
-6	G1	5310-99-138-9226	.. WASHER, LOCK, M5, steel		2	



H 6299

Fig 4 Cable assembly and lead electrical (GY/GW)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
4-1	Z95	5995-99-051-6716	. CABLE ASSEMBLY - light & micro - switch to 3 way dist box	FV 2162115	1	
-2	Z95	5995-99-014-4513	. LEAD ELECTRICAL - light unit to plate earth	FV 2053628/1	1	
NI-3	Z99	5340-99-744-9001	. CABLE LOOP	FV 964639/2	5	
NI-4	6MT4	5340-99-833-9561	. CLAMP LOOP		10	
NI-5	6MT4	5340-99-805-0915	. CLAMP LOOP		3	
NI-6	Z32	5920-99-059-0144	. FUSE, LINK ELECTRICAL, CARTRIDGE 5A, size 1			
NI-7			. BAG LINEN 5" X 3" draw string	ND 20278Q	1	
NI-8			. CABLE TIE RELEASABLE 7.5w 250 lg nylon	ND 21377K	10	
NI-9			. RAWLNUT M4 x 20 lg complete with screw	ND 27357K	5	
NI-10	G1	5305-99-122-5361	. SCREW hex hd M6 x 20 lg steel zinc plate		3	
NI-11	G1	5310-99-122-3031	. WASHER FLAT M4 (FORM A)		5	
NI-12	G1	5310-99-122-6474	. WASHER FLAT M6 (FORM A)		11	
NI-13	G1	5310-99-138-9225	. WASHER LOCK M4		5	
NI-14	G1	5310-99-137-9232	. WASHER LOCK M6		3	
NI-15	G1	5310-99-122-5295	. NUT PLAIN hex M6		3	
NI-16	G1	5310-12-156-4956	. WASHER int. tooth M6		2	



Chapter 2-5

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-803-6658 (FV 2162206)

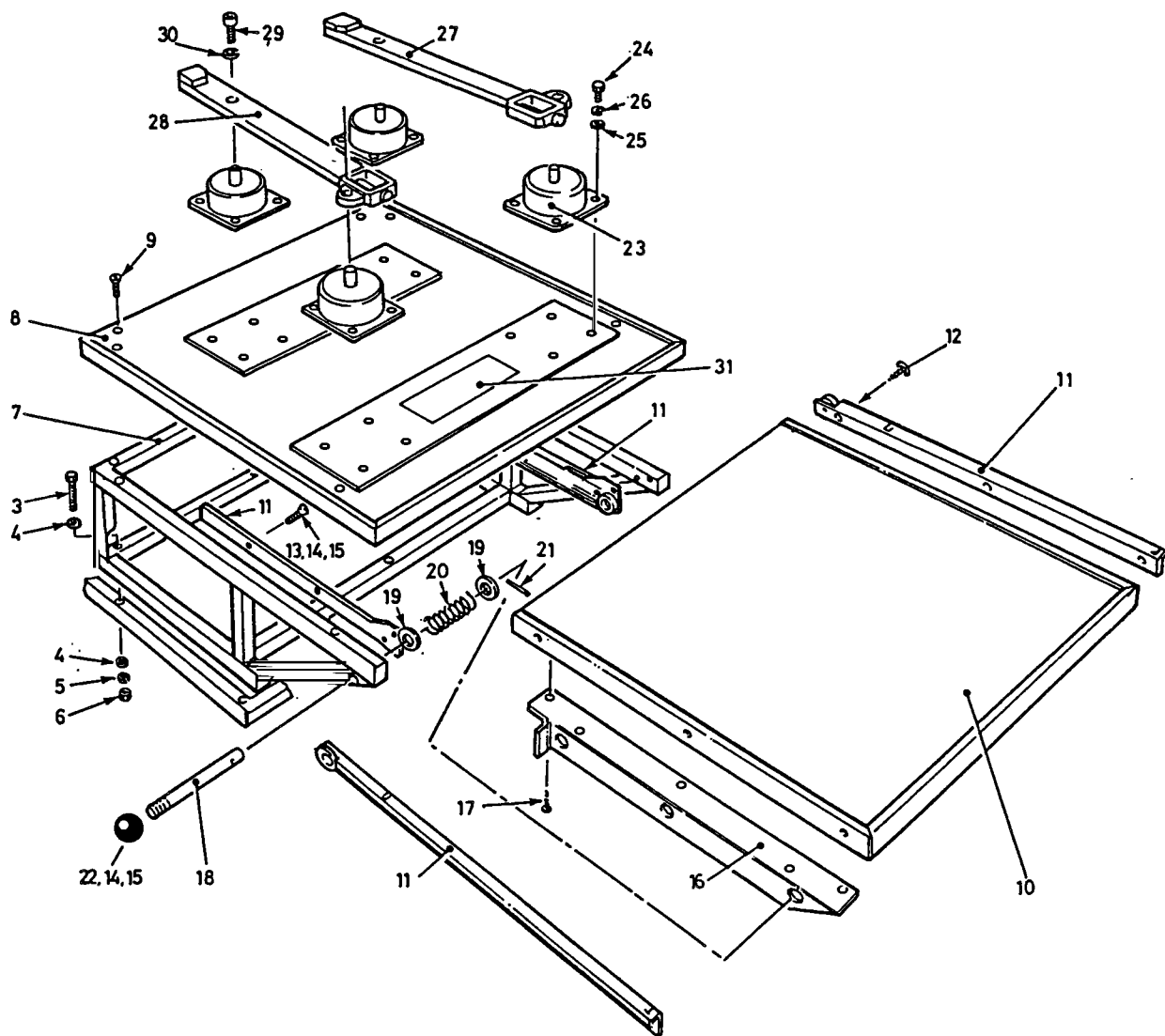
INTERACTIVE DISPLAY TERMINAL  
in TUM Land Rover GX (ADCIS)  
5820-99-020-6882 (CES 46573)

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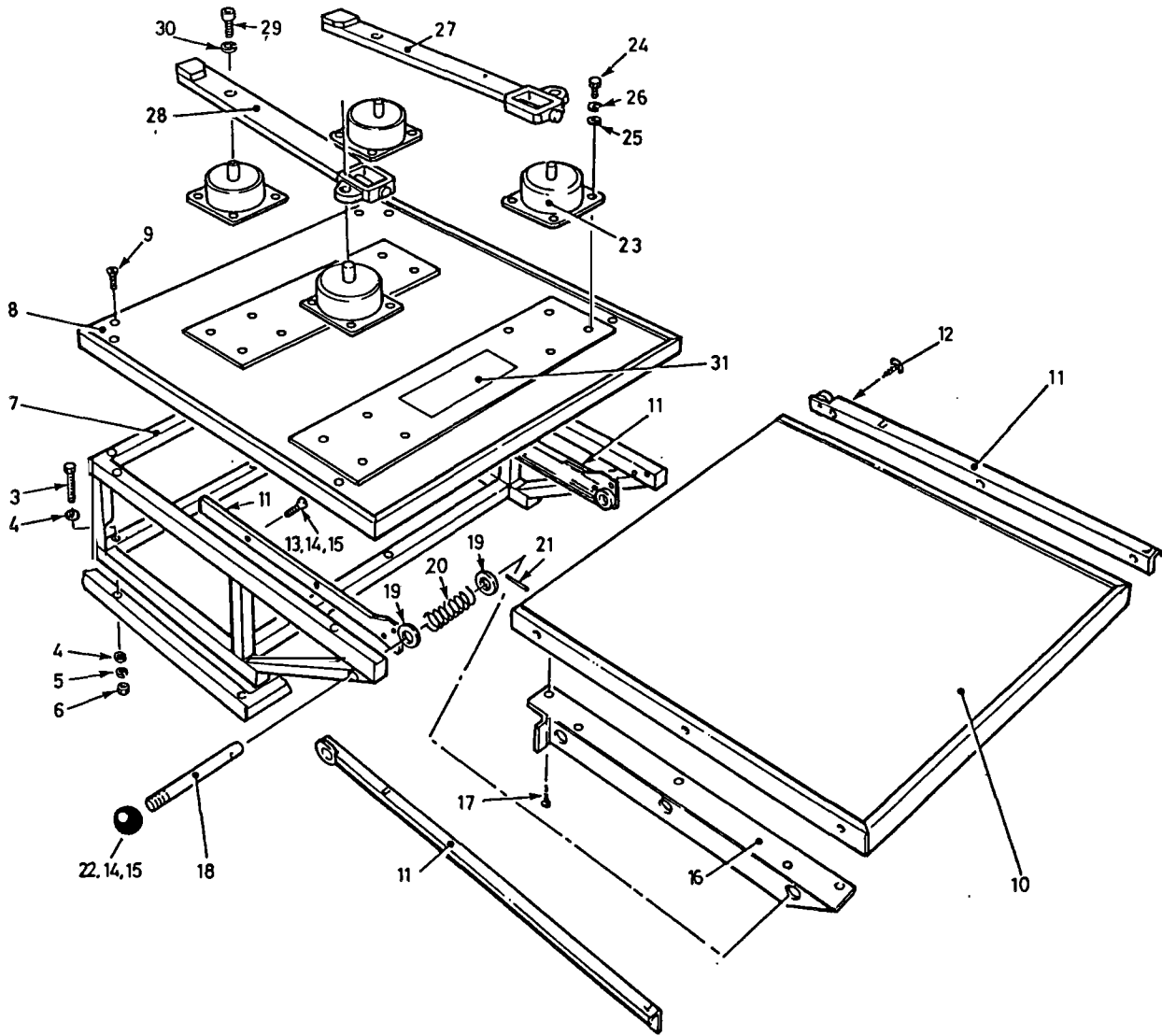




H5695

Fig 1 IDT Mounting frame assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
NI-1			INSTALLATION OF IDT . INTERACTIVE DISPLAY TERMINAL (IDT) with keyboard	PT2162-03000-25-0-T	REF 1	MARCONI (existing)
NI-2	Z95	5820-99-660-5093	. IDT MOUNTING FRAME ASSEMBLY	FV 2161792	1	Comprises items 7 to 22 and item 31
1-3	G1	5306-99-122-5259	. BOLT MACHINE M8 hex hd, 70 mm lg, steel		4	
-4	G1	5310-99-122-6475	. WASHER FLAT Form A, M8, steel		8	
-5	G1	5310-99-138-9227	. WASHER LOCK M8steel		4	
-6	G1	5310-99-122-5296	. NUT, PLAIN, hex, M8, steel		4	
-7			.. MOUNTING FRAME	FV 2161786	1	
-8			.. TABLE TOP (IDT)	FV 2161788	1	
-9	G1	5305-99-122-5288	.. SCREW, csk hd, M5, 30 mm lg, steel		6	
-10			.. TABLE TOP (KEYBOARD)	FV 2161777	1	
-11			.. DRAWER SLIDE (PAIR)	220E35	1	ISAAC LORD
-12			.. WOODSCREW csk hd, D. Grip No. 8, 0.5 in. lg, steel		6	
-13	G1	5305-99-122-5277	.. SCREW, csk hd, M4, 10 mm lg, steel		8	
-14	H1	8030-99-224-8707	.. COMPOUND THREAD LOCKING HIGH STRENGTH		AR	LOCTITE STUDLOCK
-15	H1	8030-99-224-0353	.. ACTIVATOR COMPOUND THREAD LOCKING		AR	LOCTITE-ACTIVATOR
-16			.. BRACKET (ANGLE)	FV 2161912/1	1	
-17			.. WOODSCREW rnd hd, D. Grip No. 8, 0.5 in. lg, steel	ND 22227J	5	ORMOND LTD
-18			.. BOLT, SPECIAL	FV 2161911	1	

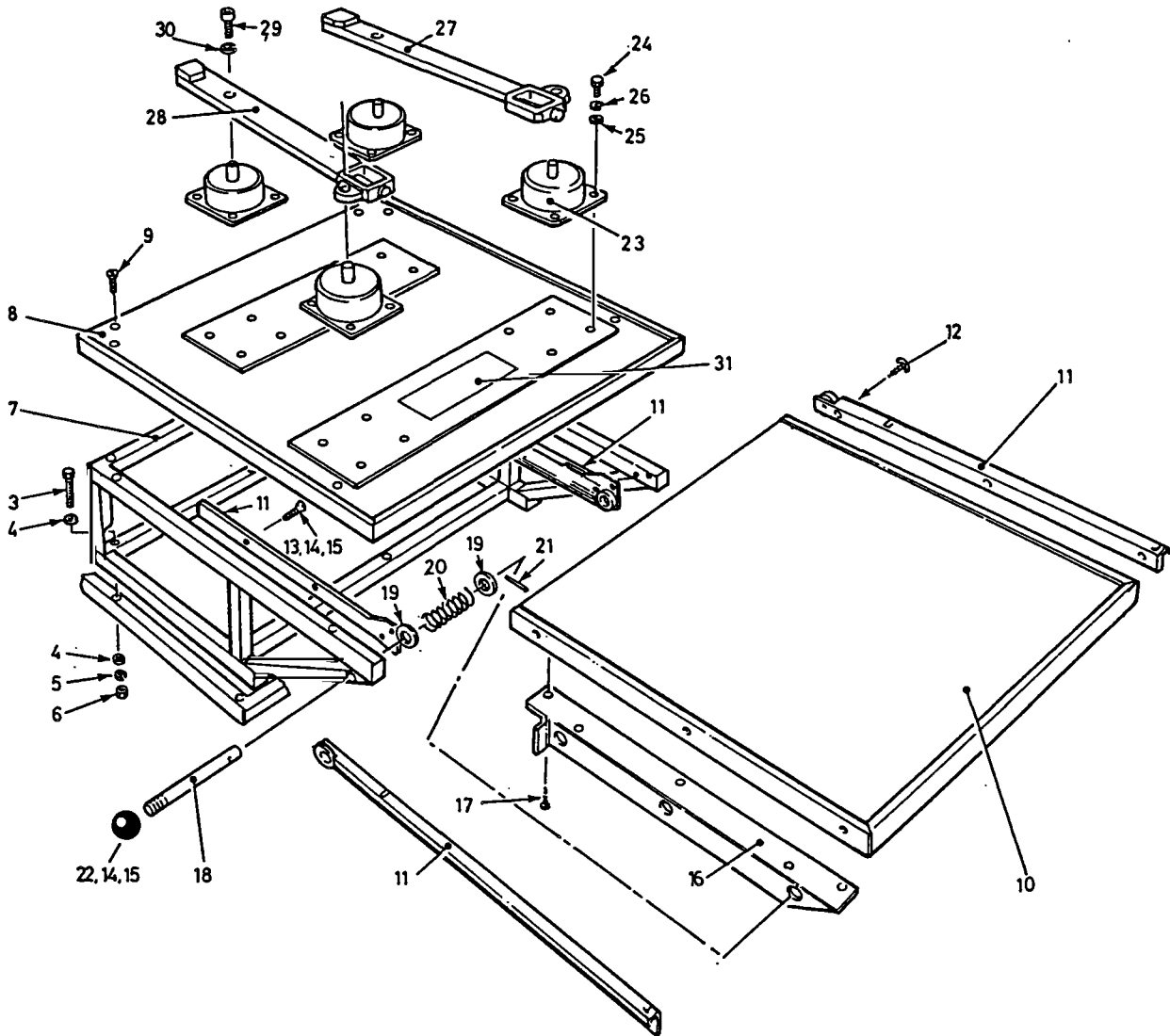


H5695

Fig 1 IDT Mounting frame assembly



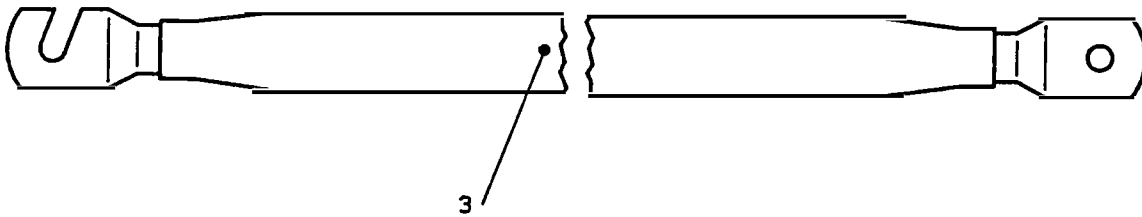
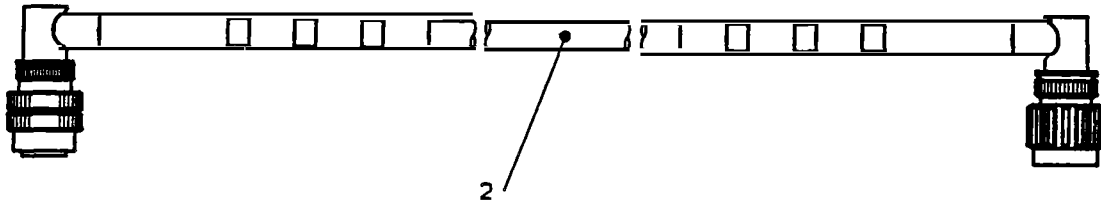
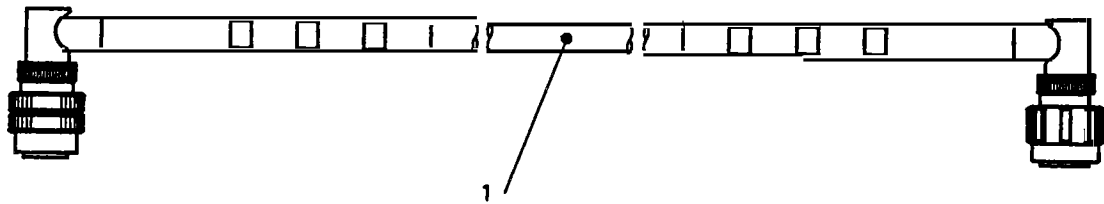
FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-19	G1	5310-99-122-6476	.. WASHER, FLAT, Form A, steel		2	
-20		5360-99-614-6724	.. COMPRESSION SPRING 1.25 in. lg st. steel	LC-038G-6	1	LEE SPRINGS
-21			.. TAPER PIN, GUD, 2 mm, 20 mm lg	GP1	1	Universal Fasteners
-22			.. KNOB (RED), Polythene with metal insert	109-284	1	WDS
-23			. SHOCKMOUNT	EIFH 886 C01	4	Stop Choc
-24	G1	5305-99-122-5356	. SCREW hex hd, M5, 16 mm lg, steel	.	16	
-25	G1	5310-99-122-3032	. WASHER, FLAT, M5, FORM A, steel		16	
-26	G1	5310-99-138-9226	. WASHER, LOCK, M5, steel		16	
-27	Z95	5820-99-521-3606	. BAR EQUIPMENT MOUNTING ASSEMBLY RH	FV 2081250	1	
-28	Z95	5820-99-950-3840	. BAR EQUIPMENT MOUNTING ASSEMBLY LH	FV 2081251	1	
-29	G1	5305-99-135-1374	. SCREW, skt cap hd, M6, 25 mm lg, steel		4	
-30	G1	5310-99-137-9232	. WASHER, LOCK, M6 steel		4	
-31			. LABEL, WARNING	FV 2162185	1	Existing
NI-32	Z32	5920-99-059-0144	. FUSE, CARTRIDGE 5A		3	
NI-33			. BAG, LINEN 7" x 5"	ND 21346B	1	Quick Pack



H 5695

Fig 1 IDT Mounting frame assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
NI-34	6MT4	5340-99-829-2250	. CLAMP LOOP, steel, zinc plate, D19 fxg hole D5		1	RISTS, 51100938
NI-35			. CABLE TIE RELEASABLE 7.5w 250 lg, nylon	ND21377K	10	Pt No. HELLERMANN, Rel 250
NI-36		5306-66-136-2726	. BOLT hex hd, M5 x 35 lg, steel, zinc plated		1	
NI-37		5310-99-657-9072	. NUT PLAIN hex, M6 steel, zinc plated		1	
NI-38	G1	5310-12-156-4956	. WASHER, int tooth, M6, steel, zinc plated		2	



H 6307

Fig 2 Cable Assemblies and Lead Electrical (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-219-2495	CABLE ASSEMBLY - IDT to 15 way dist box	FV 2050771/11	1	
-2	Z95	5995-99-976-1666	CABLE ASSEMBLY - IDT to MCE	FV 2050772/7	1	
-3	Z88	5995-99-783-5805	LEAD ELECTRICAL - IDT to earth stud on table rear	FV 2053568/8	1	



Chapter 2-6

PARTS LIST

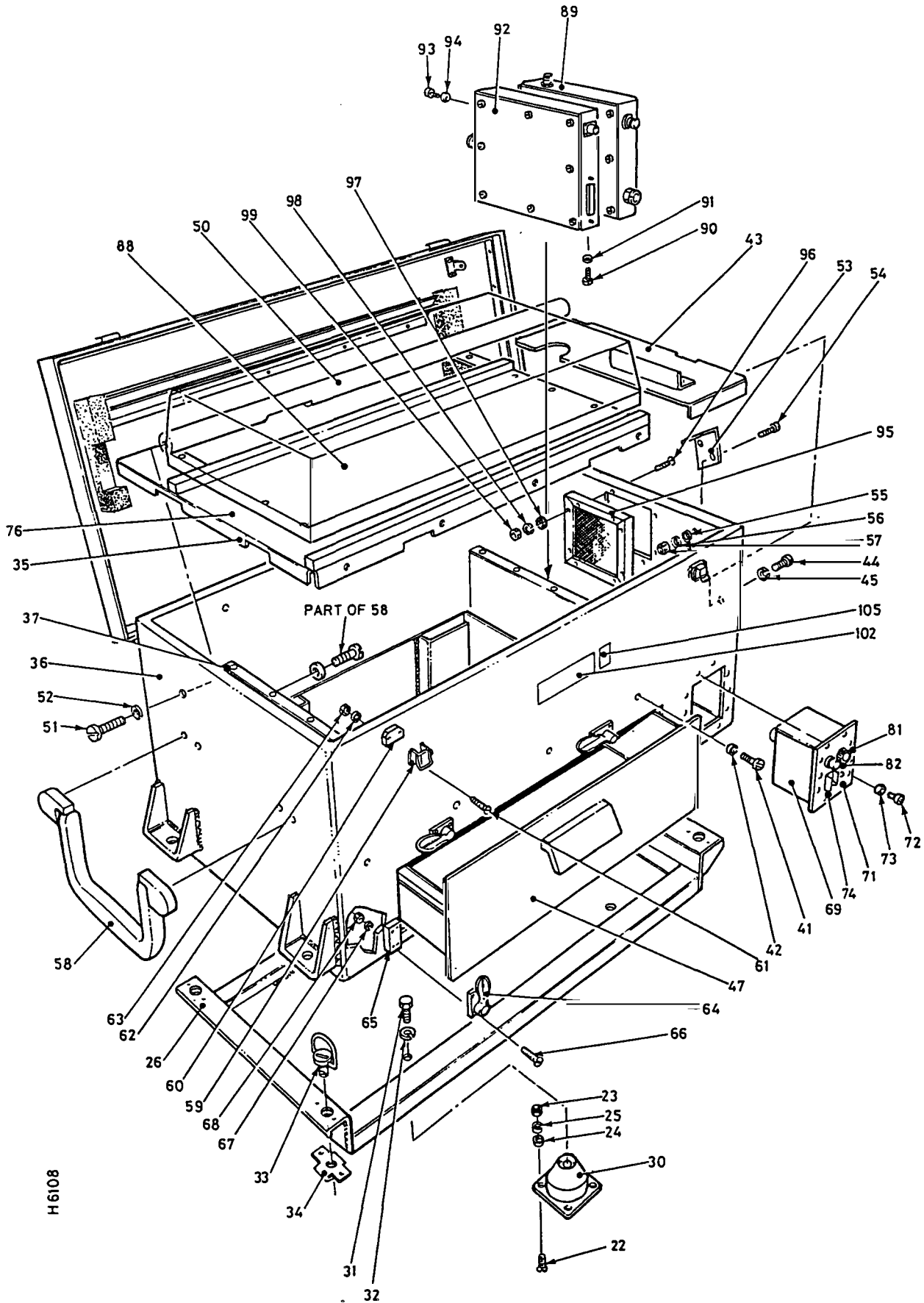
INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-738-9454 (FV 2162192)

PRINTER  
in TUM Land Rover GX (ADCIS)  
5820-99-926-3403 (CES 46563)





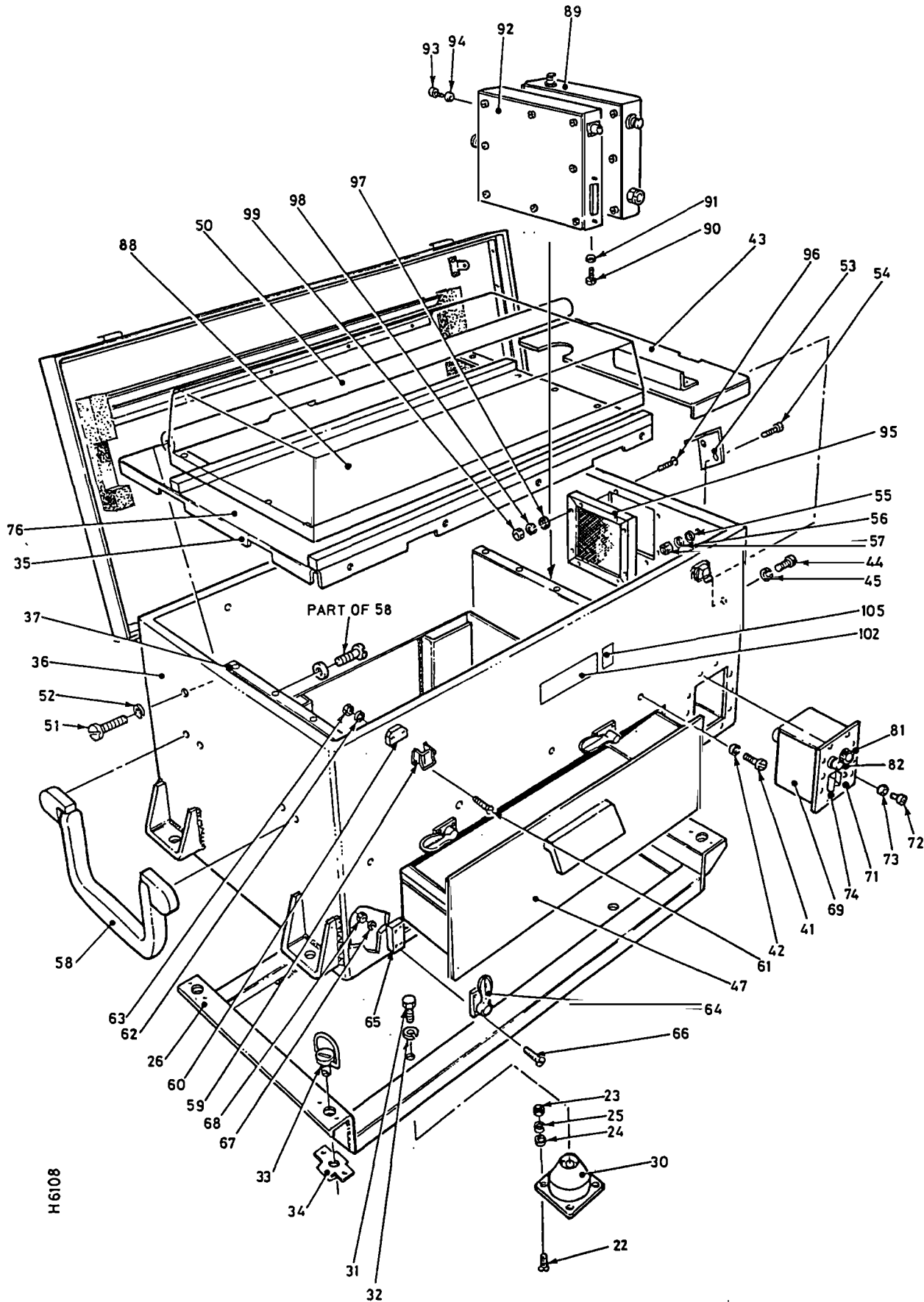




H6108

Fig 1 ADCIS Printer enclosure assembly

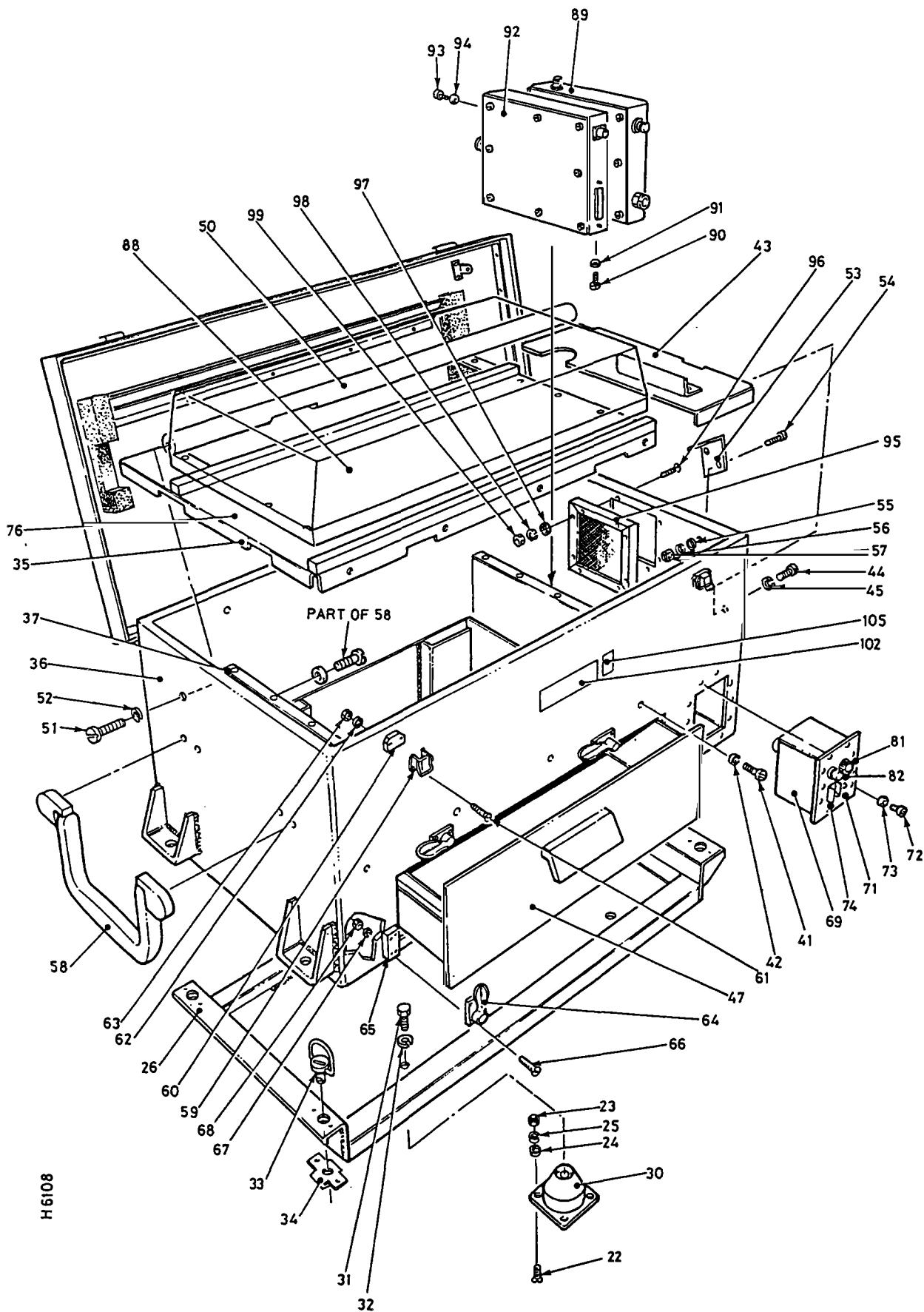
FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			INSTALLATION OF PRINTER ENCLOSURE		REF	
NI-1	Z95	5820-99-535-5565	.. INTERFACE ASSY PRINTER PLATE TO TABLE TOP WITH PULLOUT	FV 2162134	1	
NI-2			.. FRAME, PRINTER	FV 2162137	1	
NI-3			.. TABLE TOP PRINTER	FV 2162138	1	
NI-4	G1	5305-99-122-5288	.. SCREW, csk hd, M5 x 30 lg, steel		7	
NI-5			.. PLATE MOUNTING (PRINTER)	FV 2162236	1	
NI-6			.. ADHESIVE PVA EMULSION WATER BASED		A/R	
NI-7			.. RIVET POP, dmd hd, D5 14.5 lg	TAS/D 612 BH	20	TUCK FASTENERS
NI-8			.. RIVET POP, csk hd, D5 16.1 lg	TAS/K 612 BH	4	TUCK FASTENERS
NI-9			.. SLIDE OUT TOP PRINTER	FV 2162139	1	
NI-10			.. DRAWER SLIDE (RH & LH)	FV 2162258	1	
NI-11			.. SCREW, csk hd, No. 6 x 3/4" lg, steel	ND 259516	6	ORMOND LTD
NI-12	G1	5305-99-122-5277	.. SCREW, csk hd, M4 x 10 lg, steel		10	
NI-13			.. ACTIVATOR - COMPOUND THREAD LOCKING		A/R	
NI-14			.. BRACKET (ANGLE)	FV 2161912/1	1	
NI-15			.. SCREW, rnd hd, No. 8 x 1/2" lg, steel	ND 22227J	5	ORMOND LTD
NI-16			.. BOLT SPECIAL	FV 2161911	1	



H6108

Fig 1 ADCIS Printer enclosure assembly

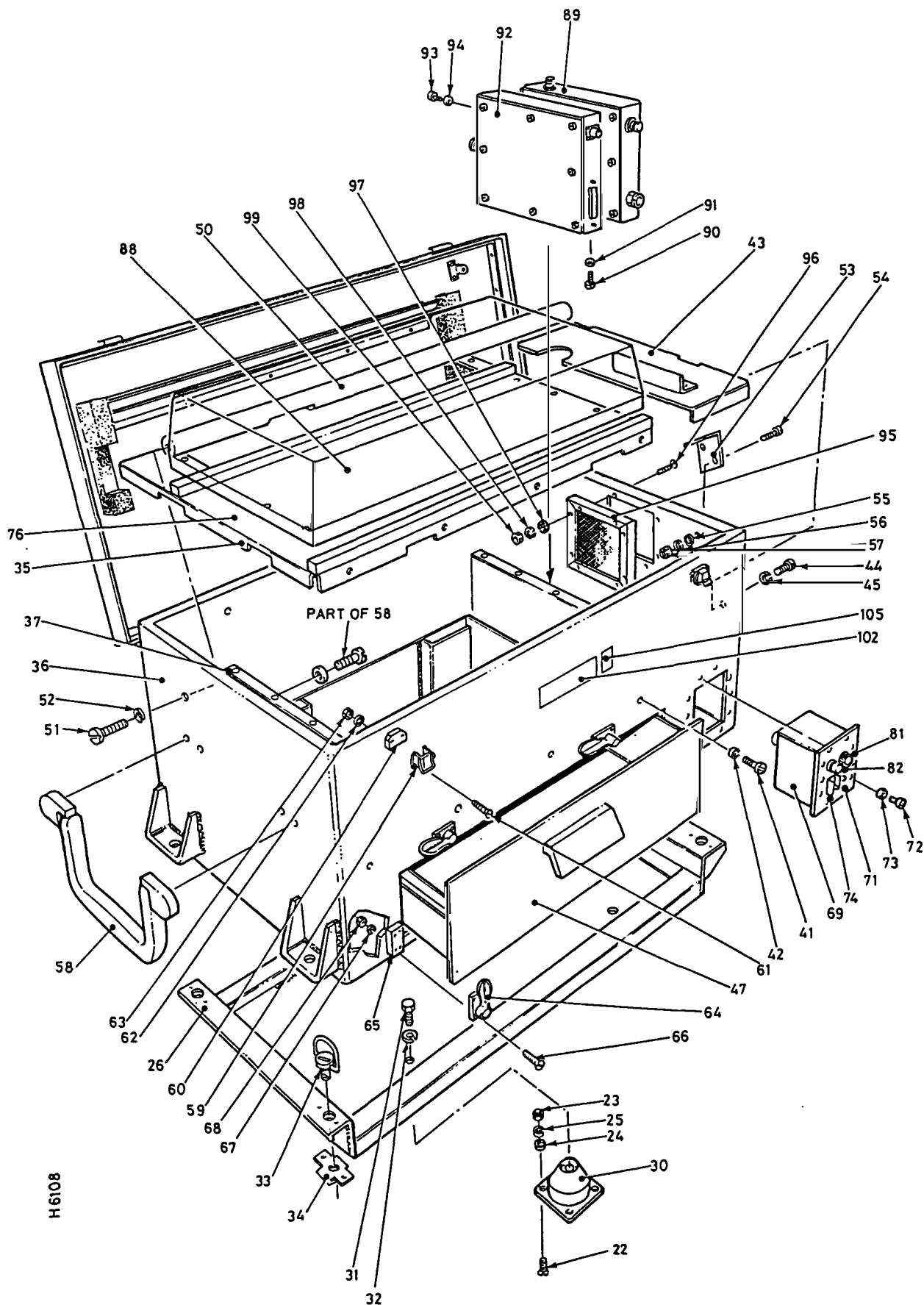
FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
NI-17	G1	5310-99-122-6476	.. WASHER FLAT, (Form A) steel		2	
NI-18			.. SPRING, COMPRESSION 1 1/4" lg, steel	LC-038G-6	1	LEE SPRINGS
NI-19			.. PIN, TAPER DIM 2 mm 20 lg	GP1	1	UNIVERSAL FASTENERS
NI-20			.. KNOB-BALL, RED DIM 25 bakelite	ND 25690X	1	WDS 8143-263
NI-21	Z95	5820-99-335-4642	. PRINTER ENCLOSURE ASSEMBLY	FV 2161594	1	
1-22	G1	5305-99-122-5279	. SCREW csk hd, M4, 16 mm lg, steel	.	16	
-23	G1	5310-99-135-0755	. NUT PLAIN, hex M4 steel zinc plate		16	
-24	G1	5310-99-122-3031	. WASHER FLAT, (Form A), M4, steel, zinc plate		16	
-25	G1	5310-99-138-9225	. WASHER LOCK, M4, steel, zinc plate		16	
-26			.. CHASSIS TRAY ASSEMBLY	FV 2161619	1	
NI-27			... CHASSIS TRAY	FV 2162008	1	
NI-28			... 9 mm RIVET PLATE	339 400 190	4	DZUS
NI-29			... RIVET POP SLD csk hd, Ø3.2 x 4.1 lg	AS 44 SB	8	TUCK FASTENERS
-30	Z98	5340-99-930-5389	.. MOUNT RESILIENT	E1E-43S-63ED	4	Stop Choc
-31	G1	5305-99-122-5360	.. SCREW, hex hd, M6, 16 mm lg, steel		4	
-32	G1	5310-99-137-9232	.. WASHER LOCK, M6, steel		4	
-33			.. 9mm Stud Ring	319 414 190	4	DZUS
-34			.. Steel Retainer	329 101 190	4	DZUS



H 6108

Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-35			. PRINTER ENCLOSURE SUB-ASSEMBLY	FV 2162073	1	
-36			.. ENCLOSURE-PRINTER	FV 2161597	1	
-37			.. PLATE - SUPPORT	FV 2161596	2	
NI-38			.. RIVET POP SLD, dmd hd, Ø4.0 x 11.0 lg	AD 58 SB	10	TUCK FASTENERS
NI-39			.. RIVET POP SLD dmd hd, Ø4.8 x 9.8 lg	AD 66 SB	4	TUCK FASTENERS
NI-40	G1	5306-99-135- 8622	... BOLT, hex hd M6 x 25 lg. steel		1	
-41	G1	5305-99-135- 0429	.. SCREW, pan hd, M5 x 12 mm lg, steel		14	
-42	G1	5310-99-138- 9226	.. WASHER, LOCK, M5, steel		14	
-43			.. PLATE - ACCESS	FV 2161617	1	
-44	G1	5305-99-135- 0429	.. SCREW, pan hd, M5 x 12 mm lg, steel		2	
-45	G1	5310-99-138- 9226	.. WASHER LOCK, M5, steel		2	
NI-46			.. RIVET POP SLD csk hd, Ø4.8 x 9.8 lg	AK 66 SB	6	TUCK FASTENERS
-47			.. TRAY PAPER - ASSEMBLY	FV 2161890	1	
NI-48			.. LID ASSEMBLY	FV 2161598	1	
NI-49			.. RIVET POP SLD dmd hd, Ø4.8 x 9.8 lg	AD 66 SB	2	TUCK FASTENERS
-50			.. ROLLER BAR	FV 2161892	1	
-51	G1	5305-99-135- 0440	.. SCREW pan hd, M6, 16 mm lg, steel		2	
-52	G1	5310-99-137- 9232	.. WASHER LOCK, M6, steel		2	
-53			.. ANGLE BRACKET (SLOTTED)	FV 2162000	1	

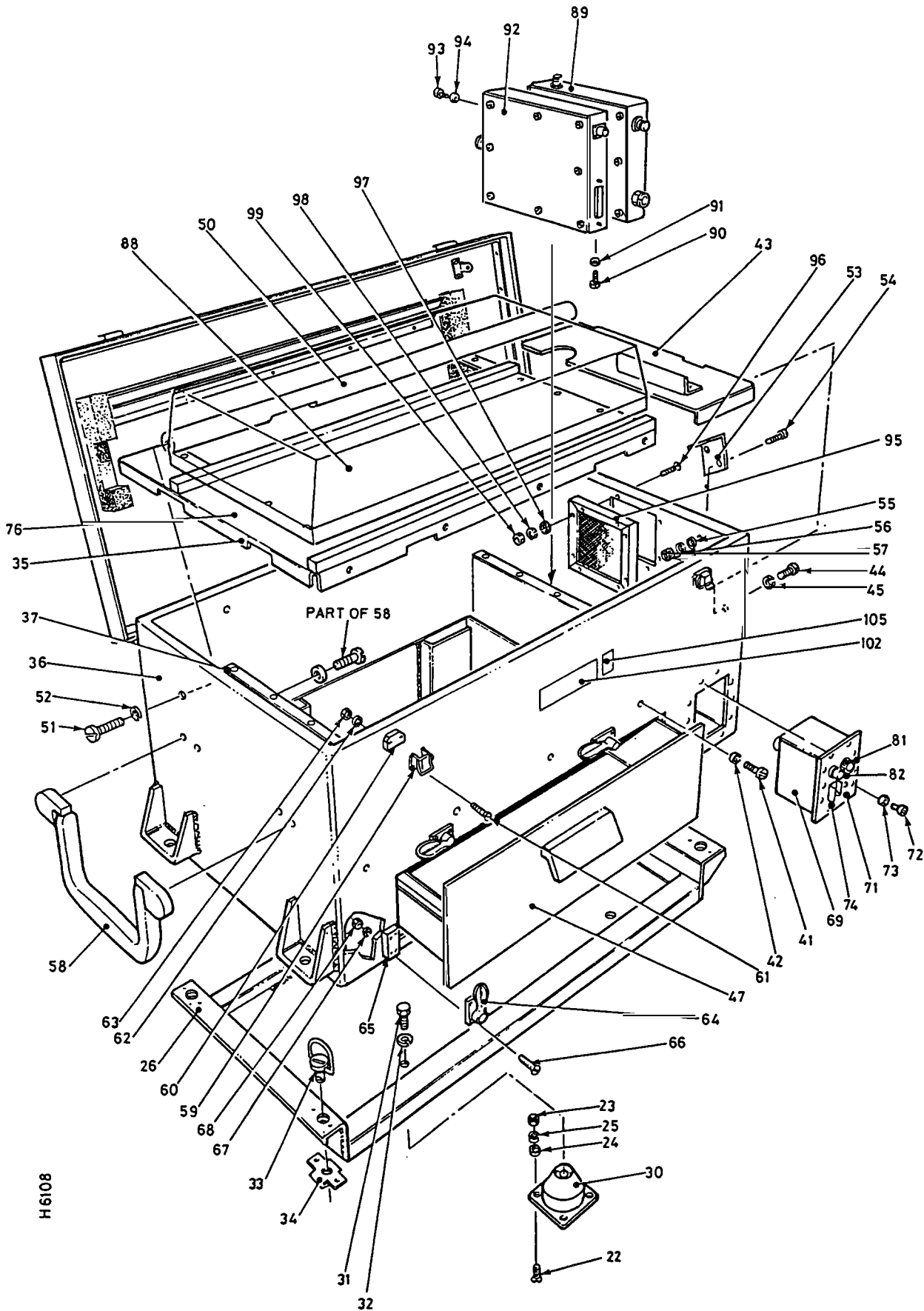


H6108

Fig 1 ADCIS Printer enclosure assembly



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-54	G1	5305-99-135-0423	.. SCREW pan hd, M4, 12 mm lg, steel		2	
-55	G1	5310-99-122-3031	.. WASHER FLAT, Form A, M4, steel		2	
-56	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		2	
-57	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		2	
-58			.. HANDLE	478K-HAN- 160PL (Style 47)	2	IMHOF-BEDCO
-59			.. FASTENER TOGGLE LATCH	TL8038	2	DZUS
-60			.. PACKING PLATE (5 mm)	FV 2162016	2	
-61	G1	5305-99-135-0423	.. SCREW pan hd, M4, 12 mm lg, steel		4	
-62	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		4	
-63	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		4	
-64			.. FASTENER GRAVELY SMALL	6098-2	4	Steda11
-65			.. PACKING PLATE (3 mm)	FV 2162015	4	
-66	G1	5305-99-135-0418	.. SCREW pan hd, M3, 16 mm lg, steel		16	
-67	G1	5310-99-138-9224	.. WASHER LOCK, M3, steel		16	
-68	G1	5310-99-135-0754	.. NUT PLAIN, hex, M3, steel		16	
-69			.. CHASSIS- SWITCH MTG ASSEMBLY	FV 2162006	1	
NI-70			... CHASSIS SWITCH MTG	FV 2161618	1	



H6108

Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-71			... CHASSIS SWITCH PLATE	FV 2162003	1	
-72	G1	5305-99-135-0425	... SCREW pan hd, M4 x 20 lg, steel		10	
-73	G1	5310-99-138-9225	... WASHER LOCK, M4, steel		10	
-74			... SWITCH GUARD	FV 2162007	1	
NI-75			... RIVET POP SLD dmd hd, Ø3.2 x 7.5 lg	AD 44 SB	1	TUCKER FASTENERS
-76	G1		... PLATE-MOUNTING	FV 2161595	1	
NI-77		5310-99-779-3610	... NUT THUMB M6, steel		1	W.D.S. TOOLING
NI-78	G1	5310-99-122-5295	... NUT PLAIN HEX, M6, steel		1	
NI-79	G1	5310-12-156-4956	... WASHER, INT TOOTH, M6, steel		4	
NI-80	G1	5310-99-137-9232	... WASHER, LOCK, M6, steel		1	
-81	Z32	5920-99-012-0231	... FUSEHOLDER SIZE '0'		1	
-82	X1	6250-99-012-0913	... LAMP HOLDER MIN FLANGE S6/8 Style BH-23		1	
NI-83	Z3	6210-99-639-9142	... LENS LIGHT CAP GREEN		1	
NI-84	Z32	5920-99-014-9578	... FUSE LINK 3 A SIZE 0, CERAMIC		1	
NI-85			... BULB MIDGET FLANGE LED 28 V GREEN		1	MARL INTERNATIONAL
NI-86			... CONN, PLUG, FIXED CIRC 8-4N	62GB-57A-8-4-PN	1	AMPHENOL
NI-87			... SWITCH 2 POLO C/O	TYPE 504 TO BS9572 F002	1	LUCAS/NSF
-88			.. PRINTER PERSONAL	2227A	1	Hewlet Packard (Quiet Jet Plus)

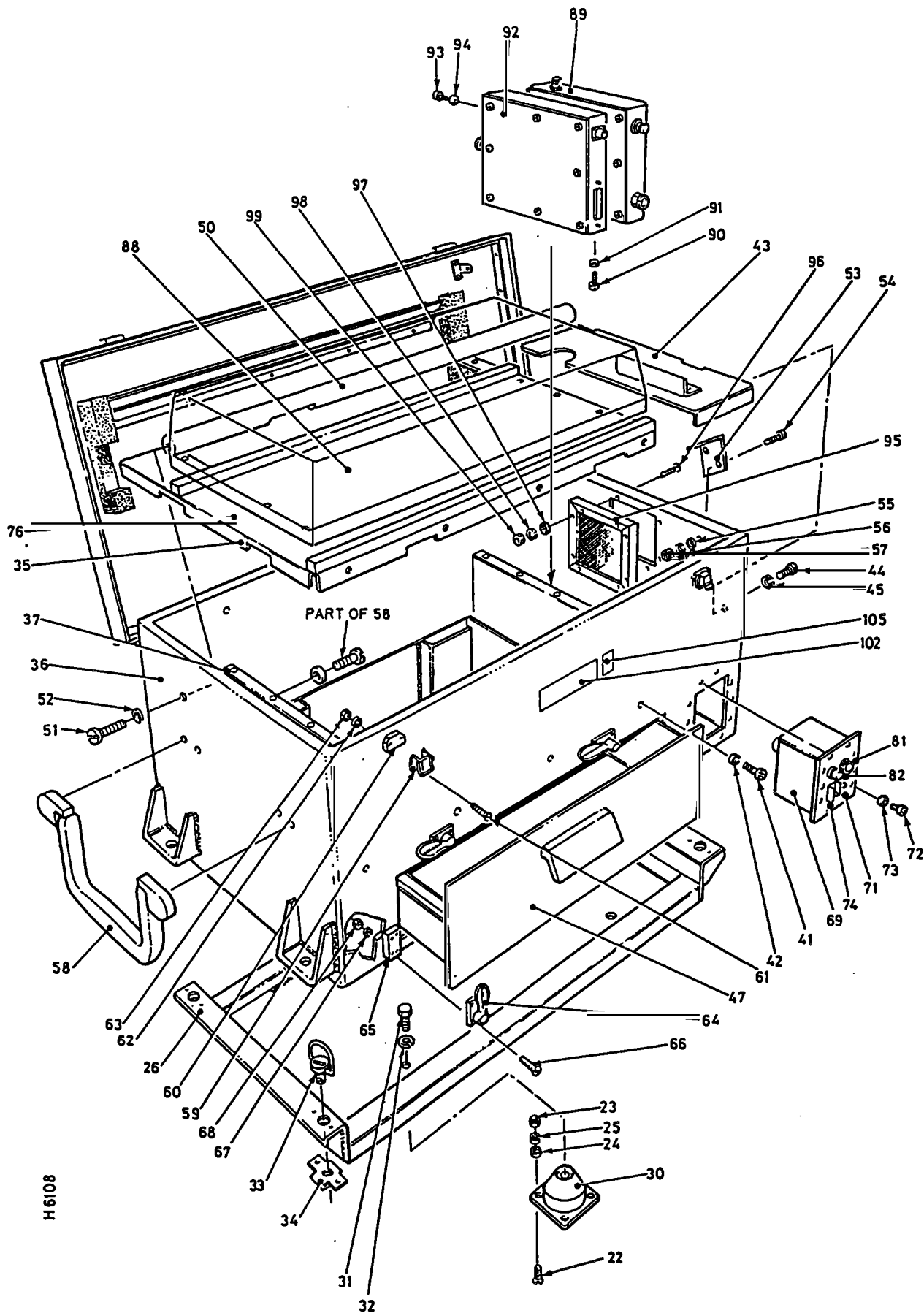
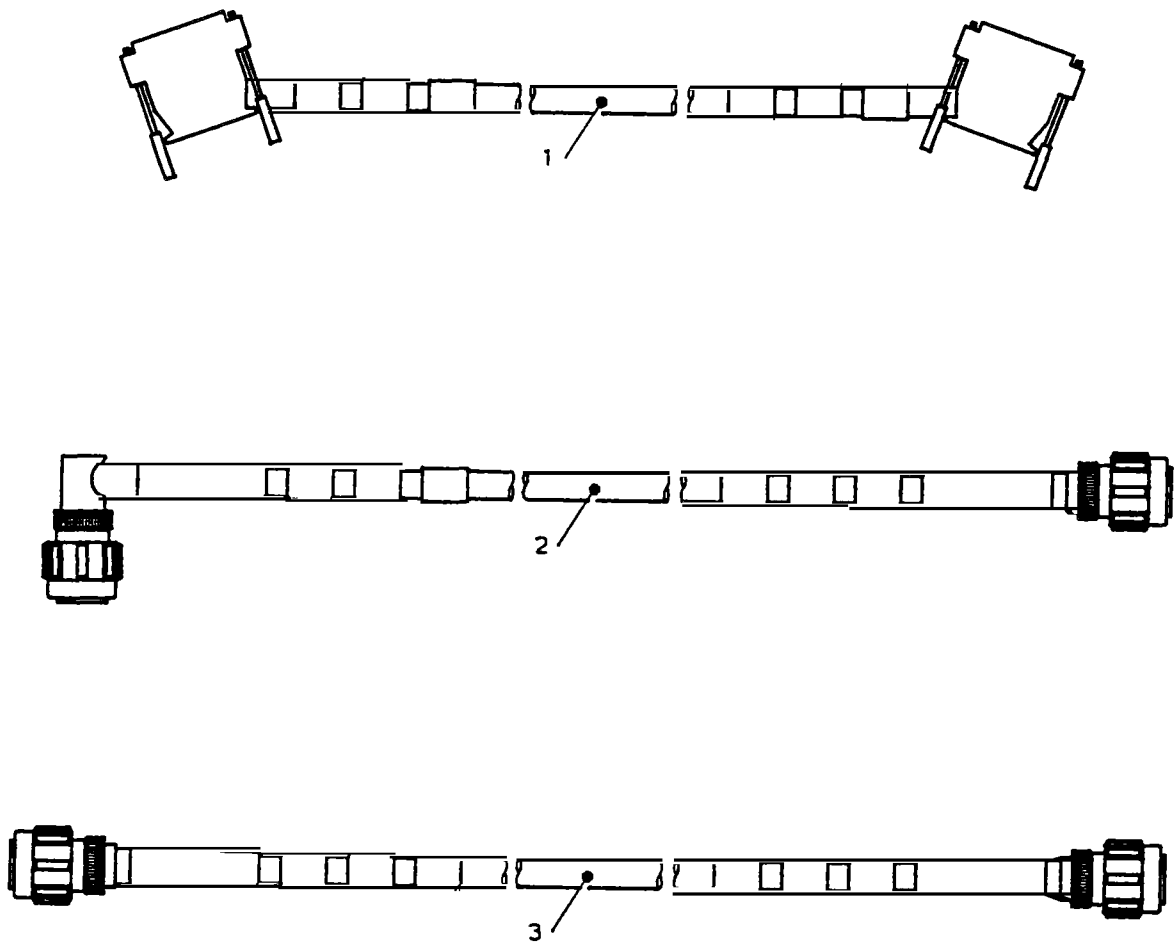


Fig 1 ADCIS Printer enclosure assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
89	Z95	5820-99-052-3953	.. TELEPRINTER SIGNAL MODULE		1	
90	G1	5305-99-135-0425	.. SCREW pan hd, M4, 20 mm lg, steel		3	
91	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		3	
92			.. TELEPRINTER POWER MODULE	FV 2161952	1	
93	G1	5305-99-135-0425	.. SCREW pan hd, M4, 20 mm lg, steel		3	
94	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		3	
95			.. VENT GRILLE	FV 2161891	1	
96	G1	5305-99-122-5281	.. SCREW csk hd, M4, 25 mm lg, steel		8	
97	G1	5310-99-122-3031	.. WASHER FLAT, Form A, M4, steel		8	
98	G1	5310-99-138-9225	.. WASHER LOCK, M4, steel		8	
99	G1	5310-99-135-0755	.. NUT PLAIN, hex, M4, steel		8	
NI 100			.. TRUNKING	FV 2161893	1	
NI 101			.. RIVET POP SLD dmd hd, Ø3.2 x 9.1 lg	AD 46 SB	3	TUCK FASTENERS
102			.. LABEL, NAMEPLATE	FV 2162004	1	
NI 103			.. TRUNKING	FV 2162005	1	
NI 104			.. RIVET POP SLD dmd hd, Ø3.2 x 9.1 lg	AD 46 SB	3	TUCK FASTENERS
105	Z2	9905-99-649-2246	.. PLATE MODIFICATION RECORD		1	
NI-106			.. ADHESIVE ANAEROBIC studlock 270		A/R	

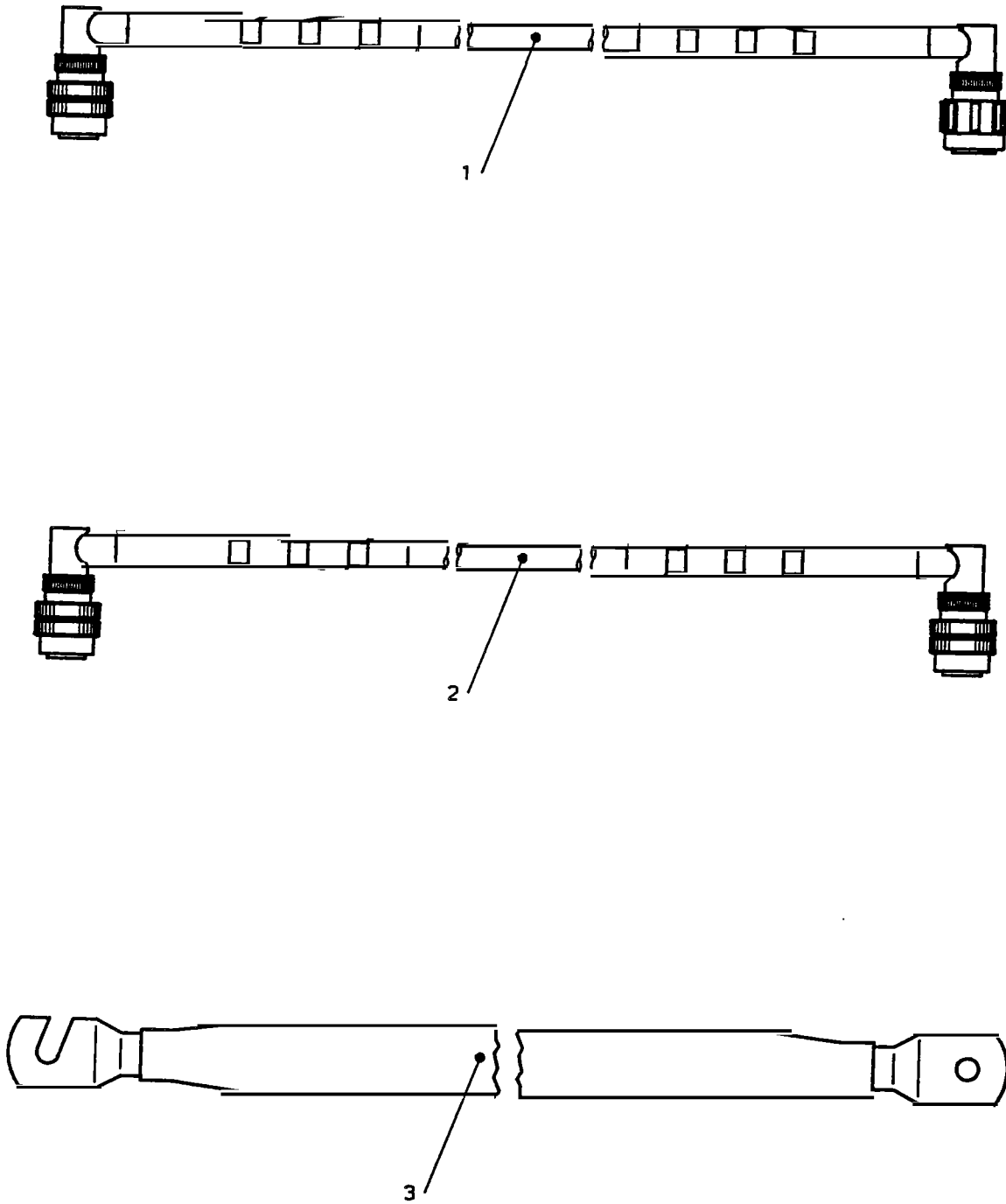


H 6192

Fig 2 ADCIS Printer enclosure cable assemblies



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-551-2409	.. CABLE ASSEMBLY Printer - Signal Module		1	
-2	Z95	5995-99-599-0387	.. CABLE ASSEMBLY Switch - Power Module		1	
-3	Z95	5995-99-721-3676	.. CABLE ASSEMBLY Signal Module - Power Module		1	



H 6301

Fig 3 Cable assemblies and lead electrical (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
3-1	Z95	5995-99-052-3997	CABLE ASSEMBLY - printer to 15 way dist box	FV 2050771/10	1	
-2	Z95	5995-99-728-3012	CABLE ASSEMBLY - printer to IDT	FV 2050774/5	1	
-3	Z88	5995-99-783-5111	LEAD ELECTRICAL - printer to frame earth	FV 2053567/9	1	
NI-4	G1	5306-99-136-2726	.. BOLT hex hd, M5 x 35 lg steel, zinc plate		3	
NI-5	G1	5306-99-122-5259	.. BOLT hex hd, M8 x 70 lg steel, zinc plate		4	
NI-6	G1	5310-99-122-5296	.. NUT PLAIN HEX, M8, steel, zinc plate		4	
NI-7	G1	5310-99-122-3032	.. WASHER FLAT, M5 (FORM A) steel, zinc plate		3	
NI-8	G1	5310-99-122-6475	.. WASHER FLAT, M8 (FORM A) steel, zinc plate		4	
NI-9	G1	5310-99-138-9226	.. WASHER LOCK M5		3	
NI-10	G1	5310-99-138-9227	.. WASHER LOCK M8		4	
NI-11		5310-12-154-3949	.. WASHER int tooth M8		4	
NI-12	6TM4	5340-99-805-0915	.. CLAMP LOOP, steel		3	
NI-13	Z32	5920-99-059-0146	.. FUSE CARTRIDGE 10A, size 1		3	
NI-14			.. CABLE TIE RELEASABLE 7.5W 250 lg, nylon	ND 21377K	10	
NI-15			.. BAG LINEN 7" x 5" draw string	ND 21346B	1	



Chapter 2-7

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-096-2824 (FV 2162193)

MCE  
in TUM Land Rover GX (ADCIS)  
5820-99-940-5050 (CES 46564)





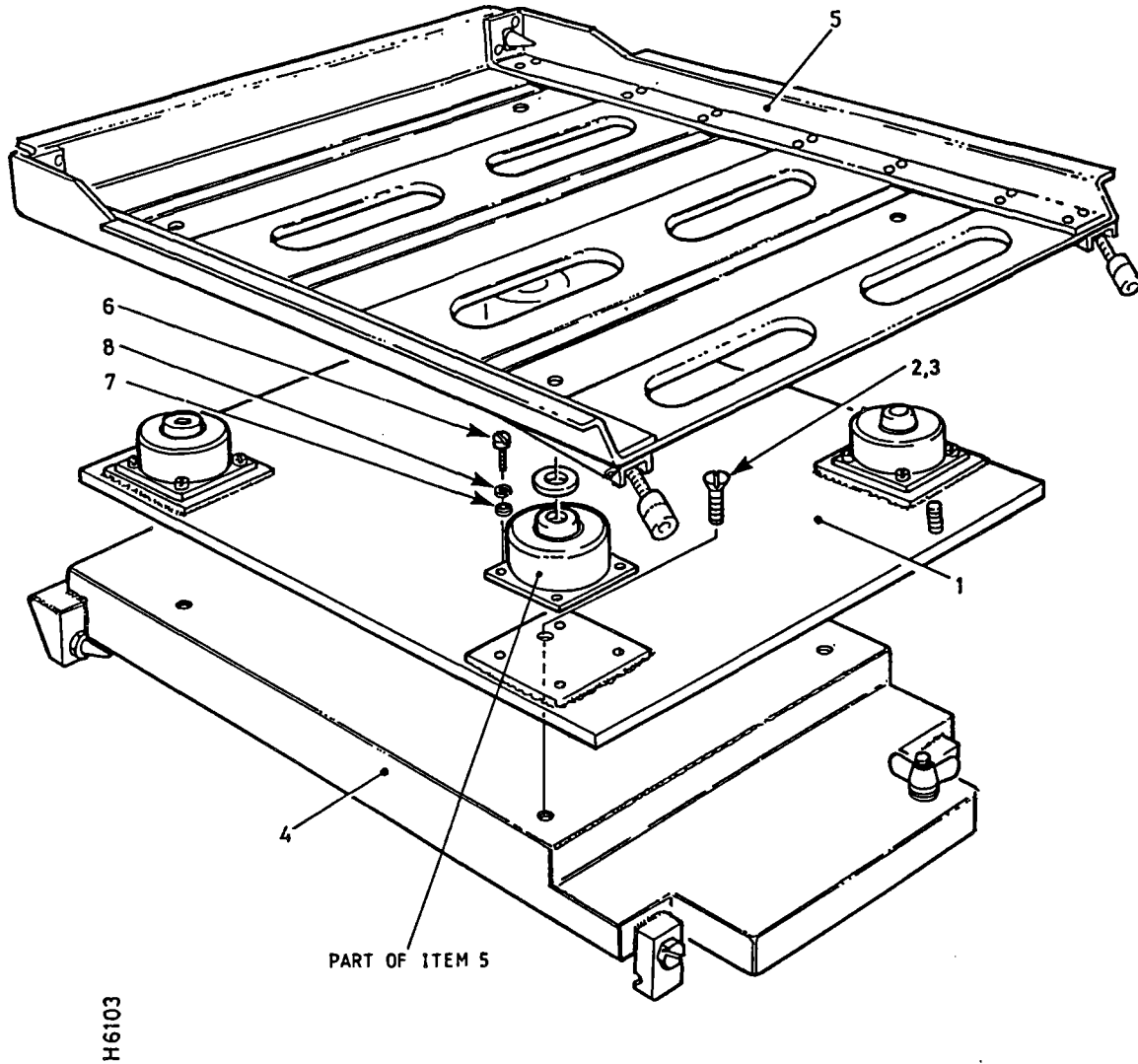
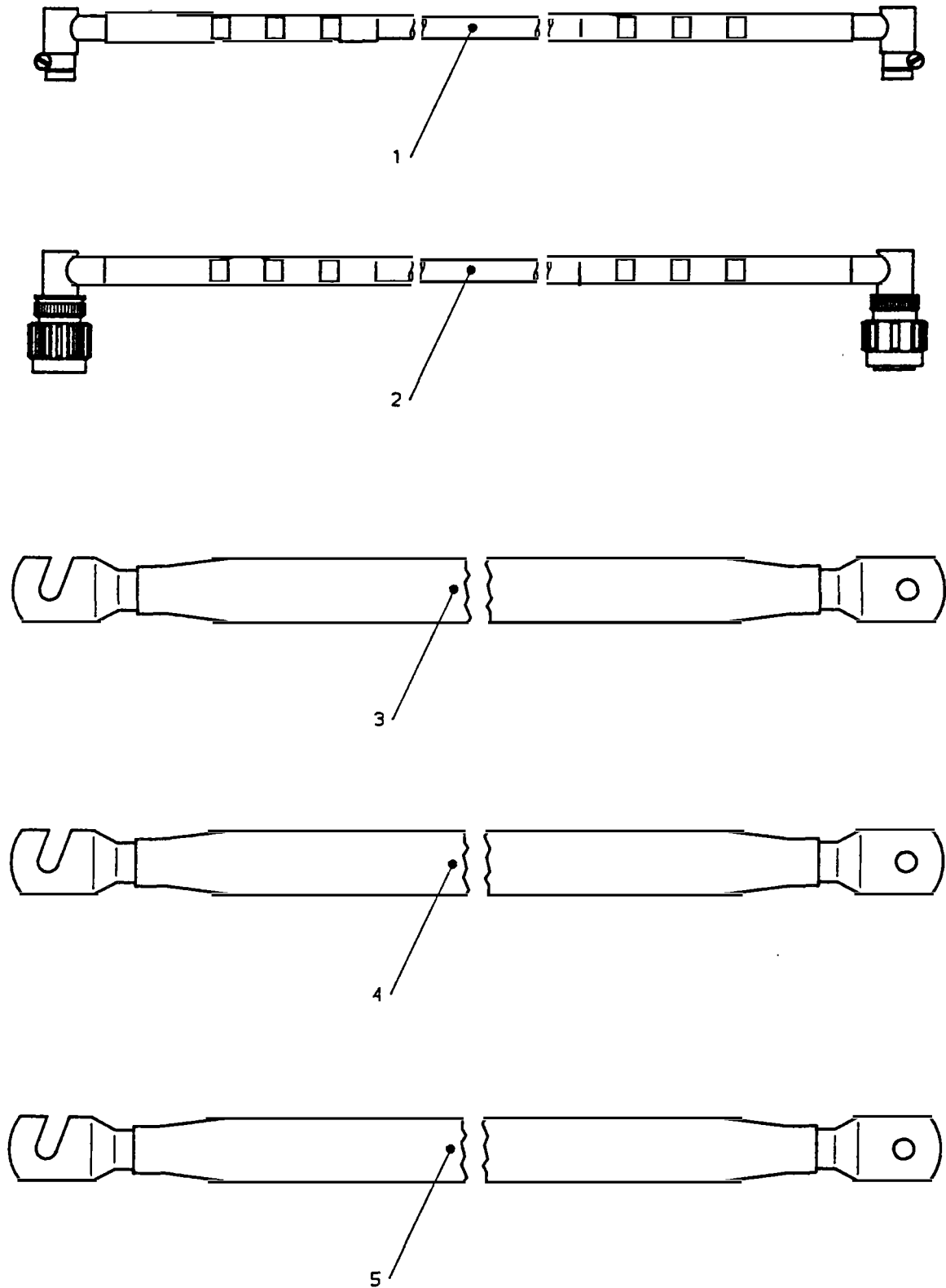


Fig 1 MCE Mounting (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5340-99-872-8860	INSTALLATION OF MCE . PLATE MOUNTING MCE (GX)	FV 2162135	REF 1	
-2	G1	5305-99-122-5291	. SCREW, csk hd, M6, 20 mm lg, steel		4	
-3	H1	8030-99-224-8261	. COMPOUND LOCKING		A/R	Loctite, 241
-4		5975-99-637-0990	. TRAY MOUNTING ELECTRONIC EQUIPMENT		1	
-5	Z88	5820-99-215-1882	. MCE COMPLETE WITH TRAY		REF	CES 46532
-6	G1	5305-99-135-0424	. SCREW pan hd, M4 16 mm lg, steel		16	
-7	G1	5310-99-122-3031	. WASHER, FLAT, Form A, M4, steel		16	
-8	G1	5310-99-138-9225	. WASHER, LOCK, M4, steel		16	
NI-9	Z32	5920-99-059-0144	. FUSE, CARTRIDGE 5A		3	
NI-10			. BAG LINEN 7" x 5"	ND 21346B	1	Quick Pack
NI-11		5310-99-657-9072	. NUT PLAIN hex, M6, steel		3	
NI-12	G1	5310-12-156-4956	. WASHER, LOCK, int. tooth, M6, steel		6	
NI-13			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	



H 6302

Fig 2 Cable assemblies and leads electrical (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-755-2956	CABLE ASSEMBLY - MCE to CIG	FV 2050482/4	1	
-2	Z95	5995-99-360-4373	CABLE ASSEMBLY - MCE to 15 way dist box	FV 2050773/7	1	
-3	Z88	5995-99-783-5800	LEAD ELECTRICAL - MCE to MCE MTG plate	FV 2053568/3	1	
-4	Z95	5995-99-300-7208	LEAD ELECTRICAL - MCE MTG plate to MCE/radio interface plate	FV 2053562/2	1	
-5	Z88	5995-99-783-5805	LEAD ELECTRICAL - MCE/Radio interface plate to table top earth	FV 2053568/8	1	



Chapter 2-8

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-708-9571 (HCT 129041)

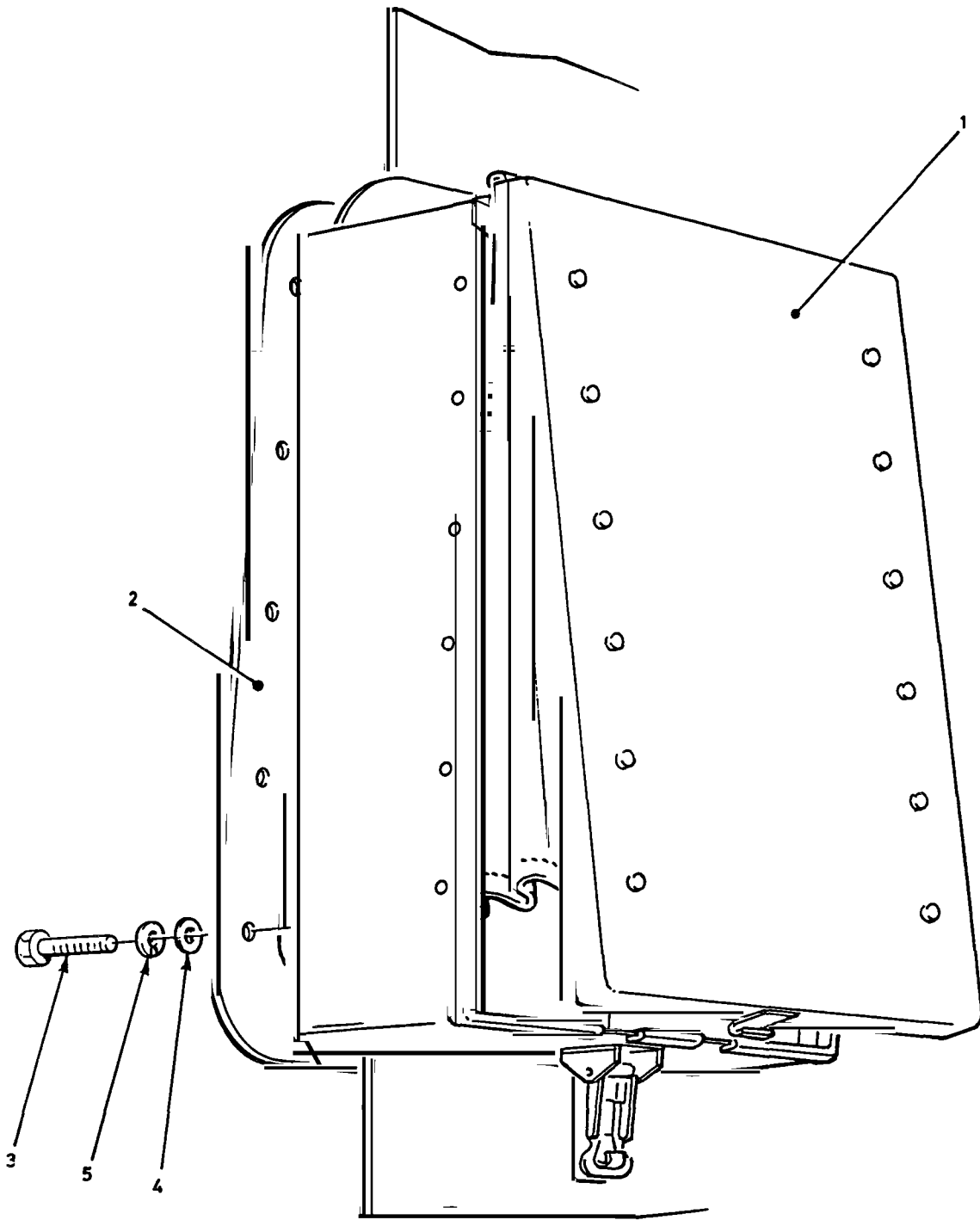
INPUT PANEL R/H (RED)  
in TUM Land Rover GX (ADCIS)  
5820-99-807-1567 (CES 46575)

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H6105

Fig 1 Input panel RH (Red)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			INSTALLATION OF INPUT PANEL R/H (RED)			
	Z95	5820-99-147-0341	. INPUT BOX INSTALLATION R/H	HCT 129020	1	
1-1			.. INPUT BOX ASSEMBLY R/H	HCT 129022	1	
-2			.. INNER PLATE (WINDOW)	HCT 129025	1	
-3			.. SCREW, hex hd, M4, 16 mm lg, steel	BS 3692	14	
-4	G1	5310-99-122-3031	.. WASHER, FLAT, (Form A), M4, steel		14	
-5	G1	5310-99-138-9225	.. WASHER, LOCK, M4, steel		14	
NI-6	Z95	5820-99-915-3780	. CABLE SUPPORT REAR	HCT 129039/2	1	
NI-7	Z95	5820-99-496-0856	. CABLE SUPPORT FRONT	HCT 129040/2	1	
NI-8	Z95	5820-99-374-7119	. CHECK STRAP INSTALLATION	HCT 129043	1	

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Chapter 2-9

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-701-4419 (HCT 129042)

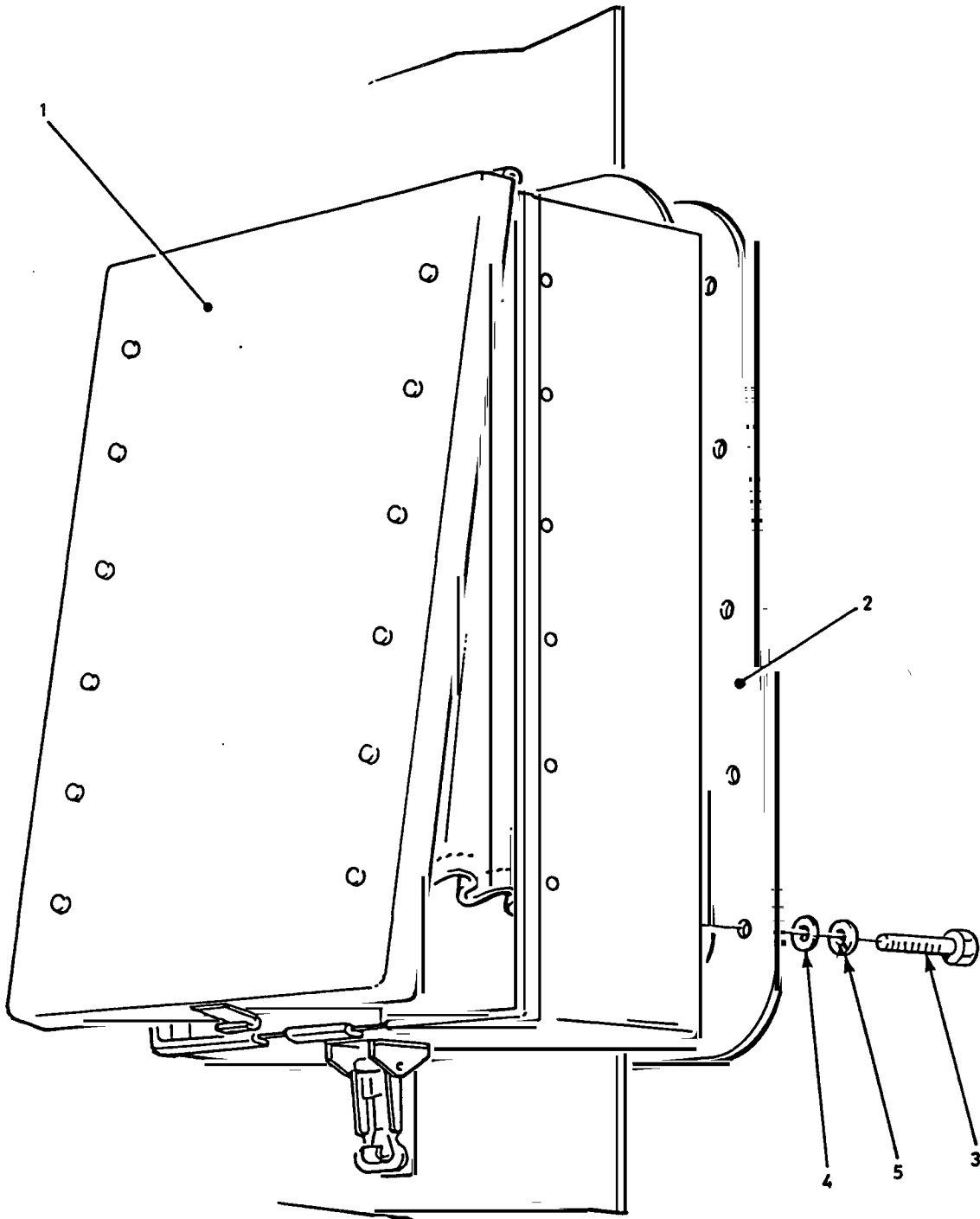
INPUT PANEL L/H (BACK)  
in TUM Land Rover GX (ADCIS)  
5820-99-320-4722 (CES 46576)

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H6104

Fig 1 Input panel LH (Black)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			INSTALLATION OF INPUT PANEL L/H (BLACK)			
1-1	Z95	5820-99-831-1996	. INPUT BOX INSTALLATION L/H	HCT 129021	1	
-2			.. INPUT BOX ASSEMBLY L/H	HCT 129023	1	
-3			.. INNER PLATE (WINDOW)	HCT 129025	1	
-4	G1	5310-99-122-3031	.. WASHER FLAT (Form A), M4, steel		14	
-5	G1	5310-99-138-9225	.. WASHER, LOCK, M4, steel		14	
NI-6	Z95	5820-99-779-8560	. CABLE SUPPORT REAR	HCT 129039/1	1	
NI-7	Z95	5820-99-051-6366	. CABLE SUPPORT FRONT	HCT 129040/1	1	



Chapter 2-10

PARTS LIST

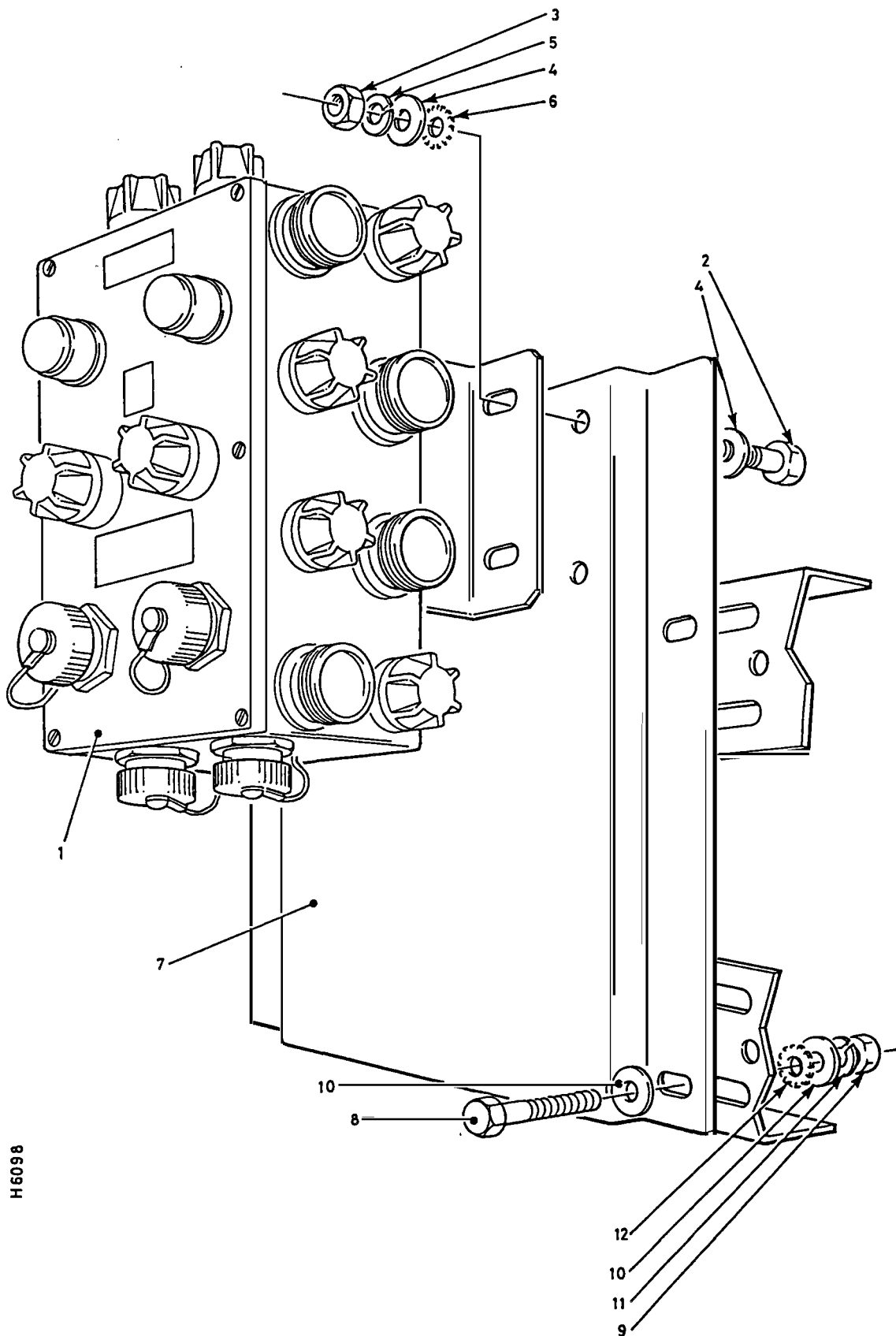
INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-460-8754 (FV 2162209)

POWER DISTRIBUTION BOX  
in TUM Land Rover GX (ADCIS)  
5820-99-811-5128 (CES 46574)









H 6098

Fig 1 15 Way power distribution box

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1			INSTALLATION OF 15 WAY POWER DISTRIBUTION			
			. 15 WAY DISTRIBUTION BOX	SD4/263965	1	
-2	G1	5305-99-122-5366	. SCREW, hex hd, M8, 20 mm lg, steel		4	
-3	G1	5310-99-122-5296	. NUT, PLAIN, hex, M8, steel		4	
-4	G1	5310-99-786-2239	. WASHER, FLAT, (FORM G), M8, steel	BS 4320	8	
-5	G1	5310-99-138-9227	. WASHER, LOCK, M8, steel		4	
-6	G1	5310-12-143-7999	. WASHER, EXTERNAL TOOTH, M8, steel		4	
-7	Z95	5340-99-445-5730	. PLATE MOUNTING (15 WAY DISTRIBUTION BOX)	FV 2162239	1	
-8	G1	5305-99-122-5366	. SCREW, hex hd, M8, 20 mm lg, steel		4	
-9	G1	5310-99-122-5296	. NUT, PLAIN, hex, M8, steel		4	
-10		5310-99-786-2239	. WASHER, FLAT, (FORM G) M8, steel	BS 4320	8	
-11	G1	5310-99-138-9227	. WASHER, LOCK, M8, steel		4	
-12	G1	5310-12-143-7999	. WASHER, LOCK, EXTERNAL, TOOTH, M8, steel		4	

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Chapter 2-11

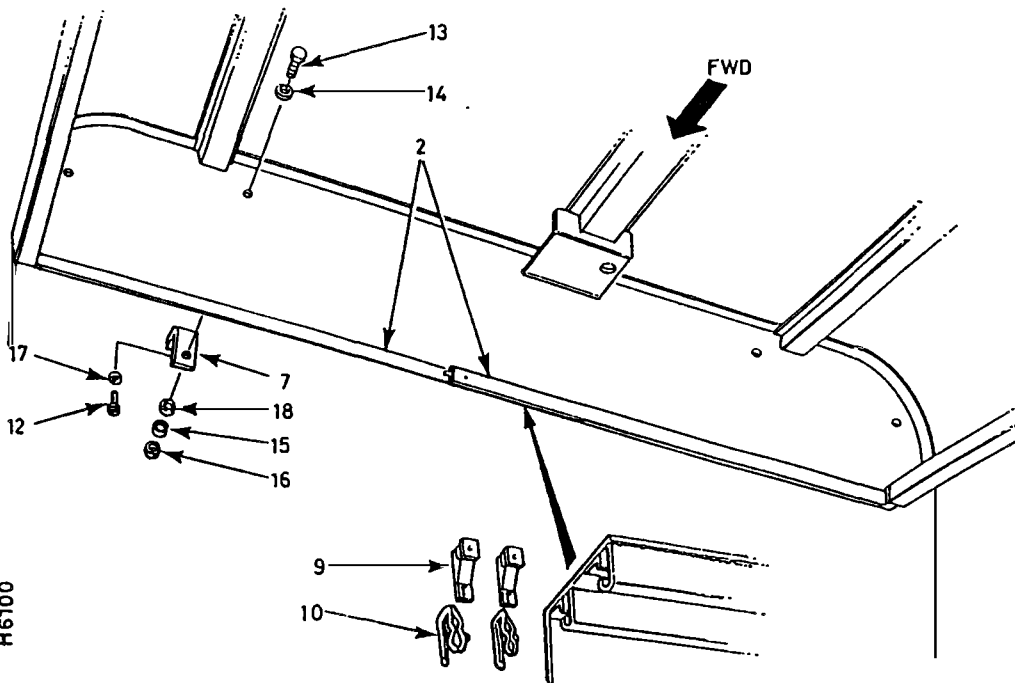
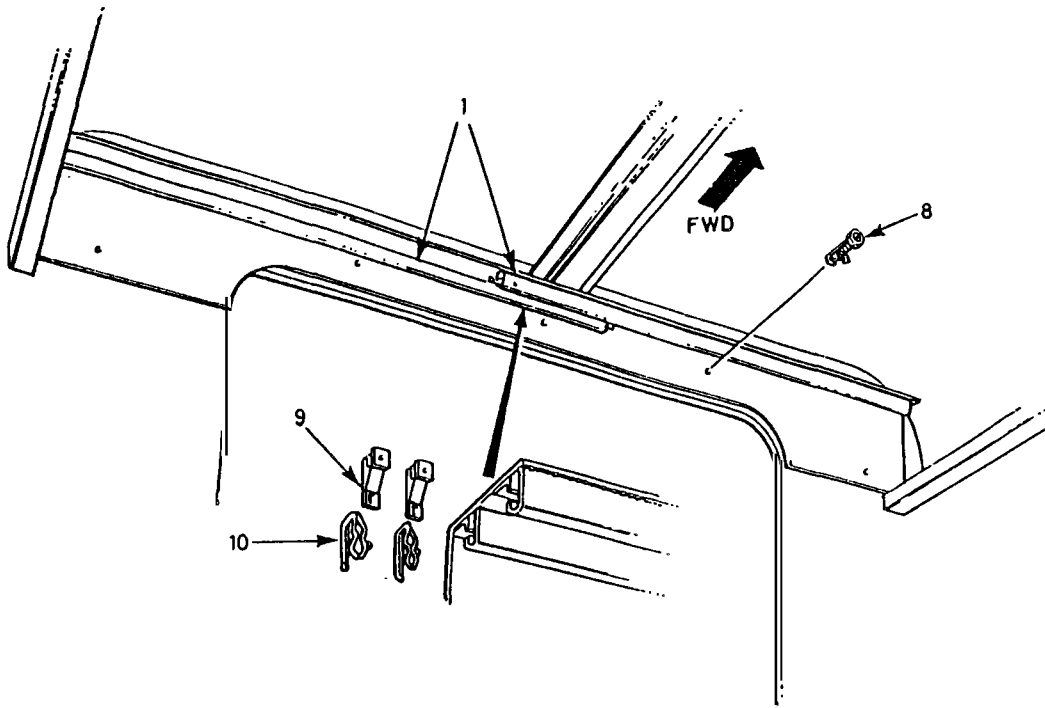
PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-147-0159 (FV 2162194)

BLACKOUT AND LIGHTING  
in TUM Land Rover GX (ADCIS)  
5820-99-755-4994 (CES 46565)







H6100

Fig 1 Blackout curtain installation (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			BLACKOUT AND LIGHTING (GX)			
	Z95	7230-99-172-9673	. BLACKOUT CURTAIN INSTALLATION (GX)	FV 2162238	1	
1-1			. CURTAIN RAIL ASSEMBLY	FV 2162093	1	
-2			. CURTAIN RAIL ASSEMBLY	FV 2162094	1	
NI-3			. BLACKOUT CURTAIN	FV 2162095/1	1	
NI-4			. BLACKOUT CURTAIN	FV 2162095/2	1	
NI-5			. BLACKOUT CURTAIN	FV 2162096/1	1	
NI-6			. BLACKOUT CURTAIN	FV 2162096/2	1	
-7			. BRACKET	FV 2162097	4	
-8			. LATCH-PAWL, slotted hd, steel	DP-109-5A	5	DZUS
-9			. HOOK	20083	76	Antiference
-10			. HOOK	R67	80	
NI-11			. LOCK SLIDE	9494	8	Antiference
-12			. RAWLNUT, M4, 20 mm lg, steel		4	
-13	G1	5305-99-122-5357	. SCREW, hex hd, M5, 20 mm lg, steel		4	
-14	G1	5310-99-139-0309	. WASHER, FLAT (FORM C) M5, steel		4	
-15	G1	5310-99-138-9226	. WASHER, LOCK, M5, steel		4	
-16	G1	5310-99-122-5294	. NUT PLAIN, M5, steel		4	
-17	G1	5310-99-138-9225	. WASHER, LOCK, M4, steel		4	
-18			. WASHER, FLAT, M5, (FORM G), steel	BS 4320	4	

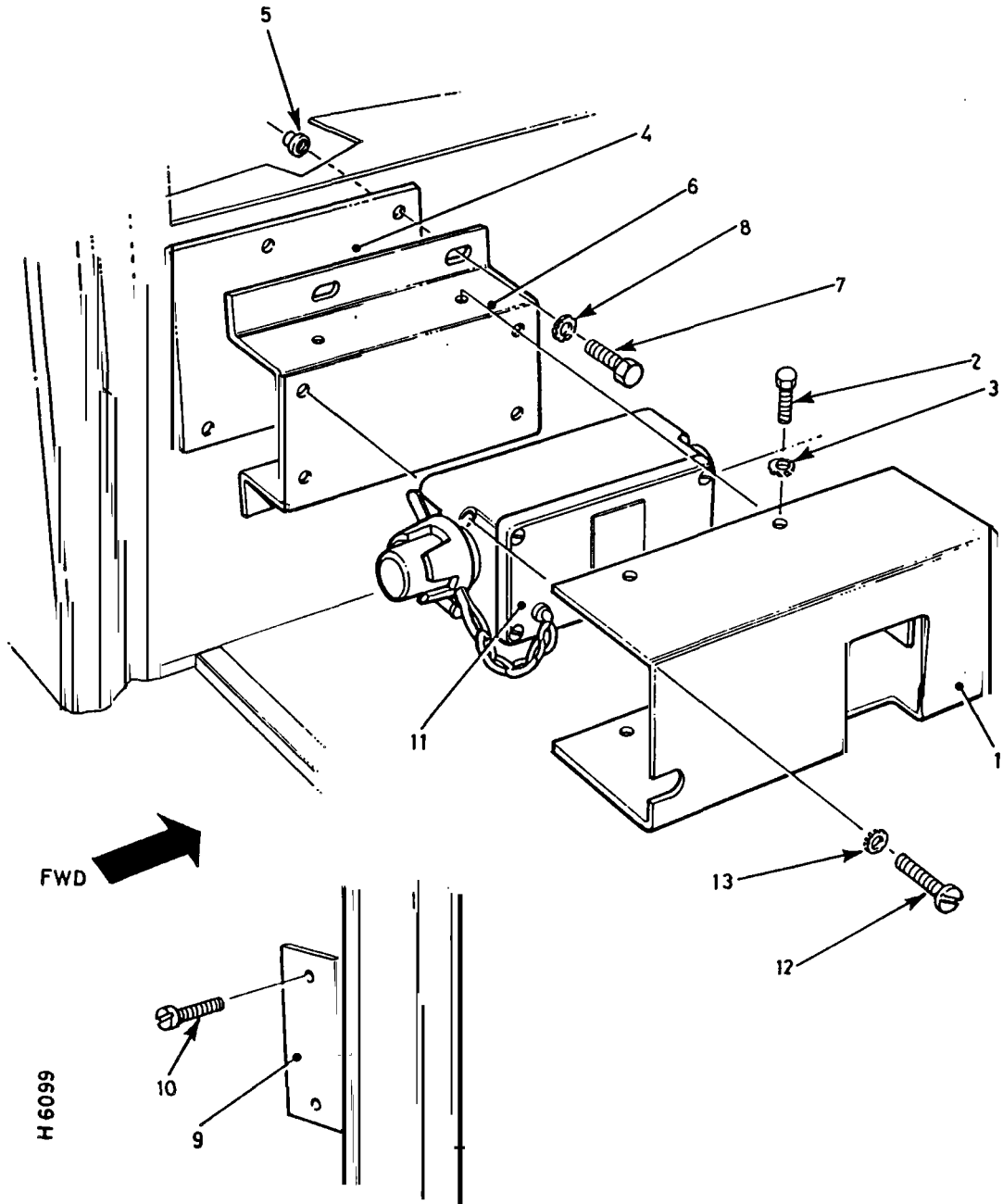


Fig 2 Micro switch mounting assembly (Blackout Switch)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
	Z95	5930-99-786-2405	. MICRO SWITCH MOUNTING ASSEMBLY	FV 2162100	1	
2-1			.. GUARD	FV 2162233	1	
-2	G1	5305-99-138-3707	.. SCREW, hex hd, M4, 12 mm lg, steel		4	
-3		5310-12-153-8566	.. WASHER, EXTERNAL TOOTH, M4, steel		4	
-4			.. INTERFACE PLATE	FV 2162215	1	
-5			.. BUSH, BLIND RIVET, csk hd, M6	UFO 45	4	Lintite
-6			.. MOUNTING PLATE	FV 2162213	1	
-7	G1	5305-99-122-5362	.. SCREW, hex hd, M6, 25 mm lg, steel		4	
-8	G1	5310-12-156-4913	.. WASHER, EXTERNAL TOOTH, M6, steel		4	
-9			.. STRIKER PLATE	FV 2162214	1	
-10	G1	5305-99-120-5485	.. SCREW, pan hd, No. 6 x 9.5 lg, steel		2	
-11	G1	5930-99-100-3821	.. SWITCH, MICRO 5 A		1	
-12	G1	5305-99-135-0434	.. SCREW, pan hd, M5, 35 mm lg, steel		4	
-13	G1	5310-12-146-3828	.. WASHER, EXTERNAL TOOTH, M5, steel		4	

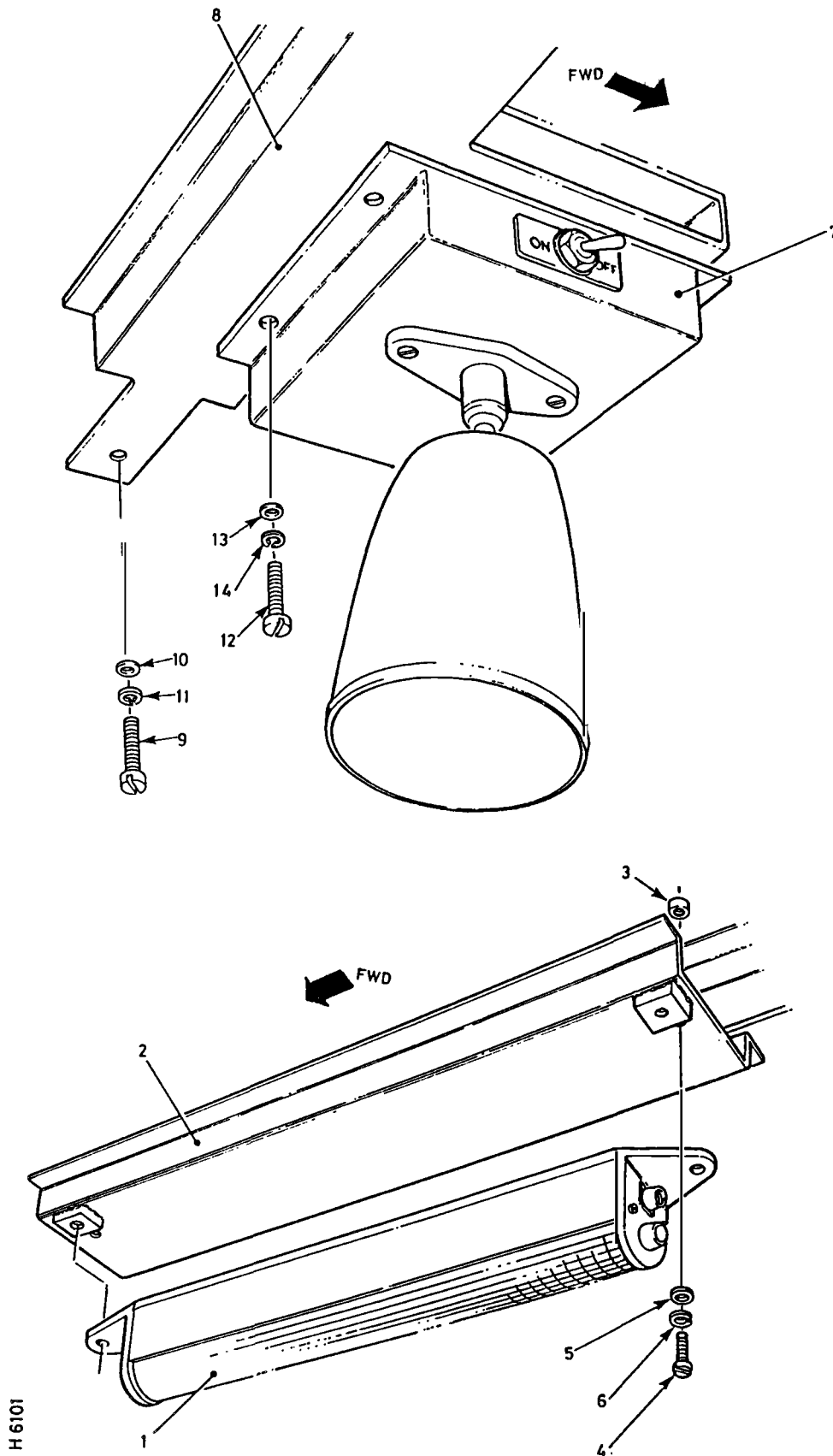
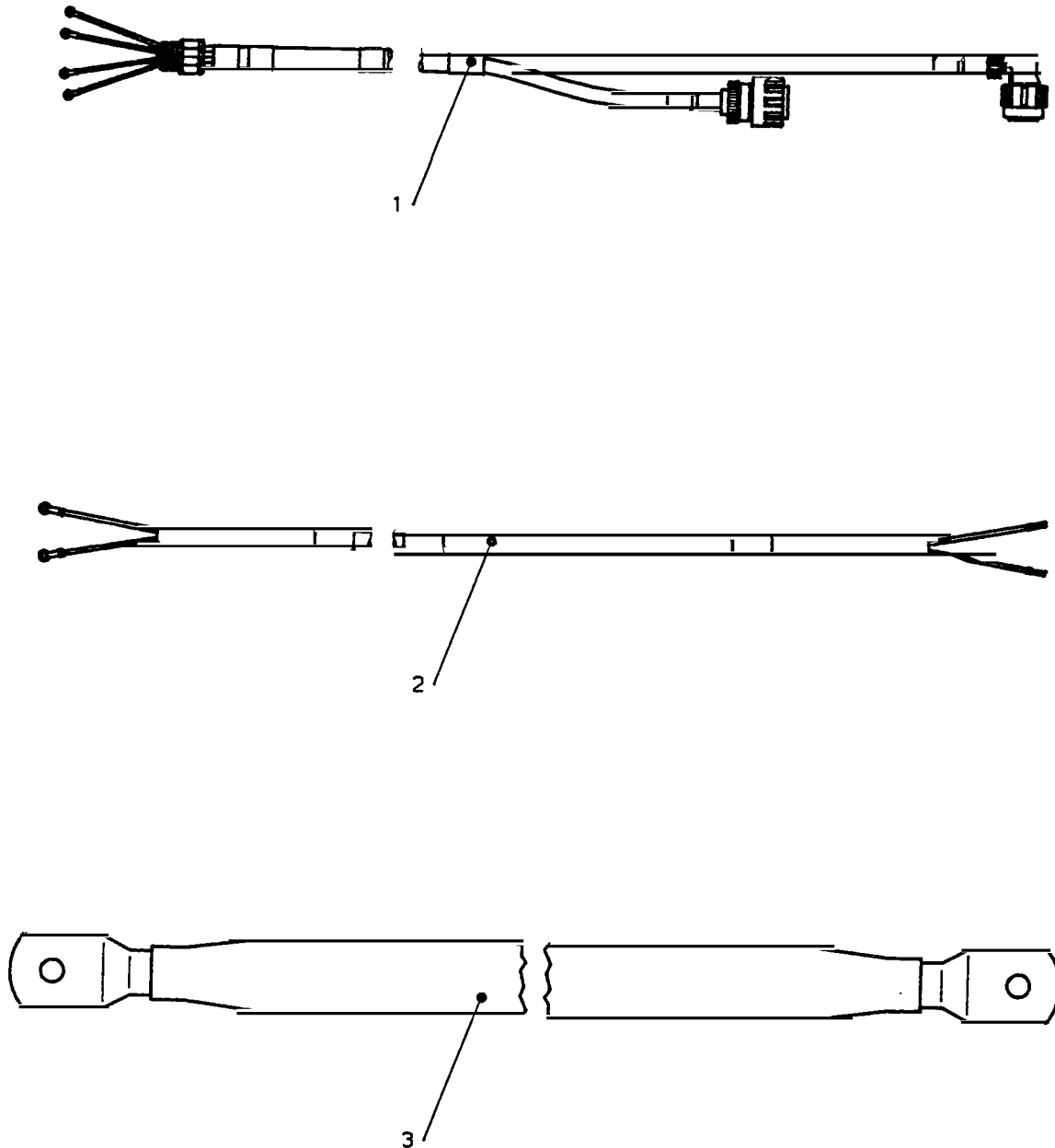


Fig 3 Blackout lighting

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
3-1	Z88	6210-99-737-4870	. LIGHT UNIT, PENTHOUSE No. 1 MK1		1	Westair
-2	Z95	5820-99-300-5993	.. TOP HAT ASSEMBLY	FV 2162114	1	
-3			.. BUSH, BLIND RIVET, flat hd, M5	UPO 30	2	Lintite
-4	G1	5305-99-135-0430	.. SCREW, pan hd, M5, 16 mm lg, steel		2	
-5	G1	5310-99-122-3032	.. WASHER, FLAT (FORM A), M5, steel		2	
-6	G1	5310-99-138-9226	.. WASHER, LOCK, M5, steel		2	
-7	Z95	6210-99-110-1523	. FIXTURE LIGHTING	FV 2162234	1	
-8	Z95	5340-99-434-1316	.. BRACKET, MOUNTING	FV 2162217	1	
-9	G1	5305-99-135-0430	.. SCREW, pan hd, M5, 16 mm lg, steel		2	
-10	G1	5310-99-122-3032	.. WASHER FLAT (FORM A) M5, steel		2	
-11	G1	5310-99-138-9226	.. WASHER, LOCK, M5, steel		2	
-12	G1	5305-99-135-0430	. SCREW, pan hd, M5, 16 mm lg, steel		4	
-13	G1	5310-99-122-3032	.. WASHER FLAT (FORM A) M5, steel		4	
-14	G1	5310-99-138-9226	. WASHER, LOCK, M5, steel		4	



H 6303

Fig. 4 Cable Assemblies and lead electrical (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
4-1	Z95	5995-99-721-4109	. CABLE ASSEMBLY - LIGHT & MICRO -SWITCH TO 15 WAY DIST BOX	FV 2162205	1	
-2	Z95	5995-99-147-0354	. CABLE ASSEMBLY - MICRO SWITCH TO POOL LIGHT	FV 2162216	1	
-3	Z95	5995-99-014-4513	. LEAD ELECTRICAL - LIGHT UNIT TO PLATE EARTH	FV 2053628/1	1	
NI-4	Z99	5340-99-744-9001	. CLAMP LOOP	FV 964639/2	3	
NI-5	6MT4	5340-99-790-7017	. CLAMP LOOP		1	
NI-6	6MT4	5340-99-805-0915	. CLAMP LOOP		8	
NI-7	Z32	5920-99-059-0144	. FUSE, CARTRIDGE 5A, size 1		3	
NI-8			. BAG LINEN 5" x 3" draw string	ND 20278Q	1	
NI-9			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	
NI-10			. RAWLNUT M4 x 20 LG complete with screw	ND 27357K	3	
NI-11	G1	5305-99-122-5361	. SCREW HEX HD M6 x 20 LG steel zinc plate		3	
NI-12	G1	5310-99-122-3031	. WASHER FLAT M4 (FORM A)		3	
NI-13	G1	5310-99-122-6474	. WASHER FLAT M6 (FORM A)		11	
NI-14	G1	5310-99-138-9225	. WASHER LOCK M4		3	
NI-15	G1	5310-99-137-9232	. WASHER LOCK M6		3	
NI-16	G1	5310-99-122-5295	. NUT PLAIN hex M6		3	
NI-17	G1	5310-12-156-4956	. WASHER lock int. tooth M6	ND 20306P	2	

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Chapter 2-12

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-915-3738 (FV 2162204)

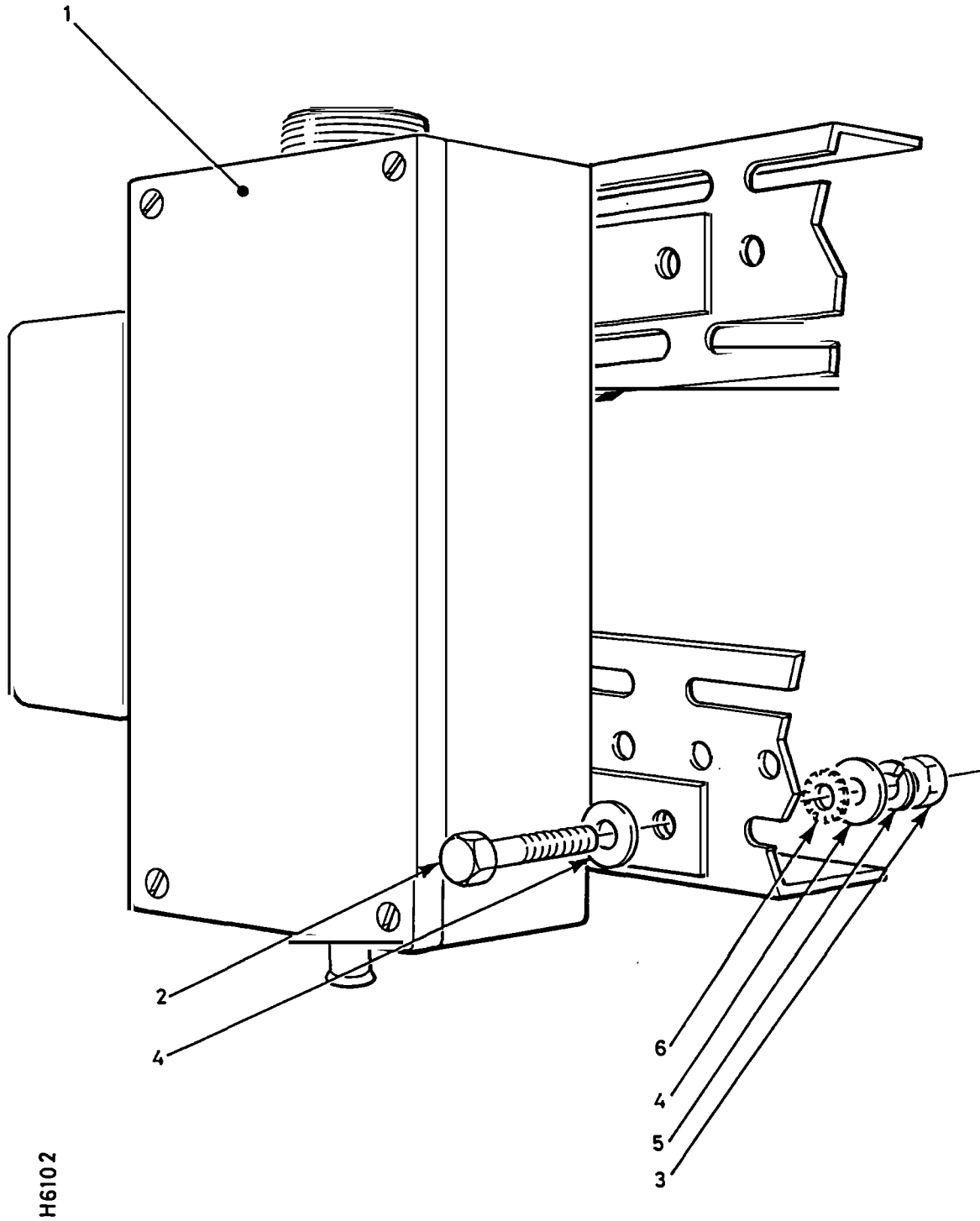
POWER INPUT  
in TUM Land Rover GX (ADCIS)  
5820-99-602-1243 (CES 46572)

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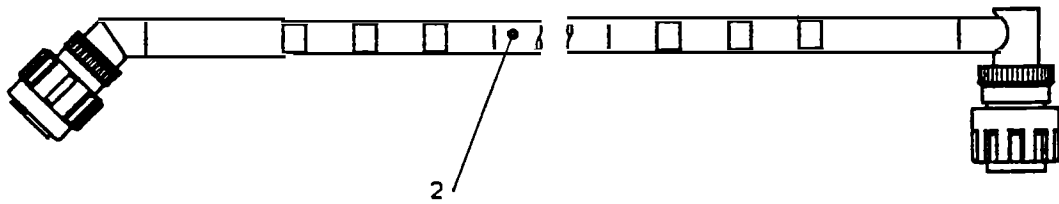
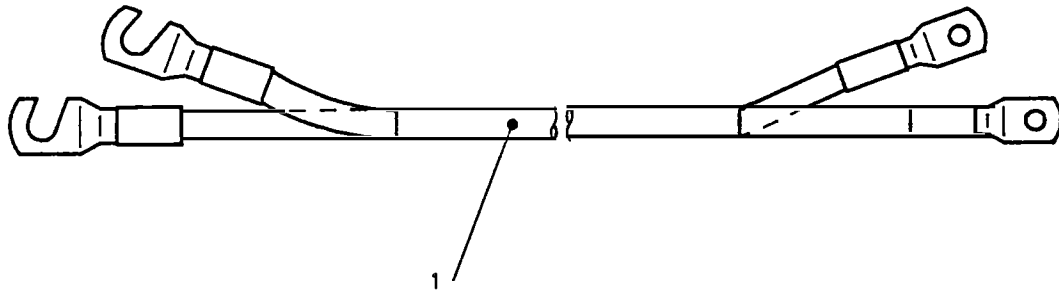




H6102

Fig 1 Generator input box assembly

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1			INSTALLATION OF POWER INPUT . GENERATOR INPUT BOX ASSEMBLY	FV 2162226	1	
-2	G1	5305-99-122-5366	. SCREW, hex hd, M8, 20 mm lg, steel		4	
-3	G1	5310-99-122-5296	. NUT PLAIN, hex hd, M8, steel		4	
-4		5310-99-786-2239	. WASHER, FLAT (FORM G), M8, steel	BS 4320	8	
-5	G1	5310-99-138-9227	. WASHER, LOCK, M8, steel		4	
-6	G1	5310-12-143-7999	. WASHER, EXTERNAL TOOTH, M8, steel		4	TR Fasteners
NI-7	Z95	5998-99-125-8195	. ELECTRONIC COMPONENTS ASSEMBLY	FV 2162149	1	Existing item
NI-8			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	Hellermann Rel 250



H 6304

Fig 2 Cable Assemblies (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-807-1521	INSTALLATION OF POWER INPUT CABLE ASSEMBLY - VEHICLE DIST BOX TO GEN INPUT BOX	FV 2162237	1	
-2	Z95	5995-99-983-9509	CABLE ASSEMBLY - 28V INPUT TO GEN INPUT BOX	FV 2050932/1	1	





Chapter 2-13

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-887-3709 (FV 2162199)

POWER REMOTING (IDT and PENTHOUSE)  
in TUM Land Rover GX (ADCIS)  
5820-99-535-3850 (CES 46569)





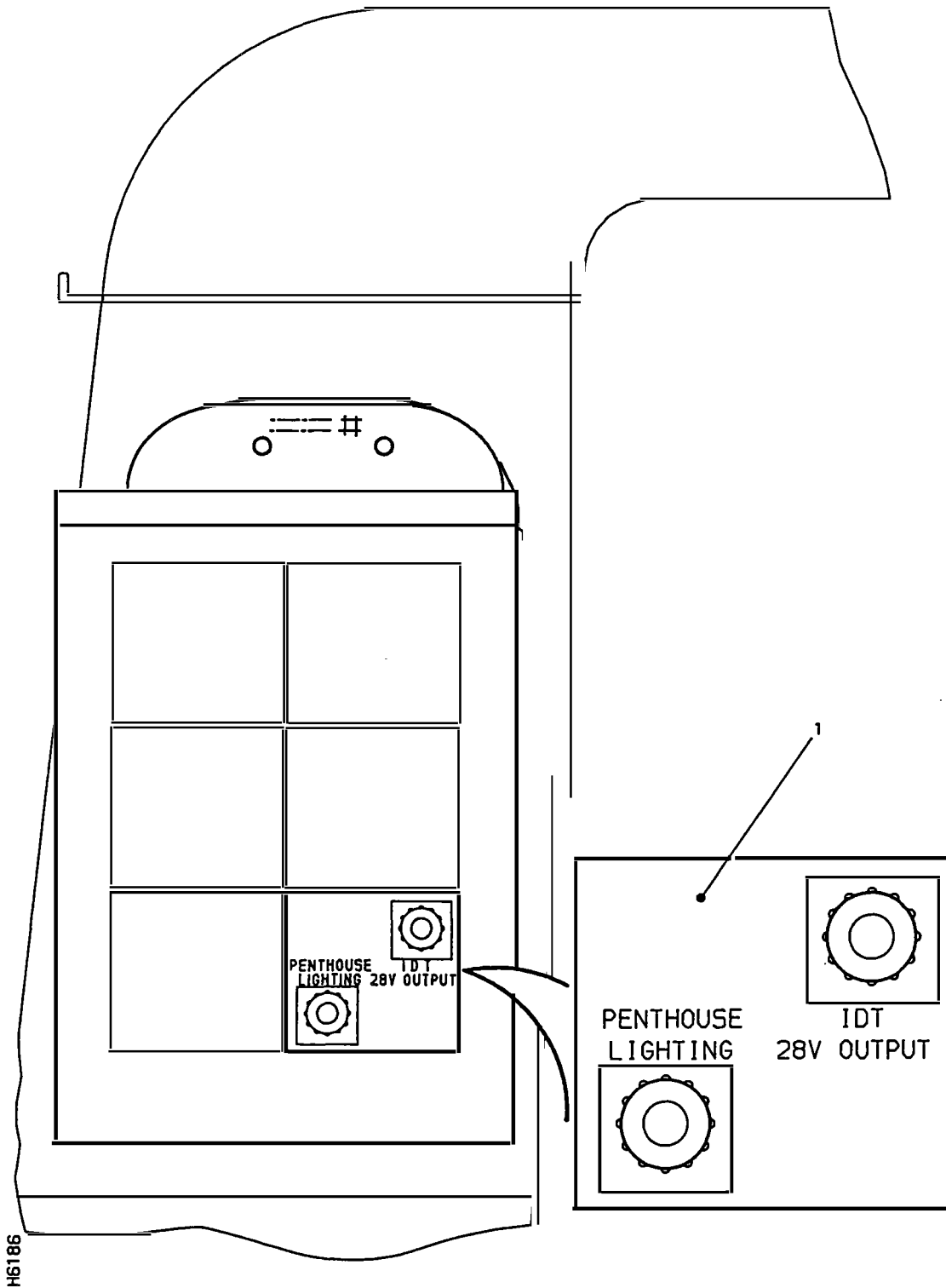


Fig 1 Power remoting (IDT and penthouse)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5998-99-994-9391	INSTALLATION OF POWER REMOTING (IDT AND PENTHOUSE) . ELECTRONIC COMPONENTS ASSEMBLY	FV 2162242	1	Existing
NI-2	Z32	5920-99-059-0144	. FUSE CARTRIDGE 5A size 1		2	
NI-3			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	Hellerman Rel 250
NI-4			. BAG LINEN 7" x 5" draw string	ND 21346B	1	

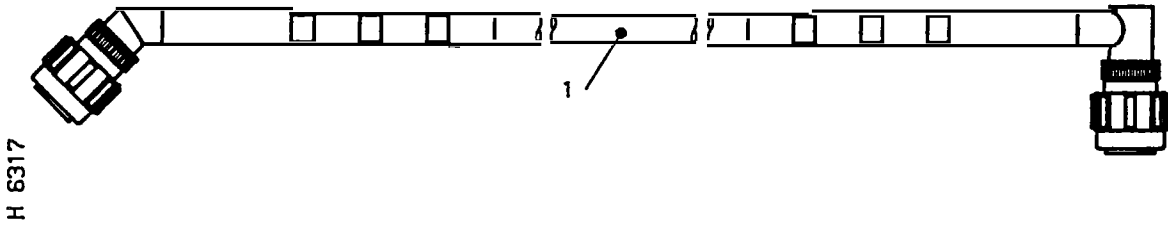


Fig 2 Cable assembly (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-300-5994	CABLE ASSEMBLY - LPE remote to 15 way dist box	FV 2050926/1	1	



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Chapter 2-14

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-147-0160 (FV 2162197)

CLEAR RADIO REMOTE  
IN TUM Land Rover GX (ADCIS)  
5820-99-438-7298 (CES 46578)





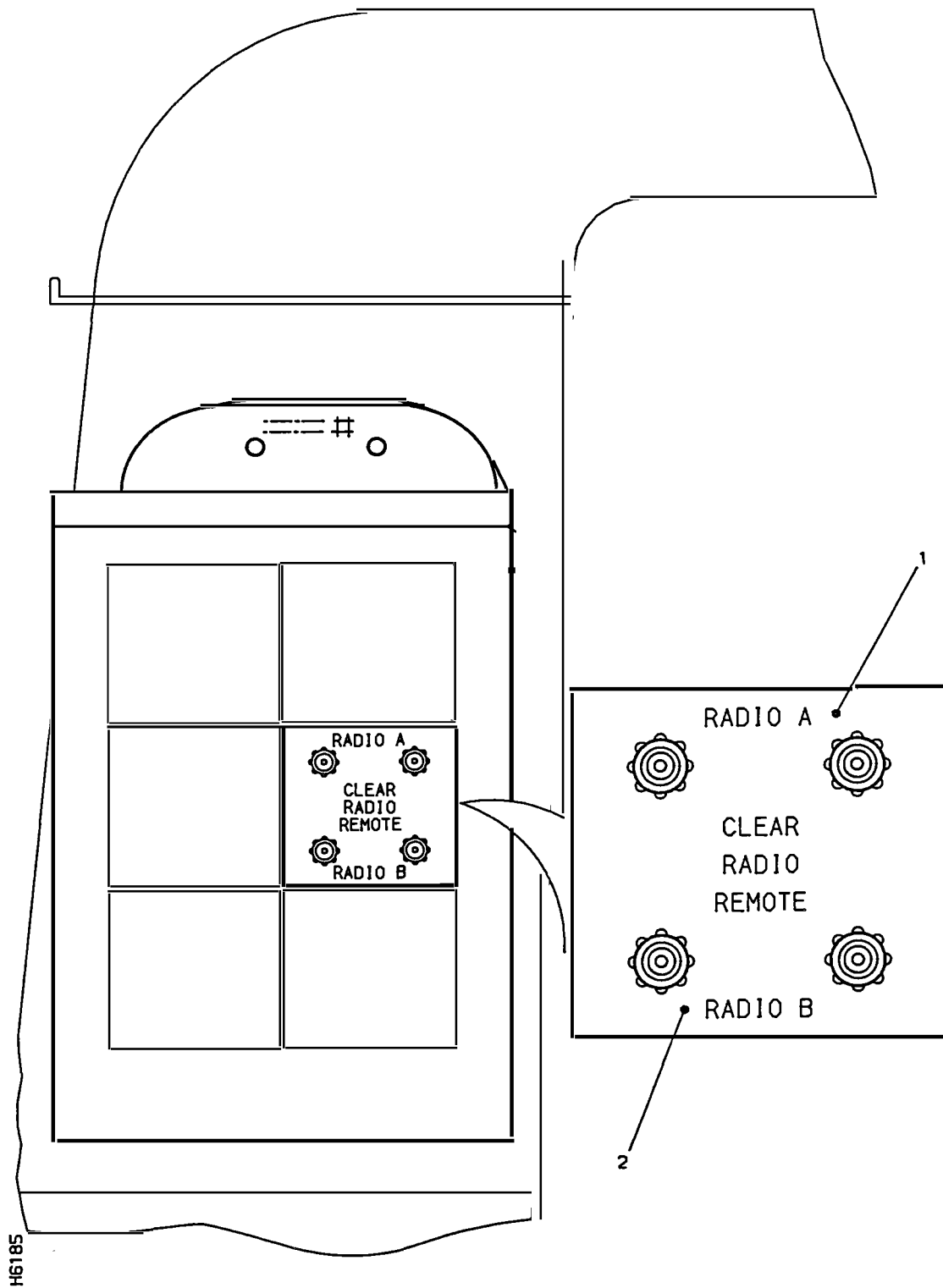
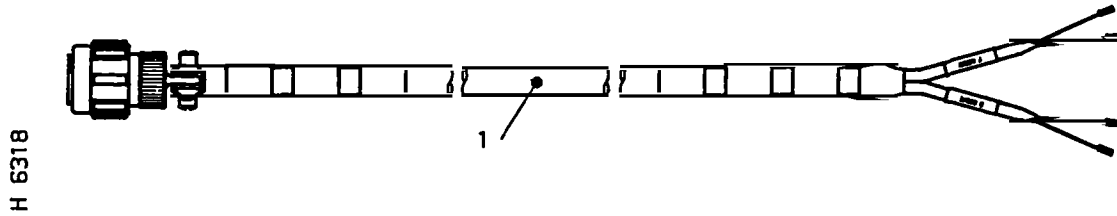


Fig 1 Clear radio remote

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5820-99-701-4847	INSTALLATION OF CLEAR RADIO REMOTE			
			. MOUNTING PLATE ASSY c/w LPE	FV 2162141	1	Existing
-2			. LABEL	FV 2161982	1	Existing
NI-3			. CABLE TIE RELEASABLE 7.5w 250 lg nylon	ND 21377K	10	



H 6318

Fig 2 Cable assembly (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-968-0075	CABLE ASSEMBLY- LPE remote to radio terminal	FV 2050928/1	1	





Chapter 2-15

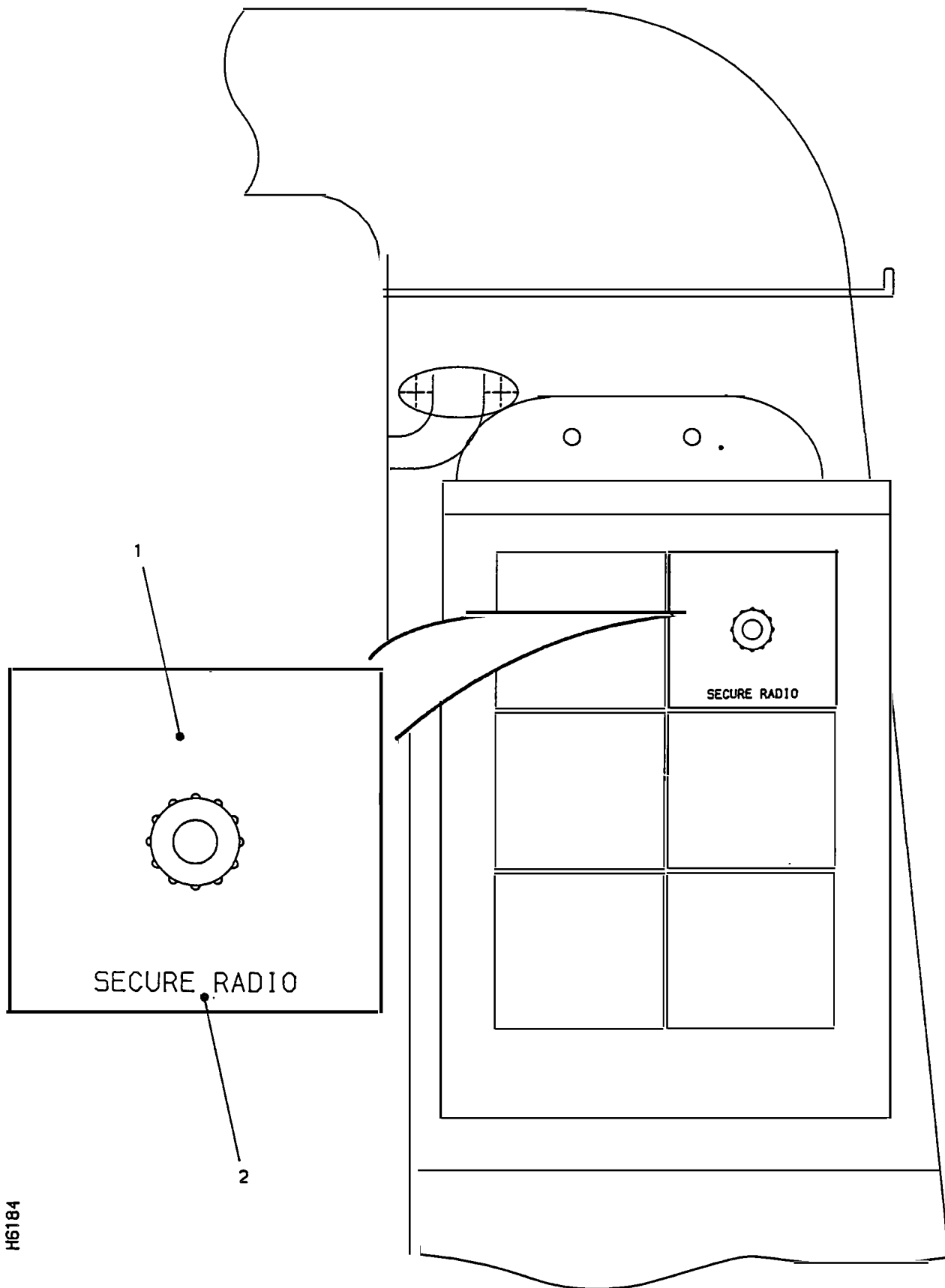
PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-382-6077 (FV 2162196)

SECURE RADIO REMOTING  
in TUM Land Rover GX1 (ADCIS)  
5820-99-660-5433 (CES 46567)







H6184

Fig 1 Secure radio remoting

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5340-99-125-8207	INSTALLATION OF SECURE RADIO REMOTING			
-2			. MOUNTING PLATE SECURE RADIO	FV 2162143	1	Existing
NI-3	Z99	5340-99-750-1149	. LABEL	FV 2161879/2	1	Existing
			. CAP, PROTECTIVE DUST AND MOISTURE SEAL, SHELL 10	ND 27281C	1	Existing
NI-4			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	

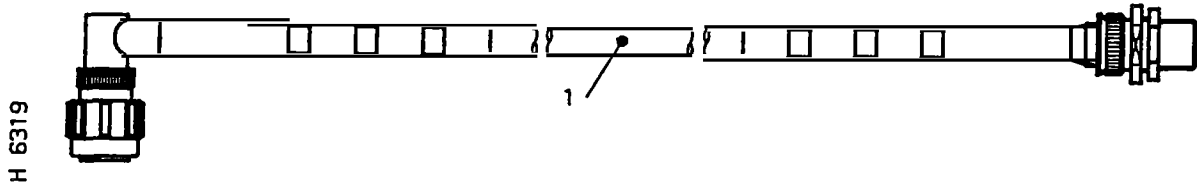


Fig 2 Cable assembly (GX1)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-577-3182	CABLE ASSEMBLY- DMU (audio) to secure radio remote	FV 2050924/1		





Chapter 2-16

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-477-4889 (FV 2162202)

SCRA ANTENNA REMOTING  
in TUM Land Rover GX (ADCIS)  
5820-99-660-5434 (CES 46570)

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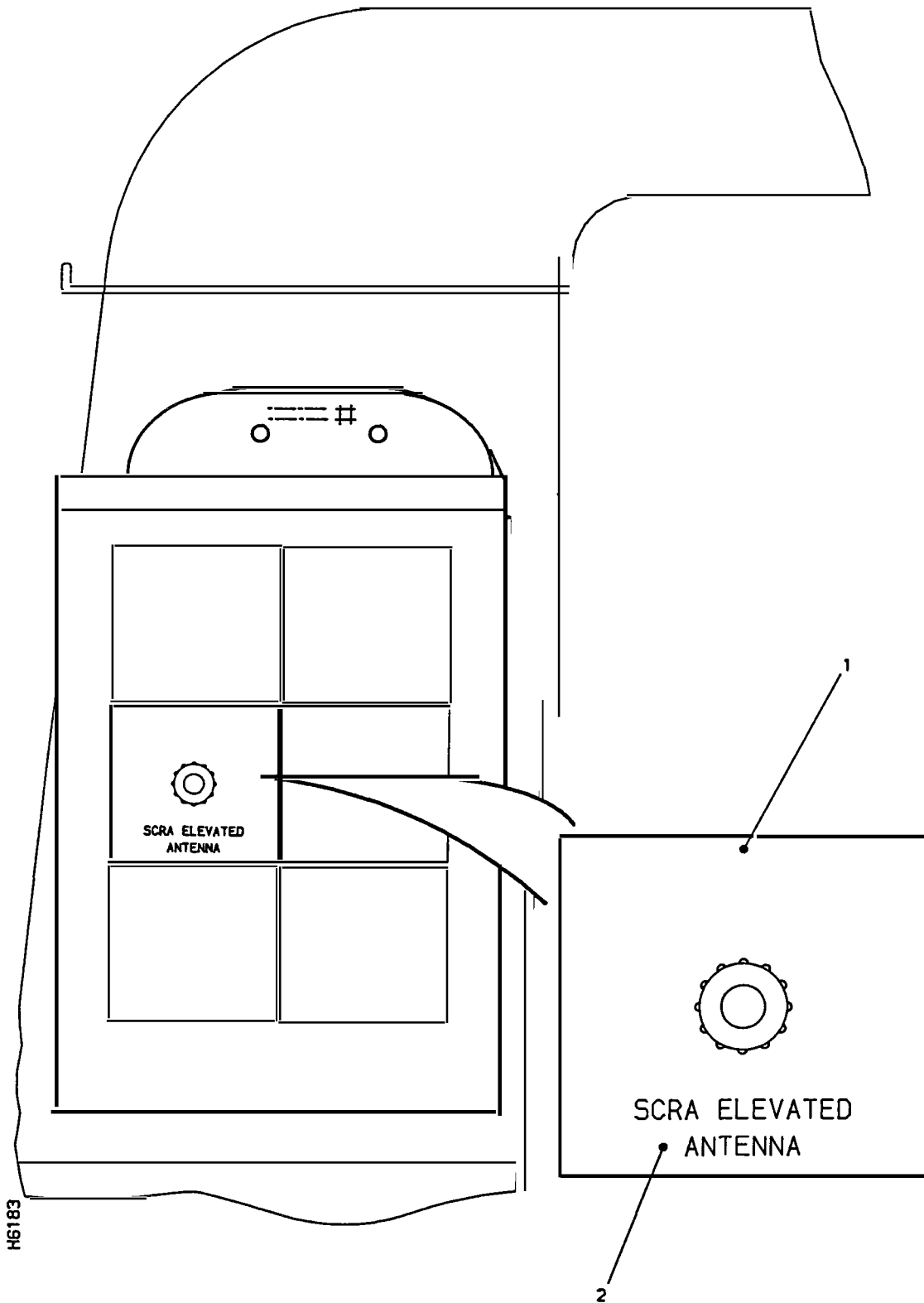


Fig 1 SCRA Antenna remoting

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1			INSTALLATION OF SCRA ANTENNA REMOTING			
-2			. PLATE	FV 2161647	1	Existing
NI-3	Z42	5985-99-645-0001	. LABEL	FV 2161646/17	1	Existing
NI-3		(CES 44826)	MAST 8M TELESCOPIC	REF	-	
NI-4		5820-99-783-9666	BULKHEAD CONNECTOR ADAPTOR	REF	-	
NI-5			COVER, CONN FIXED COAX 98-12		-	Plessey, 508/1/37135 /000



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PARTS LIST

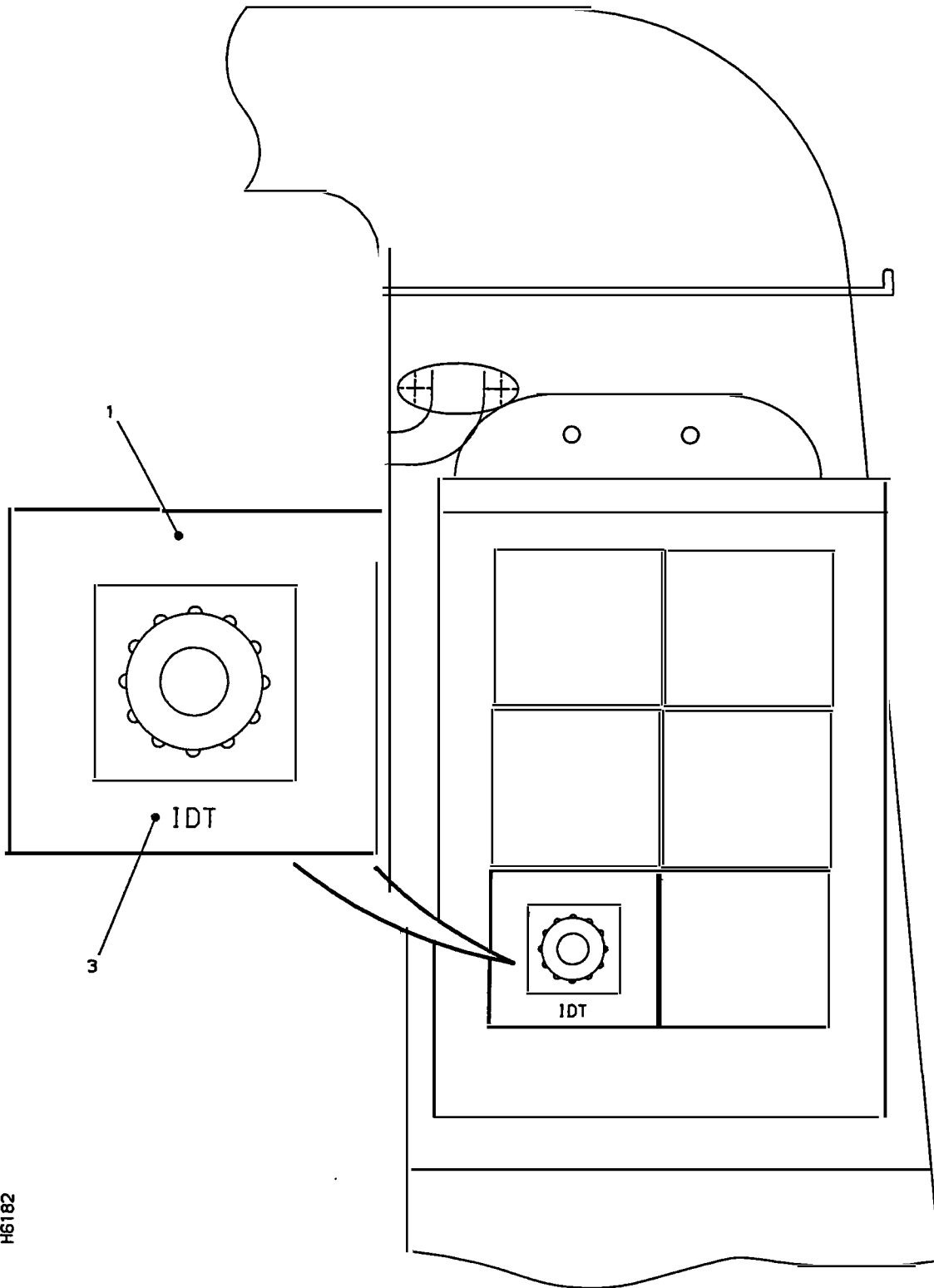
INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-513-6065 (FV 2162105)

IDT REMOTING  
in TUM Land Rover GX (ADCIS)  
5820-99-256-4027 (CES 46566)









H6182

Fig 1 IDT Remoting

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
			INSTALLATION OF IDT REMOTING			
1-1	Z95	5340-99-110-1524	. FRONT PLATE	FV 2162220	1	
NI-2	Z95	5340-99-125-8206	. BRACKET (dummy stowage)	FV 2162235	1	
-3	Z95		. LABEL	FV 2161879/1	1	
NI-4	Z32	5935-99-015-1210	. CONN, ELEC STOW fixed shell 18		1	
NI-5	Z32	5935-99-015-1219	. COVER CON fixed shell 18 P608		1	
NI-6			. CABLE TIE RELEASABLE 7.5w 250 lg nylon	ND 21377K	10	Pt No Hellermann Rel 250
NI-7			. SCREW pan hd M3 x 8 lg steel, zinc plate	BS 4183 ND 19440E	4	
NI-8			. SCREW hex hd M3 x 12 lg steel, zinc plate	BS 3692 ND 13694J	4	
NI-9	G1	5305-99-122-5365	. SCREW hex hd M8 x 16 lg steel, zinc plate		1	
NI-10	G1	5310-99-135-0754	. NUT PLAIN hex M3 steel, zinc plate		8	
NI-11	G1	5310-99-122-5296	. NUT PLAIN hex M8 steel, zinc plate		1	
NI-12	G1	5310-99-135-2545	. WASHER SPRING TENSION (crinkle) BeCu M3 tin plate		8	
NI-13	G1	5310-99-122-6475	. WASHER FLAT (FORM A) steel M8 zinc plate		1	
NI-14	G1	5310-99-138-9227	. WASHER S/COIL M8 steel, zinc plate		1	
NI-15	G1	5310-12-143-7999	. WASHER, LOCK, ext tooth, M8, steel, zinc plate		2	TR fasteners or equiv.

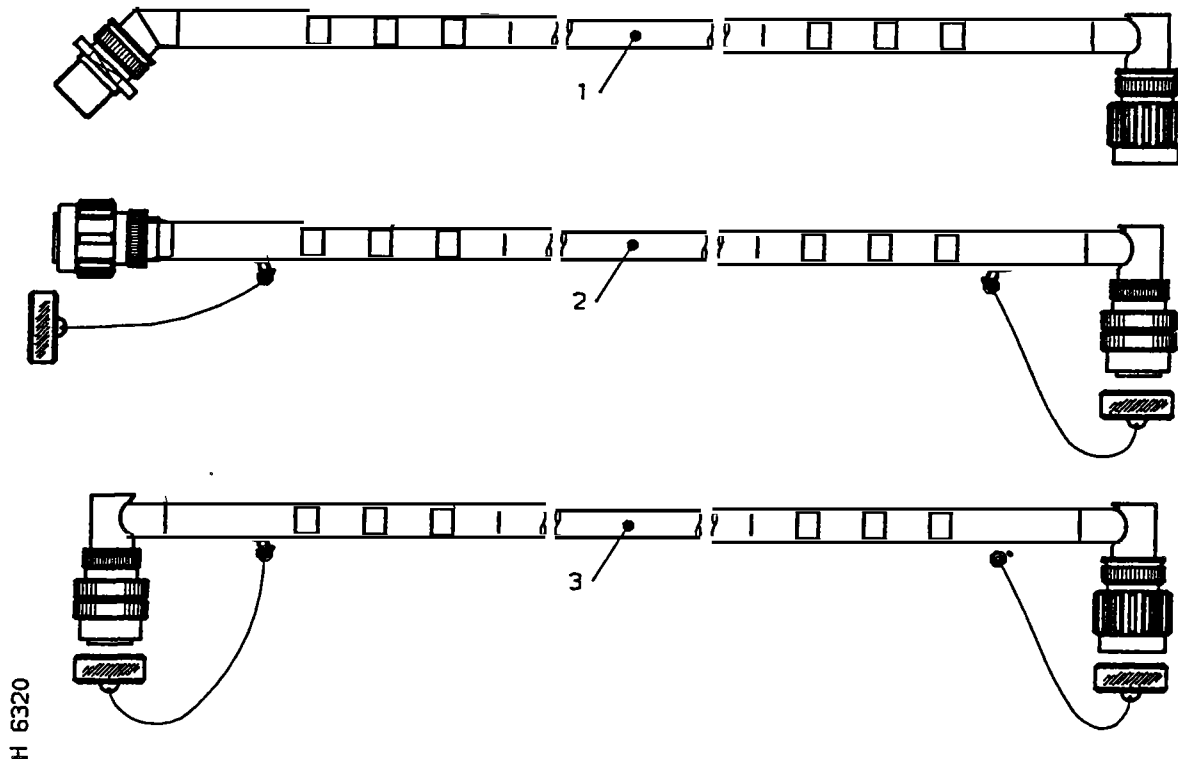


Fig 2 Cable assemblies (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-945-7371	CABLE ASSEMBLY - IDT remote to MCE	FV 2050921/1	1	
-2	Z95	5995-99-884-6114	CABLE ASSEMBLY - 28v output to IDT (stowed)	FV 2050914/1	1	
-3	Z95	5995-99-895-8149	CABLE ASSEMBLY- MCE/IDT to IDT (stowed)	FV 2050919/1	1	



Chapter 2-18

PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-477-4882 (FV 2162198)

REMOTE ANTENNA CLANSMAN  
in TUM Land Rover GX (ADCIS)  
5820-99-256-4028 (CES 46568)







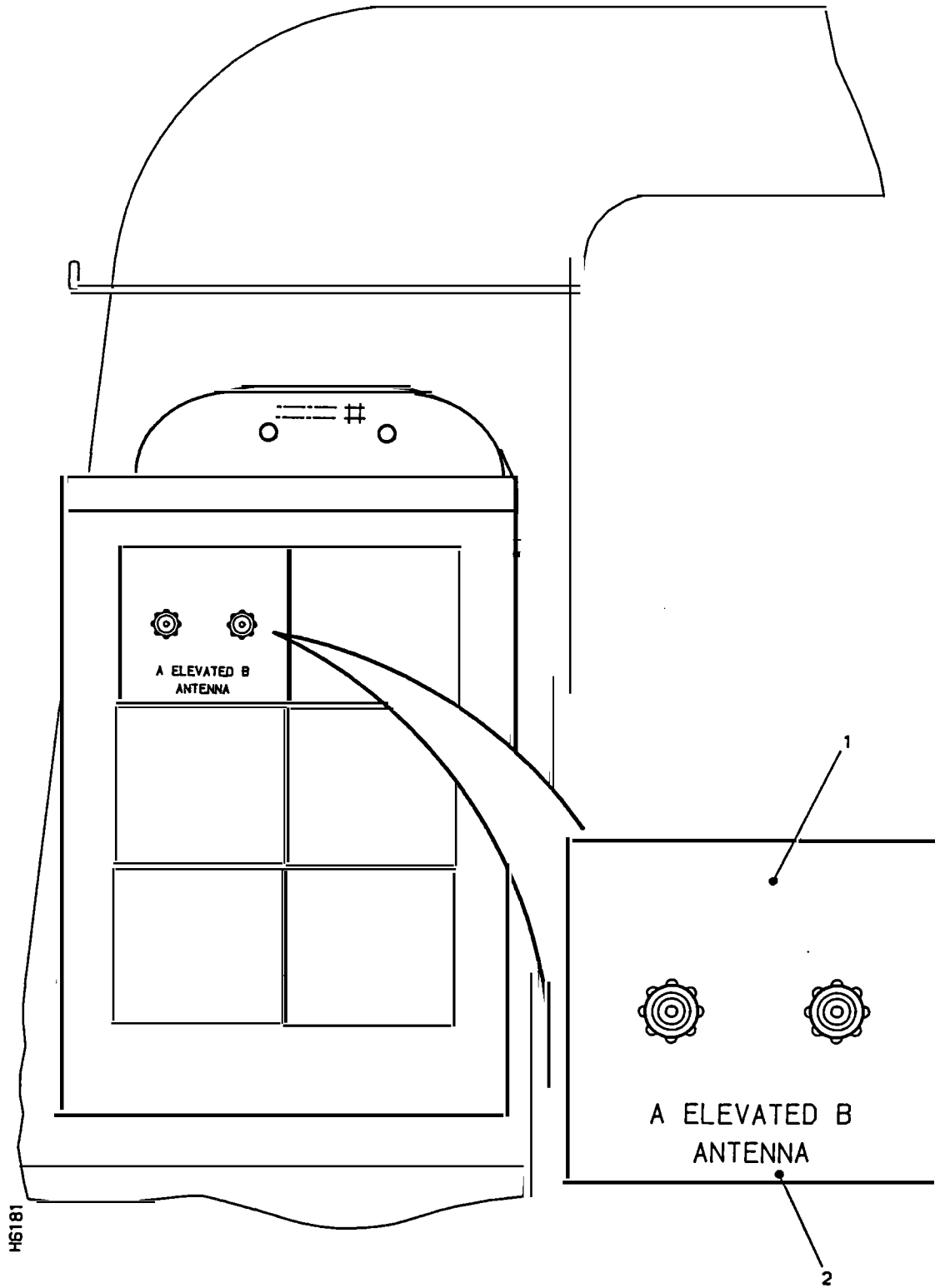


Fig 1 Remote antenna clansman

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-			INSTALLATION OF REMOTE ANTENNA CLANSMAN			
-1	Z95	5340-99-377-4921	. PLATE MOUNTING (elevated antenna)		1	Existing item
-2			. LABEL	FV 2161879/3	1	Existing item
NI-3	Z32	5935-99-911-6871	. CONN SOCKET fixed coax BNC EMP		2	
NI-4			. COVER CONN fixed coax BNC	ND 248778		Amphenol
NI-5			. CABLE TIE RELEASABLE 7.5W 250 lg nylon			
NI-6			. SCREW hex hd M3 x 8 lg steel zinc plate	BS 3692 ND 19296X	2	
NI-7	G1	5310-99-135-2545	. WASHER SPRING (crinkle) BeCu M3 tin plate		2	
NI-8	G1	5310-99-135-0754	. NUT PLAIN hex steel M3 zinc plate			



H 6321

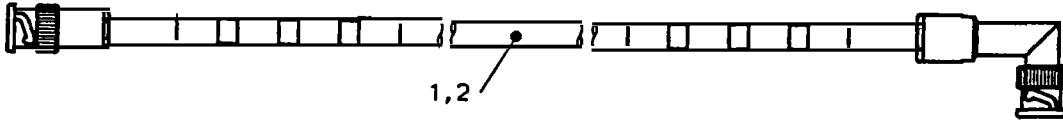


Fig 2 Cable assemblies (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-384-7091	CABLE ASSEMBLY - Antenna A to Radio A (GX1) Turf 25W (GX2)	FV 2050198/69	1	
-2	Z95	5995-99-739-5365	CABLE ASSEMBLY - Antenna B to Radio B	FV 2050198/70	1	



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PARTS LIST

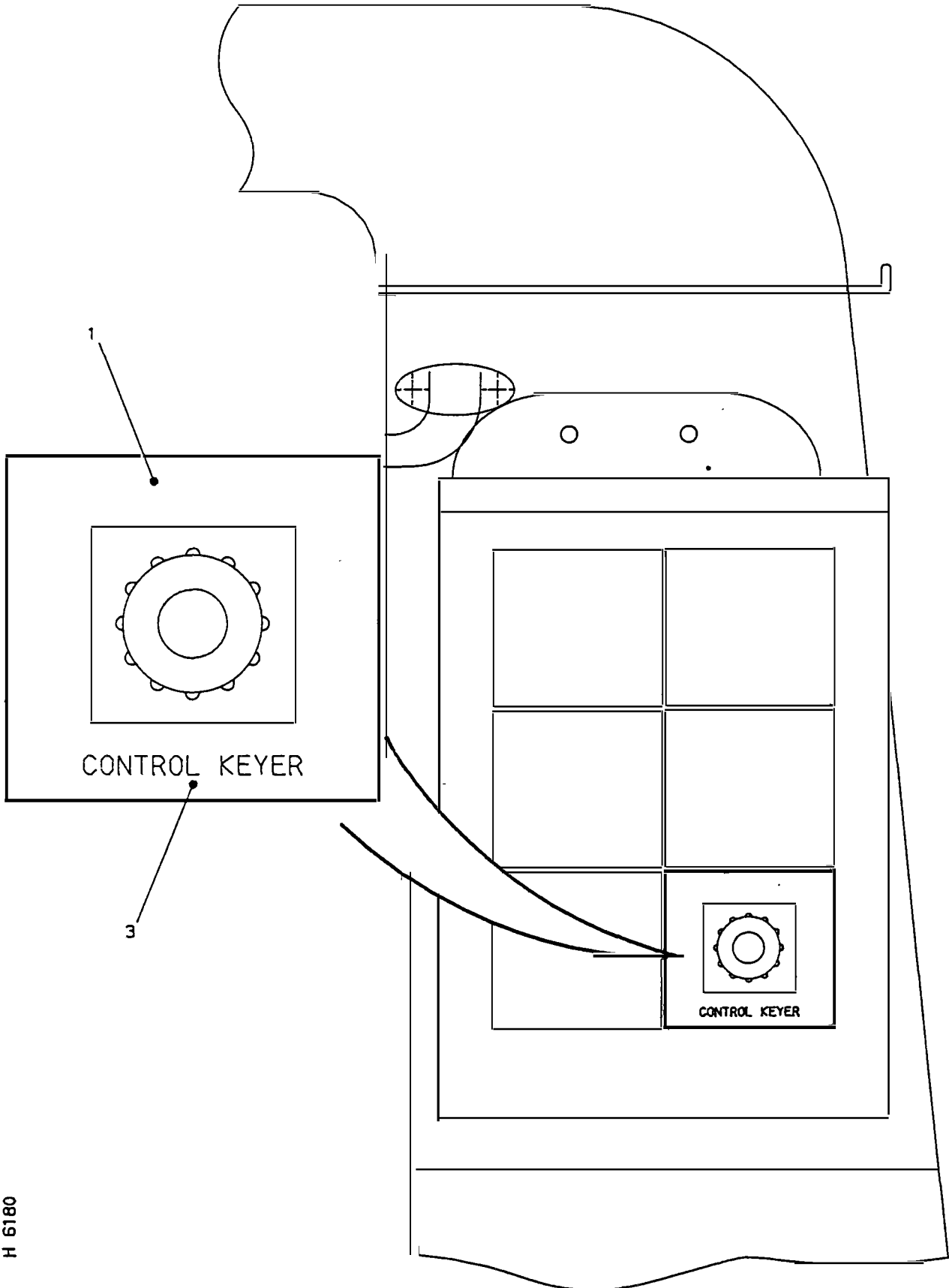
INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-660-4129 (FV 2162203)

REMOTE CONTROL KEYS  
in TUM Land Rover GX (ADCIS)  
5820-99-547-7722 (CES 46571)









H 6180

Fig 1 Remote control keyer

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1	Z95	5340-99-702-3014	INSTALLATION OF REMOTE CONTROL KEYER . FRONT PLATE		1	Existing item
NI-2	Z95	5340-99-125-8206	. BRACKET (dummy stowage)		1	
-3			. LABEL	FV 2161646/12	1	Existing item
NI-4	Z32	5935-99-015-1210	. CONN. ELEC STOW FIXED SHELL 18		1	Plessey, 508 /1/31847/000
NI-5	Z32	5935-99-015-1219	. COVER CONN fixed shell 18 P608		1	Plessey, 508 /1/31740/060
NI-6			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	10	Pt No Hellermann, Rel 250
NI-7			. SCREW pan hd M3 x 8 lg steel zinc plate	BS 4183 ND 19440E	4	
NI-8			. SCREW hex hd M3 x 12 lg steel zinc plate	BS 3692 ND 13694J	4	
NI-9	G1	5305-99-122-5365	. SCREW hex hd M8 x 16 lg steel zinc plate		1	
NI-10	G1	5310-99-135-0754	. NUT PLAIN hex steel M3 zinc plate		8	
NI-11	G1	5310-99-122-5296	. NUT PLAIN hex steel M8 zinc plate		1	
NI-12	G1	5310-99-135-2545	. WASHER SPRING (crinkle) BeCu M3 tin plate		8	
NI-13	G1	5310-99-122-6475	. WASHER FLAT (FORM A) steel M8 zinc plate		1	
NI-14	G1	5310-99-138-9227	. WASHER S/COIL M8 steel zinc plate		1	
NI-15	G1	5310-12-143-7999	. WASHER ex. tooth steel M8 zinc plate		2	TR fasteners or equiv.



H 6322

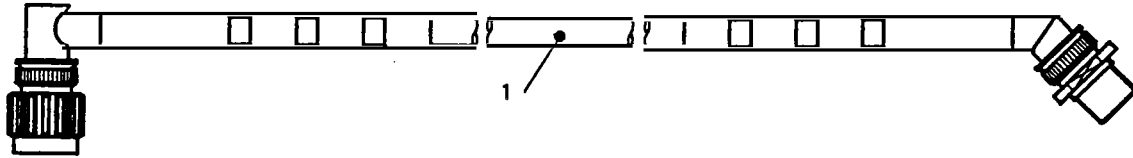


Fig 2 Cable assemblies (GX)



FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-300-5995	CABLE ASSEMBLY - CIG to remote panel	FV 2050931/1	1	



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PARTS LIST

INSTALLATION KIT, ELECTRONIC EQUIPMENT  
7025-99-595-6447 (FV 2162210)

REMOTE SIGNAL PRINTER  
in TUM Land Rover GX (ADCIS)  
(CES 46880)

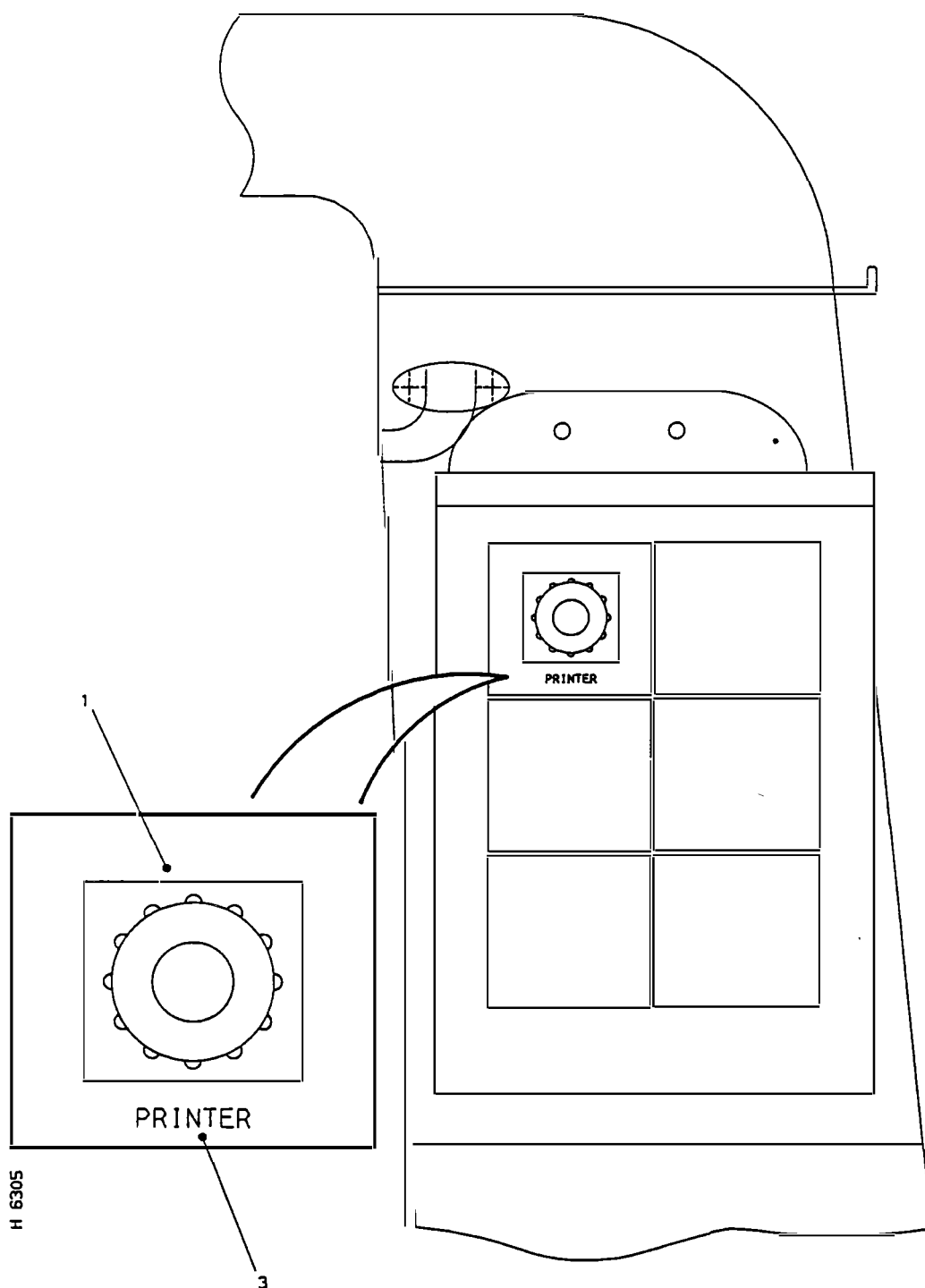
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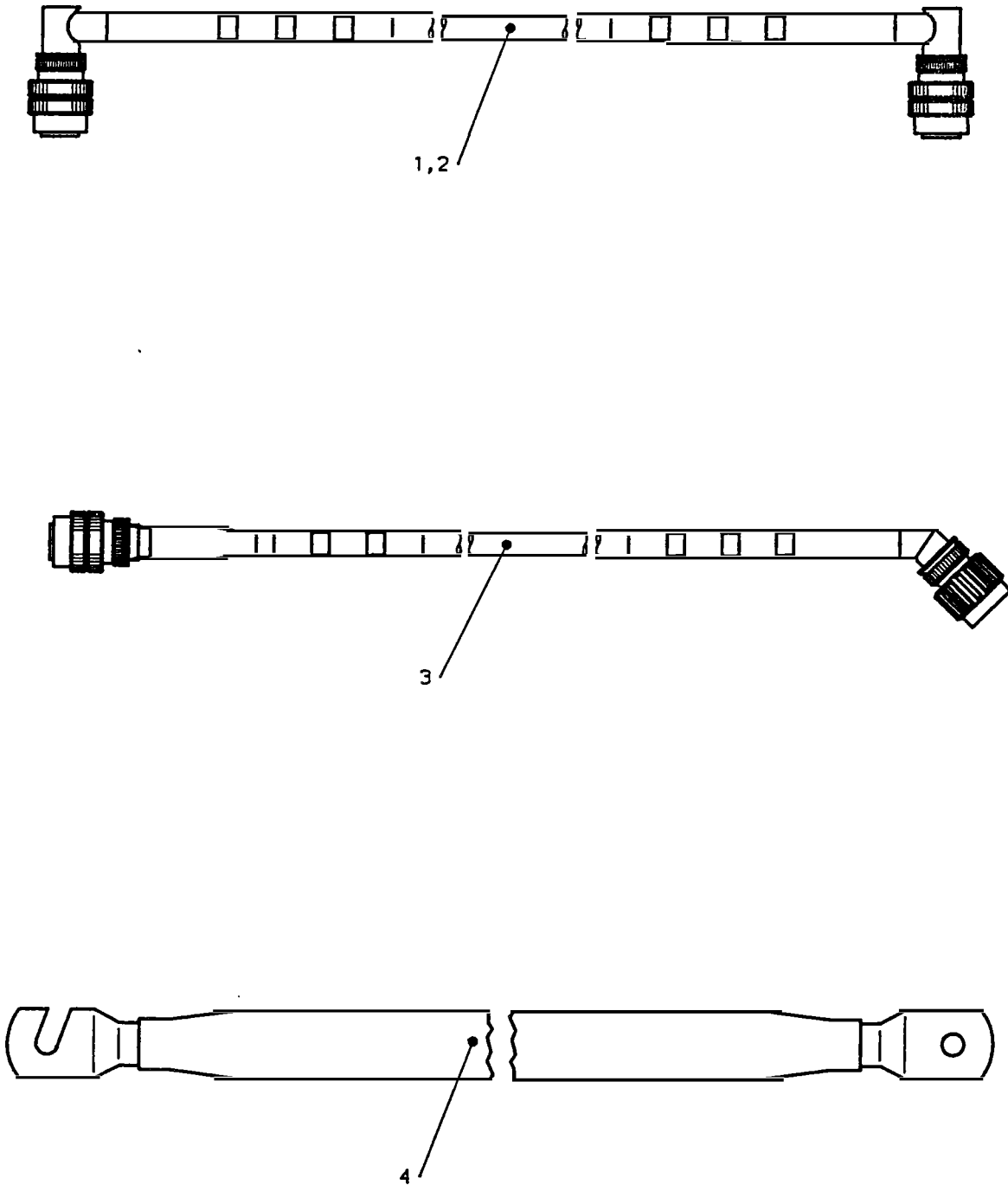




H 6305

Fig 1 Remote Printer

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
1-1			INSTALLATION OF REMOTE PRINTER			
			. MOUNTING PLATE ASSY c/w LPE	FV 2162280	1	
NI-2			. SWITCH BOX ASSEMBLY	FV 2162279	1	
-3			. LABEL	FV 2161646/22	1	
NI-4	G1	5306-99-122-5260	. BOLT STEEL hex hd M8 x 75 lg		2	To replace bolts 2-off M8 x 70 lg set kit FV2162206
NI-5			. CABLE TIE RELEASABLE 7.5W 250 lg nylon	ND 21377K	20	Pt No Hellermann, Re1 250



H 6312

Fig 2 Cable assemblies and leads electrical (GX)

FIG ITEM	ARMY MAN CODE	NATO STOCK NUMBER	ITEM NAME AND DESCRIPTION	PART NO/ DRAWING NO	NO OFF	ANNOTATIONS
2-1	Z95	5995-99-781-4162	CABLE ASSEMBLY - IDT TO PRINTER (REMOTE)(STOWED)	FV 2050774/6	1	
-2	Z95	5995-99-744-0369	CABLE ASSEMBLY - IDT TO C/O BOX	FV 2050774/7	1	
-3	Z95	5995-99-010-4567	CABLE ASSEMBLY - C/O BOX TO LPE	FV 2050952/1	1	
-4	Z42	5995-99-783-5801	LEAD ELECTRICAL - C/O BOX TO EARTH	FV 2053568/4	1	

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Chapter 3  
INDEX OF NATO STOCK NUMBERS

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NATO Stock No.	Chapter, Page and Item No.	NATO Stock No.	Chapter, Page and Item No.	NATO Stock No.	Chapter, Page and Item No.
5310-12-143-7999	2-10,5/6-6 2-10,5/6-12 2-12, 2-12,5-6 2-17,7/8-18 2-19,5-16	5935-99-015-1210	2-17,5/6-7 2-19,5-5	7025-99-096-2824	1-3,3-3 1-4,3-3
		5935-99-015-1219	2-17,5/6-8 2-19,5-6	5930-99-100-3821	2-4,7-11 2-11,7-11
5310-12-146-3828	2-4, 7-13 2-11, 7-13	5820-99-020-6882	1-3,3-1 1-4,3-1	5820-99-110-1523	2-11,9-7
		5820-99-030-1281	1-1,3/4-1	5820-99-110-1524	2-17,5/6-1
5310-12-153-8566	2-4,7-3 2-11,7-3	5820-99-051-6366	2-9,5/6-7	5305-99-120-5485	2-4,7-10 2-11,7-10
5310-12-156-4913	2-4,7-8 2-11,7-8	5995-99-051-6716	2-4,11/12-1 2-21,5-7 2-22,7-1	5310-99-122-3031	2-2,5-2 2-2,9-39 2-2,13-81 2-2,17-12, 2-3,7/8-10
5310-12-156-4956	2-1,7/8-17 2-2,11-63 2-2,19/20-20 2-2,18-19 2-3,7/8-13 2-4,11/12-16 2-5,9-38 2-6,13-79 2-7,5-12 2-11,11/ 12-17	7025-99-052-3921	1-1,3/4-3 1-2,3/4-4	5310-99-122-3031	2-4,11/12-11 2-6,7-24 2-7, 5-7
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FV 2162203	1-3,4-15 1-4,4-14	FV 964639/2	2-11,11/12-4	ND 25690X	2-6,7-20
FV 2162204	1-3,3-8 1-4,3-8	GP1	2-5,7-21 2-6,7-19	ND 27281C	2-15,5/6-4
FV 2162205	2-11,11/12-1	HCT 129022	2-8,5/6-1	ND 27357K	2-7,11/12-9 2-11,11/12-10
FV 2162206	1-3,3-1 1-4,3-1	HCT 129023	2-9,5/6-1		
FV 2162209	1-3,3-6 1-4,3-6	HCT 129025	2-8,5/6-2 2-9,5/6-2	PT2162-03000-25-0-T	2-1,5-1 2-5,5-1
FV 2162210	1-3,4-16 1-4,4-15	HCT 129041	1-3,3-4 1-4,3-4	R67	2-4,5-10 2-11,5-10
FV 2162213	2-4,7-6 2-11,7-6	HCT 129042	1-3,3-5 1-4,3-5	SD4/263965	2-10,5/6-1
FV 2162214	2-4,7-9 2-11,7-9	LC-038G-6	2-5,7-20	TAS/D 612 BH	2-6,5-7
FV 2162215	2-4,7-4 2-11,7-4	ND 20278Q	2-4,11/12-7 2-11,11/12-8	TAS/K 612 BK	2-6,5-8
FV 2162216	2-11,11/12-2	ND 21346B	2-1,5-19 2-2,15-4 2-3,5-12 2-5,7-33 2-6,19/20-16 2-7,5-10 2-13,5/6-5	TL 8038	2-2,0-43 2-6,11-59
FV 2162220	2-17,5/6-1	ND 21377K	2-1,5-18 2-2,15-5 2-3,5-13 2-4,7/8-8 2-5,9-35 2-6,19/20-15 2-7,5-5 2-11,11/12-9 2-12,5-8 2-14,5/6-4	TYPE 504 TO BS9572 F002	2-2,11-71 2-6,13-87
FV 2162226	2-12,5-1				
FV 2162233	2-4,7-1 2-11,7-1				
FV 2162235	2-17,5/6-2				
FV 2162236	2-6,5-5				

[REDACTED]



[REDACTED]

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LONDON SE18 4QF.

Tel No .....

Date .....

Title of AESP -

COMMENT

Signed: .....

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..... HA HA ROAD  
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Thank you for commenting on AESP.

\* Action is being taken to:

\* (i) Revise the AESP

\* (ii) Amend the AESP

\* No action is considered necessary for the following reasons:

\* Delete as necessary

Signed: .....

Date: .....

AESP Form 10





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