

TRUCK, SURVEILLANCE RECONNAISSANCE VEHICLE (SRV-SF), LIGHTWEIGHT, FFR, W/WINCH, MC2, LAND ROVER 110, 4X4, ISUZU DIESEL ENGINE

INSTALLATION OF 24 VOLT CIRCUIT BREAKER COVERS

MODIFICATION INSTRUCTION

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

INTRODUCTION

1. This instruction details the modifications required to fit circuit breaker covers to the Truck, Surveillance Reconnaissance Vehicle (SRV-SF) that has a dual alternator system fitted to prevent the possibility of short circuiting.
2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
 - a. Current version of the Technical Regulation of Army Materiel Manual (TRAMM) <http://intranet.defence.gov.au/armyweb/Sites/DTRA>);
 - b. TRAMM, Volume 3, Section 2, Chapter 2, Fleet Engineering Change Management Process;
 - c. Electronic Supply Chain Manual (ESCM), Volume 4, Section 3 – Supply Management Processes, Stores Accounting General, <http://escmv4web/8210.htm>;
 - d. ESCM, Volume 6 – Manage Repairable Items, <http://escmv4web/2071.htm> and;
 - e. [EMEI Vehicle G 177-6](#) Installation of a dual alternator 12 VDC & 24 VDC Electrical power system.
3. **Authority.** The authority to carry out this modification is CGSVPSO ECO 050/09.

GENERAL

4. **Modification Application.** This modification is to be applied to all Land Rover 110 4x4 SRV-SF vehicles that have had the modification EMEI Vehicle G 177-6, Installation of a Dual Alternator 12 V dc & 24 V dc Electrical Power system completed.
5. **Items Affected.** This modification involves the fitting of a plastic cover to each side of the circuit breaker assembly fitted as part of the modification EMEI Vehicle G 177-6.
6. **Priority – Group 2.** All applicable equipment is to be modified:
 - a. when next in a workshop for Light, Medium or Heavy Grade Repair; or
 - b. prior to issue from depot or pool stock.

NOTE

Where modification would delay priority issues of depot or pool stock, equipment may be issued unmodified providing the equipment record book is endorsed appropriately.

7. **Action Required.** Actions detailed in this instruction are to be performed by technical maintenance organisations authorised to carry out Light, Medium or Heavy Grade Repairs. The trades approved to complete this modification are ECN 418 – Technician Electrical or ECN 229 – Vehicle Mechanic or RAAF/civilian equivalents.

NOTE

On receipt of this instruction, enter all relevant information other than date completed in the modifications section of the GM 120 – Record Book for Service Equipment.

8. **Estimated Work Hours.** For initial planning purposes only, it is estimated that this modification will take 0.5 work hours to perform.

9. Stores Required. The stores required are listed in Table 1. All stores are to be demanded through normal supply channels.

Table 1 Stores Required

Serial	NIIN	Designation or Description	Unit of Issue	Qty Per Equip
1	99-122-5363	M6 x 30 mm hex head screw	ea	4
2	99-208-6458	6 mm spring washer	ea	4
3	12-156-4991	6 mm plain nut	ea	8
4	99-122-6474	6 mm plain washer	ea	4
5	66-144-6236	Nut Self locking, 6 mm	ea	4
6	66-158-0569	Perspex cover	ea	2

10. Items to be Removed. Four M6 x 25 mm screws and Nyloc nuts as shown in Figure 1 are to be removed. All stores removed are to be processed in accordance with the ESCM, Volume 4, Section 3 – Supply Management Processes, Stores Accounting General.

DETAIL

11. Modification of Circuit Breaker Guard. The procedure for modifying the circuit breaker guard is as follows:

- a. Disconnect the 24 V batteries.
- b. Remove an M6 x 25 mm screw from one side of circuit breaker one and three, designated C/B.1 and C/B.3 (Figure 1).

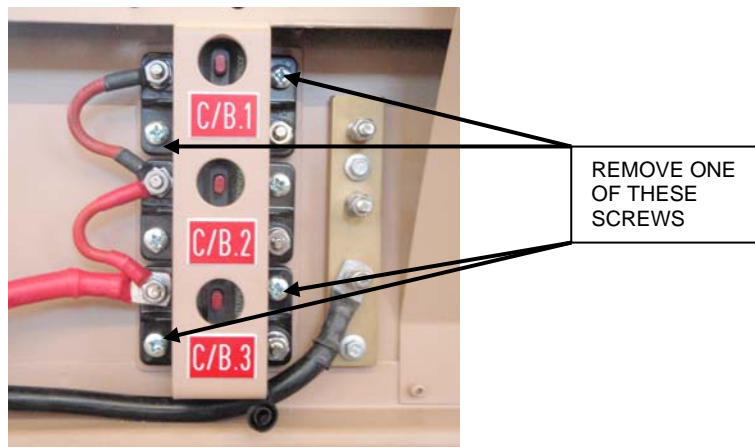


Figure 1 Screws To Be Removed

- c. Insert two M6 x 30 mm hex head screws (Table 1, Serial 1) from the tub side.
- d. Secure the screws with a 6 mm spring washer and 6 mm plain nut (Table 1, Serials 2 and 3).
- e. Repeat sub-para b and c for the other two screws.
- f. Install the perspex cover over the 6 mm screw threads that are exposed on the front side of the circuit breakers.
- g. Secure the perspex cover with the 6 mm plain washer and new Nyloc nuts (Figure 2).
- h. Reconnect the 24 V batteries.

UNCONTROLLED IF PRINTED

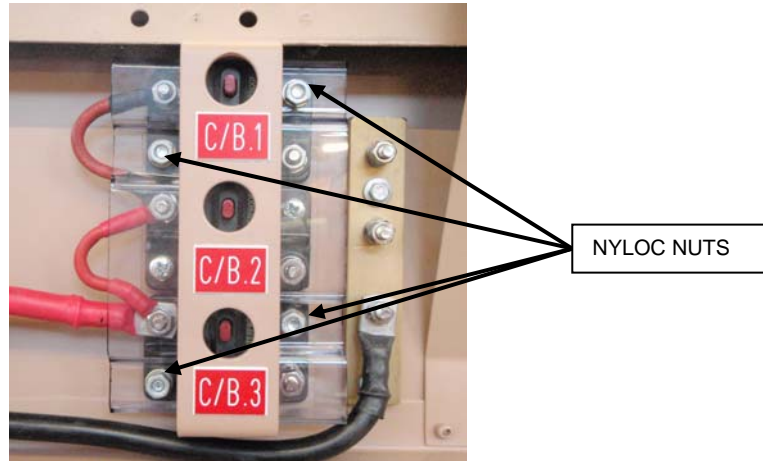


Figure 2 Cover Installed

12. Recording Action. On completion of the modification, the following action is to be taken in accordance with the TRAMM, Volume 3, Section 2, Chapter 2, Annex D:

- a. Deface the number 42 on the vehicle modification record plate.
- b. Complete the modification details in the GM 120 – Record Book for Service Equipment.
- c. Forward the modification completion details using form GM 119 – Advice of Change in Build State (TRAMM, Volume 3, Section 2, Chapter 3, Annex C) to:

NFM Lt B Vehicles
CGSVSPO, DMO
Defence Plaza - Melbourne
661 Bourke St
Melbourne, VIC 3001

UNCONTROLLED IF PRINTED

END

Distribution List: **VEH G 16.9 – Level 2** (Maint Level)
(Sponsor: CGSVSPO, Lt B Vehicle Section)
(Authority LtB ECO 050/90)