

## TRUCK, UTILITY, LIGHTWEIGHT, MC2, LAND ROVER 110 4X4 - ALL TYPES

### FITTING OF A WINDSCREEN WASHER NOZZLE GUARD

## 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 procedure to fit a windscreen washer nozzle guard to Land Rover 110 4x4 variants. It is not applicable to the SRV-SF variant. The guard is intended to protect the washer nozzle from damage caused by personnel inadvertently standing on the nozzle when climbing on the vehicle.
2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
  - a. Technical Regulation of Army Materiel Manual (TRAMM) (available from DTR-A website <http://intranet.defence.gov.au/armyweb/Sites/DTRA/>);
  - b. TRAMM, Volume 3, Section 2, Chapter 2, Fleet Engineering Change Management Process;
  - c. Defence Supply Chain Manual (DSCM), Volume 4, Section 3 – Supply Management Processes, Stores Accounting General (DSCM website <http://dknln009.car.defence.gov.au/dscm/index.htm>); and
  - d. DSCM, Volume 7, Section 3, Chapter 10 – Work Order Administration and Labour Hours.
3. **Authority.** ECO LtB 005/08 is the authority to carry out this modification.

### GENERAL

4. **Modification Application.** This modification is to be applied to stocks on issue or in service storage.
5. **Items Affected.** This modification alters the windscreen washer nozzle.
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 technical maintenance organisations authorised to carry out Light, Medium or Heavy Grade Repairs by Army tradespeople, ECN 229 - Vehicle Mechanic or Tri-service/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. **Task Recording.** The conduct of this modification is to be recorded in a SDSS Work Order using MMM Standard Job Number 7349. The standard job number is correct at the time of publication of this EMEI. Confirm that the number is correct if more than 12 months have elapsed since the publication of this EMEI.
9. **Estimated Workhours.** For initial planning purposes only, it is estimated that this modification will take 0.5 workhours to perform.

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

**Table 1 Stores Required**

Item	NSN	Mfr Part No	Designation or Description	Unit of Issue	Qty Per Kit	Qty Per Equip
1	2540-66-156-8997	JYG0482	Kit, Windscreen Nozzle Guard (contains items 2 to 6)	EA		1
2	2540-66-157-5308	JYG0131	Guard, Brush, Vehicular, Washer Jet, Front W/S	EA	1	
3	5310-99-122-6474	WA106041	Washer, Plain, M6	EA	1	
4	5310-99-208-6458	WL106001	Washer, Spring, M6	EA	1	
5	5305-99-122-6643	SE106161	Screw, Pan Head, X Recess, M6 x 16 mm	EA	1	
6	5310-66-128-5543	MM106301	Rivnut, M6	EA	1	

**11. Special Equipment Required.** An electric drill, 9.0mm drill bit, rivnut installation tool to suit M6 rivnut and touch up paint will be required.

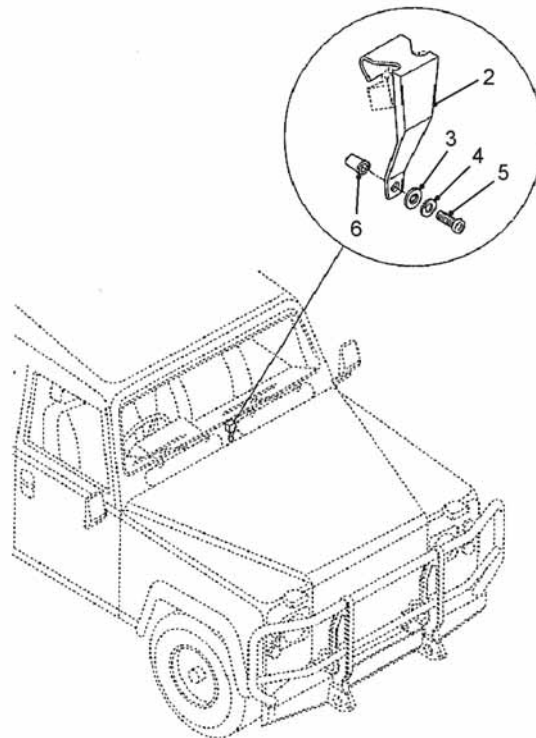
**NOTE**

If required, a suitable rivnut tool may be requested through normal supply channels using NSN 5340-66-155-3717.

**DETAIL**

**12.** Modify the windscreen washer nozzle as follows:

- a. Confirm that the windscreen washer is fully functional.
- b. Locate the windscreen washer nozzle guard (Table 2, Item 2) in the windscreen gutter positioned centrally about the washer nozzle, as shown in Figure 1.



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**Figure 1 Windscreen Washer Guard Position**

UNCONTROLLED IF PRINTED

- c. Hold the guard against the vehicle body and mark the position of the attachment hole.
- d. Remove the guard from the vehicle.
- e. Drill a 9.0 mm diameter hole in the vehicle body.
- f. Paint the bare metal edge of the hole.
- g. Install the rivnut (Table 2, Item 6) using a suitable rivnut tool.
- h. Secure the washer guard using the M6 screw, flat and spring washer (Table 1, Items 3, 4 and 5)
- i. The installed guard is shown in Figure 2.



**Figure 2 Installed Windscreen Washer Guard**

**13. Post Modification Testing.** Operate the windscreen washer to ensure the guard does not interfere with the washer jets. If the guard interferes with the washer jets, loosen the securing screw and adjust the position of the guard clear of the jets. Retighten the screw after adjustment.

**14. 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 36 on the modification record plate.
- b. When the work order is completed, the modification strike status under the reference codes tab (MSQ600), is to be annotated with a 'Y' against the modification strike #36 and in the free text input field 'Complete against EMEI Vehicle G 197-15, Nov 08'.
- 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:

Fleet Manager, Light B Vehicles Section  
LVSP0, DMO  
Defence Plaza Melbourne, Bourke Street,  
MELBOURNE VIC 3000

**END**

Distribution List: **VEH G 16.0 – Code 2** (Maint Level)  
(Sponsor: LV SPO, LtB Vehicles Section)  
(Authority: ECO LtB 005/08)