

TRUCK, LIGHTWEIGHT AND TRUCK, LIGHT – ALL TYPES – LAND ROVER 110 4X4 AND 6X6

CONVERSION FROM OIL FILLED TO GREASE FILLED SWIVEL PIN HOUSINGS

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. Land Rover Australia has superseded the swivel pin housings fitted to the Land Rover fleet of vehicles with Nitro Tech coated swivel pin housings, which are lubricated by grease instead of oil. The new housing's fit and function is exactly the same as the old housings, but the form of the housing has changed from a chrome finish to the black Nitro Tech finish and is required to be lubricated by grease.
2. The fill-for-life grease (EP00) is compatible with both the new and the old swivel pin housings. In order to facilitate this change of swivel pin housings and to ensure that oil is not mixed with grease or vice-versa, all swivel pin housings are now to be lubricated by grease.
3. This instruction details the procedure to replace the oil in the front swivel pin housings with grease on all Land Rover 110 4x4 and 6x6 variants.
4. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
 - a. [EMEI Vehicle G 103](#) – Truck, Utility, Lightweight and Truck, Utility, Lightweight, Winch, MC2 – Land Rover 110 4x4, – Light Grade Repair;
 - b. [EMEI Vehicle G 104-1](#) – Truck, Utility, Lightweight and Truck, Utility, Lightweight, Winch, MC2 – Land Rover 110 4x4 – Medium Grade Repair;
 - c. [EMEI Vehicle G 203](#) – Truck, Cargo, Light and Truck, Cargo, Light, Winch, MC2 – Land Rover 110 6X6 – Light Grade Repair;
 - d. [EMEI Vehicle G 204-1](#) – Truck, Cargo, Light and Truck, Cargo, Light, Winch, MC2 – Land Rover 110 6X6 – Medium Grade Repair;
 - b. Current version of the Technical Regulation of Army Materiel Manual (TRAMM) (available from DTR-A website <http://intranet.defence.gov.au/armyweb/Sites/DTRA>);
 - c. Electronic Supply Chain Manual (ESCM), Volume 4, Section 3 – Supply Management Processes, Stores Accounting General, ESCM website <http://escmv4web/8210.htm>; and
 - e. ESCM, Volume 6 – Manage Repairable Items, <http://escmv4web/2071.htm>.
2. **Authority.** Engineering Change Order LTB 003/03 is the authority to conduct this conversion.

GENERAL

5. **Modification Application.** This modification is to be applied to all variants of the Land Rover 110 4x4 and 6x6 fleets. Parakeet build Land Rover 6x6 ARNs 202482 to 202518 have been fitted with grease filled Nitro Tech swivel pin housings during production.
6. **Items Affected.** This modification alters the front axle assembly swivel pin housing and the servicing procedures.
7. **Priority – Group 2.** All applicable equipment is to be modified:
 - a. during next repair or service;
 - b. prior to issue to any unit; or
 - c. by 30 Mar 2004.
8. **Action Required.** Actions detailed in this instruction are to be performed by RAEME workshops authorised to carry out Light, Medium, or Heavy Grade Repairs.

NOTE

On receipt of this instruction, enter all relevant information other than date completed in Part 3 (Record of Modifications) of the Vehicle Record Book for Service Equipment – GM 120.

- 9. **Estimated Work Hours.** For initial planning purposes only, it is estimated that this modification will take 0.50 work hours to perform.
- 10. **Items to Be Removed.** There are no items to be removed.
- 11. **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	NSN	Mfr Part No	Description	Unit of Issue	Qty Per Equip
1	9150-99-911-1798	STC 3435	Molytex grease EP00 sachet	EA	2
2	7690-66-158-0745	JYG0393	Label (issued with grease)	EA	2

WARNING

All industrial safety, work practices and equipment operating and maintenance instructions pertaining to this EMEI are to be adhered to.

The handling, storage, and use of chemical substances are to be in accordance with safetyman, MSDS, and EMEI Workshop E series requirements.

DETAIL

- 12. Replace the oil in the swivel pin housings with grease as follows:

WARNING

When replacing the oil in the swivel pin housings with grease, the oil in both the left and right-hand swivel pin housings is to be replaced.

- a. Remove both the left and right-hand swivel pin housing filler and drain plugs and drain the oil into a suitable container.
- b. Refit the drain plugs.

CAUTION

It is possible to fill the swivel pin housing with the contents of more than one sachet of grease. Do not insert more than the contents of one sachet of grease into each swivel pin housing.

- c. Insert the entire contents of one grease sachet (Table 1, Serial 1) into each swivel pin housing through the filler hole.
 - d. Refit the filler plugs.
 - e. Fix one warning label (Table 1, Item 2) to the grille top panel under the bonnet and the other label to the top right hand inner corner of the windscreen.
 - f. Paint the swivel pin housing filler plug heads with yellow paint for easy identification.
- 13. **Post Modification Testing.** Check the security of the swivel pin housing filler and drain plugs.

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14. Recording Action. On completion of the modification, the following action is to be taken in accordance with the TRAMM:

- a.** Deface number 31 on the Land Rover 4x4 modification record plate located on the driver's seat base.
- b.** Deface number 35 on the Land Rover 6x6 modification record plate located on the driver's seat base.
- c.** Complete the modification details in Part 3 (Record of Modifications) of the vehicle's Record Book for Service Equipment – GM 120.
- d.** Forward the modification completion details using form GM 119 – Advice of Change in Build State to:

National Fleet Manager
Light B Vehicles
CGSVSPO
Level 7, Defence Plaza
661 Bourke Street
MELBOURNE VIC 3000

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END

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