

## TRUCK, LIGHT, MC2, LAND ROVER 110 6X6 - ALL TYPES

### UPGRADE OF REAR LEAF SPRINGS FROM 7 TO 11 LEAF

## 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 GENERAL A 001.

#### Introduction



**AS A RESULT OF THIS MODIFICATION  
THERE IS NO INCREASE IN LOAD  
CAPACITY. OVERLOADING COULD  
RESULT IN DAMAGE TO THE VEHICLE.**

1. This instruction details the upgrade of the rear leaf springs from seven to 11 leaf. The purpose of the upgrade is to improve suspension life.
2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
  - a. EMEI Workshop A 850 - Modifications, Trial Modifications and Local Modifications to Equipment;
  - b. EMEI Workshop A 851 - Recording Modifications to Equipment - Use of Modification Record Plates and Documentary Requirements; and
  - c. EMEI Vehicle G 204 Field (Medium) Repair.
3. **Authority.** Rover Australia Engineering Change 2424 is the authority to carry out this modification.

#### General

4. **Modification Application.** This modification is to be applied to Land Rover 110 6x6 - all variants. Note that some vehicles have already been upgraded. Due to funding, the modification is to be done by vehicle variant in the following priority:
  - a. GMV,
  - b. ERV,
  - c. COMSEC,
  - d. Ambulance,
  - e. LRPV,
  - f. Air Defence,
  - g. Crew Cab, and
  - h. Cargo.
5. **Items Affected.** This modification alters the rear suspension.
6. **Priority - Group 2.** After clearance of variant by National Fleet Manager (NFM), all applicable Land Rover 110 6x6 are to be modified when the vehicle is next in the workshop for repair or service.
7. **Action Required.** Actions detailed in this instruction are to be performed by qualified personnel in sub units and units authorised to carry out Medium or Heavy Grade repairs.
8. **Recording Action.** On receipt of this modification, enter the relevant details in Part 3 of the GM 120, Record Book for Service Equipment.
9. **Ordering Process.** Upgrade kits will be available from SQLG Brisbane. Units must quote vehicle ARN on the order form, as this will be the means by which the NFM will control issue of the kits. The NFM will advise units by signal when the next variant, IAW Paragraph 4, may be modified.
10. **Estimated Manhours.** For initial planning purposes only, it is estimated that this modification will take four manhours to perform.
11. **Stores Required.** The stores required are listed in Table 1 and are to be demanded as detailed in Paragraph 9. The parts kit is supplied on the basis of one kit per vehicle and is not to be ordered for stock or procured locally. The items listed in Table 2 form the kit and are shown for identification purposes only and are not to be ordered separately to complete this modification.
12. **Items to be Removed.** The items to be removed are listed in Table 3. All stores removed are to be processed in accordance with the EMEI General P section. All spring pack items are to be tagged serviceable or unserviceable and returned to stores. Serviceable spring packs will be used to support remaining fleet with 7 leaf springs.
13. NFM will advise of disposal policy on 7 leaf spring packs at a later date or when stocks are considered excessive. Unserviceable items will then be disposed IAW EMEI General P series.

- 14. Removal of 7 Leaf Springs.** Inspect all suspension components for replacement action during the modification.
- 15.** Remove springs as detailed in EMEI Vehicle G 204, Paragraphs 43 and 45.
- 16. Fitting 11 Leaf Springs.** Fit springs as detailed in EMEI Vehicle G 204, Paragraphs 44 and 46.
- 17. Recording Action.** On completion of the modification, the following action is to be taken:

- a. Deface the number 37 on the modification record plate located on the drivers seat base.
- b. Complete the modification details in Part 3 of the GM 120, Record Book for Service Equipment.
- c. Make an ink amendment to the appropriate RPS.

**Table 1 - Stores Required**

Item	NSN	Mfr Part No	Designation or Description	Unit of Issue	Qty per Kit	Qty per Equip
1	2510-66-143-6376	BYG 5542	Parts Kit, Leaf Spring Assembly	Ea	1	1

**Table 2 – Stores Detailed in Parts Kit (not to be ordered individually to complete the modification)**

Item	NSN	Mfr Part No	Designation or Description	Unit of Issue	Qty per Kit	Qty per Equip
1	2510-66-143-9796	BYG 7009	Spring and Bush Assembly	Ea	4	4
2	5306-66-143-9794	AYG 7461	Bolt, U	Ea	8	8
3	5310-99-836-2884	NY 609041	Nut, Self Locking, Nyloc	Ea	16	16

**Table 3 - Items to be Removed**

Item	NSN	Mfr Part No	Designation or Description	Qty per Equip
1	2510-66-128-5634	AYG 7223	Spring Assembly, Leaf	4
2	5306-66-128-5707	AYG 7189	Bolt, U	8
3	5310-99-836-2884	NY 609041	Nut, Sel- Locking, Nyloc	16

UNCONTROLLED WHEN PRINTED

**END**

List VEH G 20.0 - Code 3 (Job No 9600102)