

TRUCK, LIGHTWEIGHT, MC2 - ALL TYPES, LAND ROVER 4X4  
TRUCK, LIGHT, MC2 - ALL TYPES, LAND ROVER 6X6

AIR CLEANER BRACKET MOUNTING

MODIFICATION INSTRUCTION

This instruction is authorised for use by command of the Chief of the General Staff. 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

1. This instruction details the procedures to be taken when the existing air cleaner mounts crack and become unserviceable. Depending on available resources, the unit has the option of either repairing or replacing the brackets.
2. Table 1 details the stores required to modify existing brackets, utilizing the unit's resources. The repair method is detailed in Para 9.
3. Table 2 details fixings and replacement air cleaner brackets from Rover Australia that have already been modified, with repair procedures detailed in Para 10.

GENERAL

4. **Modification Application.** This modification is to be applied to all subject vehicles.
5. **Items Affected.** Air cleaner mounting bracket.
6. **Priority - Group 2.** Modification is only required when the brackets fail. Fleet retrofit action is not required.
7. **Action Required.** By RAEME units authorised to carry out unit, field or base repairs.
8. **Estimated Manhours.** For initial planning purposes only, it is estimated that this modification will take 2.0 manhours to perform.

Table 1 - Stores Required to Repair Air Cleaner Brackets  
(to be demanded through normal supply channels)

Item	MPN/NSN	Designation	Qty per Equip
1	BH 210101	BOLT, MACHINE Isometric, Grade 8, Cad Plated, 10 mm Dia, 1.25 Pitch, 50 mm Lg	2
2	9510-66-097-0925	METAL BAR, Carbon Steel, Cold Finish, Grade Cs 1020 Rd, 25 mm Dia	As Required
3	5310-99-138-9228	WASHER LOCK, Spring, Steel Single Turn, Rectangular Section, Cad Plated, 7/16	2

Table 2 - Stores Required to Replace Air Cleaner Brackets  
(to be demanded through normal supply channels)

Item	MPN/NSN	Designation	Qty per Equip
1	BYG 2147	BRACKET, Air Cleaner, Left Hand, Complete with 15 mm Spacer	1
2	BYG 2144	BRACKET, Air Cleaner, Right Hand	1
3	BH 210101	BOLT, Machine Isometric, Grade 8, Cad Plated, 10 mm Dia, 1.25 Pitch, 50 mm Lg	2
4	5310-99-138-9228	WASHER LOCK, Spring, Steel Single Turn, Rectangular Section, Cad Plated, 7/16	2

## MODIFICATION OF AIR CLEANER BRACKETS

### Repair of Brackets

9. The repair is to be carried out as follows:
  - a. Raise bonnet.
  - b. Remove the hose clamps securing the air inlet and outlet hoses to the air cleaner housing and disconnect the hoses.
  - c. Remove the two wing nuts from the clamp bolts and carefully lift the air cleaner out of the mounting brackets.
  - d. Remove the two bolts securing the air cleaner bracket to the engine and remove brackets.
  - e. On 6x6 variants remove the turbo oil feed line securing clip, spacer and bolt at rear of engine.
  - f. Inspect air cleaner brackets for serviceability and repair or replace if necessary.

#### NOTE

If air cleaner brackets require replacing refer to Para 10.

- g. Manufacture spacers for brackets as shown in Figures 1a and 1b using Item 2, Table 1.

#### NOTES

4x4 variants will require two spacers as shown in Figure 1a.

6x6 variants will require one of each of the spacers shown in Figures 1a and 1b.

- h. Drill air cleaner brackets as shown in Figure 2.
- i. Clean taped holes at rear of cylinder block using a 10 mm x 1.25 tap.
- j. Using existing bolts secure air cleaner brackets to cylinder block in original holes.
- k. On 4x4 and 6x6 variants fit 30 mm spacer between right hand air cleaner bracket and cylinder block using Items 1 and 3, Table 1 as shown in Figure 1a.
- l. On 4x4 variants fit the second 30 mm spacer between left hand air cleaner bracket and cylinder block using Items 1 and 3, Table 1.
- m. On 6x6 variants fit the manufactured 15 mm spacer between the left hand air cleaner bracket and turbo oil feed line clip using Items 1 and 3, Table 1.

#### NOTE

Spacing washers may have to be added between turbo oil feed pipe and spacer due to the differences in thickness of clip and mounting hole material.

- n. Carefully fit air cleaner into mounting brackets and secure with wing nuts.
- o. Assemble air cleaner hoses and secure with hose clamps.

### Replacement of Brackets

10. To replace existing air cleaner brackets with new modified type from Rover Australia, proceed as follows:

- a. Carry out steps 9a to 9e.

#### NOTE

Spacers for air cleaner brackets have been manufactured by Rover Australia and are welded to the air cleaner mounts.

- b. Clean tapped holes at rear of cylinder block using a 10 mm x 1.25 tap.
- c. Using existing bolts, secure new air cleaner brackets (Items 1 and 2, Table 2) to cylinder block in their original holes.
- d. Fit bolt and washer (Items 3 and 4, Table 2) through top hole in air cleaner bracket to cylinder block, and 15 mm spacer (part of Item 1, Table 2 on LH mount 4x4 variants).

#### NOTE

On 6x6 variant discard spare 15 mm spacer that is supplied with the air cleaner bracket (part of Item 1, Table 2) and ensure turbo oil feed clip and existing spacer is fitted.

- e. Carefully fit air cleaner into mounting brackets and secure with wing nuts.
  - f. Assemble air cleaner hoses and secure with hose clamps.
11. **Recording Action.** On completion of the modification, the following action is to be taken:
- a. deface the numeral 22 on Lightweight variants (4x4) and the numeral 24 on Light variants (6x6), on the modification plate located on the driver's seat base; and
  - b. enter the details of the modification in Part Three of the GM 120, Record Book for Service Equipment, of the subject vehicles.

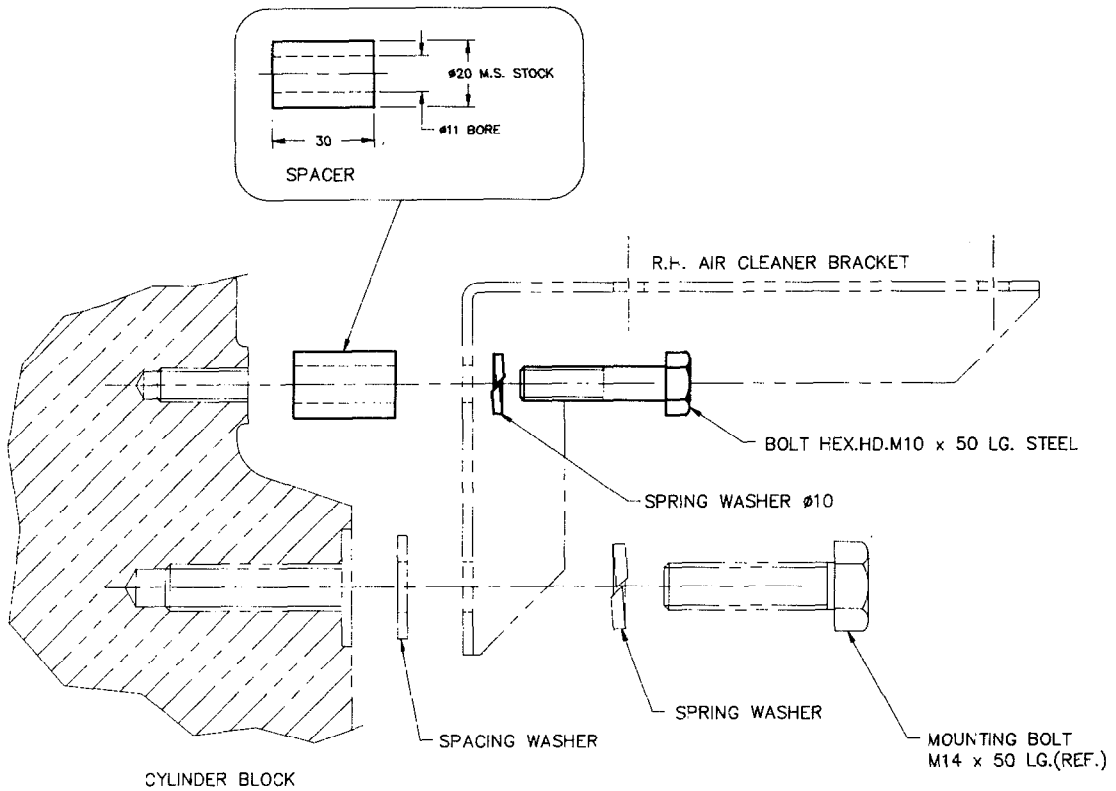


Figure 1a - RH Air Cleaner Bracket Mounting (4x4 & 6x6)

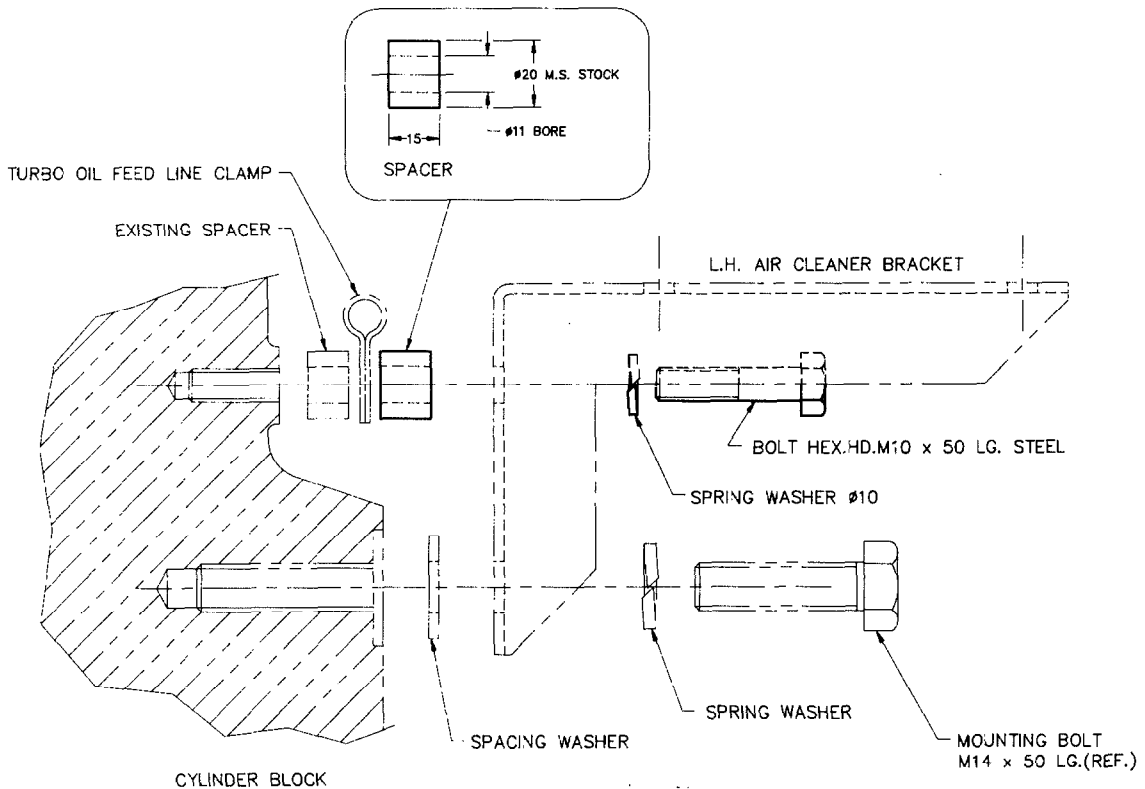
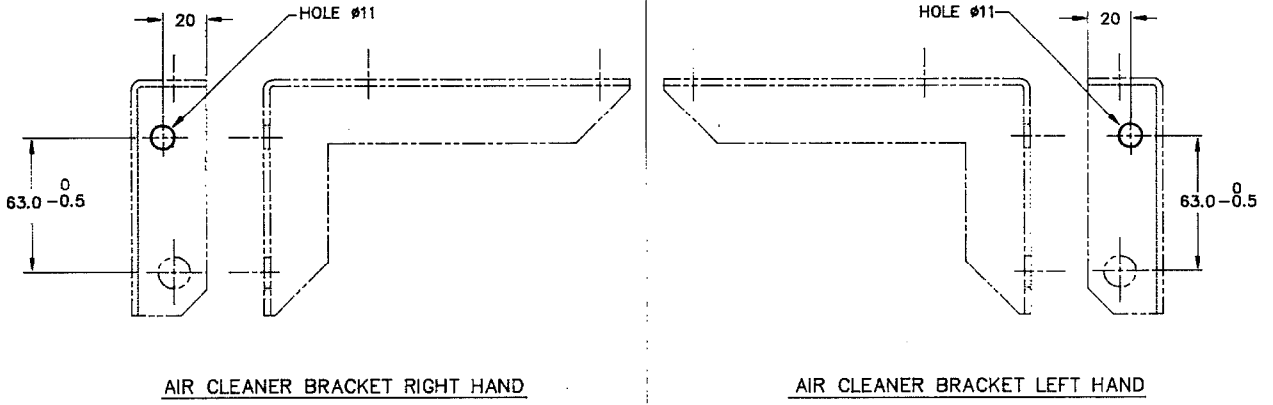


Figure 1b - LH Air Cleaner Bracket Mounting (6x6 only)

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**NOTE.**  
NEW WORK IN FULL LINE  
EXISTING WORK IN CHAIN LINE

**Figure 2 - Air Cleaner Bracket Mounting Hole**

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**END**

List VEH G 16.0 - Code 4 (MEA 930131)