

TRUCK, HEAVY, MC3 – MACK – ALL TYPES

IN-CABIN NOISE REDUCTION AIRCONDITIONER RESISTOR FIT

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 modification of the Mack Noise Reduction airconditioner to fit a resistor that will assist with protection of the airconditioning evaporator unit from high levels of voltage in the Mack charging system.

2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:

- a. Technical Regulation of Army Materiel Manual (TRAMM);
- b. MEMA, Volume 1, Chapter 9 – Army Unit Stores Accounts; and
- c. MEMA, Volume 2, Chapter 20 – Accounting for Repair Parts.

3. **Authority.** Engineering Change Orders (ECO) No OVR002/04 – Mack Noise Reduction Resistor Fit is the authority to carry out this modification.

General

4. **Modification Application.** This modification is to be applied to airconditioners with serial numbers as detailed in Table 1. (Serial number for the airconditioner can be found on the box for uninstalled items and on the identification/warranty plate on the driver's door for vehicles already fitted with the airconditioner.)

5. **Items Affected.** This modification alters the following assemblies:

- a. NSN 66-149-1326, and
- b. NSN 66-150-8890.

6. **Priority – Group 2.** All applicable equipment is to be modified:

- a. when next in a workshop for 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 RAEME workshops or authorised civilian agencies that conduct Light, Medium or Heavy Grade Repairs to the Mack Vehicle Fleet. This modification can be conducted by the following base trade and/or the civilian equivalent:

- a. ECN 418 Technician Electrical.

NOTE

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

8. **Estimated Workhours.** For initial planning purposes only, it is estimated that this modification will take 0.1 workhours to perform.

9. **Stores Required.** The stores required are listed in Table 2. Modification kits are available on request from the DMO contact below:

Project Manager MNR
Land 121 Project Office, DMO
VBM DG-23-01
Victoria Barracks, St Kilda Rd
SOUTHBANK VIC 3006
Tel: (03) 9282 7108
Fax: (03) 9282 5883

10. **Special Equipment Required.** The tools required for this modification are a Phillips head screwdriver and an 8 mm socket or spanner.

Detail

11. **Modification of Airconditioner.** The procedure is as follows:

- a. Remove the fibreglass evaporator cover (when airconditioner fitted in vehicle) to expose wiring.
- b. Remove the bolt as indicated in Figure 1.
- c. Locate the resistor pack over the bolt hole and refit the bolt (Figure 2).

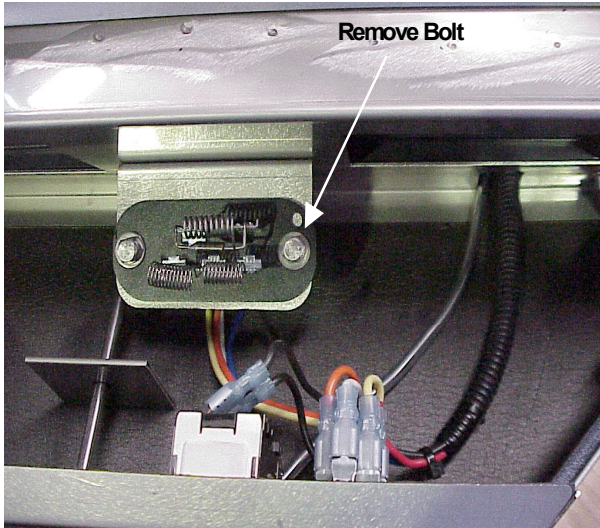


Figure 1 – Bolt Removal

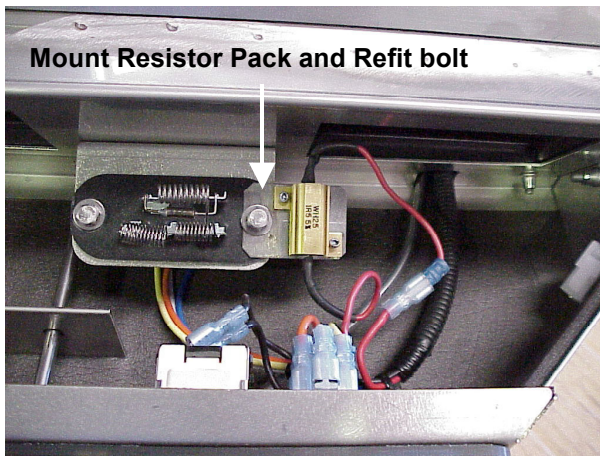


Figure 2 – Refitting of Bolt

- d. Disconnect the **RED** wire from the back of the fan switch and plug into the male spade end of the resistor wire. Plug the other female terminal end of the resistor onto the fan switch terminal (Figure 3).

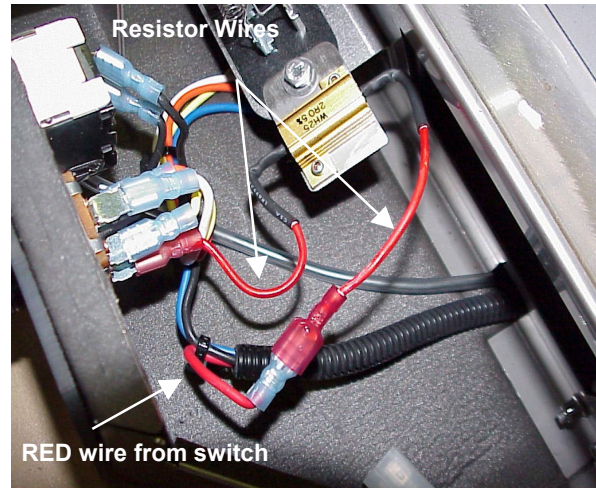


Figure 3 – Fitting of Resistor Wires

- e. Ensure the wiring is secure before refitting the cover to the assembly.

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

- a. Deface the number 33 on the Mack vehicle modification record plate.
- b. Complete the modification details in the GM120 – 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:

Project Manager MNR
Land 121 Project Office, DMO
VBM DG-23-01
Victoria Barracks, St Kilda Rd
SOUTHBANK VIC 3006

- d. The return should include the following information:
 - (1) Modification No: EMEI Vehicle G 797-24, Mod Strike 33
 - (2) Unit: eg 2 CER
 - (3) Major Equipment ARN:
 - (4) Completion Date:
 - (5) Inspected by (Rank/Name):
 - (6) GM 120 Completed by(Rank/Name):
 - (7) Airconditioner Serial Number:

Table 1 – Airconditioners to be Modified

| NSN | Description | Mfr Part No | Serial Numbers (number ranges are inclusive) |
|-------------|---|-------------|---|
| 66-150-8890 | Airconditioning Kit for Split Cabin Mack Vehicle | KTMA0602 | 031031020101 031131024201 – 031131024210 031231024301 – 031231024304 040331048401 – 040331048410 040431048601 – 040431048605 040431048606 – 040431048610 040531048801 – 040531048805 |
| 66-149-1326 | Airconditioning Kit for Standard Cabin Mack Vehicle | KTMA0601 | 11030798501 – 11030798550 030330946201 – 030330946205 030930999202 – 030930999207 031131020501 – 031131020515 031231020601 – 031231020621 040131020701 – 040131020725 040231020801 – 040231020818 040331048301 – 040331048340 040431048501 – 040431048535 040431048536 – 040431048540 040531048701 – 040531048720 |

Table 2 – Stores Required

| Item | NSN | Mfr Part No | Designation or Description | Unit of Issue | Qty per Kit | Qty per Equip |
|------|-----|-------------|----------------------------|---------------|-------------|---------------|
| 1 | TBA | REMA0600 | Resistor Assembly | ea | 1 | 1 |

UNCONTROLLED WHEN PRINTED

END

Distribution List: **VEH G 50.0 – Code 2** (Maint Level)
(Sponsor: LAND 121 SPO, Phase 2A)