

TRUCK, FUEL, TANKER, HEAVY, MC3 – MACK

MODIFIED CIRCUIT BREAKER BOARD

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 for the fitment of a modified circuit breaker board to replace the current circuit breaker board fitted to the Truck, Tanker Fuel, Diesel, Heavy, MC3, Mack; NIIN: 66-112-8852.
2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
 - a. Technical Regulations of ADF Material Manual - Land (TRAMM-L) (available from DTR-A website <http://intranet.defence.gov.au/armyweb/Sites/DTRA>);
 - b. DEF (AUST) 5695-Minimum Standards of Practice for the Storage, Handling and Quality Control of Fuels, Lubricants and Allied Products; and
 - c. Electronic Supply Chain Manual (ESCM) (available from the DRN website <http://dknl009.car.defence.gov.au/dscm/index.htm>).
3. **Authority.** ECP – 004128 is the authority to carry out this modification.

GENERAL

4. **Modification Application.** This modification is applicable to the Truck, Tanker Fuel, Heavy Diesel, MC3, Mack; NIIN: 66-11-8852.
5. **Items Affected.** This modification alters the following items:
 - a. circuit breaker board, and
 - b. vehicle wiring.
6. **Priority - Group 2.** All applicable equipment is to only be modified upon failure of one of the fuse circuit breakers.
7. **Serviceable Old Style Circuit Breaker.** All serviceable old style circuit breakers are to be sent to the Mack Technical Advisor at DMO, at the address listed in para 15.

NOTE

Where installation would delay priority issues of depot or pool stock, equipment may be issued unmodified providing the equipment record book is endorsed appropriately.

8. **Action Required.** Actions detailed in this instruction are to be performed by RAEME workshop (or unit tradespersons) authorised to carry out Light, Medium and Heavy Grade repairs by technicians ECN 418, or civilian equivalent.
9. **Standard Job No.** Use Standard Job No: 1927 when creating work orders to complete the procedures detailed within this instruction.
10. **Estimated Workhours.** For initial planning purposes only, it is estimated that this modification will take 12 workhours to perform.
11. **Stores Required.** The stores required are listed in Table 1. Modification kits are to be demanded through normal supply chains.

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DETAIL

12. Remove The Existing Circuit Breaker Board. The procedure to remove the existing circuit breaker board is as follows (refer to Figure 1 and 2).

- a. Remove the circuit breaker board, located on the left hand side of the dash, by removing the six screws retaining the panel assembly, refer to figure 1. (set the screws aside for use in the reassembly process).
- b. Disconnect the existing wiring from the vehicle side of the circuit breaker panel. (see Figure 2).
- c. Discard the old style circuit breaker board. Ensuring to comply with para 7.



Figure 1 Existing Circuit Breaker Board



Figure 2 Existing Wiring To Be Disconnected

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CAUTION

As these platforms are over twenty years old, there may be differences in the wiring configuration to that detailed in Figure 4. If units find abnormalities in the wiring, they are to interrogate the vehicle wiring to implement the modification, ensuring that the end build configuration operates as per the circuit board assembly.

13. Installation of Modified Circuit Breaker Board. The procedure to install the modified circuit board is as follows:

- a. Cut off the red and blue moulded vehicle side terminal plugs (as shown in Figure 2).
- b. Connect the supplied terminals to the severed ends in accordance with Figure 3 and 4.
- c. Connect the modified circuit board harness plugs into the appropriate modified vehicle harness plugs.
- d. Secure the modified circuit board using the existing six screws set aside during disassembly (refer to Figure 5).
- e. Test the entire vehicle's fused components to ensure the harness is wired correctly.

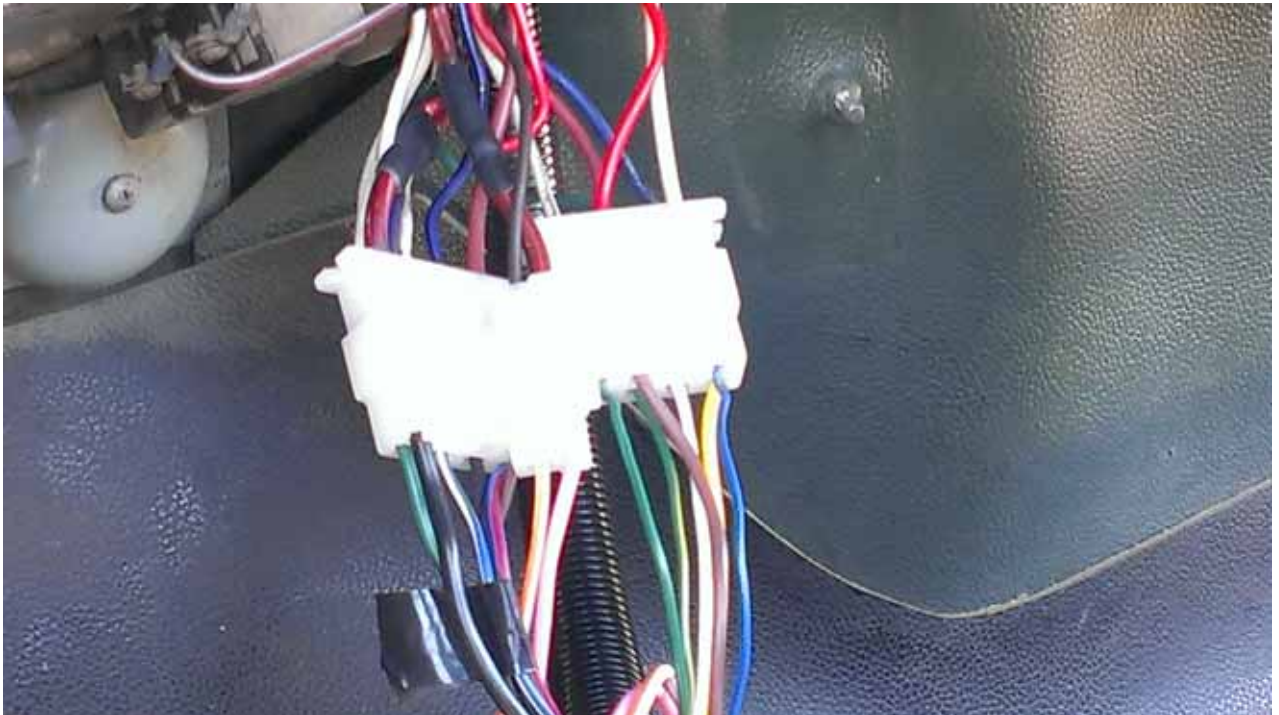


Figure 3 Connected Supplied Terminal Ends

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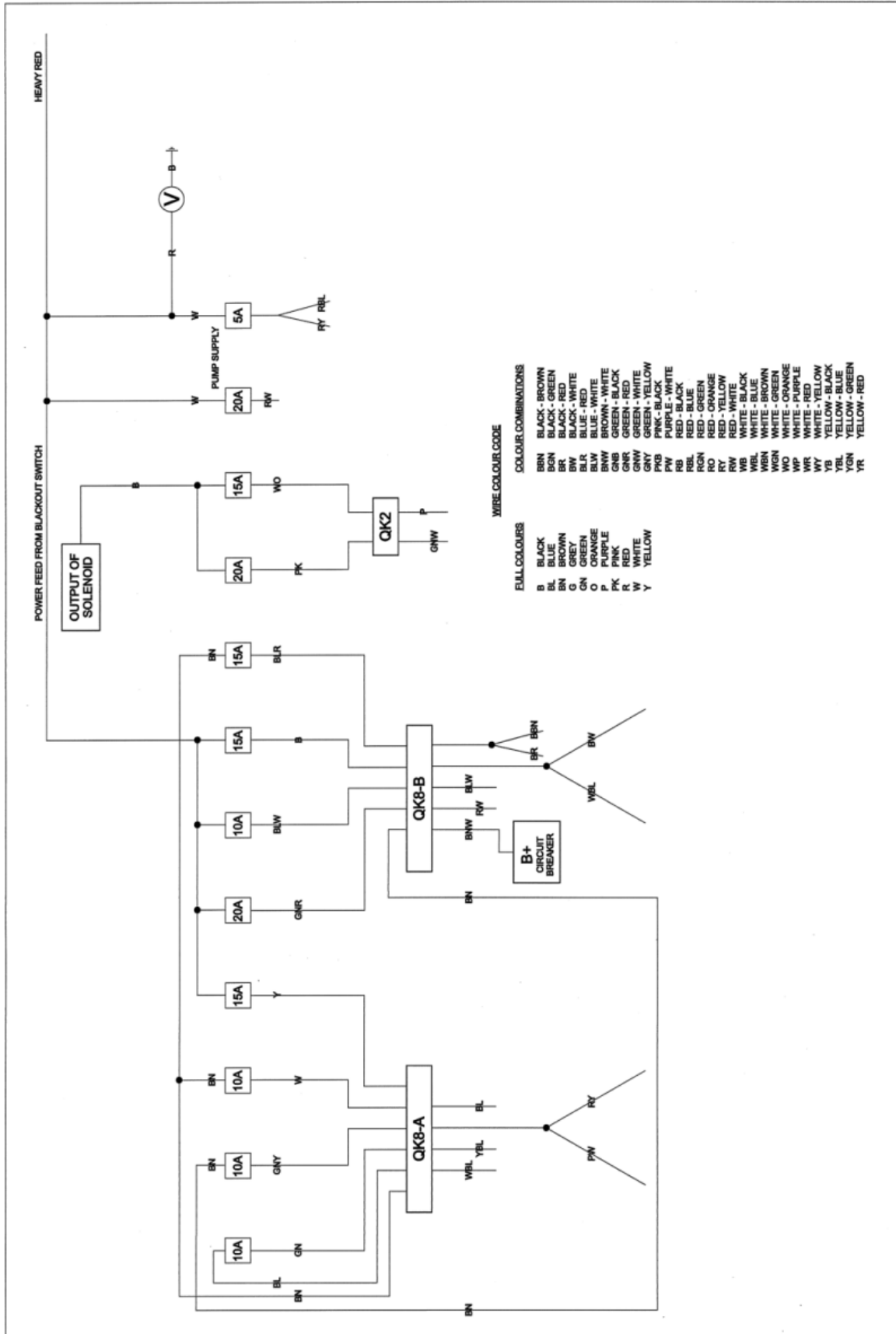


Figure 4 Circuit Breaker Wiring Diagram

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Figure 5 Completed Modified Circuit Breaker Board

14. **Stores Required.** Table 1 lists the stores required:

Table 1 Stores Required

Item	NSN	Mfr Part No	Designation or Description	Unit of Issue	Qty per Kit	Qty per Equip
1	5925-66-161-3638	22206889	Circuit Breaker Assembly	ea	1	1

15. **Recording Action.** On completion of the modification, the following action is to be taken in accordance with TRAMM - L, Volume 3, Section 2, Annex D:

- a. Deface the number 60 on the equipment modification plate.
- b. Complete serial 60 on MILIS Equipment 600 Record.
- c. Complete the modification details in the GM-120 – Record Book for Service Equipment, Part 3 Record of Modification.
- d. Forward the modification completion details using form GM 119 – Advice of Change in Build State (TRAMM - L, Volume 3, Section 2, Chapter 10, Annex B) to:

ADFLM Mdm/Hvy B vehicles
CGSVSPO, DMO
Defence Plaza, Level 7
661 Bourke Street
Melbourne
VIC 3001

END

Distribution List: **VEH G 54.0 – Code 2** (Maint Code)
(Sponsor: CGSV SPO, Medium/Heavy B Vehicles)
(DMO Job No EC-0004128)

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