

**TRUCK, DUMP, HEAVY, MC3 – MACK**  
**REPLACEMENT OF HYDRAULIC TANK FILLER CAP**  
**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 replacement of the hydraulic tank filler cap with an anti-slosh and filter cap to Mack Dump variants, to filter solid contaminants and prevent spillage of oil.
2. **Associated Publications.** Reference may be necessary to the latest issue of the following documents:
  - a. Technical Regulation of Army Materiel Manual (TRAMM);
  - b. TRAMM, Volume 3, Section 2, Chapter 2, Fleet Engineering Change Management Process; and
  - c. Defence Supply Chain Manual (DSCM)
3. **Authority.** ECO MHB 033/04 is the authority to carry out this modification.

**GENERAL**

4. **Modification Application.** This modification is to be applied to all Mack Dump variants.
5. **Items Affected.** This modification alters the following assembly:
  - a. Hydraulic Oil Tank.
6. **Priority – Group 2.** All applicable equipment is to be modified:
  - a. when next in a workshop for Light, Medium or Heavy 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 technical maintenance organisations authorised to carry out Light, Medium or Heavy Grade Repairs utilising unit technicians ECN 229 or civilian equivalents authorised to carry out Light, Medium or Heavy Repairs.

**NOTE**

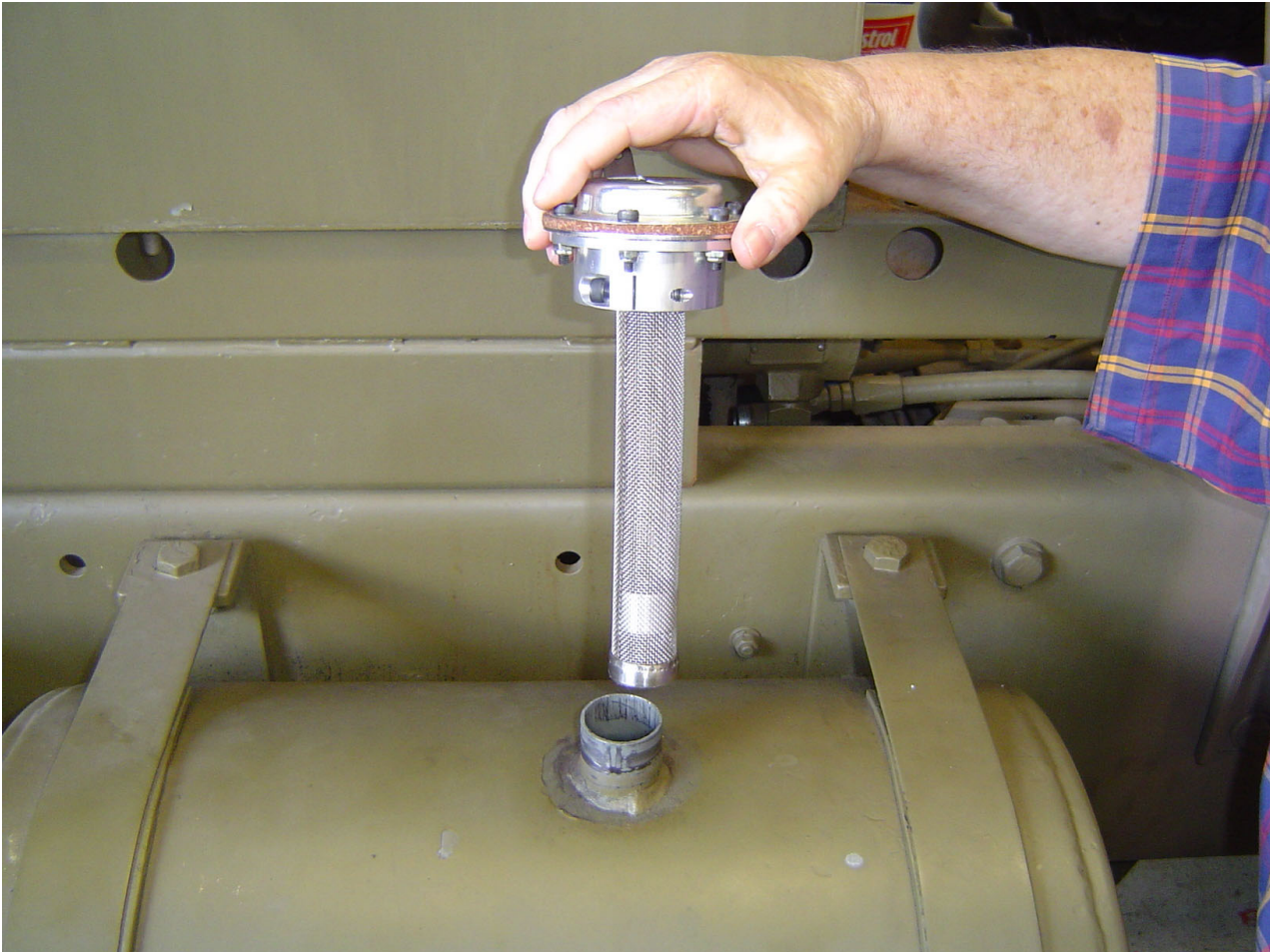
On receipt of this instruction, enter all relevant information other than date completed in the modifications section of the GM 120 – Record Book for Service Equipment.

8. **Estimated Workhours.** For initial planning purposes only, it is estimated that this modification will take 1 workhour to perform.
9. **Stores Required.** The stores required are listed in Table 1. All stores are to be demanded through normal supply channels.
10. **Items to be Removed.** The items to be removed are listed in Table 2. All stores removed are to be processed in accordance with the Defence Supply Chain Manual.
11. **Drawings Required.** Nil.
12. **Special Equipment Required.** Nil

**Detail**

**13. Modification of the Mack Dump Variants.** The procedure is as follows:

- a. Steam clean the hydraulic tank and surrounding area.
- b. Remove and discard the hydraulic tank filler cap, NIIN 66-123-2514.
- c. Clean the inner and outer surfaces of the filler neck thoroughly using a rag dipped in kerosene.
- d. Insert the replacement filler breather assembly into the hydraulic tank. See Figure 1.



**Figure 1 Fitting Replacement Filler Cap**

**NOTE**

The filler breather assembly must be inserted with sufficient force to ensure the 'O' ring internal to the assembly engages the lip of the filler neck. This may necessitate a two step fitting. The first step is to insert the assembly until the 'O' ring rests on the lip of the filler neck. The second step is to slightly increase the pressure on the assembly until it stops moving. This will ensure the 'O' ring internal to the assembly engages the filler neck.

- e. Ensure the bracket cap screws are facing away from the truck and the locking tabs are closest to the truck.
- f. Torque the two socket head cap screws to 7 to 9 N.m. See Figure 2.

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**Figure 2 Torquing of Socket Head Cap Screws**

- g.** Ensure the assembly is securely fitted to the tank.
- h.** Remove the filler cap (if fitted) and use the dipstick to check the level of the fluid. (See Figure 3.)



**Figure 3 Checking Fluid Level**

- i.** Replenish the fluid as necessary.

- j. Replace the filler cap.

**14. Post Modification Testing.** Nil

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

- a. Deface the number 46 on the modification record plate.
- b. Complete the modification details in the GM 120 – 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:

WO2 Tech Adviser Mack, MDM/HVY B Vehicles  
LVSuD, DMO  
Victoria Barracks, St Kilda Rd  
SOUTHBANK VIC 3006

**Table 1 Stores Required**

Item	NSN	Mfr Part No	Designation or Description	Unit of Issue	Qty per Kit	Qty per Equip
1	2805-66-153-3051	16MF39402K	Hydraulic Tank Filler Cap Kit	EA	1	1

**Table 2 Items to be Removed**

**NOTE**

The filler cap is available as a replacement part under Mack Trucks Australia (MTA) part number 16MF39403M, NSN 2805-66-153-3043 to facilitate replacement of unserviceable caps.

Item	NIIN	Mfr Part No	Designation or Description	Qty per Equip
1	66-123-2514	UC-AB1381-40	Cap, Protective, Dust and Moisture Seal, Steel	1

**END**  
Distribution List: **VEH G 53.0 – Code 3** (Maint Level)  
(Sponsor: LVSuD, Med/Hvy B Vehicles)  
(ECO MHB 033/04)

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