

TRUCK MDM MC2 (UNIMOG) CARGO
CENTRE SEATING

MODIFICATION INSTRUCTION

References: A. HQ Log Comd MM VEH (0735/92) LOG(C) 92/002541

B. VEHICLE G 617-13 Issue 1, Aug 88

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 modification of the subject vehicle tray body to enable configuration for centre seating.
2. The unofficial modifications that have been carried out on the Unimog Truck fleet to provide the fleet with a limited centre seating capability, are now the subject of safety issues associated under OH & S. This EMEI is issued in order to address these safety issues.
3. Funding for the modification of additional vehicles has not been identified and subsequently, is NOT available. The release of this EMEI does not constitute authorisation for any further modifications to take place.
4. The procedure for reconfiguring the vehicle from side troop seating to centre seating is also included.
5. Vehicle seats are to be modified in accordance with Reference B prior to commencing this modification.

Note:

1. NSN and Designation used in this instruction were current at the date of issue. If 12 months or more have expired since issue, the NSN should be checked for supersession.

General

6. Estimated Manhours to Perform. 4.0 (initial planning only).
7. Priority. Group 2. To be embodied as soon as practicable.
8. Modification to be applied to. Vehicles authorised for modification by Army Office.
9. Items Affected. Tray body.
10. Action Required. By RAEME units authorised to carry out field and base repairs.
11. Drawings available from MEA Drawing Office, 310 St Kilda Road, MELBOURNE VIC 3004 - Telephone 693 2414 (03) MEA 1328-1 to 1328-8.

TABLE 1 - STORES REQUIRED

NSN	Designation
(b)	(c)
MEA 1328-4	SIDE FRAME, RIGHT FRONT
MEA 1328-4	SIDE FRAME, RIGHT REAR
MEA 1328-4	SIDE FRAME, LEFT FRONT
MEA 1328-4	SIDE FRAME, LEFT REAR
MEA 1328-2	SEAT CLAMP, CENTRE
MEA 1328-2	SEAT CLAMP, END
MEA 1328-2	PLATE, CLAMP, BOTTOM
MEA 1328-5	FLOOR LOCK
MEA 1328-7	LOCATING BRACKETS
MEA 1328-8	PLATE, METAL, LOADING BEARING

TABLE 2 - STORES REQUIRED

Item	NSN	Designation	Qty per Equip
(a)	(b)	(c)	(d)
1.	NIC	SCREW, CSK HEAD, STEEL METAL 8M X 40LG	32
2.	5320-66-028-9419	M8 BOLT SIZE SPRING WASHERS	4
3.	5310-66-098-4402	M8 BOLT SIZE NUTS	32
4.	5310-66-117-3745	M8 BOLT SIZE WASHERS	32
5.	5310-66-098-4404	M12 BOLT SIZE NUTS	4
6.	5310-66-098-4443	M12 BOLT SIZE WASHERS	4
7.	8010-66-088-6083	EPOXY COATING KIT	1
8.	8030-99-224-8992	LOCTITE 241	1
9.		WASHER SPRING TO SUIT M8 BOLT	32

12. Stores Removed. Nil.

Detail

13. To carry out the modification proceed as follows:

- a. Remove the vehicle canopy, canopy bows, drop sides and tailgate, using a 20mm socket and 13 mm O/E wrench.

Note:

1. It is not necessary to remove the canopy and bows, however it is recommended for ease of movement by personnel carrying out this modification.
- b. Manufacture a template as per drawing (Paragraph 11).
- c. Using template and string lines along length of tray, mark the tray floor as per drawing (Paragraph 11).

Note:

1. To ensure the correct operation of centre seating conversion the alignment of floor lock securing pins is critical. Clearly identify the floor locks and correct position in tray floor. Check that the securing pins in the floor locks supplied conform with drawings (Paragraph 11). The securing pins on each side must be in line with each other and parallel with vehicle centre line. Make adjustments to tray floor markings to achieve alignment.
- d. Remove the inside section of the floor lock holes by drilling a 12.5 mm hole in each corner and cutting along the inner lines using a jigsaw fitted with a metal cutting blade.

CAUTION:

1. There is an angle iron section under the outer edge of the rear holes. Care must be taken when cutting in this area.

- e. Recess the outer edge of the floor lock hole as per Drawing (Paragraph 11). Using a router and tungsten carbide bit.

CAUTION:

1. Always wear eye and ear protection when using the router, and when near the router in operation.

- f. Seal all exposed wood with epoxy sealer, Table 2 Item 7.
- g. Fit the floor locks and make final adjustments as necessary. Ensure that they sit flush with the top of the tray floor and that the floor lock securing pins are aligned correctly.
- h. Drill bolt holes for floor locks with an 8 mm diameter drill.
- i. Fit load bearing plates to underside of tray to the three front floor locks.
- j. Fit bolts, washers and nuts to floor locks. Apply Loctite 241 Item 8, Table 2. The four outer rear bolts are to be fitted with spring washers.
- k. Check operation of the modification and remaining kit components by configuring the vehicle as described below.

Conversion Details

14. To convert troop seating from side to centre configurations, proceed as follows:

- a. Roll up the vehicle canopy.
- b. Lower the tailgate.
- c. Remove the dropsides and place them on the tray.
- d. Position the dropsides such that their hinges are in the floor locks and the dropside locks are together in the centre. Adjust the locks so that the two dropsides can sit close together.
- e. Lean each dropside out and slide the hinges over the floor lock securing pin.
- f. Move the dropside pairs together and ensure that the hinges have engaged the securing pin.
- g. Once dropsides are in position secure the seat tops by fitting the seat end clamps at the front and rear of the seat back rests, and the seat centre clamp in the centre of the seat back rest so that the front and rear seat pairs are secured together (see Fig 1).

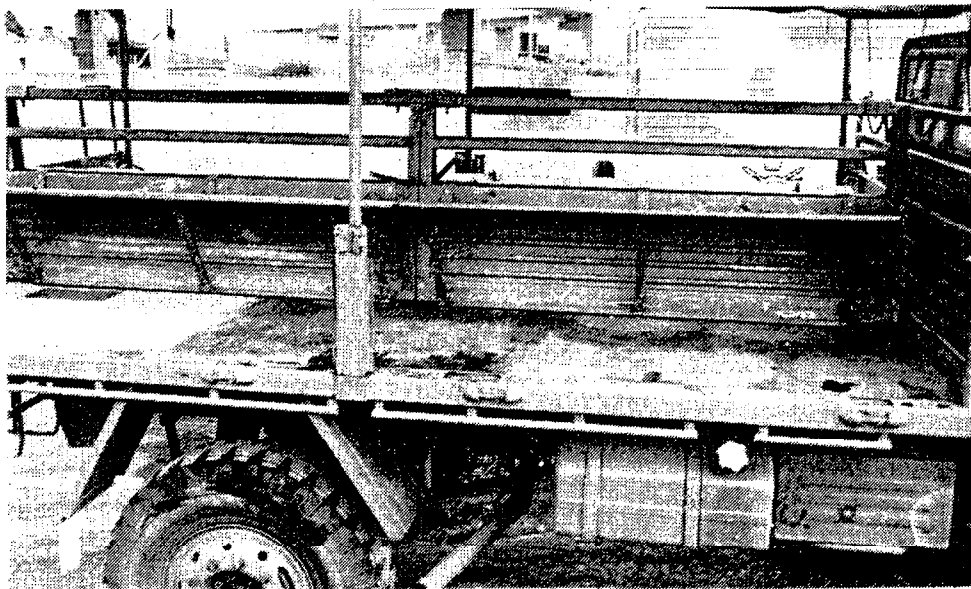


FIG 1 - SEAT PAIRS IN POSITION WITH SECURING CLAMPS

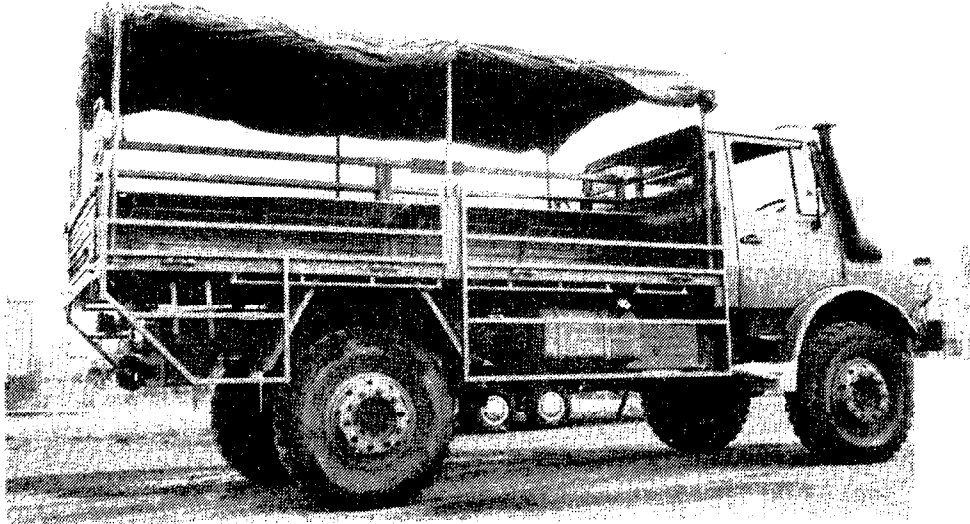


FIG 2 - FITTING SIDE FRAMES TO VEHICLES

- h. Attach the side frames to the vehicle (see Fig 2), ensuring that:
- (1) The metal tangs are behind the dropside tray hinges.
 - (2) The frame goosenecks are engaged in the centre posts.
 - (3) The headboard locks are engaged in the front side frames.
- i. Raise the tailgate and secure it against the side frames using the tailgate locks.

Note:

1. The canopy and canopy bows may be left on the vehicle if required. The sides should be rolled up and the rear of the canopy secured as normal to the tailgate.

15. Modification Record Plate. On completion of the modification deface the numeral 14 from the modification record plate and enter details in the TGM 120 Record of Service.

16. The vehicle CES is to be amended to include the following items:

- a. NIC Side Frame Right Front - 1.
- b. NIC Side Frame Left Front - 1.
- c. NIC Side Frame Right Rear - 1.
- d. NIC Side Frame Left Rear - 1.
- e. NIC Seat Centre Clamp Complete - 1.
- f. NIC Seat Centre End Complete - 2.
- g. NIC Plate Metal Load Bearing - 3.

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