

TRAILER, CARGO, LIGHT, MC2, 1 250 KG

DATA SUMMARY

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.

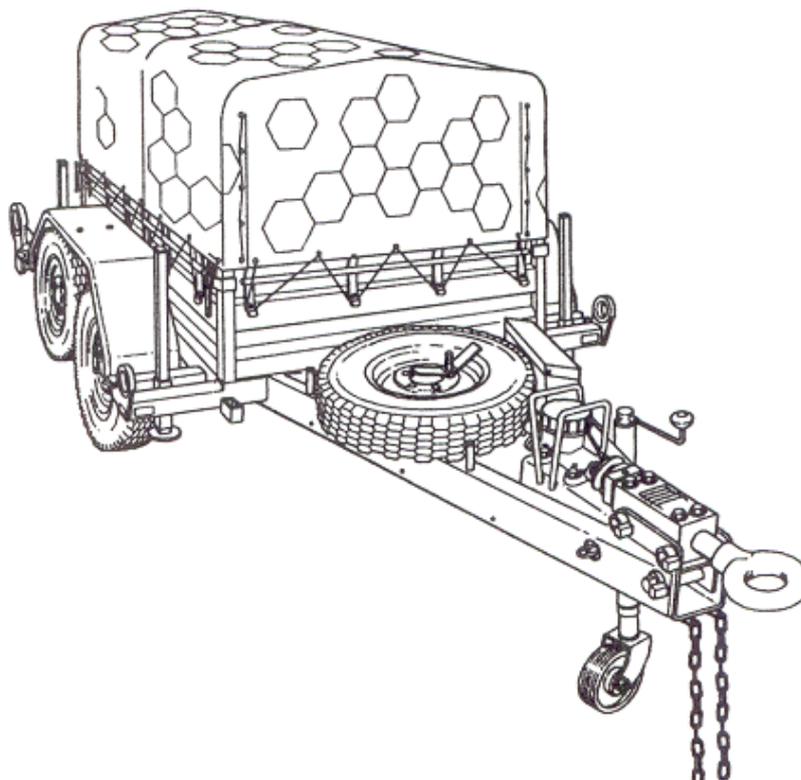


Figure 1 Trailer, Cargo, Light, MC2, 1 250 kg

General

1. This EMEI lists basic data for the Trailer, Cargo, Light, MC2, 1 250 kg, as shown in Figure 1.

CAUTION

Caution should be exercised when towing the trailer behind the Mercedes Benz Unimog whilst operating under MC2 (cross-country) condition. The difference in track width between the trailer and Mercedes Benz Unimog could result in the trailer rolling over during cross-country operation at high/unsafe speed. Consequently, when possible, the trailer should be restricted to MC3 (limited cross-country) operation whilst being towed behind the Mercedes Benz Unimog.

Role

2. The role of the this trailer is for the transportation of general stores and cargo up to a payload of 1 250 kg or 16 kVA generator sets. The trailer is designed with the same track width as the Land Rover 6x6; however, adjustment to the towing ring in accordance with Paragraph 220 of the User Handbook (7610-66-147-1456) will also enable the trailer to be towed by the Mercedes Benz Unimog.

Description

3. The Trailer, Cargo, Light, MC2, 1 250 kg is a tandem-axle, prefabricated, galvanised-steel framed trailer with an aluminium sheet floor, suitable for both highway and cross country applications. Lashing points, removable sides, front and rear gates are provided for the securing of various loads.
4. Scheduled preventive maintenance tasks are to be monitored by RAEME personnel.

Detail

5. Dimensions

- a. Overall Length.....4 200 mm
- b. Overall Width.....2 010 mm
- c. Overall Width (marker lights extended).....2 410 mm
- d. Overall Height:
 - (1) Without Canopy 1 150 mm
 - (2) With Canopy 1 800 mm
- e. Track..... 1 700 mm
- f. Wheel Base..... 900 mm
- g. Body Dimensions Internal:
 - (1) Length (inside gates)2 175 mm
 - (2) Width (inside cargo hooks) 1 235 mm
 - (3) Height.....450 mm
- h. Ground Clearance.....290 mm
- i. Limiting Featureleaf springs
- j. Carrying Capacity:
 - (1) Highway 1 250 kg
 - (2) Off-road..... 1 250 kg

6. Bridge Classification

- a. Truck and Trailer Combination (both laden):
 - (1) LR 110 6x6 Cargo..... 8
 - (2) Unimog Cargo..... 13

7. Mass

- a. Gross..... 2 000 kg
- b. Tare..... 750 kg
- c. Nett..... 1 250 kg

8. Electrical System

- a. Type..... 12/24 V dc
- b. Connector Type12-pin NATO

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- c. Lighting:
 - (1) Stop/Tail..... Rear of trailer, 2 of, 9/2 watts, replaceable module
 - (2) Indicator LightRear of trailer, 2 of, 9 watts, Replaceable Module
 - (3) Number Plate Light.....Rear of trailer, 1 of, replaceable module
 - (4) Clearance Lights:
 - (a) Each Side of Trailer2 of, 0.8 watts, replaceable module
 - (b) Front of Trailer2 of, 0.8 watts, replaceable module
 - (5) Blackout Lights (Stop/Marker)Rear of trailer, 2 of, replaceable module
 - (6) Convoy Light Rear, underside of trailer, 1 of, replaceable module

9. Axle Assembly

- a. ManufacturerN.P. Hauffe and Co
- b. TypeSimplicity Axle Systems

10. Suspension. The trailer is fitted with dual, seven-leaf, semi-elliptic springs. These springs are free to slide at either end within the spring hangers. The springs are overslung on the axle assemblies and secured to the axles by spring clamps. The axle assemblies are aligned and located by adjusting bushes, which allow free vertical movement while still retaining proper axle alignment.

- a. ManufacturerN.P. Hauffe and Co
- b. TypeSimplicity Axle Systems

NOTE

The trailer's ROH wheel rims (Part No. 01-54-5000) are the same as the Land Rover 6x6 wheel rims (Part No. AYG 8108) in construction, design and appearance. To maintain configuration control, ROH wheel rims are to be stencilled "TRAILER USE ONLY". ROH wheel rims are not to be mixed between the trailer and Land Rover 6x6.

11. Tyres and Rims

- a. Rim..... 6.00 F by 16 inch in accordance with EMEI Vehicle A 469-1
- b. Wheel studs five holes equi-spaced on 165+/- 0.13 mm PCD
- c. Tyres and Tyre pressure in accordance with EMEI Vehicle A 291-5
- d. Max Load Carrying Capacity 1 000 kg per wheel

12. Brakes

- a. Main:
 - (1) Manufacturer.....Cebco
 - (2) Type hydraulic/mechanical, calliper, disc brakes with hydraulic over-ride coupling fitted with electrical lockout.
- b. Master Cylinder:
 - (1) Manufacturer.....Cebco
 - (2) TypeC500
- c. Calliper:
 - (1) Manufacturer.....Cebco
 - (2) TypeDB1981

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- d. Disc:
 - (1) Manufacturer Cebco
 - (2) Type DB58/2
- e. Park Brake:
 - (1) Manufacturer Cebco
 - (2) Type DB1974, drum type, single, internal expanding shoe
- f. Tow Ring:
 - (1) Manufacturer Cebco
 - (2) Type C500-3
 - (3) Maximum Vertical Load 300 kg

13. Fuels and Lubrication

- a. Main:
 - (1) Chassis/Frame XG 291 (as required)
 - (2) Wheel Bearings XG 291 (as required)
 - (3) Brake master Cylinder OX (Aust) 8 (as required)

14. Manufacturer's Details

Queensland (Head Office):

Haulmark Trailers (Australia)
1848 Ipswich Road
ROCKLEA QLD 4108
Tel: (07) 3277 3666
Fax: (07) 3277 0296

New South Wales:

Haulmark Trailers (Australia)
36 Riverside Road
CHIPPING NORTON NSW 2170
Tel: (02) 9755 3877
Fax: (02) 9755 2320

15. Warranty. The warranty period is 12 months with the warranty expiry date indicated on the nomenclature plate on each trailer

16. Point of Contact

National Fleet Manager (NFM)
Lt B Vehicles, CGSVSPO
DPM 7, Defence Plaza Melbourne
661 Bourke Street
MELBOURNE VIC 3000
Tel: (03) 9282 7391

17. Associated Information

- a. SIGC 2330-0088
- b. NSN..... 2330-66-147-1456
- c. RPS 02242
- d. SCES 12251
- e. ILSI MM 10-21
- f. User Handbook..... 7610-66-147-1456
- g. EMEI Vehicle A 291-5General Service B Vehicle Tyre Guide
- h. EMEI Vehicle A 469-1Miscellaneous Instruction 16 inch Wheel Rim Identification
- i. EMEI Vehicle H 123..... Light Repair
- j. EMEI Vehicle H 129.....Servicing Instruction

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END

Distribution List: **VEH H 03.1 – Code 1** (Maint Level)
(Sponsor: CGSVSPO, Light B Vehicle Section)
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