

**TRUCK, CARGO, LIGHT AND TRUCK, CARGO, LIGHT, WINCH, MC2
– LAND ROVER 110 6X6**

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.

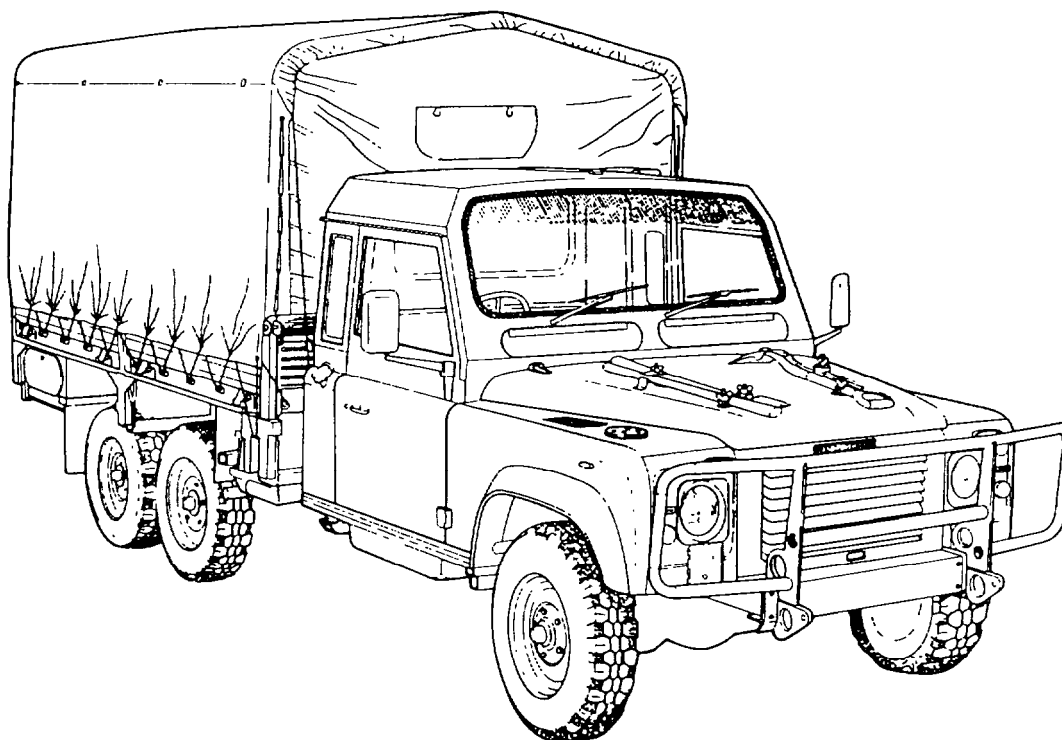


Figure 1 Truck, Cargo, Light, MC2, All Types – Land Rover 110 6x6

General

1. This EMEI lists basic data for the Truck, Cargo, Light and Truck, Cargo, Light, Winch, MC2 – Land Rover 110 6x6, as shown in Figure 1.

Role

2. The role of the equipment is to transport up to 15 personnel (including the driver) or up to two tonne of cargo.

Physical Data

3. Mass

a. Unladen (wo/winch):

- (1) Front Axle 1 550 kg
- (2) Intermediate Axle..... 975 kg
- (3) Rear Axle 975 kg
- (4) Total 3 500 kg

b. Unladen (w/winch):

- (1) Front Axle 1 600 kg
- (2) Intermediate Axle..... 975 kg

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- (3) Rear Axle 975 kg
- (4) Total 3 550 kg

c. Maximum Loading (wo/winch):

- (1) Front Axle 1 600 kg
- (2) Intermediate Axle..... 1 950 kg
- (3) Rear Axle 1 950 kg
- (4) Total 5 500 kg

d. Maximum Loading (w/winch):

- (1) Front Axle 1 650 kg
- (2) Intermediate Axle..... 1 950 kg
- (3) Rear Axle 1 950 kg
- (4) Total 5 550 kg

4. Wheels and Tyres

- a. Wheels 6F by 16, 1-piece 5-stud ventilated disc
- b. Tyres and Tyre Pressures.....in accordance with EMEI Vehicle A 291-5

5. Dimensions

- a. Length.....6 001 mm
- b. Overall Width:
 - (1) Over Mirrors2 430 mm
 - (2) Reduced.....2 072 mm
- c. Overall Height:
 - (1) Laden.....2 480 mm
 - (2) Unladen2 550 mm
- d. Reducible Height:
 - (1) Laden.....2 050 mm
 - (2) Unladen2 080 mm
 - (3) Shipping Cubage25.5 m³
- e. Cargo Tray:
 - (1) Length – Internal3 085 mm
 - (2) Width – Internal2 082 mm
 - (3) Height of Body Sides (from tray)330 mm
 - (4) Height of Cargo Tray From Ground:
 - (a) Laden960 mm
 - (b) Unladen.....1 030 mm
- f. Wheelbase:
 - (1) Front Axle to Intermediate Axle3 040 mm
 - (2) Front Axle to Rear Axle3 940 mm
- g. Track:
 - (1) Front.....1 698 mm
 - (2) Rear1 698 mm

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- h. Ground Clearance:
 - (1) Unladen 215 mm
 - (2) Limiting Feature rear differential housings
- i. Pintle Hook Height:
 - (1) Unladen 710 mm
 - (2) Laden 640 mm
 - (3) Bridge Classification 6

6. Engine

- a. Manufacturer/Type Isuzu 4BD1 TRB-G Series
- b. No. of Cylinders 4 (in-line)
- c. Power (net) 90 kW at 3 000 rpm
- d. Torque (net) 314 N.m at 2 200 rpm
- e. Firing Order 1-3-4-2
- f. Capacity 3.856 litres
- g. Compression Ratio 17:1
- h. Turbocharger water-cooled, Garret, model ATD-T25

7. Transmission

- a. Manufacturer Land Rover
- b. Type Model LT95A
- c. Ratios:
 - (1) First Gear 4.069:1
 - (2) Second Gear 2.448:1
 - (3) Third Gear 1.505:1
 - (4) Fourth Gear 1.000:1
 - (5) Reverse Gear 3.664:1

8. Transfer Case

- a. Manufacturer Land Rover
- b. Type two-speed
- c. Ratios
 - (1) High Range 0.996:1
 - (2) Low Range 3.321:1

9. Front Axle

- a. Manufacturer Land Rover
- b. Type heavy-duty, Spiral Bevel
- c. Ratio 4.70:1

10. Intermediate Axle

- a. Manufacturer GKN/Salisbury
- b. Type heavy-duty, Salisbury 8HA
- c. Ratio 4.70:1

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11. Rear Axle

- a. Manufacturer GKN/Salisbury
- b. Type..... heavy-duty, Salisbury 8HA
- c. Ratio 4.70:1

12. Steering

- a. Manufacturer Adwest
- b. Type..... integral power-assisted worm and roller
- c. Ratio 17.50:1
- d. Lock to Lock 3.5
- e. Power Steering Pump Isuzu gear-driven

13. Winch

- a. Manufacturer Winch Industries
- b. Type..... Thomas T9000M
- c. Reduction Ratio 45:1
- d. Rope Length 45 m
- e. Rope Diameter..... 11 mm
- f. Maximum Load:
 - (1) First Layer 4 077 kg
 - (2) Second Layer..... 3 488 kg
 - (3) Third Layer 3 048 kg
 - (4) Fourth Layer..... 2 707 kg
 - (5) Fifth Layer (partial)..... 2 434 kg
- g. Torque Limiter Setting 150 N.m

14. Electrical System

- a. Type of System..... 12 V
- b. No. of Batteries..... one 12 V
- c. Capacity (nominal) 98 A.h
- d. Terminal Grounded negative
- e. Radio Suppression DEF(AUST) 172, MIL-STD-461A RE05, CE07

15. Fuels and Lubricants

- a. Fuel:
 - (1) Type diesel (automotive)
 - (2) Capacity 124 litres
- b. Cooling System (water with 8% Nalcool Maximum Inhibitor)..... 12.8 litres
- c. Engine (with filters):
 - (1) Type SAE Grade 40 (OMD-115)
 - (2) Capacity 8.5 litres

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- d.** Axles:
 - (1)** Front Swivel Pin Housing:
 - (a)** Type EP-00
 - (b)** Capacity 375 mL
 - (2)** Front Differential:
 - (a)** Type OEP-220
 - (b)** Capacity 1.7 litres
 - (3)** Intermediate Differential:
 - (a)** Type OEP-220
 - (b)** Capacity 2.3 litres
 - (4)** Rear Differential:
 - (a)** Type OEP-220
 - (b)** Capacity 2.6 litres
- e.** Transmission:
 - (1)** Type SAE Grade 40 (OMD-115)
 - (2)** Capacity 2.7 litres
- f.** Transfer Case:
 - (1)** Type SAE Grade 40 (OMD-115)
 - (2)** Capacity (wo/winch) 3.2 litres
 - (3)** Capacity (w/winch) 5.8 litres
- g.** Brake and Clutch Fluid (fill to level) OX (Aust) 8
- h.** Steering Box (including reservoir):
 - (1)** Type OX46
 - (2)** Capacity 1.25 litres
- i.** Winch:
 - (1)** Type OEP-220
 - (2)** Capacity 2.1 litres
- j.** Chassis Lubrication XG-291
- k.** Wheel Bearings XG-291

16. Brakes

- a.** Parking Brake cable-operated, transmission drum brake
- b.** Foot Brake servo-assisted hydraulic dual system with front disc and rear drum brakes

17. Performance

- a.** Fording Depth (unprepared) 500 mm
- b.** Turning Circle (nominal) 17.2 metres
- c.** Ramp Breakover Angle:
 - (1)** Unladen 148°
 - (2)** Laden 152°
 - (3)** Angle of Approach 45°
 - (4)** Angle of Departure 30°

(5) Maximum Gradient 60%

d. Fuel Consumption Target:

(1) Highway Laden 22 litres per 100 km

(2) Second Class Laden 27 litres per 100 km

e. Maximum Towed Load 2 000 kg

18. Trailer Facilities

a. Socket Type.....NATO 12-pin

b. Pintle Hook..... fully rotating

c. Brakes.....no facility

19. 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

20. Associated Information

a. SIGC..... 2320-0076 (wo/winch)

b. SIGC..... 2320-0068 (w/winch)

c. NSN 2320-66-128-4226 (wo/winch)

d. NSN 2320-66-128-4228 (w/winch)

e. RPS 02185 (wo/winch)

f. RPS 02186 (w/winch)

g. SCES 12044 (wo/winch)

h. SCES 12046 (w/winch)

i. User Handbook..... 7610-66-128-4353 (wo/winch)

j. User Handbook..... 7610-66-128-4354 (w/winch)

k. ILSI..... ALI MM 10-29

l. EMEI Vehicle A 291-5..... General Service B Vehicle Tyre Guide

m. EMEI Vehicle G 202..... Technical Description

n. EMEI Vehicle G 203..... Light Grade Repair

o. EMEI Vehicle G 204-1..... Medium Grade Repair

p. EMEI Vehicle G 204-2..... Heavy Grade Repair

q. EMEI Vehicle G 209..... Servicing Instruction

END

Distribution List: **VEH G 20.0 – Code 1** (Maint Level)
(Sponsor: CGSVSPO, Light B Vehicle Section)
(Authority: ECO CGSVSPO 120/10)

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