



TRUCK, UTILITY, LIGHTWEIGHT, AND TRUCK, UTILITY, LIGHTWEIGHT, WINCH, MC2 – LAND ROVER 110 4X4

CARGO

DATA SUMMARY

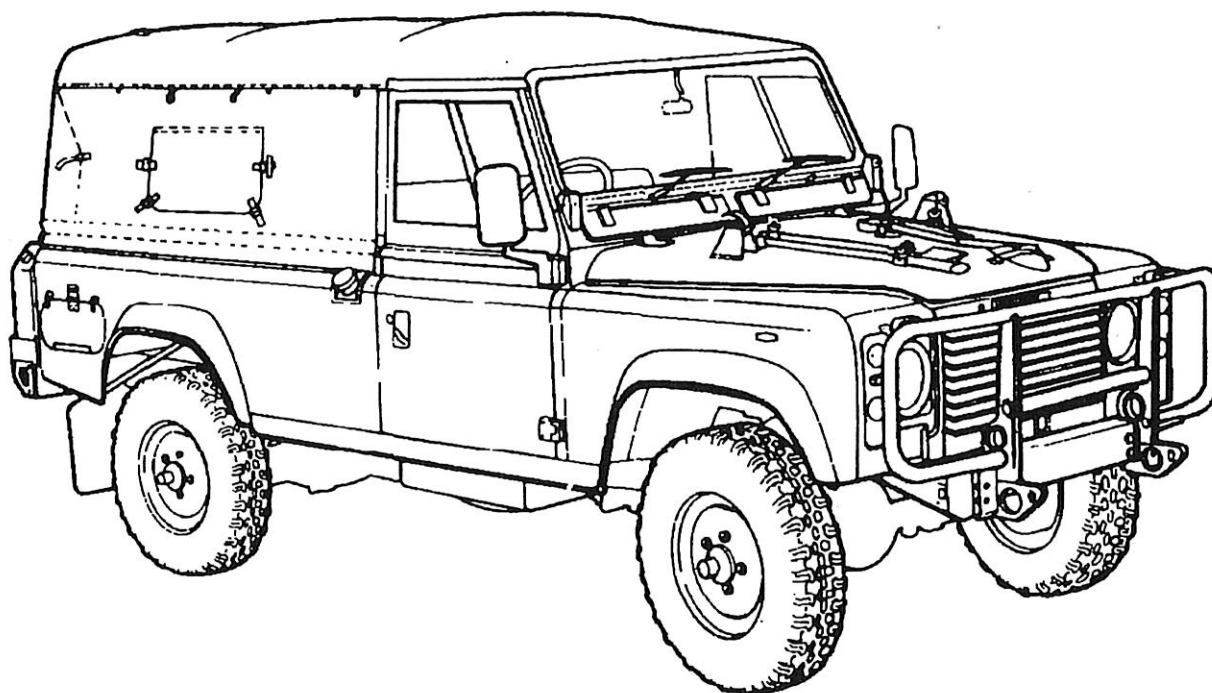


Figure 1 Truck, Utility, Lightweight, MC2 – Land Rover 110 4x4

General

1. This EMEI lists basic data for the Truck, Utility, Lightweight, MC2 – Land Rover 110 4x4, (as shown in Figure 1) and the Truck, Utility, Lightweight, Winch, MC2 – Land Rover 110 4x4.

Role

2. The role of the equipment is to transport personnel or up to one tonne of cargo.

Physical Data

3. Mass

a. Unladen (without winch):

- | | |
|----------------------|----------|
| (1) Front axle | 1 250 kg |
| (2) Rear axle | 1 000 kg |
| (3) Total | 2 250 kg |

b. Unladen (with winch):

- | | |
|----------------------|----------|
| (1) Front axle | 1 300 kg |
| (2) Rear axle | 1 000 kg |





(3) Total 2 300 kg

c. Maximum loading:

(1) Front axle 1 300 kg

(2) Rear axle 1 900 kg

(3) Total 3 200 kg

4. **Tyres and Tyre Pressures.** For details of tyres and tyre pressures, reference shall be made to EMEI Vehicle A 291-5.

5. **Dimensions**

a. Length..... 4 830 mm

b. Overall width:

(1) Over mirrors 2 058 mm

(2) Reduced..... 1 800 mm

c. Overall height:

(1) Laden..... 1 953 mm

(2) Unladen 2 040 mm

d. Reducible height:

(1) Laden..... 1 490 mm

(2) Unladen 1 530 mm

e. Shipping cubage 13 m³

f. Cargo tray:

(1) Length – Internal 1 835 mm

(2) Width – Internal 1 440 mm

(3) Height of body sides (from tray) 265 mm

(4) Height of cargo tray from ground:

(a) Laden 710 mm

(b) Unladen..... 825 mm

g. Wheelbase 2 794 mm

h. Track:

(1) Front..... 1 498 mm

(2) Rear 1 498 mm

i. Ground clearance:

(1) Unladen 215 mm

(2) Limiting feature..... rear differential

j. Pintle hook height (unladen) 640 mm

6. **Bridge Classification**..... 4

7. **Engine**

a. Manufacturer/Type..... Isuzu 4BD1

b. No. of cylinders 4 (in-line)

c. Power (Net) 66 kW at 3 200 rpm

d. Torque (Net)..... 245 N.m at 1 900 rpm

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- e. Firing order 1-3-4-2
f. Capacity 3.856 litres
g. Compression ratio 17:1

8. 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

9. Transfer Case

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

10. Front Axle

- a. Manufacturer Land Rover
b. Type Spiral Bevel
c. Ratio 3.54:1

11. Rear Axle

- a. Manufacturer GKN/Salisbury
b. Type Salisbury 8HA
c. Ratio 3.54:1

12. Steering

- a. Manufacturer Gemmer
b. Type worm and roller
c. Ratio 20.55:1
d. Lock to lock 4.4 turns

13. Winch

- a. Manufacturer Winch Industries
b. Model Thomas T8000M
c. Reduction ratio 50:1
d. Rope length 45m
e. Rope diameter 10 mm
f. Maximum load:
(1) First layer 3 636 kg
(2) Second layer 3 024 kg





- (3) Third layer 2 589 kg
(4) Fourth layer 2 263 kg
g. Torque limiter setting 112 N.m

14. Electrical System

- a. Type of system 12 V
b. No. of batteries one by 12 V
c. Capacity (nominal) 98 A.h
d. Terminal grounded negative
e. Radio suppression DEF(AUST) 172, MIL-STD-461A RE 05

15. Fuels and Lubricants

- a. Fuel:
(1) Type diesel (automotive)
(2) Capacity 68 L
b. Cooling system (water with 8% Nalcool Maximum Inhibitor) 12.5 L
c. Engine (with filter):
(1) Type SAE Grade 40 (OMD-115)
(2) Capacity 8.5 L
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 L
(3) Rear differential:
(a) Type OEP-220
(b) Capacity 2.3 L
e. Transmission:
(1) Type SAE Grade 40 (OMD-115)
(2) Capacity 2.7 L
f. Transfer case:
(1) Type SAE Grade 40 (OMD-115)
(2) Capacity (wo/winch) 3.2 L
(3) Capacity (w/winch) 5.8 L
g. Brake and clutch fluid (fill to level) OX (Aust) 8
h. Steering box:
(1) Type OEP-220
(2) Capacity 0.45 L
i. Chassis lubrication XG-291
j. Wheel bearings XG-291





- k. Winch:
- (1) Type OEP-220
- (2) Capacity 1.3 L

16. Brakes

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

17. Performance

- a. Fording depth (unprepared) 500 mm
- b. Turning circle (nominal) 13.0 metres
- c. Ramp breakover angle:
- (1) Unladen 148°
- (2) Laden 154°
- d. Angle of approach 45°
- e. Angle of departure 33°
- f. Maximum gradient 60%
- g. Fuel consumption target:
- (1) Highway Laden 12 litres per 100 km
- (2) Second Class Laden 15 litres per 100 km
- h. Maximum towed load 1 200 kg

18. Trailer Facilities

- a. Socket type NATO 12-pin
- b. Pintlehook fully rotating
- c. Brakes no facility

20. Associated Information

- a. NSN 2320-66-128-4218 (wo/winch)
- b. NSN 2320-66-128-4219 (w/winch)
- c. SCES 12035 (wo/winch)
- d. SCES 12037 (w/winch)
- e. RPS 02188 (wo/winch)
- f. RPS 02189 (w/winch)
- g. ILSI ALI MM 10-29
- h. User Handbook 7610-66-128-4345 (wo/winch)
- i. User Handbook 7610-66-128-4346 (w/winch)





- j. EMEI Vehicle A 291-5..... General Service B Vehicle Tyre Guide
- k. EMEI Vehicle G 102 Technical Description
- l. EMEI Vehicle G 103 Light Grade Repair
- m. EMEI Vehicle G 104-1..... Medium Grade Repair
- n. EMEI Vehicle G 104-2..... Heavy Grade Repair
- o. EMEI Vehicle G 109 Servicing Instruction

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