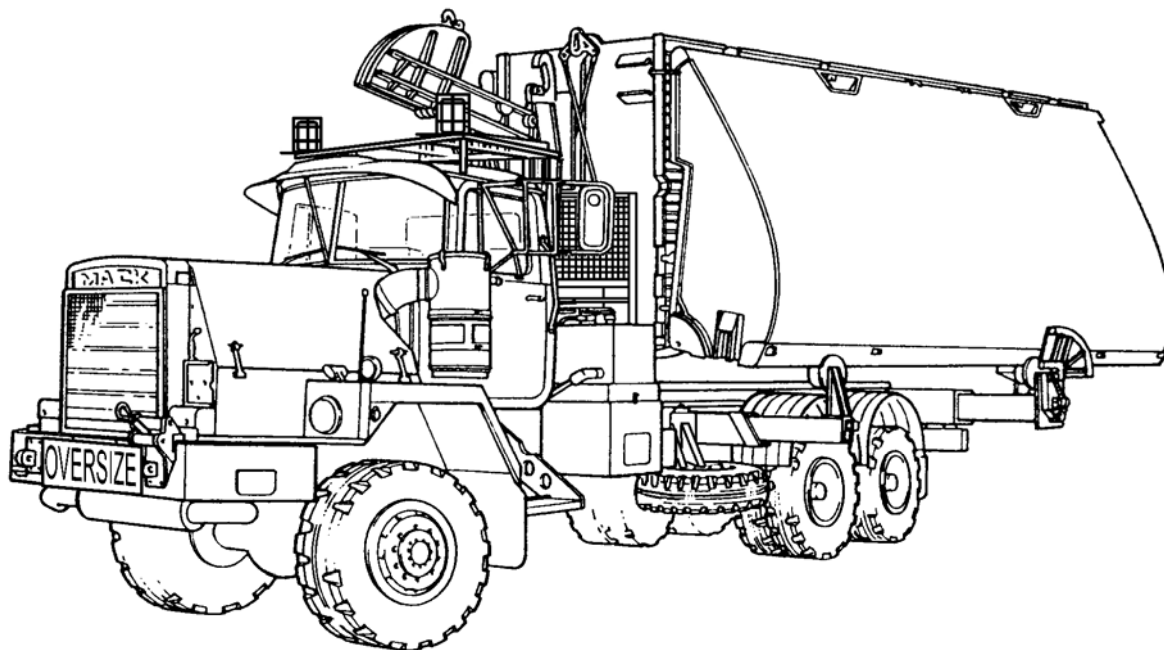


TRUCK, TRANSPORTER, FLOATING BRIDGE, MC3, W/WINCH, MACK, LAUNCH AND RECOVERY VEHICLE (LRV) NSN 2320-66-131-6653

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.



DE(EMEI)3510-1

Figure 1 Launch Recovery Vehicle (LRV)

General

1. This EMEI lists basic data for the Truck, Transporter, Floating Bridge, MC3, W/Winch, Mack, Launch Recovery Vehicle (LRV) as shown in Figure 1. Information applicable to the Mack 8 tonne cab/chassis is contained in EMEI Vehicle G 700 and EMEI Vehicle G 700-1.
2. **Role.** The role of the LRV is to transport, launch and recover any of the following Floating Support Bridge (FSB) components and accessories:
 - a. one FSB Interior Module,
 - b. one FSB Ramp Module,
 - c. one FSB Pallet Cargo Transporter, or
 - d. one Bridge Erection Propulsion Boat (BEPB).
3. **Description.** The LRV is a specially modified Mack 8 tonne cab/chassis fitted with a hydraulically operated boom and winch assembly, rollers, and bridge module locking devices, for the launch and recovery of FSB modules or a BEPB. The LRV can also be used to carry stores associated with bridging operations using the cargo pallet tray.
4. When carrying an FSB Module or the BEPB, the LRV is oversized. Oversize signs, rotating warning lights and extendable side clearance lights are fitted to the LRV.
5. A VHF radio is fitted to the LRV to enable communications between the LRV and waterborne BEPB. A portable radio is also provided to enable communication between the LRV and an escort vehicle when operating oversized.

Physical Data – Unladen LRV

6. Mass:

a. Unladen LRV:

- (1) Front Axle 6232 kg
- (2) Rear Bogie..... 8792 kg
- (3) Total 15 024 kg

b. Maximum Loading (Highway):

- (1) Front Axle 6000 kg
- (2) Rear Bogie..... 16 221 kg
- (3) Total 22 221 kg

c. Maximum Loading (Cross Country):

- (1) Front Axle 5699 kg
- (2) Rear Bogie..... 14 351 kg
- (3) Total 20 050 kg

7. Dimensions:

a. Length Overall..... 9840 mm

b. Width:

- (1) Including Rear View Mirrors 3350 mm
- (2) Excluding Rear View Mirrors 2545 mm

c. Height:

- (1) Hook Guide in Transport Position..... 3936 mm
- (2) Hook Guide in Operating Postion 4490 mm

8. General:

- a. Hydraulic Oil..... OM-33**
- b. Hydraulic System Tank Capacity 80 L**
- c. Communication Equipment..... Radio Set UHF Mobile, NSN 5820-66-151-7907**

Physical Data - LRV loaded with an Interior Module

9. Mass:

a. Laden with Interior Module:

- (1) Front Axle 5600 kg
- (2) Rear Bogie..... 14 880 kg
- (3) Total 20 474 kg

10. Dimensions:

a. Length Overall..... 11 200 mm

b. Width:

- (1) Including Rear View Mirrors 3700 mm
- (2) Excluding Rear View Mirrors 3340 mm

c. Height:

- (1) Hook Guide in Transport Position..... 3886 mm
- (2) Hook Guide in Operating Postion 4490 mm

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Physical Data - LRV loaded with a Ramp Module

11. Mass:

a. Laden with Ramp Module:

- (1)** Front Axle 6270 kg
- (2)** Rear Bogie 14 250 kg
- (3)** Total 20 784 kg

12. Dimensions:

- a.** Length Overall 11 050 mm
- b.** Width:
 - (1)** Including Rear View Mirrors 3700 mm
 - (2)** Excluding Rear View Mirrors 3370 mm
- c.** Height:
 - (1)** Hook Guide in Transport Position 3834 mm
 - (2)** Hook Guide in Operating Postion 4466 mm

Physical Data - LRV loaded with a Cargo Pallet Tray

13. Mass:

a. Laden with Cargo Pallet:

- (1)** Front Axle 6300 kg
- (2)** Rear Bogie 10 348 kg
- (3)** Total 16 648 kg

14. Dimensions:

- a.** Length Overall 10 240 mm
- b.** Width:
 - (1)** Including Rear View Mirrors 3350 mm
 - (2)** Excluding Rear View Mirrors 2545 mm
- c.** Height:
 - (1)** Hook Guide in Transport Position 3936 mm
- d.** Payload 4500 kg

Physical Data - LRV loaded with a BEPB

15. Mass:

a. Laden with BEPB:

- (1)** Front Axle 5560 kg
- (2)** Rear Bogie 16 640 kg
- (3)** Total 22 200 kg

16. Dimensions:

- a.** Length Overall 11 090 mm
- b.** Width:
 - (1)** Including Rear View Mirrors 3700 mm
 - (2)** Excluding Rear View Mirrors 3210 mm
- c.** Height:
 - (1)** Hook Guide in Transport Position 3936 mm
 - (2)** Hook Guide in Operating Postion 4250 mm

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17. Performance:

- a. Approach and Departure Angle:
 - (1) Cross Country Laden Approach Angle33 degrees
 - (2) Unladen Approach Angle.....33 degrees
 - (3) Cross country Laden Departure Angle.....28 degrees
 - (4) Unladen Departure Angle.....28 degrees
 - (5) Cross Country Laden Approach Angle (Air Springs Deflated).....36 degrees
 - (6) Cross Country Unladen Approach Angle (Air Springs Deflated).....36 degrees
 - (7) Cross Country Laden Departure Angle (Air Springs Deflated)23 degrees
 - (8) Cross Country Unladen Departure Angle (Air Springs Deflated).....23 degrees

18. Point of Contact:

ADF Logistic Manager
DMO, LSD, ENG SPO, Engr Equip
Victoria Barracks
256 – 310 St Kilda Rd
SOUTHBANK VIC 3006
Tel: (03) 9282 5996

19. Associated Information:

- a. SIGC.....2320-0102
- b. NSN.....2320-66-131-6653
- c. RPS.....02216
- d. SCES12113
- e. User Handbook NSN.....7610-66-134-9407
- f. EMEI Vehicle A 029..... Servicing of B Vehicles
- g. EMEI Vehicle A 291-5..... General Service B Vehicle Tyre Guide
- h. EMEI Vehicle G 702..... Technical Description
- i. EMEI Vehicle G 703..... Light Grade Repair
- j. EMEI Vehicle G 703-1..... Light Grade Repair (air spring suspension)
- k. EMEI Vehicle G 704..... Medium Grade Repair
- l. EMEI Vehicle G 704-1..... Heavy Grade Repair
- m. EMEI Vehicle G 704-2..... Medium and Heavy Grade Repair (air spring suspension)
- n. EMEI Vehicle G 709..... Servicing Instruction (all types)
- o. EMEI Vehicle G 782..... Technical Description (LRV)
- p. EMEI Vehicle G 783..... Light Grade Repair (LRV)
- q. EMEI Vehicle G 784..... Medium and Heavy Grade Repair (LRV)
- r. EMEI Vehicle G 785..... Preservation Prior to Use in Water (LRV)
- s. EMEI Vehicle G 788..... Equipment Inspection and Examination (LRV)
- t. EMEI Engr Equip H 289-1..... Floating Support Bridge, Repair Planning Guide
- u. ILSL..... ALI MM 10-8

END

Distribution List: **VEH G 59.0 – Code 1** (Maint Level)
(Sponsor: ENG SPO, Engr Equip)
(Authority: ECO EE 18/07)

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