

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

### PRESERVATION PRIOR TO USE IN WATER

## PRESERVATION AND STORAGE PROCEDURES

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.

### GENERAL

#### Introduction

1. This instruction is issued for the direction and guidance of personnel responsible for the preservation treatment of the Launch and Recovery Vehicle (LRV) prior to use with the Floating Support Bridge (FSB) or Bridge Erection Propulsion Boat (BEPB) involving water entry activities, using the preservatives, lubricants and materials listed in Table 1.

#### NOTE

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

#### Associated Publications

2. Reference may be required to the current issue of the following publications to assist with preparation of the equipment:

- a. [EMEI Vehicle G 702](#)..... Technical Description;
- b. [EMEI Vehicle G 709](#)..... Servicing Instruction (all types);
- c. [EMEI Vehicle G 782](#)..... Technical Description (LRV);
- d. [EMEI Vehicle G 788](#)..... Equipment Inspection and Examination (LRV);
- e. [EMEI Vehicle G 789](#)..... Servicing Instruction (LRV);
- f. [EMEI Workshop D 701](#)..... Painting of Army Equipment – General Instruction;
- g. [ILSI](#)..... ALI MM 10-8 (Mack).

3. Reference may be required to the current issue of the following publications to ensure safety of personnel and prevention of damage to equipment:

- a. [EMEI Workshop E 652](#) – Occupational Health and Safety Instructions – General Instruction;
- b. [Defence Safety Manual](#), (SAFETYMAN);
- c. product Material Safety Data Sheets (MSDS) [Chem Alert](#); and
- d. relevant equipment User/Operator and Servicing Handbooks.

## DETAIL

### WARNING

All industrial safety, work practices and equipment operating and maintenance instructions pertaining to this instruction are to be adhered to. The handling, storage and use of chemical substances are to be in accordance with SAFETYMAN, MSDS and EMEI Workshop E series requirements.

#### Initial Preparation of Fully Functional Vehicles

4. The procedures for the preservation of the LRV prior to water entry activities are as follows:
  - a. The vehicle is to be cleaned and lubricated in accordance with EMEI Vehicle G 709 and EMEI Vehicle G 789. Excess grease is not to be removed from the grease nipples after lubrication.
  - b. Vehicle drive and transmission systems are to be checked to ensure there are no leaks.
  - c. Vehicle fuel systems are to be checked to ensure there are no fuel leaks.
  - d. All hydraulic reservoirs are to be topped up.
  - e. Road wheels stud threads are to be brushed with XG-279, refer to Table 1.
  - f. Battery electrolytes are to be topped up.
  - g. Battery terminals are to be cleaned and smeared with PX-103, refer to Table 1.
  - h. Clean both winch ropes and lubricate with wire rope lubricating oil, refer to Table 1.
  - i. Clean all body, door and toolbox drain holes.

#### NOTE

Ensure that the LRV lift frame and pivot points are liberally coated with Lanotec. Rubber surfaces are not to be coated with Lanotec.

- j. Vehicle painted surfaces and exposed metal surfaces are to be coated with Lanotec.

#### Treatment after Vehicle Use

#### NOTE

When vehicles have been operated in salt water, thorough washing with fresh water is to be carried out as soon as the tasking is completed. If protective coatings are removed during cleaning, they are to be reapplied as soon as is practical.

5. Treat an LRV that has been involved in water entry activities as follows:
  - a. Road wheel stud threads are to be brushed with XG-279.
  - b. Vehicles are to be cleaned with high-pressure fresh water or with steam.
  - c. Remove floor and trunk mats and door trim. Clean thoroughly giving particular attention to re-entrant folds, which form troughs for collection of moisture and dirt.
  - d. Interiors of box section chassis are to be treated by liberally applying Lanotec (refer to Table 1) injected by means of an air-powered engine cleaning gun, using a sufficiently high-pressure air blast to carry the Lanotec through the box section.
  - e. The lift frame, sub-frame and hook arm are to be recoated with protective coating (only if the protective coating was removed during cleaning).

**Ongoing Maintenance**

**WARNING**

**When sanding or removing any paint from the LRV, ensure it is conducted in accordance with EMEI Workshop E 652 as the paint type is Polyurethane Paint (PUP).**

**NOTE**

Patch painting by unit personnel is to be with enamel paint systems in accordance with EMEI Workshop D 701.

**6.** During Non-technical, Technical and periodic servicing, particular attention is to be given to detect any signs of rusting. If any indication of rusting is reported during these inspections, remedial action is to be carried out as follows:

- a.** clean off all lifting and cracked paint work in accordance with EMEI Workshop E 652;
- b.** clean rusted areas to bright metal; and
- c.** treat all bare metal areas in the following manner within two hours of cleaning:
  - (1)** an application of red oxide zinc chromate primer for steel,
  - (2)** an application of mist coat of etch primer followed by zinc chromate primer for aluminum, and
  - (3)** patch paint over primed areas.

**7.** If any panel beating is done on the vehicle, take particular care that the underside of the panel being repaired is thoroughly cleaned, primed and patch painted before additional protective treatment is carried out.

**Table 1 Preservatives and Lubricants**

| <b>Serial</b> | <b>Preservative and Lubricant</b>                 | <b>NSN</b>   | <b>Use</b>            |
|---------------|---|--|-----------------------|
| 1             | Corrosion Preventative Compound, Lanolin Film     | 8030-66-132-7850 (20 L Drum)                                   | Metal surface coating |
| 2             | Preventative and Sealing Compound (PX-103)        | 8030-00-285-1570 (35 lb Pail)                                  | Battery terminals     |
| 3             | Grease, Ball and Roller Bearing (XG-279)          | 9150-66-086-8826 (12.5 kg Drum)<br>9150-66-086-8827 (3 kg Can) | Wheel studs and nuts  |
| 4             | Lubricating Oil, General Purpose, Wire Rope Spray | 9510-99-337-1498 (300 g Spray Can)                             | Winch ropes           |

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**END**

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