

DIRECTORATE GENERAL OF BORDER ROADS
GENERAL MAINTENANCE INSTRUCTION NO.99

ON

FIRST PARADE, HALT PARADE AND LAST PARADE
OF

ROTARY SNOW PLOUGH ROLB: R-1200 'MONOFORCE'

Aim

1. To lay down the FIRST PARADE, HALT PARADE AND LAST PARADE OF ROTARY SNOW PLOUGH ROLB: R-1200 'MONOFORCE'

Action By

2. User Units: - Take action as per details given in the succeeding paragraphs.

Details

3. First Parade. Carry out the following Maintenance and Inspection of machine before starting: -

(a) Check for any seepage or leakage of fuel, engine oil, Gear Oil, Hydraulic Oil and Brake Fluid from anywhere on the respective systems. Locate the point of leakage and report for rectification.

(b) Go round the visit and check for any missing nuts and bolts or visit breakage or damage.

(c) Refit batteries if removed and secure the connections.
(Caution : Negative earthed)

Note :- Batteries will be removed only when minimum temperature falls down below minus 20°C.

(d) Check up the following for correct level and top up, if necessary: -

- (i) Engine Oil (by Dipstick marking)
- (ii) Hydraulic oil in the Hydraulic tank (from Glass Window, if not less than it's mid-point)
- (iii) Oil in Air Cleaner (oil bath type) for sedimentation also. Replace oil if dirty.
- (iv) Diesel on the Engine Fuel Tank. (Method: Insert 'switch key' and press.
Read fuel gauge directly for the quantity.)
- (v) Diesel in the cabin heater fuel tank.

(e) Open drain plug of the Engine fuel tank. Clean water and sedimentation. Replace plug, and gear diesel begins to flow.

(f) Check fuel glass bowl, and clean it's filter, if dirty, start engine by self starter and stop engine as soon as glass bowl is filled.

(g) Check all the four wheels visually for proper inflation.

Halt Parade. The following Maintenance and Inspection be carried out, whenever the machine is stopped during working hours; -

(a) Inspect machine for any damages, specially to cutter blades, missing/broken bolts and nuts, leakage/seepage.

(b) Check the following for overheating ('fuel' by hand, if bearable): -

- (i) Cutter Gear Box (chain drive) and planetary Gear casing.
- (ii) Impeller Gear Box (chain drive) and Planetary gar casing.
- (i) Vehicle Drive (Main) gear Box (Main) Gear Box and Transfer Case.
- (ii) Front and Rear Axles.
- (iii) Portal Gears on all the four wheels.
- (iv) Distributor Ger Box.

(c) Check Hydraulic oil temperature gauge (It should be always below 100°C)

(d) Remove any excessive accumulations of snow from rotor assembly.

5. **Last Parade (Or Garage Drill).** The following maintenance and Inspection be carried out after parking the machine at the end of the day's work: -

(a) Clean snow accumulation from other parts of the machine.

(b) Go round the machine: Check for any leakage of fuel, Brake Fluid, Hydraulic oil, Engine oil, Gear Oil, damage and deficient nuts and bolts.

(c) Pay particular attention for possible damage to cutting and impeller components. Re-adjust distorted cutter blades means of adjusting fork (placed in the cutter rotor shaft). Also lighten up cutter blade and scraper blade nuts and bolts and cutter drum mounting bolts. Replace broken/missing nuts and bolts.

(d) Under temperature below minus 20°C, disconnect battery connection and remove the batteries to a warm place.

CAUTION :-Cabin must be in lifted position by two feet to remove batteries and refit the next morning.

(e) Fill clean diesel in the Engine Fuel Tank and cabin heater fuel tank to full capacity.

CAUTION :- Use filter/strainer while filling in fuel.

- (f) If machine is to be parked in the open, cover with a tarpaulin.
6. Any additional point may be added by SO-1/SO-2 EME (Project) based on their practical experience or as per instruction of M/s ROLBA Company, ZURICH, SWITZERLAND or M/s KUMAR ENTERPRISE, NEW DELHI.

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