

DIRECTORATE GENERAL BORDER ROADS  
GENERAL MAINTENANCE INSTRUCTION NO. 75

ON

MAINTENANCE AND LUBRICATION OF SICARD SNOW BLOWER

Aim

1. The enumerate the details of periodic and preventive maintenance and lubrication of SICARD SNOW BLOWER.

Summary

2. Maintenance is essential to prolong the life of the equipment, keep it working efficiently at all times, minimize the breakdown and downtime. This is achieved by regular periodic and preventive

Action by

3. (a) User units:- To carry out periodic Inspection/Maintenance and preventive Maintenance, at regular intervals as per details given in succeeding paragraphs, so that:-

(i) the life of the eqpt is prolonged

(ii) timely repairs by field workshops improve the state of road worthiness of the equipments and arrests defects from developing into major ones.

(b) Field Workshops:- To check the 'Record of Maintenance and Lubrication' in the log books of the equipments during inspection and repairs, if carried out as per maintenance and lubrication schedules given in this instruction. Advise user units, if any discrepancy is noticed.

Details

4. Details of maintenance and lubrication along with the periodicity have been tabulated in appx to this instruction as under :-

(a) Periodic and preventive maintenance of the equipment as per appx 'A'.

(b) Lubrication of the equipment as per appx 'B' and

(c) Check card of mobile maintenance card attached.

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04 **Lubrication System**

- (a) Check oil level in oil pan. Bring level up to the full mark on oil level gauge (dipstick).
- (b) Drain and renew engine lubricating oil.
- (c) Renew engine lubricating oil filter elements.
- (d) Inspect seal inside of oil level dipstick cap.
- (e) Remove engine breather tube and wash in solvent and dry with compressed air.
- (f) Remove and clean oil pan. Clean oil pump suction screen.
- (g) Remove, clean and inspect oil pressure regulating valve, pressure relief valve and lubricating bypass valve.

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05 **Electrical System**

- (a) Lubricate generator, if equipped with oil cups.
- (b) Check condition and tension of generator drive belt.
- (c) Check condition and tension of alternator drive belt.
- (d) Check liquid level of battery cells
- (e) Inspect alternator and transistor regulator
- (f) Inspect generator and regulator
- (g) Inspect electric starting motor.
- (h) Check specific gravity of each battery cell. Inspect and clean battery cables.

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06 **Air System**

- (a) Drain air reservoir (compressed air tank)
- (b) Air starter - fill lubricator with oil

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07 **Clutch**

- (a) Grease power take-off clutch throw out collar
- (b) Grease the shaft bearings, pilot bearings and operating lever shaft
- (c) Check clutch for proper adjustment
- (d) Change oil which lubricates main bearings on power take-off clutch, if necessary.

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08 **Torque convertor and tail shaft Governor**

(a) Check oil level and lubricate ball joints

(b) Check torque convertor lubricating oil and/or convertor levels.

(c) Grease the throuwout bearing of torque and convertor (Twin disc) and clean orifice filter.

(d) Clean and lubricate tail shaft governor flexible drive shaft.

(e) Renew convertor fluid and filter element of torque convertor (clark)

(f) Renew convertor fluid and filter element of torque convertor (twin disc) clean screan in bottom of fluid reserve tank.

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09 **Hydraulic Steering Pump**

Check condition and tension of hydraulic stg pump drive belt.

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10 **Automatic start and stone eqpt**

(a) Grease angle adopter for cranking limit switch and overspeed governor

(b) Inspect and clean fuel solenoid skit off valve and immersion heater.

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11 Cold weather starting aid

Inspect and clean screen and nozzle hole in starting aid.

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12 **Air Compressor**

(a) Drain moisture from air reservoir (storage tank)

(b) Check condition and tension of air compressor drive belt. Service air strainers check mounting bolts.

(c) Clean or replace filters in air compressor governor.

(d) Service air compressor.

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**Appendix 'B' to HQ DGBR GMI No 75 dated 04 Oct 72**

**DETAILS OF LUBRICATION POINTS OF SICARD SNOW BLOWER**

S/No	Location point of lubrication	No of Point	Interval of lubrication in Hrs.	Lubricant to be used.
01	Clutch throw out collers	1	10	Chassis Grease
02	Propeller shaft joint	5	10	Gear oil SAE 140
03	Front blower oil pan side	1	Check 50 Change 500	Gear oil SAE 90
04	Upper and lower conveyer bearings	1	10	Short Fiber Grease.
05	Chain drive bearing	1	10	-do-
06	Clutch pilot bearing	1	50	-do-
07	Midship stub shaft bearing	2	50	-do-
08	Chute rack gear pinion bearing	1	50	Chassis Grease
09	Chute Gear ring	1	50	-do-
10	Impeller casing gear pinion bearing	2	50	-do-
11	Reduction gear case	1	Check 50 Change 500	Gear Oil SAE 90
12	Clutch release lever shaft	1	50	Chassis Grease
13	Safety flange	1	50	-do-
14	Hoist cross shaft bearings	1	50	-do-
15	Bevel Gear case	1	Check 50 Change 500	Gear Oil SAE 90
16	Chain drive safety shaft	1	50	Chassis Grease.