

DIRECTORATE GENERAL OF BORDER ROADS
GENERAL MAINTENANCE INSTRUCTION NO.95

STARTING AND STOPPING DRILL – ROLBA – R-1200 SNOW
CLEARING MACHINE

Aim

1. To lay down the starting and stopping drill of ROLBA – R-1200 SNOW CLEARING MACHINE

STARTING DRILL

2. First check the machine from outside and then get into the friver's cabin and check various items of the machine as per details given in the succeeding paragraphs.

3. Outside the machine

- (a) Go round the machine once to make sure no side panel is opened.
- (b) Remove the wheel block and place it at its appropriate place on left side of the cabin.
- (c) Make sure no boulder or wooden block is lying before the wheels.
- (d) For driving on highway, take out parts of tail stop lights.

4. Inside the Driver's cabin

- (a) Open the cabin door, get in, sit on the friver's seat and close the cabin door.
- (b) 'Feel' the foot brake pressure and ensure brakes are not spongy or ineffective; otherwise bleed the system or rectify defects.
- (c) Check the following control levers which should be in neutral position :-
 - (i) Vehicle Drive lever
 - (ii) Cutter driver lever
 - (iii) Impeller driver lever } Hydro-static system
- (d) Hand brake should be in engaged position.
- (e) Insert the switch key in the switch in 'Zero' position and press it slightly. The battery circuit 'on' and oil pressure warning lights will lit on the dashboard.
- (f) Press Throttle lever down by moving it slightly to the left side.
- (g) Turn the starter switch to no.1 position, and hold it till the Heater Plug light comes on (say after 2 to 3 minutes). It indicates that the battery has heated up both the Heater Plugs.
- (h) As soon as the Heater Plug light comes on, press and turn the 'Starting Switch' further to start the engine.

Caution :- DO NOT OPERATE STARTER SWITCH FOR MORE THAN 10 SECONDS AT A TIME. IF ENGINE FAILS TO START IN THE FIRST ATTEMPT, WAIT FOR 2 TO 3 MINUTES AND RE-OPERATE THE STARTER TO START THE ENGINE.

(J) Operate Throttle lever to adjust engine speed to 900 RPM. (See RPM in the Revolution counter on the dashboard).

(k) Allow engine to run at 900 RPM for three minutes for initial warming up.

(l) Select suitable gear, engage gear lever, keeping in mind the following speed limits :-

1 st gear	-	for	0-5 Km PH
2 nd gear	-	for	0-12 Km PH
3 rd gear	-	for	0-20 Km PH
4 th gear	-	for	0-32 Km PH

Note : Second gear is the most recommended speed.

(m) Increase engine RPM by pressing Throttle lever to about 2,000 RPM. Adjust engine speed by the Throttle Knob/lever to 1,800 RPM for plain drive and 2,100 RPM for snow clearance work.

(n) Make sure that no one is near about the machine within 10 feet distance. Also check that move is in its front. See from Rear-view mirror and give horn.

(o) Gradually pull the first hydraulic lever (near the driver seat) till the plough is raised about 18" high from ground, then leave it.

(p) Release Hand Brake

(q) Gradually operate 'Vehicle drive lever' forward backwards, depending upon the direction if the machine is to be moved forward or backward respectively.

(r) Adjust speed by the vehicle control lever, according to the road condition.

STOPPING DRILL

5. (a) Reduce vehicle speed gradually by operating 'vehicle drive control'.
- (b) Bring machine to the left or road at a suitable place.
(USE SIDE – INDICATOR)
- (c) Bring vehicle control lever in neutral position. The machine will stop.
- (d) Lower the cabin/plough gradually by pushing the 1st lever (near to the driver seat) gradually till touches the ground.
- (e) Engine Hand Brake.

- (f) Bring the main drive to neutral.
- (g) Kill the engine gradually.
- (h) Take out switch key.

Caution :- ENSURE THAT 'DEFROSTING SCREEN' AND 'CABIN HEATER' ARE OFF.

- (j) Come out of the driver's cabin and close the cabin door.
- (k) Put the wheel block (Wedge) behind wheels, if the ground is sloppy.
- (l) Go round the machine and see for any leakage and loose/broken/missing nuts and bolts. Take remedial action immediately, so that machine is available in serviceable condition for use whenever required.

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