

BOB-CAT 5 HORSE POWER

Operating Instructions

STARTING PROCEDURE

1. Become familiar with engine operating instructions.
2. Disengage both wheel drive clutches and thrower clutch. When levers have no tension, they are disengaged.
3. CAUTION: Engage thrower clutch slowly with engine at low speed, also when disengaging reduce engine speed to idle before throwing out.
4. Shifting the Bob-Cat from forward to reverse or vice versa, do not FORCE shifting lever, but apply a gentle pressure and at the same time engage the wheel clutch lever slightly. This allows the shifting clutch on the spline shaft to slide down the engaging ramps for entry. This transmission will not shift into gear without following this procedure. You may shift from forward to reverse without disengaging wheel clutch.
5. If the machine is to be operated on hard surfaces, the skids can be properly adjusted by loosening skid bolts and with the scraper blade on the surface allow the skids to rest flat and then tighten. This will allow scraper blade to clean down to the surface and remove packed snow, but still give protection for cracks in the surface.

If the machine is to be operated on fine stones or crushed rock, the skids' must be extended all the way down, so as not to run the stone through the machine. If the mesh of the stone is larger than will pass under the scraper blade with the skids extended, depress the handle of the machine so it will allow two or three inches of snow to remain on the ground. With the snow packed solid, you can then clean the rest of the winter as though it were a paved surface.

SNOW CONDITIONS AND SPEEDS

DRY SNOW can be handled at any throttle setting from slow to fast. WET SNOW should be handled at fast throttle setting and spout in high position.

SPECIAL NOTE: Swivel spout plate must be oiled every time machine is used by taking an oil can and running oil into the square holes or gear teeth of the ring gear. This will prevent freezing. If spout should freeze from lack of oil do not force it to turn by the crank, but pour some warm water over swivel spout plate and then oil thoroughly.

SNOW DISCHARGE

If it is necessary to throw dry snow against the wind, put the deflector spout in the lowest position. This reduces the snow blow back to a minimum. You will soon learn that Bob-Cat has the best combination of features to be found in a snow thrower.

TROUBLE SHOOTING

The feeder drive is protected against foreign material by a torque clutch. If the snow stops coming out of the spout while

operating, it is the result of foreign material stopping the feeder. Immediately stop the engine, disengage the snow thrower clutch and pull the feeder back to release whatever is caught, then make a normal start.

The proper setting of the torque clutch is, with the end of the feeder blade 7 inches above the ground; it should hold 150 to 160 pounds without slipping.

A sudden jar with that amount of weight on it should make it slip.

To adjust, just tip machine back on handle and tighten nut No.22 of the torque clutch from below.

Do not tighten more than the 150 to 160 lbs. or damage may result.

If the machine has been stored outside and snow has been left in machine, it is possible that if temperatures rise above freezing, the snow may melt and again freeze, locking the impeller in the ice. If this happens after warming engine for five minutes and idler lever is engaged the impeller shaft will not turn and only stall the engine. To solve this problem pour warm water down the discharge valve and again engage idler lever.

Tire pressure should be 18 to 20 pounds. If machine pulls to the right or to the left, the tire on the inside of the turn is low in pressure.

LUBRICATION

An occasional drop of oil on all moving control rod points will add to the smoothness of operation.

Normal operation of 25 hours per year requires the following procedure:

At the beginning of each season oil 6 bearings on transmission and two in feeder case. Oil idler arm on transmission and idler arm on thrower case.

Put 4 drops of oil in torque clutch.

At mid-season or about 12 1/2 hours, put 4 drops in torque clutch again.

Impeller ball bearings require no lubrication.

Every 100 hours or 4 years remove engine plate and apply LUBRIPLATE MARINE A to chains in transmission. Add Lubriplate No. 2 to felt bearing feeders.

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