

GENERAL MAINTENANCE

Lubrication	7
Service Schedule	9
Tire Maintenance	7

GENERAL
MAINT



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IMPORTANCE OF ROUTINE MAINTENANCE

Maintenance work must be done regularly. Failure to do so will result in damage to the machine or its engine.

The chart on page 9 has been prepared as a guide to proper maintenance of the Bobcat Loader. Do not depart from this schedule unless it is to SHORTEN intervals due to extremely hot, cold, dusty or corrosive operating conditions.

TIRE INFLATION

Your Bobcat Loader is equipped with 7:00 x 15, 6 ply nylon tires. Inflate tires to 50 PSI maximum. If you allow the pressure to go lower than 50 PSI, your machine will be hard to turn and tire wear will be much greater. For operations requiring flotation the optional 10 x 16.5 flotation tire should be inflated to 25 PSI, but can be inflated to 50 PSI for operation on hard surfaces.

The tires of your Bobcat may be ballasted with calcium chloride for greater loader stability and traction. Tires should be ballasted to no more than 80% of capacity. Fill to level of valve stem with valve stem at highest position.

Flotation tires should not be ballasted except in pulpwood operations.

A special tire gauge is required for checking air pressure in ballasted tires; See your Melroe dealer.

TIRE ROTATION

If both rear or both front tires wear excessively, rotate them to the opposite end of the machine as shown in Figure 10. This should be done as soon as excessive wear is noticed.

Excessive tire wear may be caused by improper inflation or counterweighting.

TIRE REPLACEMENT

The tires on your Melroe Bobcat Loader are especially designed for it. Replacing them with any other type will result in unsatisfactory loader performance. If you need to replace a damaged or worn tire, it is important that the replacement be the same size as the tires still on the Bobcat. Two different size tires on the same side of the machine will cause undue chain and tire wear, and loss of power. If two new tires are purchased to replace two worn ones, put them both on the same side. Put the two used tires (same diameter) on the opposite side.

For foundry use, we recommend using a standard steel cap, shredded metal tread tire, with a sealant tube and no chloride, to eliminate puncture problems. Lower air pressure will also cause fewer punctures. We do not advise using a solid type tire, as this may cause undue chain wear.

BOBCAT LUBRICATION POINTS

Figures 11, 12 & 13 show grease fitting locations. We recommend the use of a good lithium base grease on all fittings.

Refer to your Service Schedule on page 9 for lubrication intervals.

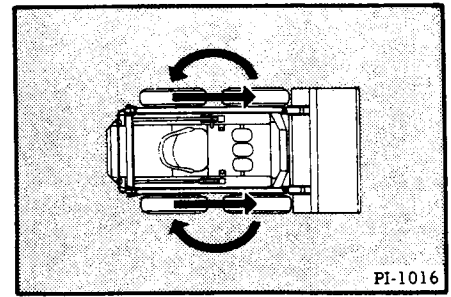


Fig. 10 Tire Rotation

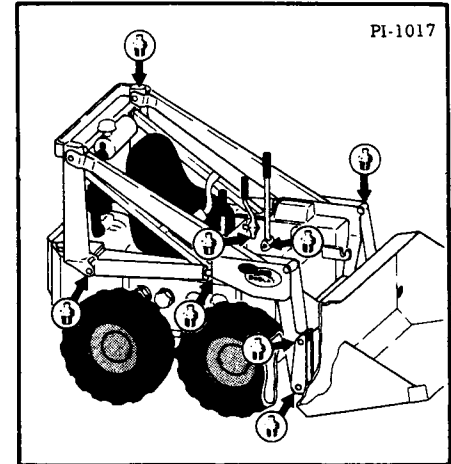


Fig. 11 Loader Pivot Lubrication

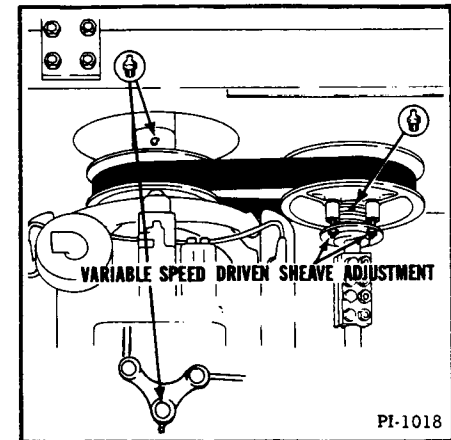


Fig. 12 Variable Speed & Throttle Swivel

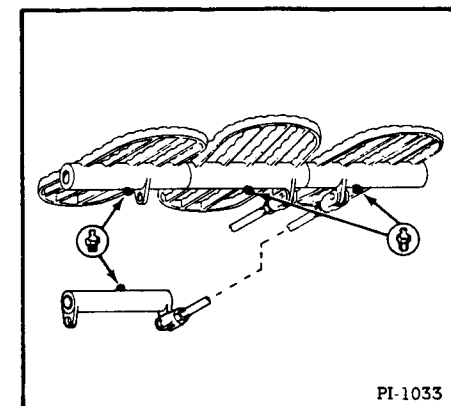


Fig. 13 Control Pedal Lubrication



SERVICE SCHEDULE

MODEL	ITEM	SERVICE REQUIRED	HOURS																	
			8-10	16-20	40-50	80-100	200	300	500	1000	2000									
G, D, P, E	All Loader Pivots	Grease fittings (10) until excess shows.																		
G, D, P	Engine Air Cleaner (Dry Type)	Empty cap as required. Change cartridge when indicator shows red ring.																		
D	Oil Bath Air Cleaner	Check condition of oil.																		
G, D, P	Engine Oil	Add to full mark. Do not overfill. Use oil recommended by engine manufacturer.																		
G, D, P	Engine Air Inlet Screen	Check and clean as required.																		
G, D, P	Cooling Fins and Shroud	Backflush with air as required.																		
G, D, P	Starting Motor	Flush with air as required.																		
E	Cable Swivel	Grease fittings (2) until excess shows.																		
G, D, P, E	Variable Sheaves	Grease fittings (2); drive and driven sheave.																		
G, D, P, E	Control Levers & Pedals	Grease fittings (7) until excess shows.																		
G, D, P	Engine Oil	Change. Refer to Engine Manual																		
G, D, P	Engine Oil Filter	Replace element.																		
G	Distributor Cam (Wisconsin)	Apply drop of oil in spring cap oil cup.																		
G, D, P, E	Hydraulic Oil Filter	First change at 50 hours, then change when condition indicator nears red zone or 5 to 7 inches vacuum.																		
G, D, P, E	Final Drive Chains	Adjust to taut condition as required.																		
D	Oil Bath Air Cleaner (Bureau of Mines)	Clean and refill with engine oil.																		
G, D, P	Engine Air Cleaner (Dry Type)	Check operation of condition indicator.																		
G, D, P	Crankcase Breather	Inspect. Service as required (M-444 & M-500 have a breather valve requiring special attention. Refer to Engine Manual).																		
G, D, P, E	Steering Clutches	Adjust when lever travel exceeds 3"-4" from neutral in either direction (fully engaged).																		
D	Engine Valve Tappets	Check clearance. Adjust if necessary.																		
G	Plugs and Points	Clean. Gap. Replace as required. Retorque plugs.																		
G	Generator (M-444)	Lubricate.																		
D	Engine Fuel Filter	Clean or replace element.																		
D	Engine Blower V-Belt Tension	Check. Adjust as necessary.																		
P	Engine Valve Tappets	Check clearance. Adjust if necessary.																		
G	Engine Cylinders	If over 90 PSI compression (M-600) or over 130 PSI compression (M-500 & M-444) clean carbon from combustion chambers.																		
G, D, P	Engine Shroud	Remove to clean engine cooling fins.																		
G, D, P, E	Drive Belt and Sheaves	Check for tension, alignment and wear.																		
G, D, P	Starting Motor	Remove, clean and service.																		
G	Engine	Remove heads. Clean carbon from combustion chambers. Reseat valves if necessary.																		
D	Crankcase Breather	Change copper mesh element.																		
G, D, P, E	Hydraulic, Transmission Sump	Drain condensation. Check level. Add as required. Use ATF type A or Dexron.																		
G, D, P, E	Hydraulic, Transmission Sump	Change oil. Use ATF type A or Dexron. Approximately 18 gallons are required.																		
P	Engine Fuel Filter	Clean or replace element.																		
P	Oil Pump Strainer	Clean.																		
P	Engine Cylinders	Remove carbon from combustion chambers.																		
E	Motor Bearings	Lubricate. For interval, follow instruction plate on motor. If no plate is provided, see your Reliance Motor Manual.																		

Model Code: G, Gasoline & LP Gas; D, Deutz Diesel; P, Petter Diesel; E, Electric.

* On fertilizer, grain or other extremely dusty operations, clean more often as required.

** Change oil every 25 hours in Kohler engines used where temperatures exceed 90° F.

*** Adjust after first 5 hours of operation. Check daily if solid type tires are used.

