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MANUAL PREVIEW

Bobcat
Operator's Manual

M371

Loader

Operator's Manual

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CLARK
EQUIPMENT

CLARK EQUIPMENT COMPANY
MELROE DIVISION, GWINNER, N. DAK. 58040

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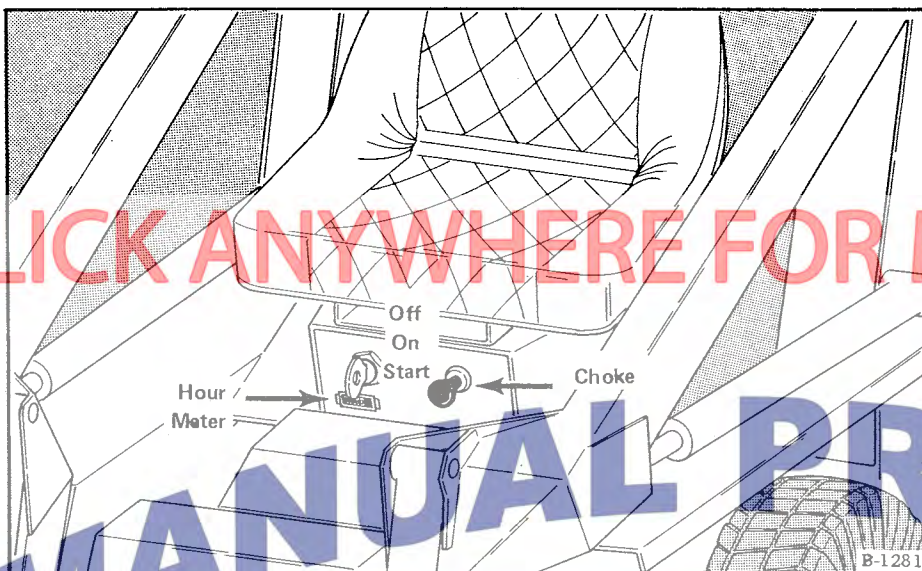


Fig. 1 Instrument Panel



Fig. 2 Throttle Control

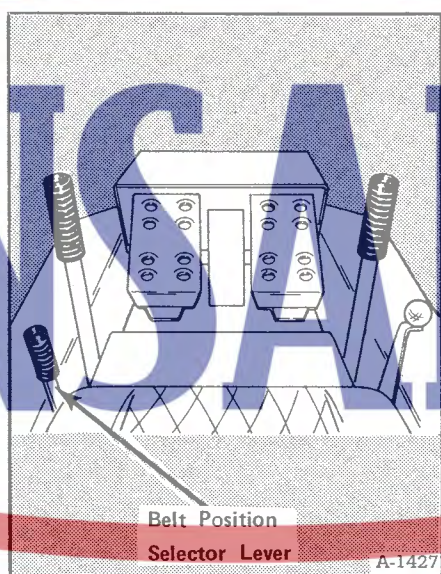


Fig. 3 Belt Position Selector Lever



Fig. 4 Selecting An Operating Range

INSTRUMENTS

The instrument panel is located below the front of the operator's seat. On it are an ignition key and a choke control knob and a hour meter (Figure 1).

THROTTLE CONTROL

The throttle control is the lever located at the right front of the seat (Figure 2). Move the throttle lever forward to increase engine RPM. Move it back to decrease RPM.

SPEED RANGE SELECTION

You can select a high or low operating range.

The engine output shaft and the transmission shaft each have a double sheave. Each double sheave consists of a large and a small v-belt pulley.

To select an operating range:

1. Stop the engine.
2. Remove tension from the belt by moving the selector lever slightly forward (Figure 3).
3. For low range, place the belt onto the inside set of pulleys (Figure 4).

For high range, place the belt onto the outside set of pulleys (Figure 4).

4. After shifting the belt from one speed range to the other, remove the safety pin from the far right end of the selector lever shaft. Place the pin into the other hole. If the belt is on the inside set of pulleys, place the pin into the inside hole. If the belt is on the outside set of pulleys, place the pin into the outside hole.

HYDRAULIC CONTROL PEDALS

Foot pedals control the hydraulic functions of the loader (Figure 5).

Press the heel of the right pedal to roll the bucket back. Press the toe of the right pedal to tilt the bucket forward or dump.

Press the heel of the left pedal to raise the boom. Press the toe of the left pedal to lower the boom. Pressing the heel of the left pedal down as far as it will go will place the boom in "float" position for following the contour of the ground.

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ENGINE
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Checking lift cylinder seals:

1. Lower the boom all the way down.
2. Disconnect the tube from the hose line which leads to the cylinder base port (Figure 48). Plug the tube with a 1/2" NF SAE male plug.
3. Place a shallow pan under the open hose port to catch any fluid.
4. Start the engine and run at idle. Press the toe of the left pedal and watch for oil leaking at the open hose port. Advance the throttle to full RPM while watching for oil leaking from the open port.
5. If no oil leaks from the open hose port the piston seals are good.
6. If there is oil leaking from the open hose port the seals are leaking. The cylinder(s) will require overhauling by your Bobcat dealer.
7. If oil leaks from the rod end of the cylinder during this check the head seal is leaking and will require replacement.

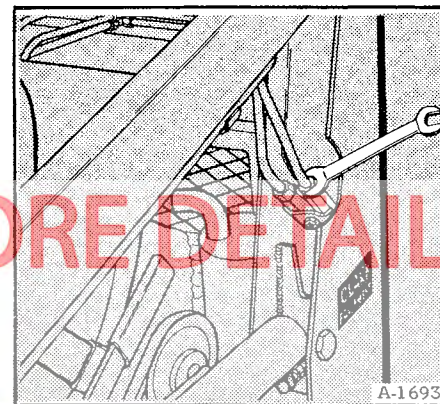


Fig. 48 Checking Lift Cylinder Seals

Checking tilt cylinder seals:

1. Lower the boom all the way down. Remove the bucket or attachment from Bob-Tach. Roll the Bob-Tach all the way back.
2. Remove the hose from the cylinder port. Plug the hose with a 1/2" NF SAE male plug (Figure 49).
3. Start the engine and run at idle. Press the heel of the right pedal and watch for oil leaking at the open port. Advance the throttle to full RPM while watching for oil leaking at the open port.
4. If no oil leaks from the open port the piston seals are good.
5. If there is oil leaking from the open port, the piston seals are leaking. The cylinder(s) will require overhauling by your Bobcat dealer.
6. If oil leaks from the rod end of the cylinder during this check the head seal is leaking and will require replacement.

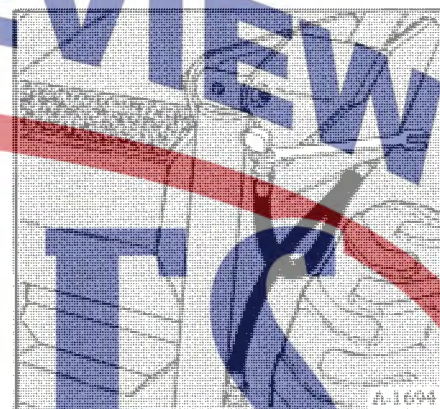


Fig. 49 Checking Tilt Cylinder Seals

LIFT CYLINDER LINE RESTRICTOR

A restrictor poppet is located in the rear part of the lift control valve section (Fig. 50). The function of the restrictor is to control lowering speed of the boom without restricting the boom raising circuit.

If boom raises or lowers too slowly and hydraulic pump, lift cylinder or control valve (linkage) are not at fault, the problem may be due to a faulty restrictor poppet.

Remove the spool and check for foreign material. Replace the poppet if it is defective.

Do not operate the loader without the restrictor installed. This could cause structural failure due to cylinder cavitation and create a safety hazard.

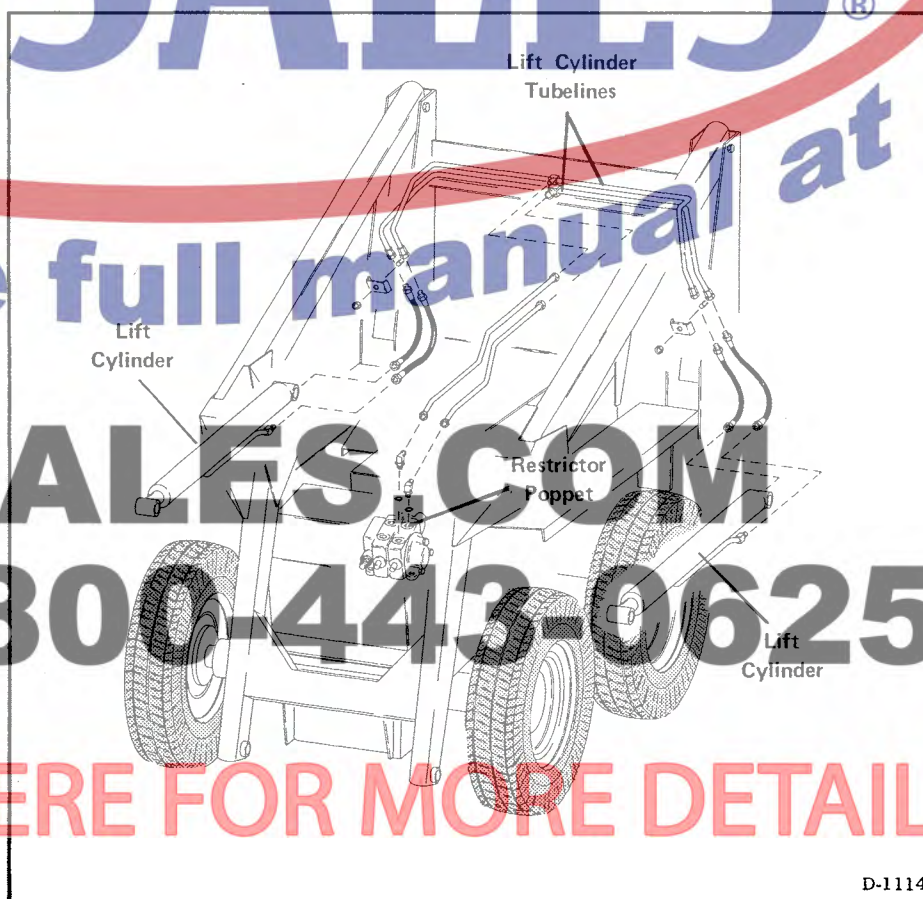


Fig. 50 Lift Cylinder Line Restrictor

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DRIVE
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GENERAL
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TABLE OF MACHINE TORQUES

Torque to
(Ft. Lbs.)

Wheel Hub Bolts	.60
Wheel Lug Bolts	.45-50
Wheel Sprocket Retaining Cap Bolts	.45
Outside Clutch Chain Idler Sprocket	.60
5/8" Clutch Pin Lock Nut	.60
Lower Jackshaft Assembly Shaft Nut	.60
Inside Chain Idler Sprocket Bolts	.40
Steering Lever Bushing Nuts	130
Upper Jackshaft 1-1/8" Nut (Early Model Machines)	120
Upper Jackshaft Cap Screw (Late Model Machine)	.60
Upper Jackshaft Sheave (Pulley) Bolt	.60
Final Drive Chain Idler Sprocket Bolts	(5/8" bolt) 120 (1/2" bolt) 80
Pivot & Cylinder Rod Bolts	160
Crankshaft Sheave Bolt (On Engine)	.60
Hydraulic Pump Sheave Bolt	.35
Transmission Case Cover Bolts	12-15
Control Valve Tie Rod Nuts	(5/16") 14 (3/8") 33
Pump Assembly Screws	.25

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