OPERATOR'S MANUAL

U80B

Tractor Loader



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NEW HOLLAND CONSTRUCTION

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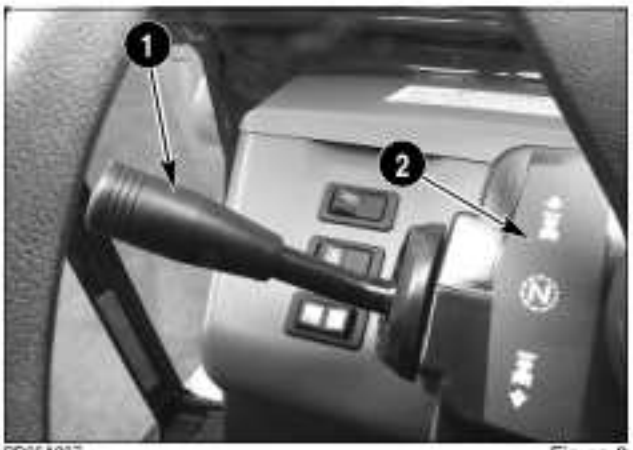
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Machine Direction



BD06A097 Figure 9

1. DIRECTION CONTROL LEVER
2. DIRECTION CONTROL LEVER INSTRUCTIONAL DECAL

For forward travel, lift up the direction control lever and push completely forward. To travel in reverse, lift up the direction control and pull completely rearward. The center position is NEUTRAL. The transmission direction control lever must be in the NEUTRAL position for the machine to start.

NOTE: *For smooth operation before you change directions, reduce the engine speed.*

Working on a Hill

Before you work the machine on a hill, always put the transmission in a lower gear and test your brakes. DO NOT let the machine move down the hill with the transmission in NEUTRAL. DO NOT let the engine speed increase greater than 2500 rpm. Use caution if you must use the transmission disconnect when you are digging with the loader on a hill.

WARNING: *Hillside operations can be dangerous. Rain, snow, ice, loose gravel, soft ground, etc., change the ground conditions. You must make a judgment if your machine can be safely operated on any hillside or ramp. Failure to comply could result in injury or death.*

SB013 Figure 10

WARNING: *Excessive speed can cause loss of machine control. Do not coast down a hill with a transmission in NEUTRAL. DO NOT let the engine speed increase more than the normal operating speed. Before operating or driving on a hill, always shift to a lower gear. You or others around you can be injured. Failure to comply could result in injury or death.*

SE056 Figure 11

DIFFERENTIAL LOCK

If the Machine is Stuck

1. Make sure the rear wheels are not turning.

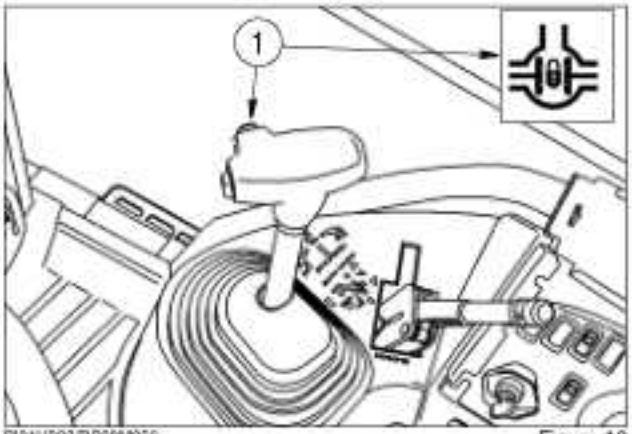


Figure 12

2. Press and hold the differential lock momentary switch located on the loader control lever or push the differential lock rocker switch located on the instrument console.
3. Release the momentary switch once traction has been regained.

NOTE: *The differential lock will release automatically when the load on the axle is removed.*

Before Operating through a Soft or Muddy Area

The operator may engage the differential lock when the machine is moving straight.

1. Before moving the machine through a soft or muddy area, make sure that the machine is moving in a straight direction and that one of the rear wheels is not rotating faster than the other.
2. Push down and hold the differential lock button on the loader control lever or activate the full time differential lock switch located on the console.
3. After moving through the area, release the differential lock button or de-activate the switch.

IMPORTANT: *You can cause damage to the rear axle if you try to engage the differential lock when the machine is turning or if one rear wheel is rotating faster than the other rear wheel.*

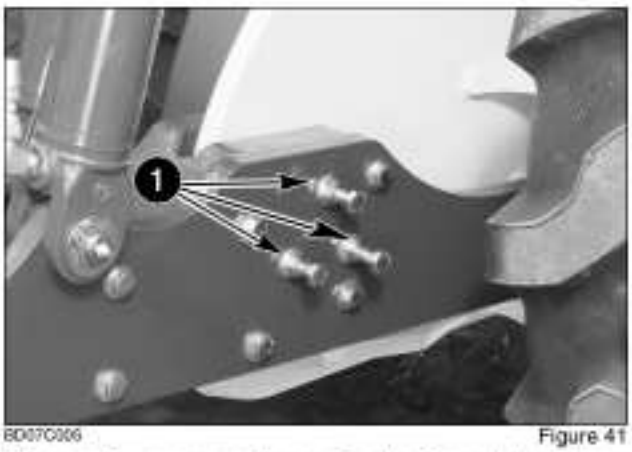
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ANTI-SWAY CALIPER



BD07C027 Figure 40

Connect compatible equipment to the three point hitch using pins and lock pins as required.



BD07C006 Figure 41

The anti-sway caliper is designed to allow attachments to be used with a minimum of sway.

When installing a compatible attachment, tighten the three caliper bolts in accordance with the type of attachment and work conditions.

Adjust the three bolts by tightening until an increased resistance is felt, then back off one full turn and tighten the lock nut.

REAR COUNTERWEIGHT



BD07C006 Figure 42

A rear 525 lb (238 kg) counterweight is standard with the 3-point hitch. An optional 483 lb (219 kg) plug-in counterweight is available for additional weight. See your Dealer for more information.

OPTIONAL REAR COUNTERWEIGHT

A rear 3000 lb (1361 kg) counterweight is available for use when the rear attachment is removed. See your Dealer for more information.

WARNING: *The braking ability of the machine is greatly reduced when the rear mounted equipment or rear counterweight is removed. After you remove the rear mounted equipment and before you operate the machine, always install the correct rear equipment or counterweight for this machine. Failure to comply could result in injury or death.*

Figure 43

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EVERY 1000 HOURS

HYDRAULIC RESERVOIR FLUID AND HYDRAULIC FILTER CHANGE

Change the hydraulic fluid and filter every 1000 hours of operation.

Specification . . . . . MAT3505, NH MasterTran ®

The system will drain best if the hydraulic system is just under operating temperature.

1. Lower the loader bucket to the ground.
2. Lower the rear attachment, if equipped, to the ground.
3. Stop the engine and put a Do Not Operate tag on the key switch.
4. Place a suitable container under the drain plug.



BD05H071 Figure 86

5. Use the spanner wrench, provided with the machine, and remove the fill cap.



BD05H034 Figure 87

1. HYDRAULIC FILTER
2. HYDRAULIC RESERVOIR TANK DRAIN PLUG

6. Remove the drain plug from the hydraulic reservoir tank and drain into the container.
7. Remove the hydraulic filter and clean the area around the filter head.
8. Lubricate the gasket on the new filter with clean oil.
9. Install the new filter and turn clockwise until the gasket makes contact with the filter head assembly. Continue to tighten for 1/3 turn.
10. Install the reservoir drain plug.
11. Put new fluid into the reservoir.
12. Start the engine and operate the loader controls for three to four minutes. Stop the engine and check for leaks.
13. Check the fluid level in the reservoir.

TO CHECK THE CONDITION OF THE HYDRAULIC FILTER

1. Start the engine and raise the temperature of the hydraulic fluid to operating temperature. The side of the hydraulic reservoir should feel very warm.
2. After the fluid is to operating temperature, increase the engine speed to full throttle.
3. If the warning lamp illuminates the filter should be replaced.

PUMP CHARGE PROCEDURE

If the hydraulic fluid supply to the pump has been interrupted due to hydraulic fluid change, pump replacement, or a broken line, you **MUST** fill the hydraulic pump with oil.

1. Make sure the oil level in the hydraulic reservoir is correct.
2. Remove the cap from the hydraulic reservoir.
3. Use a regulated air supply to pressurize the hydraulic reservoir. 5 to 10 psi (34.5 to 69.0 kPa) is all that is required to move the oil.

IMPORTANT: *Pressure above 10 psi (69.0 kPa) can damage the hydraulic reservoir.*

4. Have another person start and run the engine at low idle while the air pressure is being applied to the hydraulic reservoir.

INSPECT THE ENTIRE MACHINE FOR LOOSE OR DAMAGED HARDWARE

Check the entire machine for hardware that has become loose or damaged. Replace damaged hardware and use proper torque values.

Under extreme conditions this service interval should be decreased.

ENGINE VALVE CLEARANCE CHECK

Have your Dealer Technician check the valves for proper adjustment.

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