NEW HOLLAND

MOTOR GRADER

200 TIER III

OPERATOR'S MANUAL

75314534 NA

Issued 11-2006

NEW HOLLAND

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INSTRUMENTS/CONTROLS

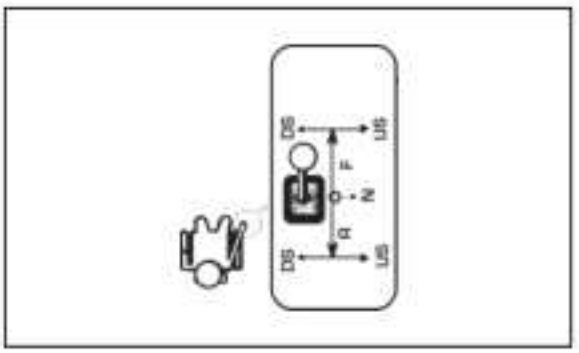
2. THROTTLE CONTROL LEVER



The engine will remain at low idle with the throttle control lever all the way forward and engine speed will increase as the lever is pulled back.

3. TRANSMISSION CONTROL LEVER





SHIFT PATTERN:

R • Reverse

F • Forward

N • Neutral

DS • Down shift

US • Up shift

The transmission control lever is used to select the desired forward or rearward speeds.

These machines are equipped with a 8 speed forward and 4 speed reverse transmission.

The gear speed change is done using a shift lever.

To obtain forward speeds place this lever to the front. To obtain reverse speeds place this lever to the rear.

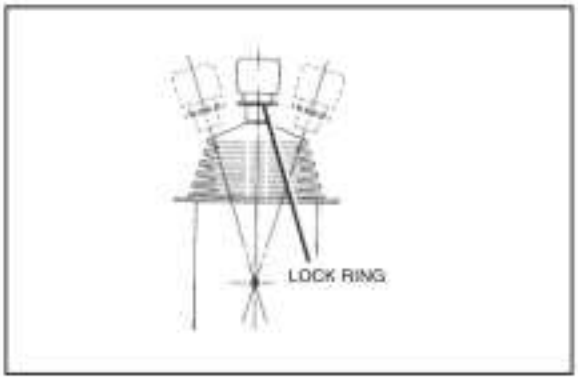
By using this lever the proper speed (1st, 2nd, etc.) can be selected. Observe the gear display readout for confirmation of the gear selected. If the display shows an "error code" it means that some fault has occurred in the transmission system. Therefore it is necessary to contact a **NEW HOLLAND** dealer.

When the machine is stopped, any gear lower than F3 or R2 may be selected to start again.

A single speed change is done with a single push and release of shift lever.

If the shift control lever is pushed and held to the right or left the gear speeds will change automatically.

NEUTRAL LOCK



To move the shift lever out of neutral position, release the "Neutral Lock" by raising the release ring located under the shift handle knob.

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LUBRICATION/FILTERS/FLUIDS

LUBRICATION & MAINTENANCE CHART

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
As needed	Air cleaner (Note 1)	1	*				
	Hydraulic filter (Note 2)	1	*				
	Cab Air Filter (if equipped)	1	*				
	Batteries (See Electrical System)	2					*
10 hours or daily	Engine oil level (including filters)	1	10				
	Radiator (coolant level) (Note 3)	1	10				
	Transmission oil level (warm, engine running)	1	10				
	Differential Lock Oil Filter (Dana)	1	10				
50 hours or weekly	Fuel Reservoir Filter (wash screen)	1					50
	Fuel Water Separator (drain water)	2					50
	Hydraulic tank (complete system)	1	50				
100 hours or each 15 days	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
	Articulation of Tilt Cylinders	2			100		
	Moldboard Tilt Pivots	2			100		
	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
250 hours or monthly	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (Dana)	1		250			
	Front Axle Pivot	2			250		
	Front Wheel Lean Bar Pivots	2			250		
	Front Wheel Lean Cylinder Pivots	2			250		
	Front Wheel Knuckle Lean Pivots	4			250		
	Knuckle King Pin Bearings	4			250		
	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
	Moldboard Side Shift Pivots	2			250		

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MAINTENANCE/ADJUSTMENT

Torque Specifications for ROPS Cab and ROPS



CANOPY
1. ROPS CAB AND ROPS CANOPY MOUNTING BOLTS (BOTH SIDES), TIGHTEN THE 16 BOLTS TO 772 TO 854 N.m (570 to 630 lb.ft)

NOTE: *Torque specifications are for clean, dry threads.*

Damage to the ROPS

If the machine has rolled over or the ROPS has been in some other type of accident (such as hitting an overhead object during transport), you must replace the damaged ROPS components to get as much protection as you had originally.

After an accident, check the following for damage.

A. ROPS canopy or cab.

B. Operators seat.

C. Seat belt mounting bolts and seat belt.

Before you operate the machine, replace all ROPS components that are damaged.

See the Parts Catalog or your dealer for components that are replaceable.

IMPORTANT: *DO NOT TRY TO WELD OR STRAIGHTEN THE ROPS.*

WARNING: *Improper ROPS inspection or maintenance can cause injury or death. Do the recommended ROPS inspection shown in this manual. If you must replace the ROPS, ROPS parts, or ROPS mounting hardware, use only the replacement parts shown in the* ***NEW HOLLAND*** *parts catalog for this machine.*

WARNING: *Do not modify ROPS in any manner. Unauthorized modifications such as welding, drilling, cutting or adding attachments can weaken the structure and reduce your protection. Replace ROPS if subjected to roll-over or damage. Do not attempt to repair.*

WARNING: *If you operate this machine without a ROPS and the machine rolls over, you can be injured or killed. Remove the ROPS only for service or replacement. Do not operate this machine with the ROPS removed.*

WARNING: *Adding additional weight (attachments, etc.) to the machine can cause injury or death. Do not exceed the gross weight printed on the ROPS label.*

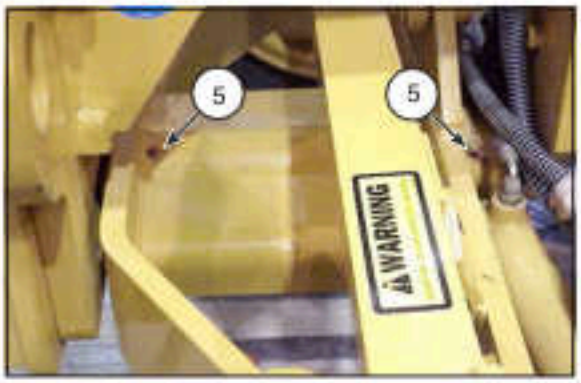
WARNING: *Always fasten the seat belt securely before starting the Engine.*

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LUBRICATION/FILTERS/FLUIDS

Front Axle Spindle Pivot

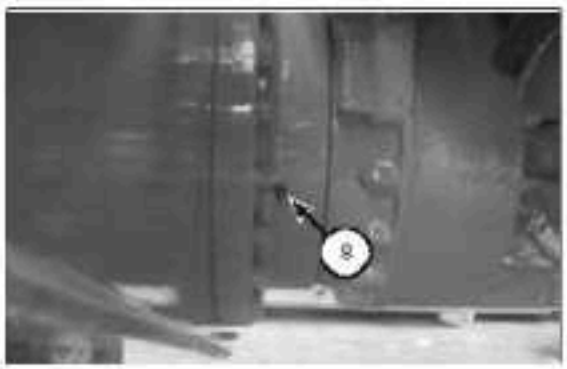
There are two (2) lube points. Lubricate with 6 to 12 shots each.



5. FRONT AXLE SPINDLE PIVOT

Tandem Swing Bearing

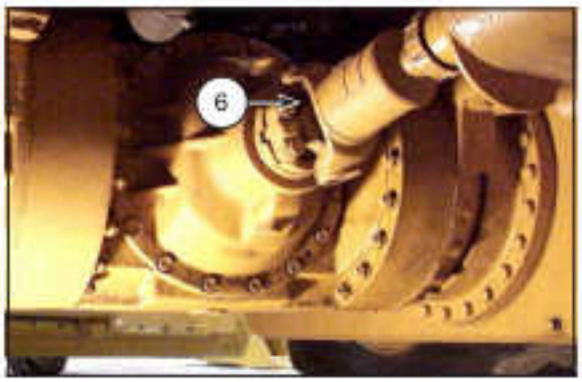
There are four (4) lube points. Lubricate with 14 to 20 shots each.

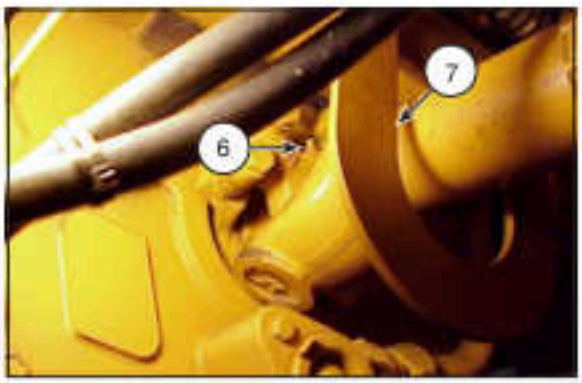


8. TANDEM SWING BEARING

Universal Joint and Drive Shaft

There are tree (3) lube points. Lubricate with 4 to 6 shots each.

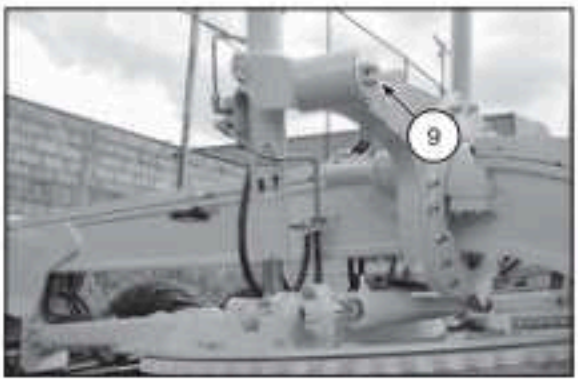




6. UNIVERSAL JOINT
7. DRIVE SHAFT

Lift Cylinder Bearings

There are two (2) lube points for the bearings. Lubricate the bearings with 4 to 6 shots each.

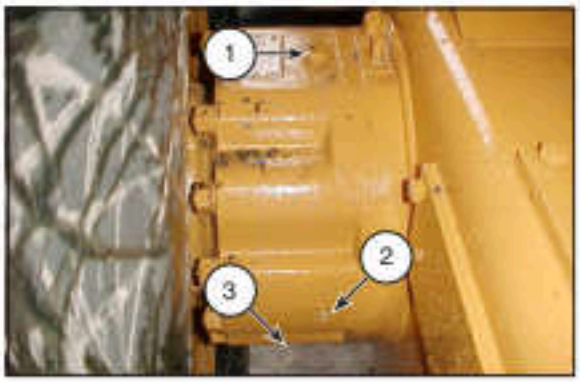


9. LIFT CYLINDER BEARINGS

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LUBRICATION/FILTERS/FLUIDS

Rear Axle End Compartment Oil Level



1. FILLER PLUG
2. LEVEL PLUG
3. DRAIN PLUG

Make certain oil in rear axle end compartment is near operating temperature. Remove drain plugs (3) located on bottom of each end compartment and allow oil to drain.

Clean drain plugs, reinstall and tighten plugs securely. Remove each oil level (2) and filler plug (1) and fill each compartment with the specified lubricant to level even with filler plug openings. Install and tighten oil level and filler plugs securely.



4. COVER PLUG

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