NEW HOLLAND

CRAWLERS

D75
D85
D95

REPAIR MANUAL

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Chapter 2

SAFETY, DECALS, AND HAND SIGNALS

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DIRECTION CONTROL LEVER,TRANSMISSION CONTROL, HAND THROTTLE



BD029029 Figure 35

1. DIRECTION CONTROL LEVER

This lever controls the forward speed, neutral or reverse speed, as well as turning. The single lever joystick permits infinitely variable control of speed by fore/aft movement of the lever. Fore/Aft speed is maintained by a friction mechanism. The friction mechanism may be adjusted for operator comfort.

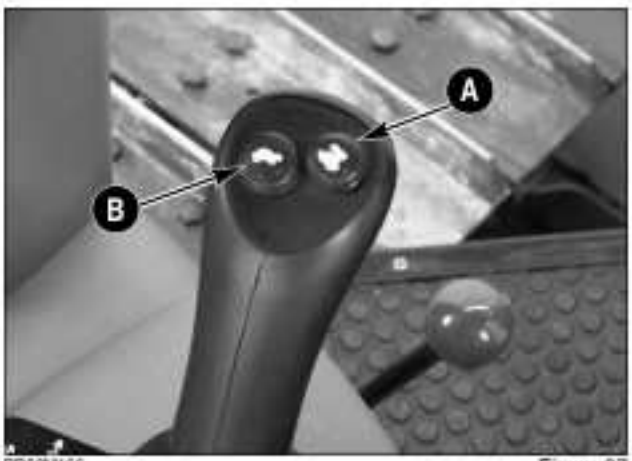
To turn, move the lever in the direction you want to turn. To counter-rotate hold the lever over to the maximum right or left position - a slight increase in lever effort can be felt as the counter-rotation zone is entered.

A friction mechanism holds the lever in position until the operator changes direction. At start up the crawler must be in Neutral for several seconds before it will move.

The Direction Control Lever position will be displayed on the instrument gauge.



BD02J051 Figure 36



BD02M166 Figure 37

2. TRANSMISSION SPEED UP/DOWN BUTTONS

A. UP BUTTON (transmission speed increase)

B. DOWN BUTTON (transmission speed decrease)

These two buttons change the speed of the crawler from low to high. The maximum speed is selectable in a range of 10 increments. To increase track speed push the upper button. To decrease track speed push the lower button. The operator may choose to hold the appropriate button in the DOWN or UP position to allow the speed to increment. The speed range will be indicated by the needle on the Transmission Speed Gauge.

NOTE: *Top speed is limited to 9 from the factory.*

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LUBRICATION AND MAINTENANCE CHART

SERVICE INTERVAL	PAGE NUMBER	SERVICE POINTS	NUMBER OF POINTS	FREQUENCY IN HOURS					
				CHECK	CLEAN	CHANGE	DRAIN	LUBRICATE	REPLACE
As Required (AR)	6-11	Fan and Air Conditioning Drive Belt		AR					
	5-13	Air Filter (See Notes 1)		AR					
	5-23	Transmission Filter (See Notes 2)							AR
	5-21	Hydraulic Filter (See Note 2)							AR
	6-4	Steel Track Shoe Bolt Torque (See Note 5)		AR					
	6-3	Clean Tracks		AR					
	6-3	Track Chain Tension (See Note 5)		AR					
	5-19	In Line Fuel Filter		AR					
	5-16	Cab Filters (If Equipped		AR					
Every 10 Hours. See Note 3	5-11	Engine Oil Level		10					
	5-21	Transmission and Hydraulic Fluid Level		10					
	5-7	Equipment Pivot Points	14					10	
	5-16	Coolant Reservoir Fluid Level		10					
	5-8	Ripper Grease Points (If Equipped)						10	
Every 50 Hours	5-14	Air Filter Dust Valve		50					
	5-16	Radiator Fluid Level		50					
	5-18	First Stage Fuel Filter for Water		50					
Every 250 Hours	5-11	Engine Oil				250			
	5-11	Engine Oil Filter							250
	5-25	Final Drive Oil Level		250					
	6-	Drive Belt		250					
Every 500 Hours	7-4	Battery Fluid Level		500					
	5-18	Fuel Filters							500
	5-19	In Line Fuel Filter							500
Every 1000 Hours	5-22	Hydraulic Reservoir Breather Relief Valve			1000				
	5-20	Fuel Cap Breather			1000				
	6-4	Engine Valve Clearance		1000					
	5-18	Fuel Tank for Water		1000					
	5-8	Drive Shaft Slip Spline	1					1000	
	5-25	Final Drive Oil				1000			
Every 2000 Hours	5-22	Transmission Suction Screen			2000				
	5-22	Hydraulic Suction Screen			2000				
	5-21	Hydraulic Oil Filter							2000
	5-24	Transmission and Hydraulic Fluid							2000
	5-23	Transmission Filter (See Note 6)							2000
	5-16	Engine Coolant (See Note 7)							2000
	5-13	Air Filter Elements (See Note 7)							2000

NOTE 1: *Service the air filter elements if the air filter warning lamp illuminates.*
NOTE 2: *Replace the transmission filter or hydraulic filter if the filter restriction warning lamp illuminates or at 2000 hours.*
NOTE 3: *Every 10 hours of operation or once each day, whichever comes first.*
NOTE 4: *If the machine is new or if the track shoes have been removed, check the torque of the steel track shoe bolts after the first 20 hours of operation and then every 100 hours of operation until the track shoe bolts remain tight.*
NOTE 5: *For increased track life, always keep the track tension correct. Adjust the tracks for 38 to 51 mm (1.5 to 2 Inches) of track sag.*
NOTE 6: *If the machine is new or the transmission has been overhauled, replace the filter at 250 hours for the first and second filter change.*
NOTE 7: *Every 2000 hours of operation or each year, whichever occurs first.*
NOTE 8: *See the Service Manual.*

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REARWARD POSITION

BLADE PITCHED REARWARD

When dozer blade is pitched in the rearward position, the blade will be able to push a larger load. Blade will stay on top in soft ground.

REARWARD POSITION ADVANTAGES

1. Blade is able to push a larger load.
2. Blade will stay on top in soft ground.
3. Blade will not dig into the ground.
4. Blade best used for fine grading.

FORWARD POSITION

BLADE PITCHED FORWARD

When dozer blade is pitched in the forward position, the load slides off of blade as crawler travels in reverse. Blade will dig into hard ground.

FORWARD POSITION ADVANTAGES

1. Load slides off of blade as the crawler travels in reverse.
2. Blade will dig into hard ground.
3. Less load spillage over top of blade.

Blade Angle, Degrees	Turnbuckle Pin-to-Pin Length, inches (mm)
53	13.08 in (332 mm)
54	13.53 in (344 mm)
55	13.98 in (355 mm)
56	14.44 in (367 mm)
57	14.89 in (378 mm)
58	15.34 in (390 mm)
59	15.80 in (401 mm)

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