NEW HOLLAND

WHEEL LOADER

W170B
W190B
TIER 3

OPERATOR'S MANUAL

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NEW HOLLAND CONSTRUCTION

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Chapter 2

SAFETY, DECALS, AND HAND SIGNALS

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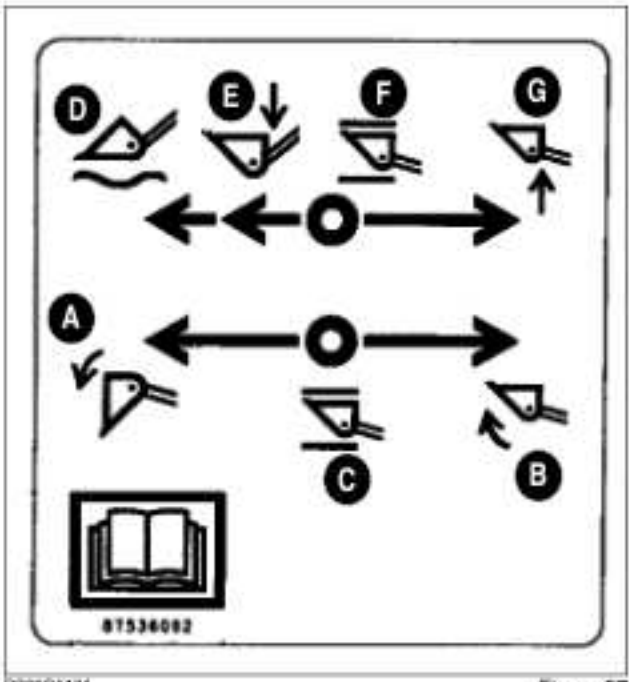
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TWO SPOOL - TWO CONTROL LEVERS



BD06F004A Figure 26

1. BUCKET CONTROL
   - A. DUMP
   - B. ROLLBACK
   - C. HOLD: The loader arms and bucket will not move when the control lever is in the HOLD position. When released, the control lever will automatically return to the HOLD position. You must manually move the control lever from the FLOAT position to the HOLD position.
2. LIFT ARM CONTROL
   - D. FLOAT (Detent): This is a detent position. When in the FLOAT (Detent) position, the loader bucket can follow the level of the ground without movement of the control lever.
   - E. LOWER
   - F. HOLD: The loader arms and bucket will not move when the control lever is in the HOLD position. When released, the control lever will automatically return to the HOLD position. You must manually move the control lever from the FLOAT position to the HOLD position.
   - G. RAISE



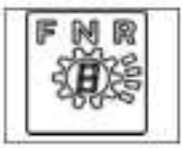
BS06G517A Figure 27



BD06F004 Figure 28



3. TRANSMISSION DOWNSHIFT BUTTON: Drops the transmission down one gear at a time.



4. FNR Switch: This switch will allow the operator to put the transmission in Forward, Neutral or Reverse. To activate this auxiliary F-N-R switch the proper sequence must be followed. Push the switch Forward to place the transmission in Forward, place the switch in the middle position to place the transmission in Neutral, and pull the switch rearward to put the transmission in Reverse.

- A. Forward (Transmission)
- B. Neutral (Transmission)
- C. Reverse (Transmission)

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500 HOUR MAINTENANCE

CRANKCASE FILTERS

Change the crankcase filter after 500 hours of operation. Change the filter more frequently when the engine operating conditions are severe.



BD06H159 Figure 60

CRANKCASE BREATHER FILTER HOUSING

1. Remove the screws on the filter housing and replace the two filters.
2. Replace the crankcase filters every 500 hours.

AXLE OIL LEVEL

Service Specifications

W170B

Front axle . . . . . 32 qts (30.3 L)

Rear axle . . . . . 29 qts (27.4 L)

W190B

Front axle . . . . . .39.5 qts (37.4 L)

Rear axle . . . . . 25 qts (23.7 L)

Check the axle oil level after 500 hours of operation or more frequently if conditions so warrant.

1. Keep all non-authorized personnel clear of the area. Park the machine on a firm, level surface. Lower bucket/attachment to the ground and apply the parking brake.
2. Lock the pilot control out, and stop the engine.
3. Place the transport/service link into the locked service position.



BD06H045 Figure 61

4. Clean the area thoroughly and then remove the axle dipstick. (One each wheel).
5. Place the dipstick back into the fill hole, but do not thread it down.
6. Remove the dipstick and measure the oil level. The oil level should be between the upper and lower marks on the dipstick. Add oil, if necessary.

NOTE: *Be careful to not damage the O-ring. Replace it if necessary.*

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W190B LR Lift Arm ACS Coupler 2.6 M^3 (3.5 Yd^3) Bucket			
Key		2.6 M^3 (3.5 Yd^3) Medium Density Bucket with Cutting Edge	2.6 M^3 (3.5 Yd^3) Medium Density Bucket with Teeth and Segmented Cutting Edge
H	Dump height, fully raised, 45° dump	3418 mm (134.6 in)	3319 mm (130.7 in)
I	Bucket reach, 45° dump angle - full height	1230 mm (48.4 in)	1334 mm (52.5 in)
J	Operating height - fully raised with spillguard	5895 mm (232.1 in)	5895 mm (232.1 in)
K	Hinge pin height, fully raised	4563 mm (179.7 in)	4563 mm (179.7 in)
L	Overall length, bucket on ground	8356 mm (329.0 in)	8505 mm (334.8 in)
N	Dig depth	140 mm (5.5 in)	149 mm (5.9 in)
	Bucket Width	3030 mm (119.3 in)	3048 mm (120.0 in)
	Capacity, heaped SAE	2.88 m^3 (3.77 yd^3)	2.88 m^3 (3.77 yd^3)
	Capacity, struck SAE	2.42 m^3 (3.17yd^3)	2.42 m^3 (3.17yd^3)
	Tipping load, straight	10728 kg (23651 lb)	10627 kg (23429 lb)
	Tipping load @ 40° full turn	9131 kg (20131 lb)	9030 kg (19908 lb)
	Turning Radius - outside with 23.5 R25, XHA TL Tires	6032 mm (237.5 in)	6032 mm (237.5 in)
	Turning angle From center Total angle	 40 degrees 80 degrees	 40 degrees 80 degrees
	Hydraulic lifting capacity @ full height	8838 kg (17720 lb)	7957 kg (17543 lb)
	Hydraulic lifting capacity @ ground level	11494 kg (25340 lb)	11407 kg (25148 lb)
	Max. rollback @ full height	60°	60°
	Max. rollback @ max. reach	53°	53°
	Max. rollback @ carry	43°	43°
	Max. rollback @ ground	37°	37°
	Operating load - ISO	4566 kg (10065 lb)	4515 kg (9954 lb)
	Unit operating mass	18269 kg (40275 lb)	18348 kg (40451 lb)

NOTE: *Data based on loader equipped with 23.5R25 XHATL tires, ROPS cab with heater and A/C, front and rear fenders, auxiliary steering, heavy duty batteries, full fuel, heavy duty counterweight, (79 kg) 175 lb operator.*

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