CASE

PROFESSIONAL PARTNER

OPERATOR'S MANUAL

LOADER BACKHOE

580M
580M TURBO
580 SUPER M
580 SUPER M+
590 SUPER M
SERIES 2

87592031 NA

Issued 12-2006

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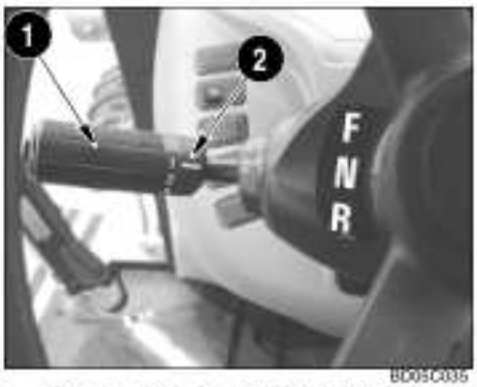
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POWERSHIFT TRANSMISSION CONTROLS (IF EQUIPPED)



BD05C035

1. DIRECTION CONTROL LEVER:

This lever controls the travel direction of the machine. The center position **N** is NEUTRAL. The top position **F** is FORWARD. The bottom position **R** is REVERSE. To travel forward in 1st, 2nd, 3rd, or 4th gear, lift the lever and push it all the way forward toward the **F** position. The bottom position **R** is REVERSE. To travel in reverse in 1st or 2nd gear, lift the lever and pull completely rearward. Make sure the direction control lever is in **N** or NEUTRAL before you start the engine or before you operate the backhoe.

2. GEAR SELECTION CONTROL LEVER:

Rotate the lever hand grip to align the number, which corresponds to each gear, with the indicator mark on the lever.

In manual transmission mode the machine will stay in the gear selected until the operator changes the selection. The operator may select gears without stopping the machine.

- Position 1 - 1st gear, forward or reverse
- Position 2 - 2nd gear, forward or reverse
- Position 3 - 3rd gear, forward
- Position 4 - 4th gear, forward

In automatic transmission mode the machine will reach the maximum gear selected by the Gear Selection Lever.

- Position 1 - no automatic shifting, transmission will remain in 1st gear
- Position 2 - no automatic shifting, transmission will remain in 2nd gear
- Position 3 - automatic shifting between 2nd and 3rd gear
- Position 4 - automatic shifting between 2nd, 3rd and 4th gear

When operating in automatic mode, some incline and load conditions may cause the transmission to shift from 4th to 3rd and back to 4th, or from 3rd to 2nd and back to 3rd. If this happens select a lower gear. Downshift as needed until the transmission discontinues shifting between gears.

The Powershift Transmission allows the operator to select automatic or manual mode by placing the Direction Control Lever in Neutral and engaging the kickdown button, regardless of speed.

IMPORTANT: *On start up the transmission mode will be automatic.*

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PAGE NUMBER	SERVICE POINTS	INITIAL	SERVICE INTERVAL IN HOURS					
			CLEAN	CHECK	LUBRICATE	DRAIN	CHANGE	REPLACE
203	Front Axle Oil Level (4WD)			250				
204	Front Axle Breather (4WD)		250					
200	Rear Axle Oil Level			250				
202	Rear Axle Breather		250					
190	Fuel Tank (Drain Water and Sediment)					250		
197	Transmission Oil Level			250				
178	4 Wheel Drive Shaft				250			
178	Rear Axle Drive Shaft				250			
216	Inspect, Lubricate Seat							
183	Engine Oil						500	
183	Engine Oil Filter						500	
215	ROPS Cab or, ROPS Canopy			500				
191	Fuel Filter							500
SM	Front Axle Bearings (2 Wheel Drive)				1000			
SM	Front Axle Seals (2 Wheel Drive)							1000
194	Hydraulic Filter							1000
196	Hydraulic Fluid						1000	
220	Battery Fluid Level			1000				
205	Cab Air Filter (If Equipped)		1000					2000
201	Rear Axle Oil						1000	
198	Transmission Fluid and Filter						1000	
204	Front Axle Oil (4 Wheel Drive)						1000	
SM	Engine Valve Clearances			1000				
186	Air Filter Elements							1000
187	Engine Coolant						2000	

SM = See Service Manual

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Lift Capacities

Extendahoe Extended		
Boom Lift	Distance from swing pivot	Backhoe lift capacity
+ 18 ft (5.48 m)		1 940 lbs (880 kg)
+ 16 ft (4.87 m)	13 ft 6 in (4.11 m)	2 200lbs (998 kg)
+ 14 ft (4.27 m)	15 ft 5 in (4.70 m)	2 300 lbs (1043 kg)
+ 12 ft (3.66 m)	16 ft 10 in (5.13 m)	2 420 lbs (1098 kg)
+ 10 ft (3.05 m)	17 ft 11 in (5.46 m)	2 370 lbs (1075 kg)
+ 8 ft (2.44 m)	18 ft 9 in (5.72 m)	2 420 lbs (1098 kg)
+ 6 ft (1.83 m)	19 ft 3 in (5.87 m)	2 420 lbs (1098 kg)
+ 4 ft (1.22 m)	19 ft 7 in (5.97 m)	2 310 lbs (1048 kg)
+ 2 ft (0.61 m)	19 ft 8 in (5.99 m)	2 290 lbs (1039 kg)
Ground Level	19 ft 6 in (5.94 m)	2 260 lbs (1025 kg)
–2 ft (0.61 m)	19 ft 2 in (5.84 m)	2 230 lbs (1012 kg)
–4 ft (1.22 m)	18 ft 6 in (5.64 m)	2 220 lbs (1007 kg)
–6 ft (1.83 m)	17 ft 8 in (5.38 m)	2 140 lbs (971 kg)
- 8 ft (2.44 m)	16 ft 6 in (5.03 m)	2 110 lbs (957 kg)
- 10 ft (3.05 m)	14 ft 10 in (4.52 m)	2 090 lbs (948 kg)
- 12 ft (3.66 m)	12 ft 9 in (3.89 m)	2 180 lbs (989 kg)
- 14 ft (4.27 m)	9 ft 9 in (2.97 m)	2 240 lbs (1016 kg)
- 15 ft (4.57 m)	6 ft 0 in (1.83 m)	2 490 lbs (1129 kg)
Dipper Lift	Distance from swing pivot	Backhoe lift capacity
+ 16 ft (4.87 m)	12 ft 10 in (3.91 m)	2 810 lbs (1275 kg)
+ 14 (4.27 m)	14 ft 0 in (4.27 m)	2 940 lbs (1334 kg)
+ 12 ft (3.66 m)	14 ft 7 in (4.45 m)	3 080 lbs (1397 kg)
+ 10 ft (3.05 m)	14 ft 9 in (4.50 m)	3 100 lbs (1406 kg)
+ 8 ft (2.44 m)	14 ft 8 in (4.47 m)	3 150 lbs (1429L kg)
+ 6 ft (1.83 m)	14 ft 0 in (4.27 m)	3 190 lbs (1447 kg)
+ 4 ft (1.22 m)	12 ft 9 in (3.89 m)	3 290 lbs (1492 kg)

NOTE: *Lift capacities apply straight to the rear of prime mover. Equipped with 24 in (610 mm) universal H.D. trenching bucket and Case coupler except as noted.*

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