NEW HOLLAND
Boomer 4055
Boomer 4060
Tractors



REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

84242310

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The following pages are the collation of the contents pages from each section and chapter of the Boomer 4055, Boomer 4060 Service manual. Complete Service part # 84242310.

The sections used through out all New Holland product Service manuals may not be used for each product. Each Service manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Service manual and which sections are in each book.

The sections listed above are the sections utilized for the Boomer 4055, Boomer 4060 Tractors.

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SECTION 00 - GENERAL INFORMATION

BOOK 1 - 84270065

Chapter 1 - General Information

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SECTION 10 - ENGINE

BOOK 1 - 84270065

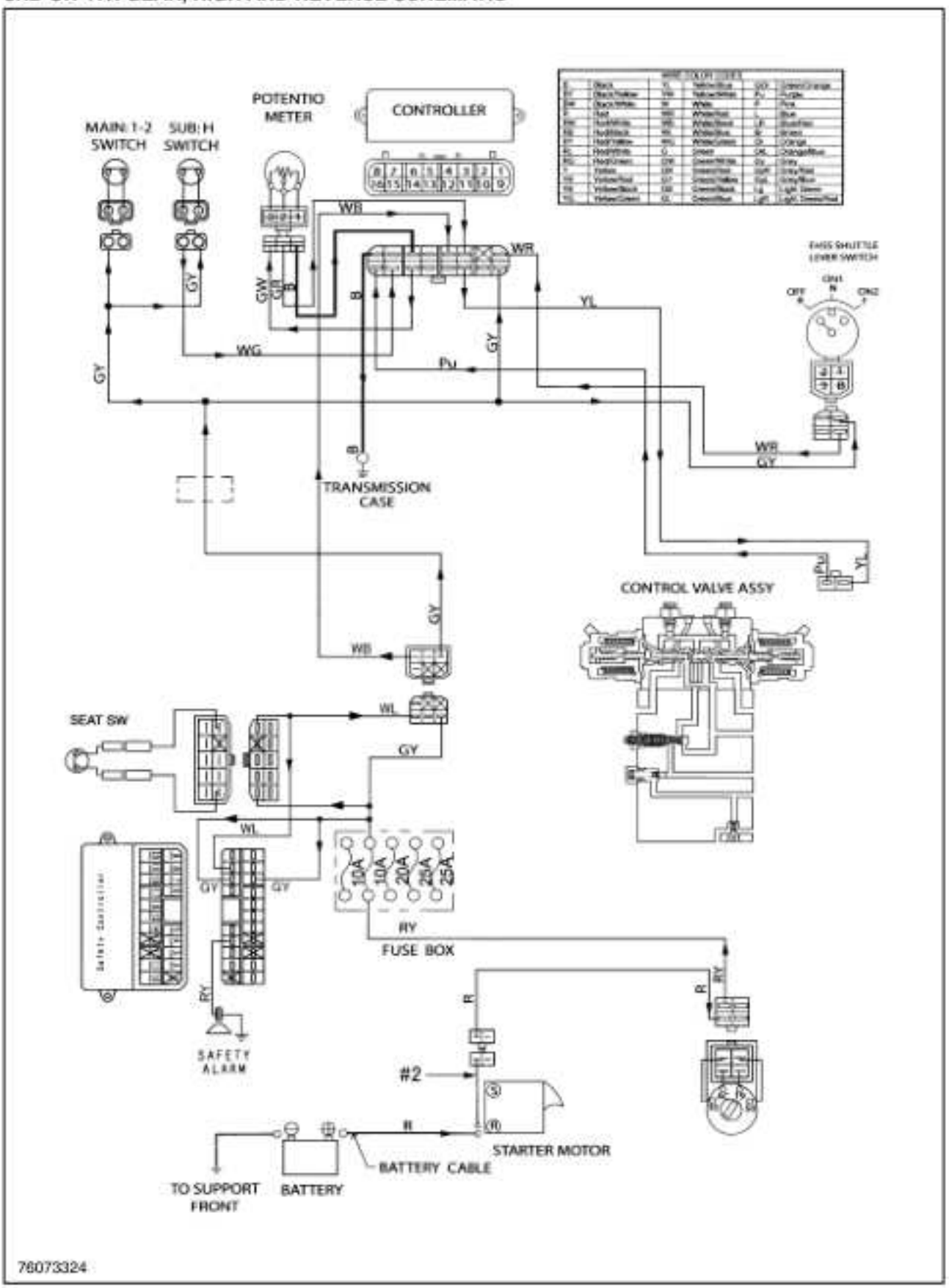
Chapter 1 - Engine Components

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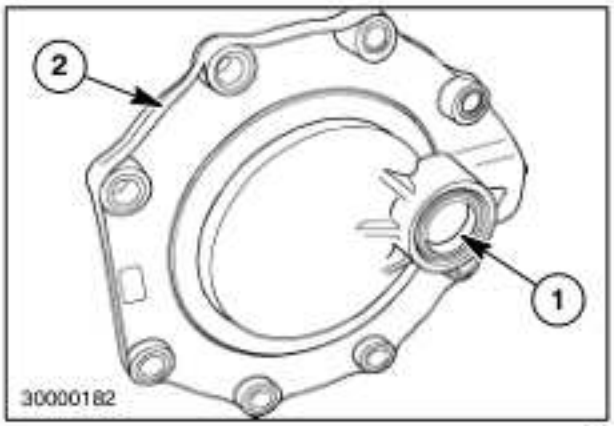
3RD OR 4TH GEAR, HIGH AND REVERSE SCHEMATIC



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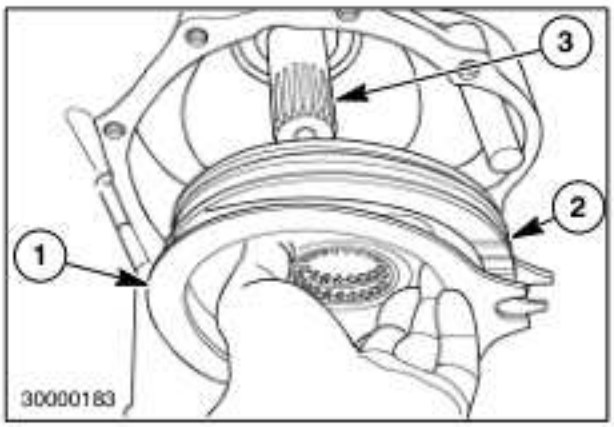
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7. Remove and discard the brake cam oil seal, 1, from the brake cover, 2.



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8. Remove the stators, 1, and the brake discs, 2, from the final pinion shaft, 3.



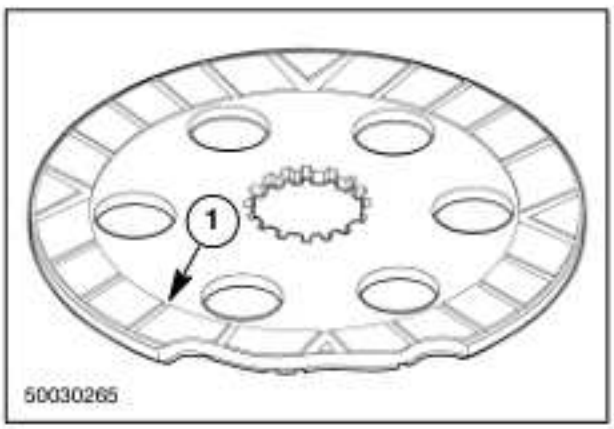
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Inspection

NOTICE: *See "SPECIFICATIONS" for wear values. If proper measuring equipment is not available, replace the brake discs as a set, when the grooves in the disc lining are no longer visible.*

1. Clean all parts with a suitable brake cleaner and allow to air dry.
2. Inspect the brake discs for excess wear or damage. Replace discs if the lining groove depth, 1, is not within the allowable limit, 0.05 mm (0.002 in) allowable, 0.3 mm (0.012 in) normal.

NOTICE: *If replacing the brake discs, soak the new discs in clean hydraulic oil before installing them.*



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3. Inspect the stators for excessive wear or damage. Replace stators that differ in measurement by 0.1 mm (0.004 in) or more.
4. Inspect the brake cam, steel balls, and the springs for excessive wear or damage. Replace as necessary.
5. Inspect the brake cover for damage or cracks. Repair or replace as necessary.
6. Inspect the brake cover gasket. If damaged, remove all of the remaining gasket material from the surfaces of the differential housing and the brake cover. Clean both surfaces with a suitable solvent and allow to air dry. Apply a a thin bead of silicone-based gasket adhesive to the differential housing and carefully place a new gasket in position.

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TROUBLESHOOTING LEFT TURN SIGNAL CIRCUIT		
PROBLEM	**POSSIBLE CAUSE**	**CORRECTION**
Inoperative turn signals.	Blown 10 or 20 amp fuse.	Inspect and replace fuse as necessary.
	Defective turn signal switch.	Test switch, replace as necessary.
	Malfunctioning flasher controller.	Test controller, replace as necessary.
	Loose rear tractor lights connector.	Check connector for proper connection.
	Improper ground circuit.	Check ground circuit connector for corrosion.

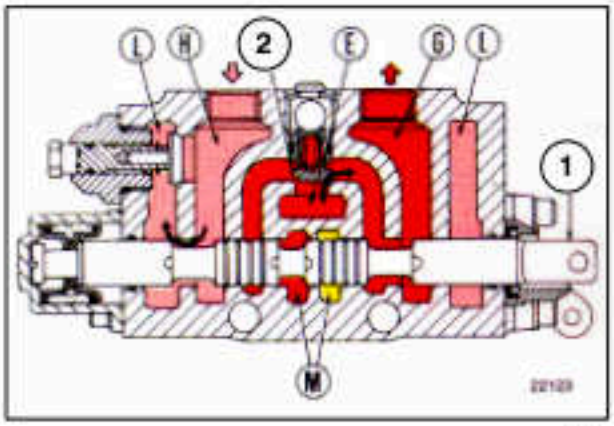
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DOUBLE-ACTING, THREE POSITION, SINGLE SPOOL REAR REMOTE VALVE (W/O KICK-OUT OR FLOAT)

Lift

Movement of the control lever rearward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (H) and exhaust through port (L). The pressure in port (E) exits through port (G) by way of the check valve, 2, to the lower chamber of the lift cylinder.

Keeping the control lever pulled back extends the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.

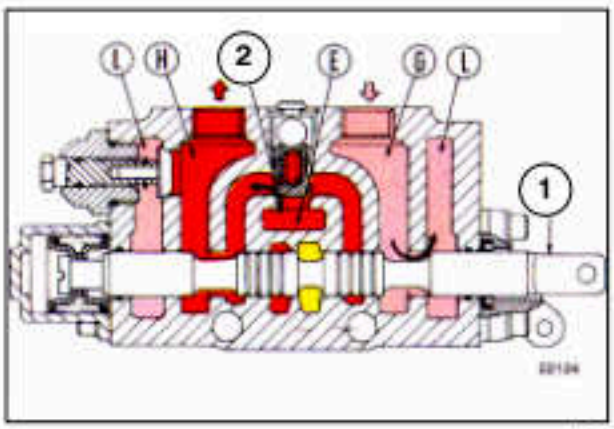


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Lower

Movement of the control lever forward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (G) and exhaust through port (L). The pressure in port (E) exits through port (H) by way of the check valve, 2, to the upper chamber of the lift cylinder.

Keeping the control lever pushed forward retracts the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.



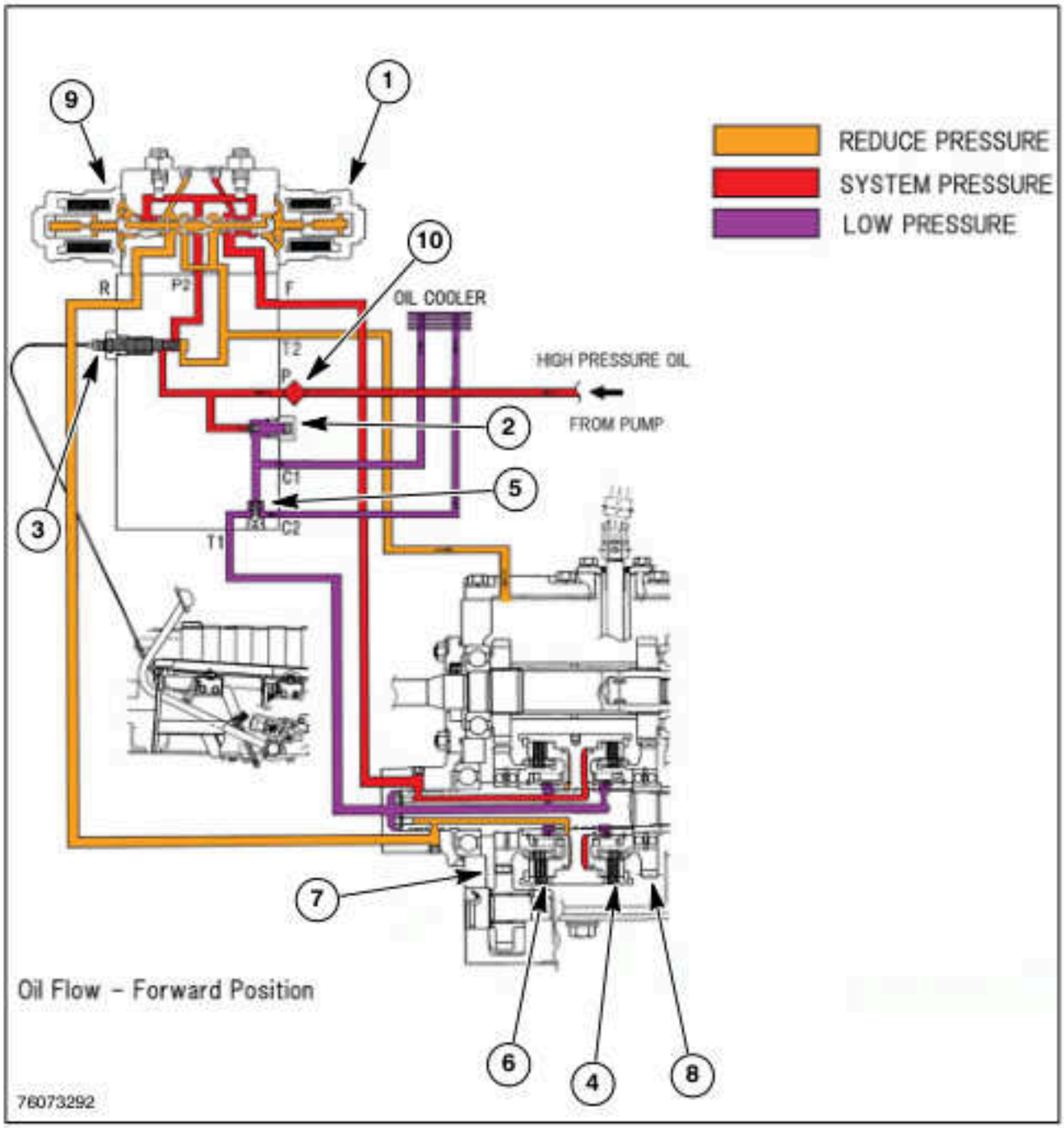
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Pressurized oil

Oil in suction, delivery or exhaust

Static oil

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Forward Position

1. Forward Solenoid
2. System Pressure Relief Valve
3. F/R Clutch Cutoff Valve
4. Forward Clutch Assembly
5. Check Valve
6. Reverse Clutch Assembly
7. Reverse Counter Gear
8. Forward Counter Gear
9. Reverse Solenoid
10. Oil Filter

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