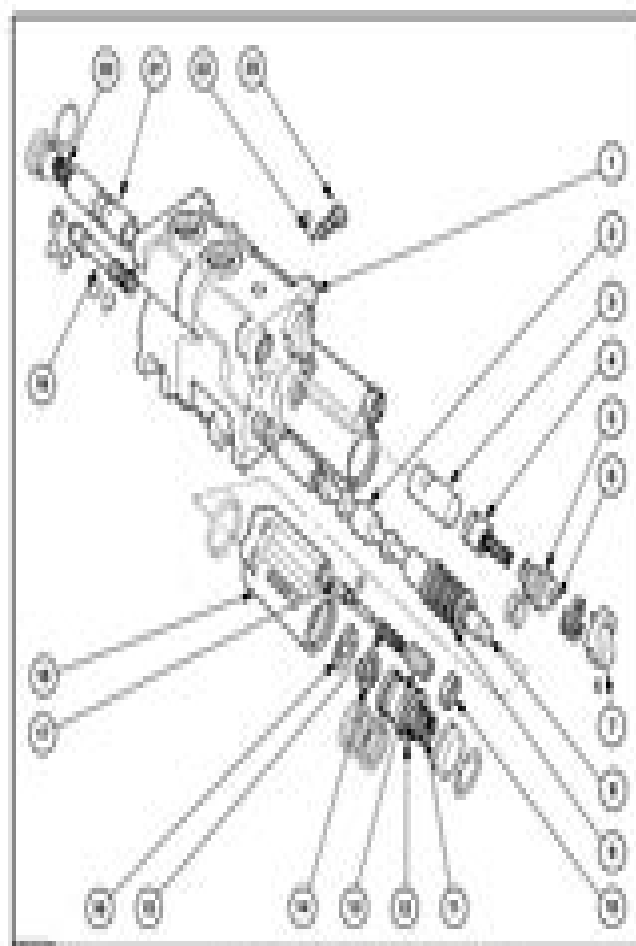


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SECTION 4 - HYDRAULIC SYSTEMS



Front Wheel Hydraulic Control Valve

811

- | | |
|--------------------------------|---|
| 1 Valve Body | 14 Control Valve Spring Square |
| 2 Spool | 15 Control Valve, A/C |
| 3 Pin Retainer* | 16 Control Regulating Valve Spring |
| 4 Load Thrust Valve | 17 Control Valve |
| 5 Pin Retainer (Control) | 18 Control Regulating Valve |
| 6 Pin Retainer (Control Shaft) | 19 Control Valve |
| 7 Pin Retainer (Control Shaft) | 20 Control Valve Spring |
| 8 Control Spring | 21 Pin Retainer (Control) |
| 9 Control Valve Spring | 22 Control Valve Spring (Not shown in figure) |
| 10 Control Valve Spring | 23 Control Valve Spring (Not shown in figure) |
| 11 Control Valve Spring | 24 Control Valve Spring (Not shown in figure) |

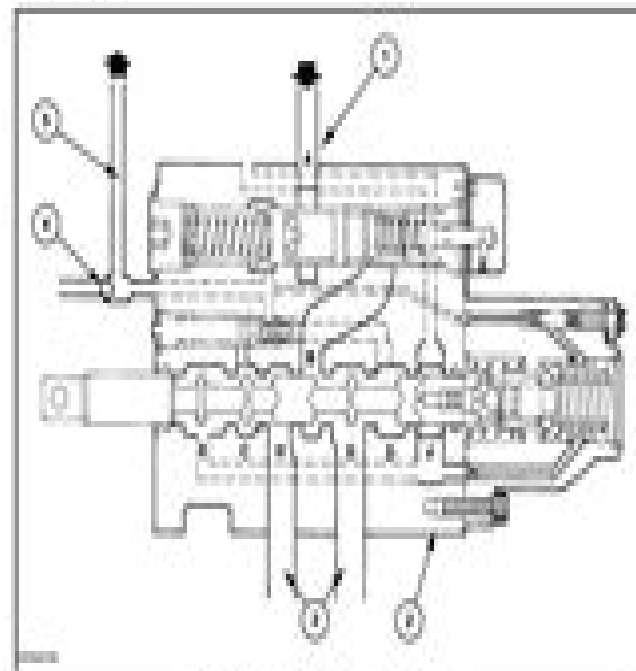
*The pin retainer (control shaft) is not shown in figure 811.

The principal components of the hydraulic control valve assembly are shown in figure 811 and are listed in the table below.

When a single wheel hydraulic valve is installed on a tractor, the individual components parts are installed as follows:

SECTION 4 - HYDRAULIC SYSTEMS

HYDRAULIC CIRCUITS



Hydraulic Control Valve Assembly (Not shown in figure 811)

812

- | | |
|--------------------------|-----------------------------------|
| 1 Valve Body | 6 Control Valve Spring Square |
| 2 Spool | 7 Control Valve, A/C |
| 3 Pin Retainer* | 8 Control Regulating Valve Spring |
| 4 Load Thrust Valve | 9 Control Valve |
| 5 Pin Retainer (Control) | 10 Control Regulating Valve |

The hydraulic circuit shown in Figure 812 is for the hydraulic operation of the control valve. These circuits also show operation of the control valve and the control valve with the hydraulic pump.

When starting operation of the control valve on tractors equipped with the variable displacement (VLD) hydraulic pump, the same principle of operation applies, but all reference to the control valve should be disregarded.

On tractors with the variable displacement (VLD) hydraulic pump, the oil supply to the control valve is sent to control directly from the hydraulic pump and the load sensing valve connects directly to the flow compensating valve of the pump body as shown in figure 812.

When the control valve is in neutral, the control valve spool is held in the neutral position by the control spring and passage 6 is blocked by the control valve of the spool.

The control valve spool also holds off port 11 and stop port of flow supply passage 10 and return at passage 12 and 13. The oil in both ends of the 10 cylinder is, therefore, trapped.

When the valve is in neutral, passages 11 and 12 connect to the return of passage 13 and 14 allowing pressure in the flow sensing line from the valve to return to tank.

On tractors with the variable displacement (VLD) hydraulic pump, the flow compensating valve connects to the flow sensing line from the valve to return to tank.

On tractors with the variable displacement (VLD) hydraulic pump, the flow compensating valve connects to the flow sensing line from the valve to return to tank.

812 Flow in Neutral

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