SERVICE MANUAL

5500 / 6500 / 7500

Tractor

Part number 47899740

English

June 2015

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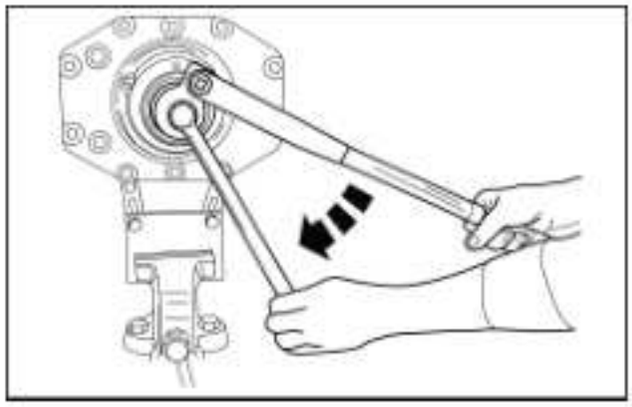
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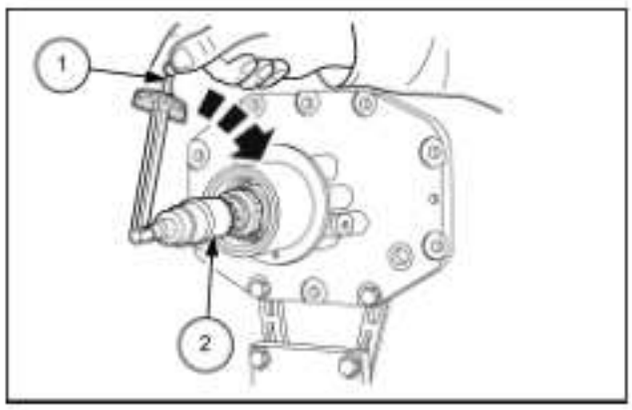
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1. Install the bevel pinion with all parts (less seal 2) but including shims into the differential carrier.
2. Lock the wrench 293524/1 **(A)** onto the pinion shaft using screws **(1)**. Check that the torque required to rotate the shaft is **0.000 - 0.200 N·m** (**0.000 - 1.770 lb in**).



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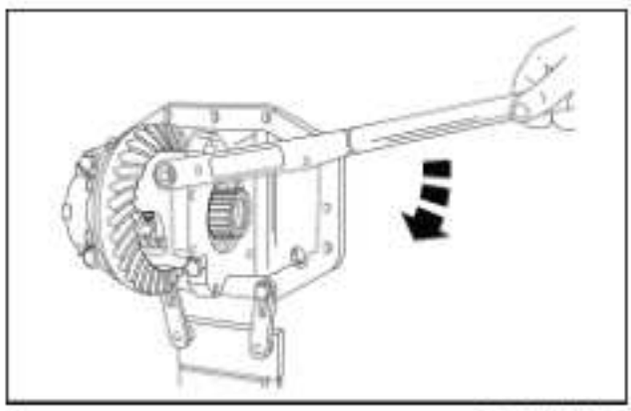
3. Lubricate the bearings with engine oil and tighten the lock ring **(C1)** to **294.00 N·m** (**2602.12 lb in**) using wrench 293524/1.
4. Measure the torque using correct torque wrench **(C)**. Ignore the initial torque reading.



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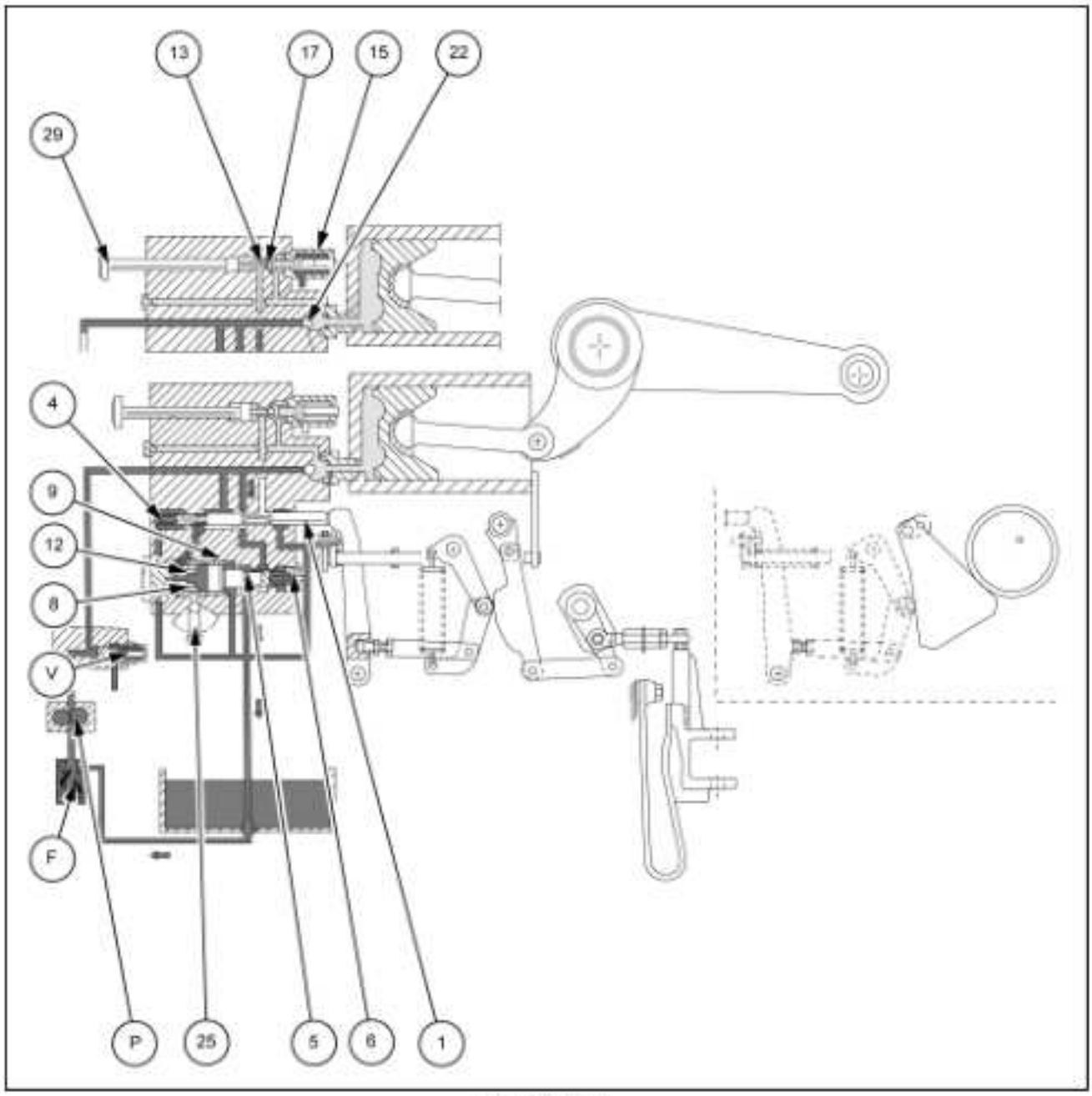
NOTE: *This revolving torque is applicable only to pinions installed without a seal. When the seal is fitted, this torque should be =* ***0.5 N·m (0.4 lb ft)*** *. These torques may be measured using a spring balance and a string wound around the ring nut wrench 293520/2 or 293524/1. When pinions are fitted with seals,a balance reading of* ***22 N (5 lb)*** *should be obtained.*

5. Install the differential unit in the carrier ensuring that ring gear is not forced onto the pinion. Tighten screws **(C10)** to **59 N·m** (**44 lb ft**) then slacken and retighten to **20 N·m** (**15 lb ft**).
6. Lubricate ring gear bearings, rotate the bevel drive and tighten the differential bearing lock ring **(GS)**. At the same time, using wrench 293544. Check that the torque is **39 - 59 N·m** (**29 - 44 lb ft**) to establish the specified axial pre- load.



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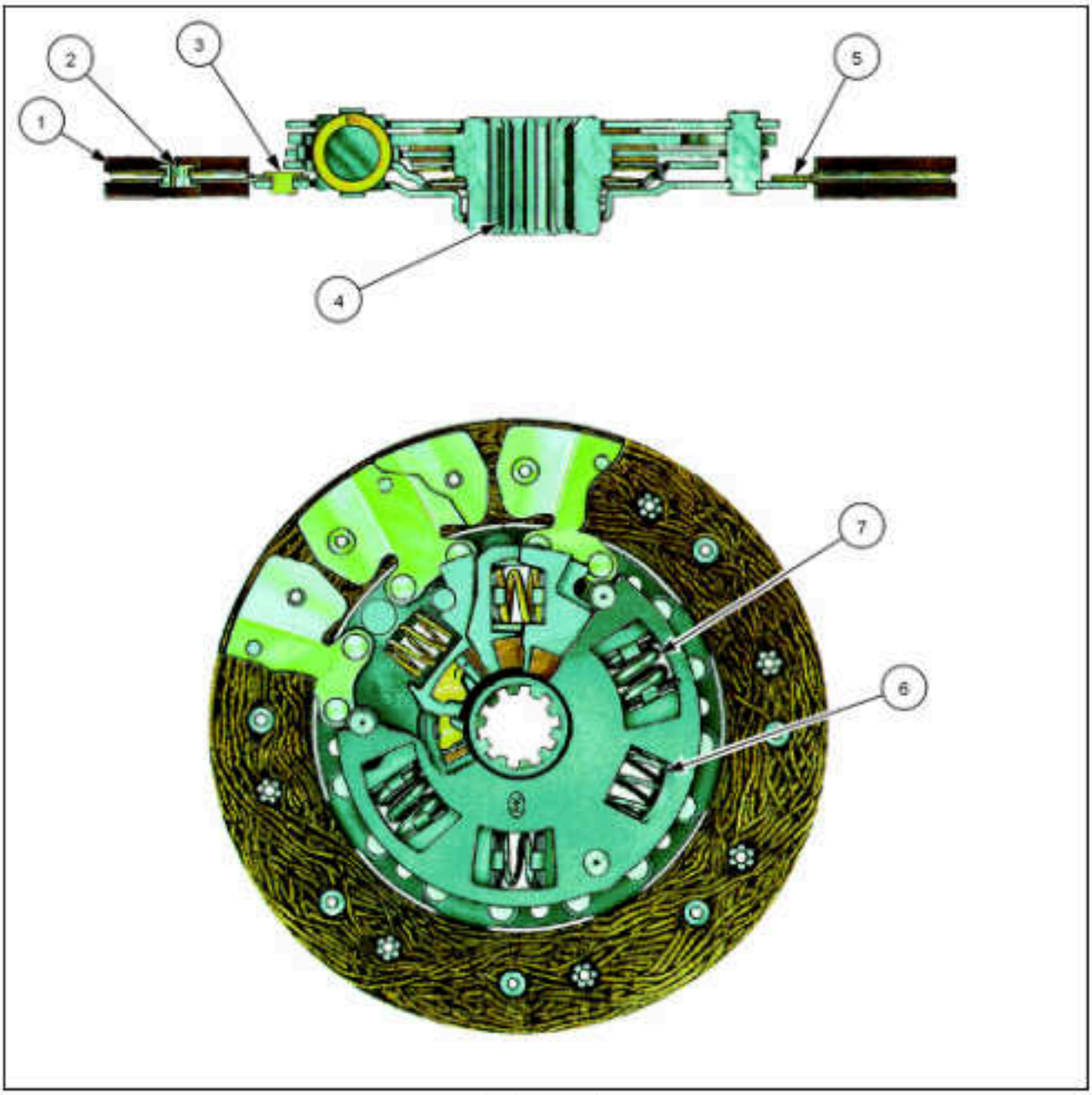
Hydraulic circuit diagram

F. Filter
P. Hydraulic pump
V. Relief valve
(installed on lift body or on remote control valve)
1. Spool
4. Spool return spring
5. Control valve plunger
6. Plunger spring
8. Control valve position seat
9. Control valve position
12. Sensitivity control valve
13. Ball
15. Cylinder safety valve
17. Arm response adjacent valve
22. Check valve
25. Adjusting pipe lever
29. Arm response adjusting pin knob

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Clutch plate

1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring

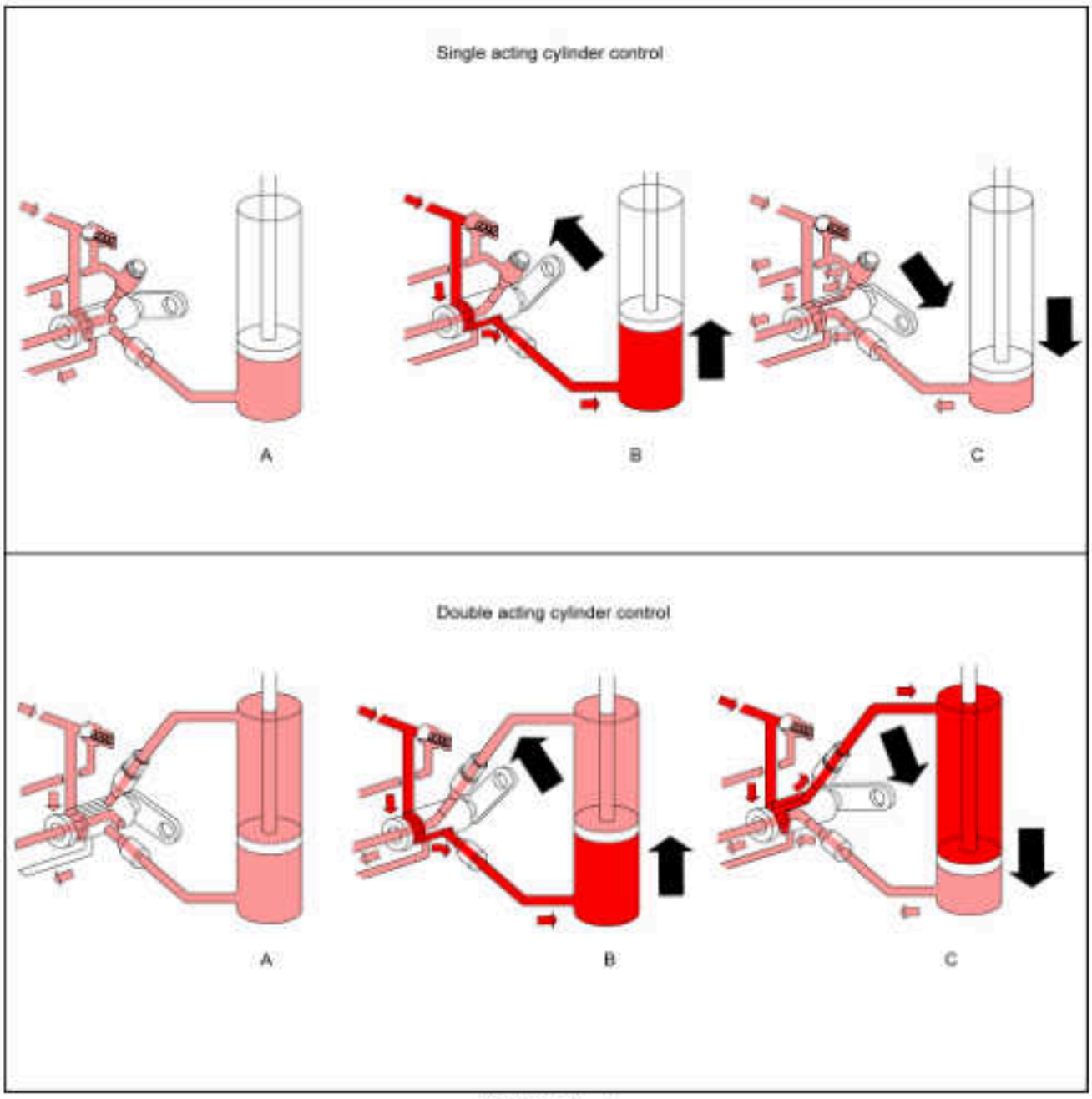
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Remote control valves - Dynamic description

The remote control valves are used to control external hydraulic implements connected to the tractor.

Tractor is equipped with two remote valves, which are secured by the upper right-hand side of the rear axle housing.

The remote valves are operated by means of control lever located at the operations right-hand side behind the hydraulic lift control levers.



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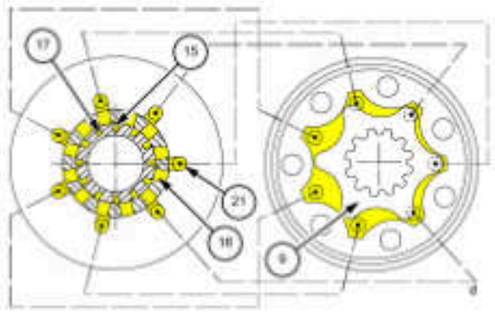
Single acting cylinder control and Double acting cylinder control

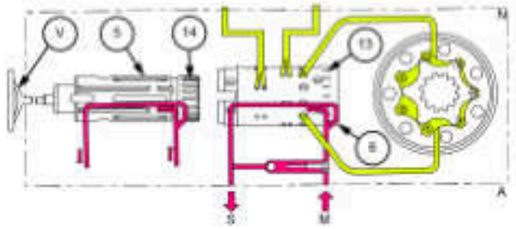
Remote valve control lever has three positions.

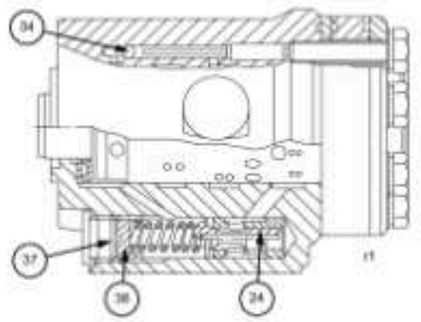
A. Raise
Pulling the lever forward will extend the cylinder and raise the implement.

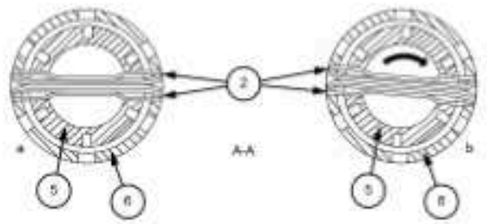
B. Neutral
By releasing, the lever automatically returns to neutral position due to spring loaded and deactivate the cylinder connected.

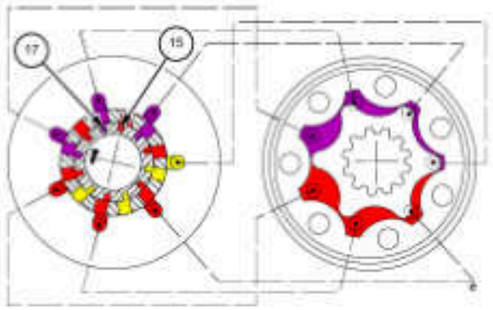
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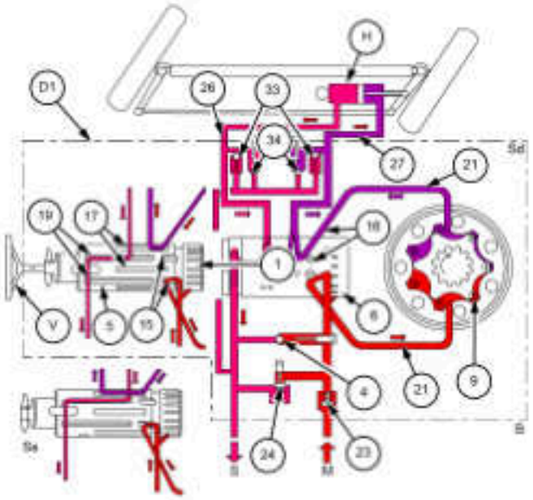


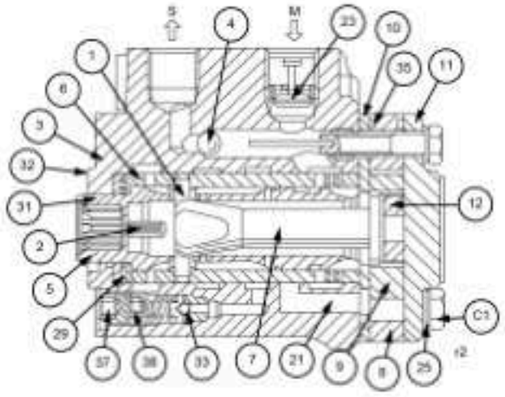


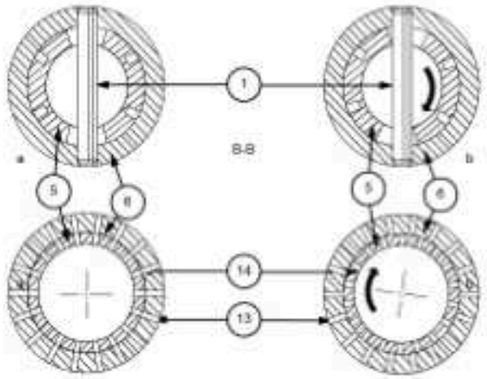


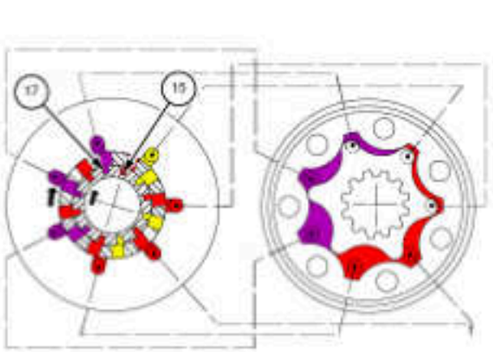


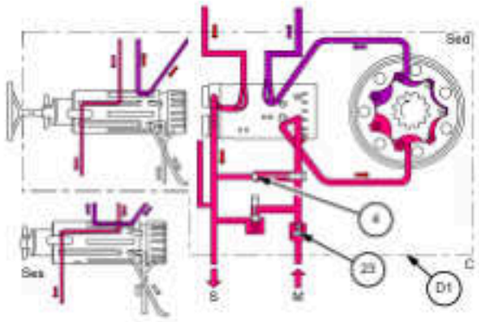


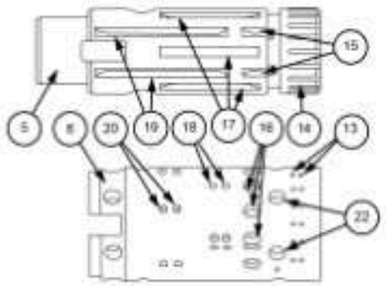


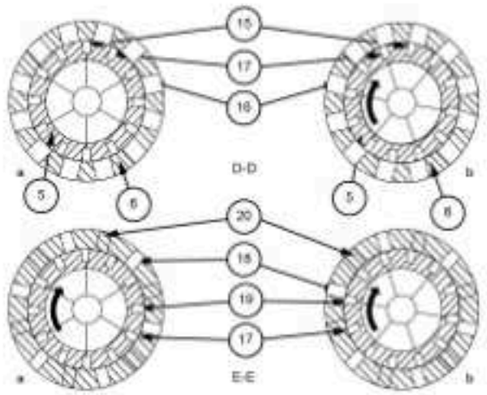












Oil Pressure to power cylinder

Oil pressure to rotor

Inlet, low pressure or return oil

Trapped oil

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