1570 Spirit of '76 Tractor

Service Manual

9-79786

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R.H. TURN - ENGINE RUNNING

When steering wheel is turned to the right (clockwise), the input shaft rotates torsion bar and moves valve spool simultaneously.

ROTATION OF TORSION BAR - The torsion bar tends to rotate drive link which in turn rotates rotor and commutator, aligning ports in commutator with ports in manifold. Once these ports are aligned, they allow power assist and metered high pressure oil from rotor and stator to flow through the center of valve spool.

VALVE SPOOL MOVEMENT - The input shaft rotation moves the ball down a helical ramp. As the ball moves down the ramp in a corkscrew fashion, it forces the valve spool forward aligning a hole in valve spool with a passage in the valve body. This allows power assist oil from rotor and commutator to flow thru the center of the valve spool and out to the steering cylinders.

In a right hand turn, power assist oil flows behind cylinder piston (rod end) on right hand cylinder, causing it to retract. At the same time oil flows to top of piston on left hand cylinder, causing it to extend, actuating the right hand turn.

ROTOR AND STATOR - Their function is to meter and increase pressure of oil coming from hydraulic pump via the manifold.

Oil returning from steering cylinders enters valve body as a lube oil and flows thru valve passages and out to power shift lube circuit via the oil cooler.

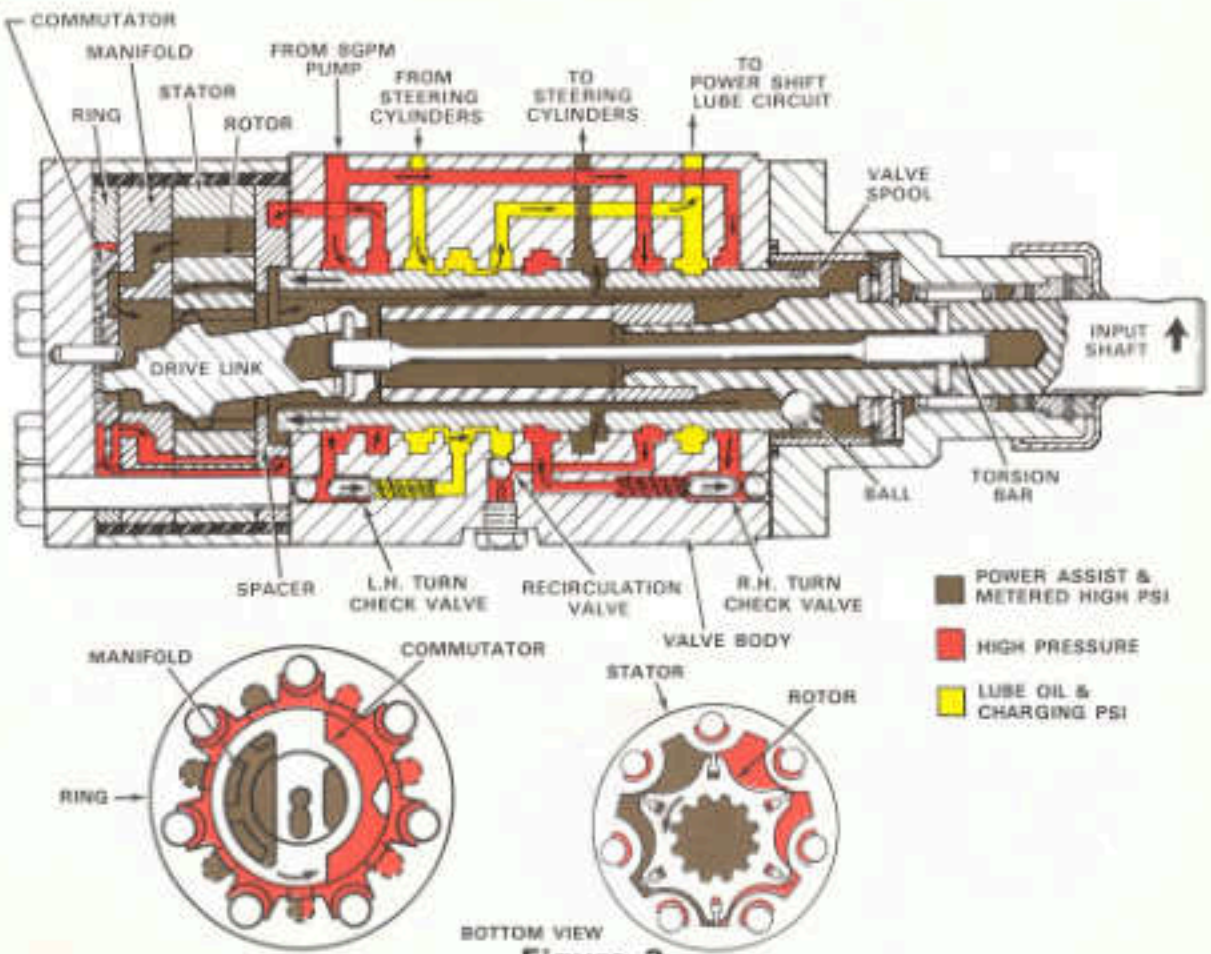
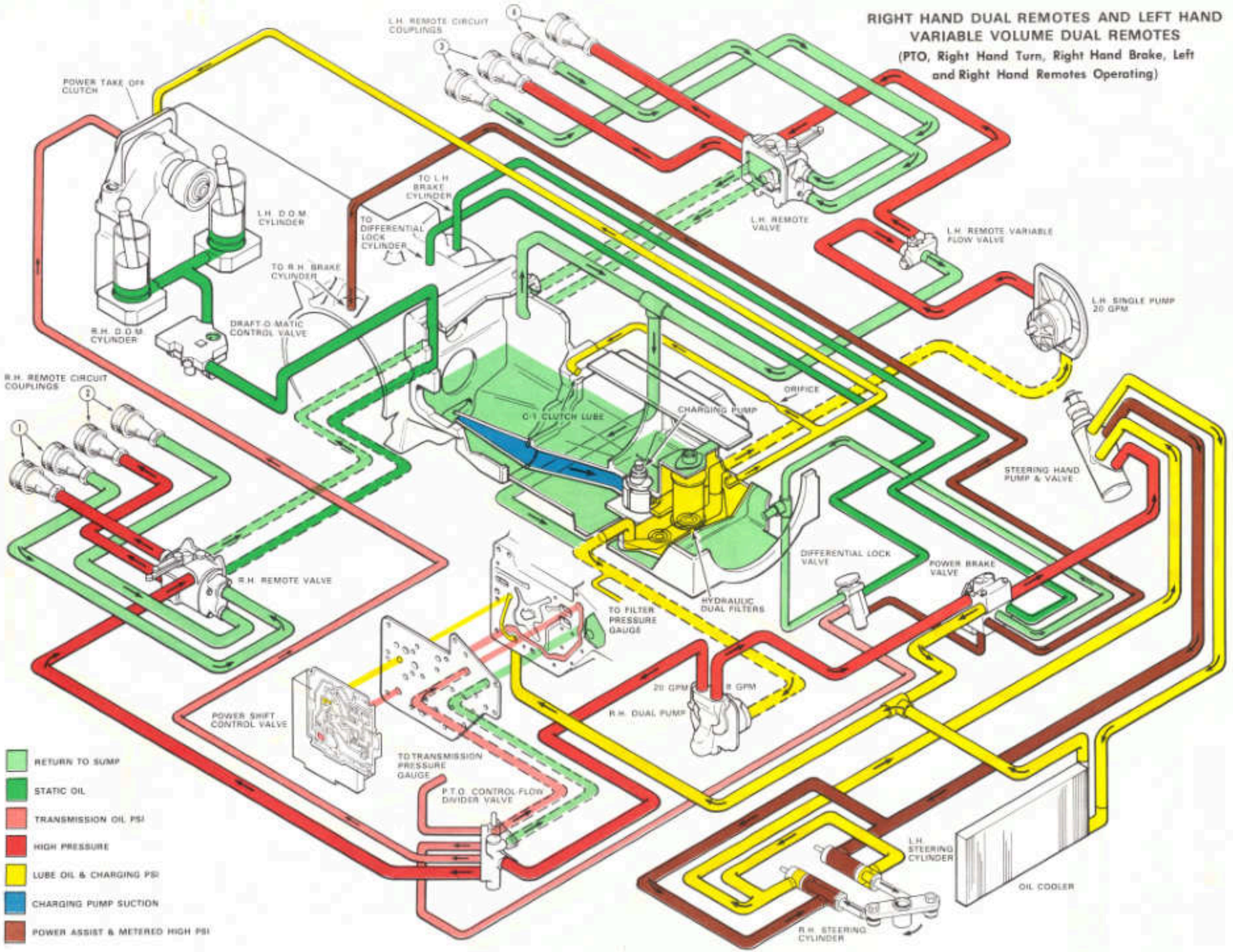


Figure 3

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RIGHT HAND DUAL REMOTES AND LEFT HAND VARIABLE VOLUME DUAL REMOTES

(PTO, Right Hand Turn, Right Hand Brake, Left and Right Hand Remotes Operating)



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