580E/SE
LOADER BACKHOE

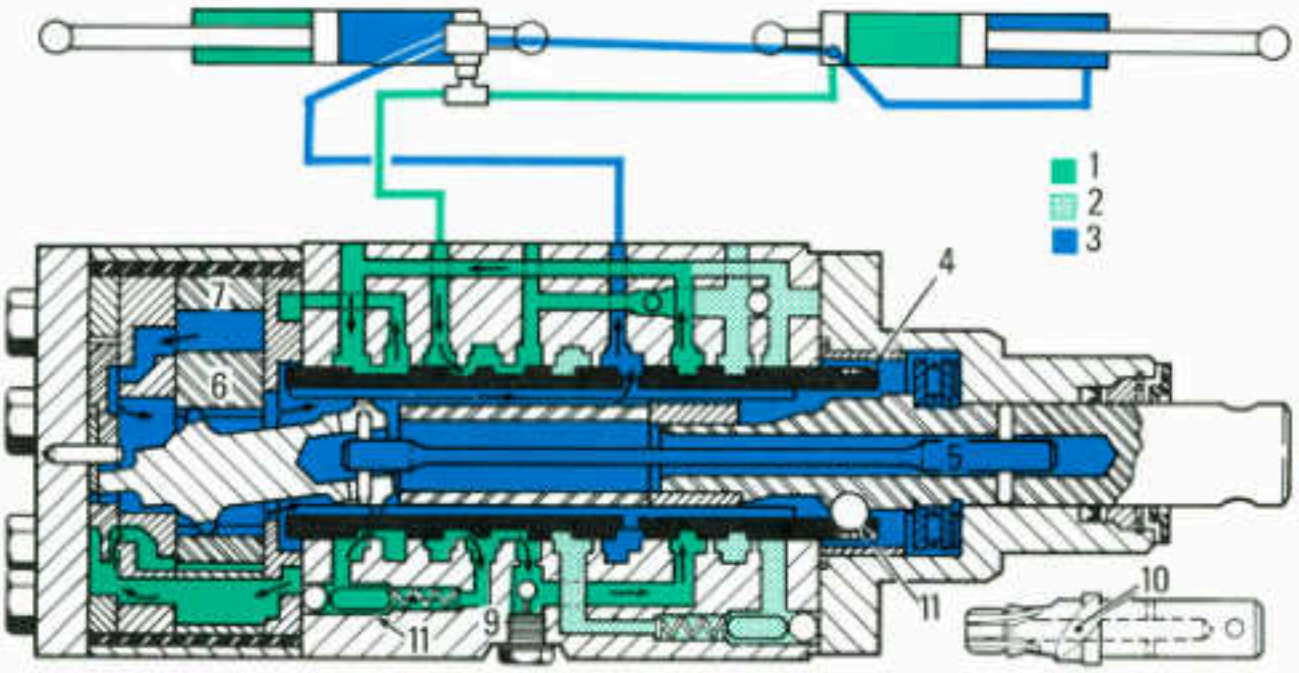
Service Manual

8-41701

CASE

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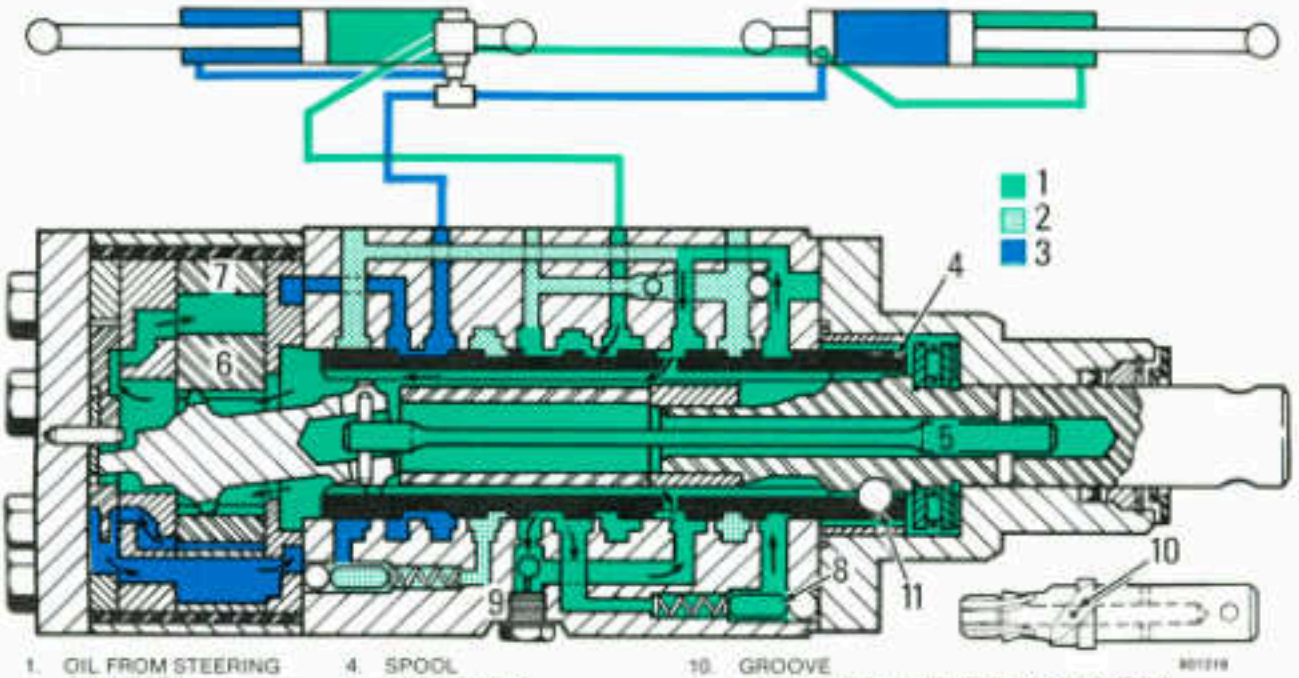
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1. OIL FROM STEERING CYLINDERS
2. STATIC OIL
3. METERED OIL TO STEERING CYLINDERS
4. SPOOL
5. TORSION BAR
6. ROTOR
7. STATOR
8. CHECK VALVE
9. RECIRCULATION VALVE
10. GROOVE
11. ACTUATOR BALL IS HELD IN GROOVE BY THE SPOOL. TURNING THE INPUT SHAFT TO THE RIGHT MOVES THE ACTUATOR BALL TO BOTTOM OF GROOVE AND SPOOL INTO BODY

R01317

Oil Flow, Right Turn, Engine Not Running



1. OIL FROM STEERING CYLINDERS
2. STATIC OIL
3. METERED OIL TO STEERING CYLINDERS
4. SPOOL
5. TORSION BAR
6. ROTOR
7. STATOR
8. CHECK VALVE
9. RECIRCULATION VALVE
10. GROOVE
11. ACTUATOR BALL IS HELD IN GROOVE BY THE SPOOL. TURNING THE INPUT SHAFT TO THE RIGHT MOVES THE ACTUATOR BALL TO TOP OF GROOVE AND SPOOL OUT OF BODY

R01318

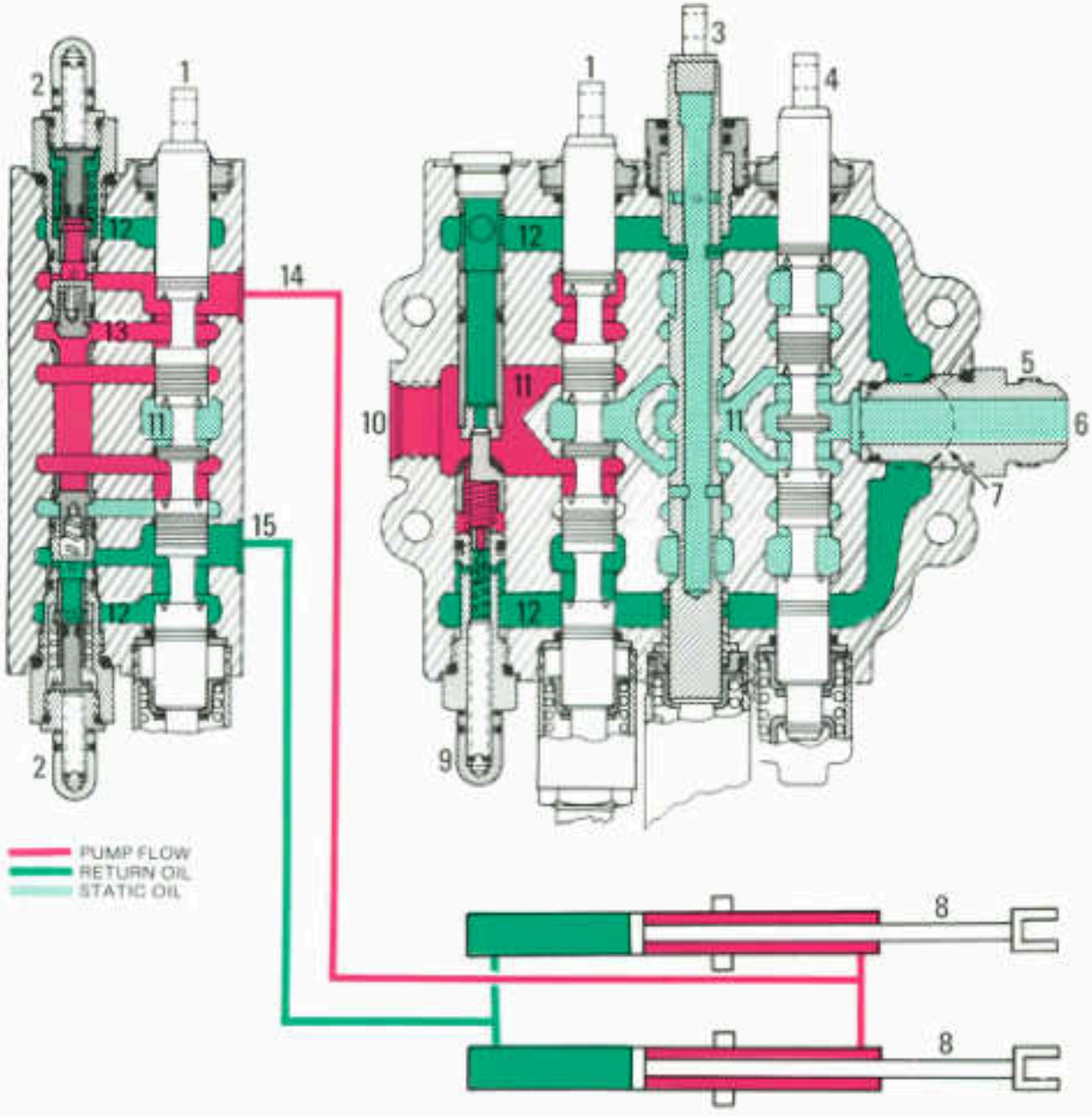
Oil Flow, Left Turn, Engine Not Running

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Oil Flow With the Bucket Spool Actuated

In this example the bucket spool is moved into the loader control valve to dump the bucket. The spool stops the flow of oil through the open center passage. When pressure in the open center passage increases, the load check poppet opens which lets oil flow to the A port. Oil flows from the A port of the loader control valve to the rod ends of the bucket cylinders.

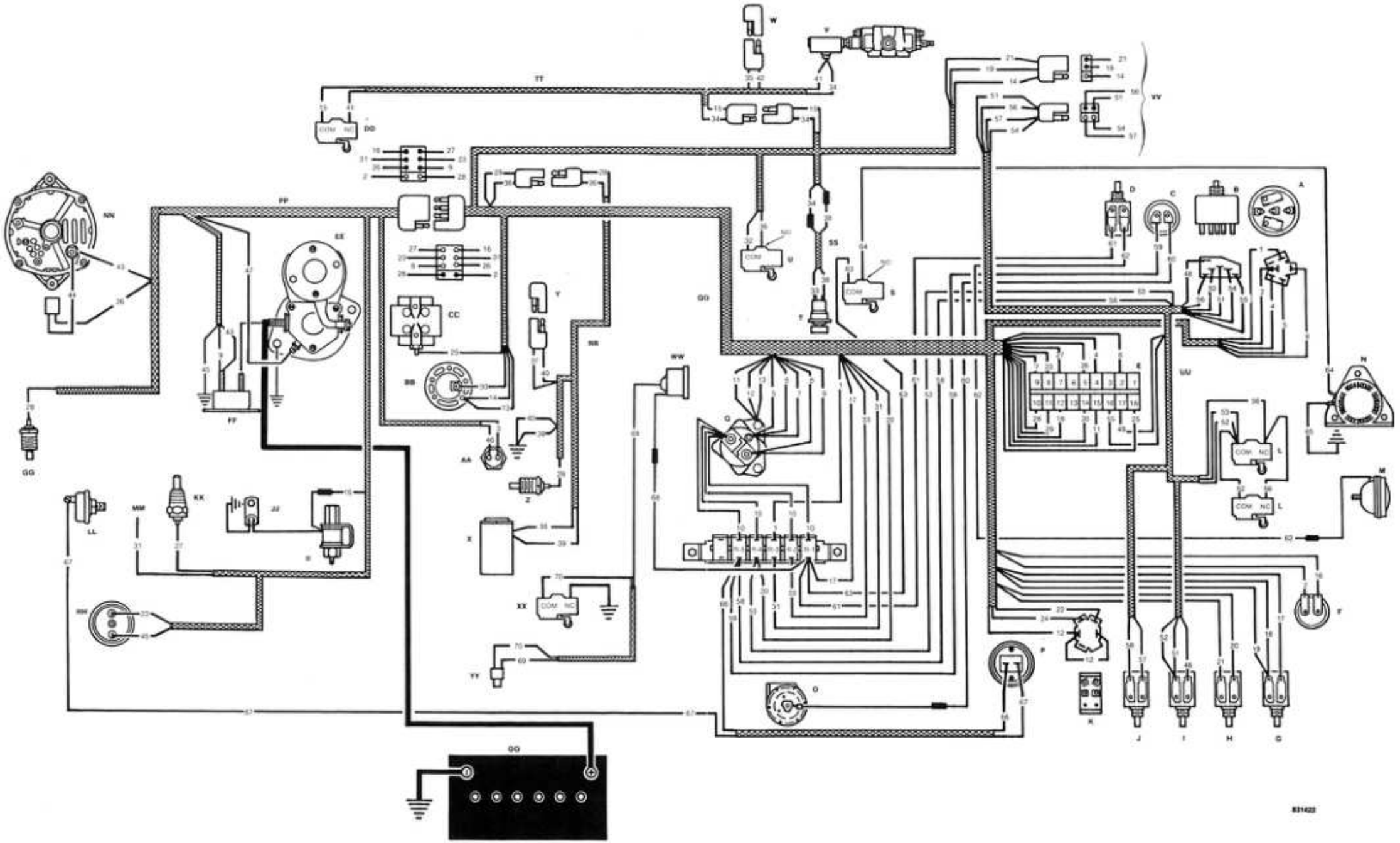
At the same time the oil that is pushed from the closed ends of the bucket cylinders flows to the B port. This oil flows through the return passages to the outlet port and to the hydraulic reservoir.



1. BUCKET SPOOL
2. CIRCUIT RELIEF VALVE
3. LIFT SPOOL
4. CLAM SPOOL
5. POWER BEYOND FITTING
6. TO STABILIZER CONTROL VALVE
7. OUTLET PORT
8. BUCKET CYLINDER
9. MAIN RELIEF VALVE
10. FROM HYDRAULIC PUMP
11. OPEN CENTER PASSAGE
12. RETURN PASSAGE
13. LOAD CHECK POPPET
14. A PORT
15. B PORT

Figure 5

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Wiring Diagram for Chassis

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