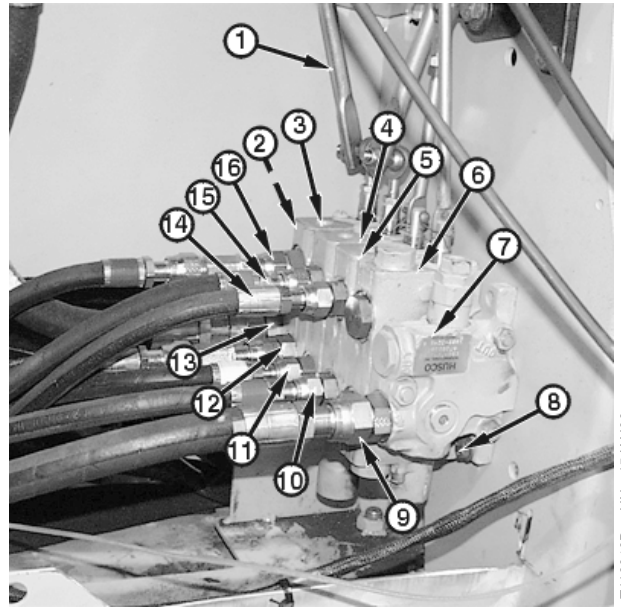


Hydraulic Control Valve Remove and Install

1. Lower all equipment to ground and stop engine.
2. Relieve hydraulic system pressure.
3. Turn battery disconnect switch to OFF.
4. Apply a vacuum to hydraulic reservoir.
5. Disconnect linkage rods (1).
6. Mark and disconnect hoses (9—16). Cap and plug all openings.
7. Remove cap screws (8) and remove control valve.
8. Install control valve using cap screws (8).
9. Connect hoses (9—16).
10. Connect linkage rods (1).
11. Remove vacuum from reservoir.
12. Check and fill hydraulic reservoir as needed.
13. Turn battery disconnect switch to ON.
14. Start machine and check for leaks.



T118949B —UN—15JAN99

- 1— Linkage Rods (4 used)
- 2— Outlet Section
- 3— Lift Section
- 4— Tilt Section
- 5— Angle Section
- 6— Auxiliary Section
- 7— Inlet Section
- 8— Cap Screw (3 used)

- 9— Inlet Valve-to-Hydraulic Pump Hose
- 10— Angle Valve-to-Right Angle Cylinder Rod End and Left Cylinder Head End Hose
- 11— Tilt Valve-to-Tilt Cylinder Head End Hose
- 12— Lift Valve-to-Lift Cylinders Head End Hose
- 13— Outlet Valve-to-Hydraulic Filter Hose
- 14— Angle Valve-to-Left Angle Cylinder Rod End and Right Cylinder Head End Hose
- 15— Tilt Valve-to-Tilt Cylinder Rod End Hose
- 16— Lift Valve-to-Lift Cylinders Rod End Hose

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Hydraulic Control Valve Disassemble and Assemble

IMPORTANT: Keep all components for each valve section together as a set.

1. To aid in assembly, identify each section with a mark.
2. Place valve in a vertical position having the inlet section down and supported by wood blocks.
3. Remove nuts (8) and tie rods (7).
4. Carefully remove sections (1—6). Do not lose or damage O-rings (11), load checks (10), and springs (9). Keep load checks and valve sections together as a set.

IMPORTANT: Use care not to damage or score mating surfaces of valve sections.

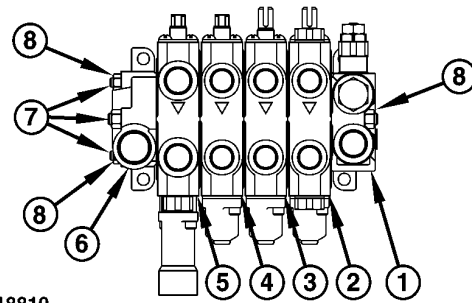
5. Inspect O-rings between each section for wear or damage. Replace as necessary.
6. Inspect springs and load checks for scoring, wear, or damage. Replace as necessary.
7. Apply clean hydraulic oil to all internal parts.
8. Install load check (10), spring (9), and O-ring (11) into each spool section.
9. Assemble sections (1—6), making sure load checks (10), springs (9), and O-rings (11) remain in position.

IMPORTANT: Tighten tie rod and nuts evenly to prevent valve spool binding or leakage between sections.

10. Evenly tighten tie rod nuts (8) to specifications.

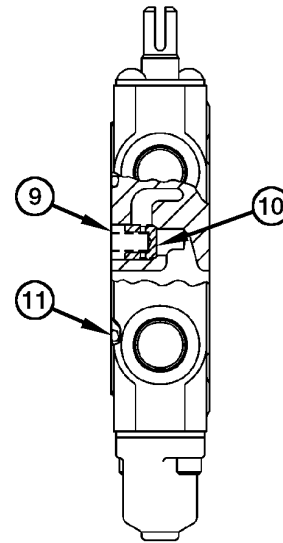
Hydraulic Control Valve—Specification

Control Valve Assembly	
5/16-18 in. Tie Rod	
Nuts—Torque.....	17—23 N·m 13—17 lb·ft
Control Valve Assembly	
3/8-24 in. Tie Rod	
Nuts—Torque.....	40—49 N·m 30—36 lb·ft



T118810

T118810—UN—10DEC98



T119779

T119779—UN—22JAN09

- 1— Inlet Section
- 2— Auxiliary Section
- 3— Angle Section
- 4— Tilt Section
- 5— Lift Section
- 6— Outlet Section

- 7— Tie Rod (3 used)
- 8— Nut (6 used)
- 9— Spring (1 in each spool section)
- 10— Load Check (1 in each spool section)
- 11— O-Ring (1 between each section)

CED, TX03768, 2527 -19-29JUL09-1/1