

Rotary Manifold Remove and Install (S.N. —647783)

1. Prepare machine for service. See [Park and Prepare for Service Safely](#) . (Group 0001.)

- 2.

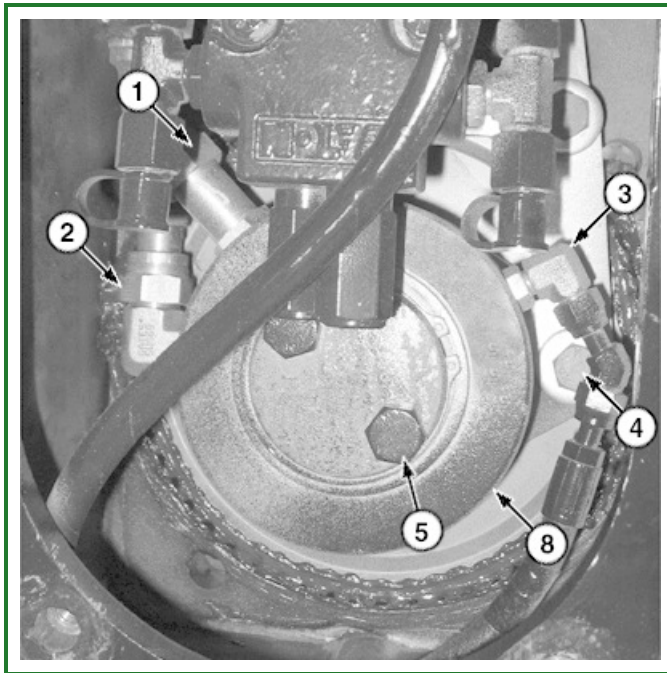
⚠ CAUTION:

To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

With key on, engine off, operate all hydraulic control valves to release pressure in hydraulic system. Depress brake pedal at 1 second intervals 20 times to drain oil from service brake accumulator.

3. Turn battery disconnect switch to the OFF position.
4. Remove top boom cover.
5. Remove grapple rotate motor. See [Grapple Rotate Motor Remove and Install](#) . (Group 3860.)

- 6.



TX1118965A-UN: Rotary Manifold

LEGEND:

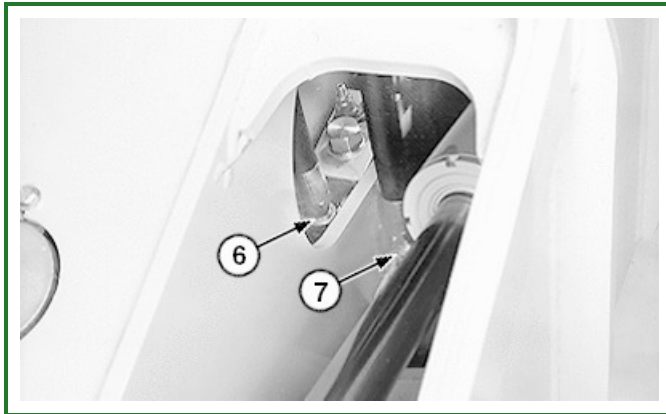
- 1 - Rotary Manifold-to-Control Valve Tong Head End Hose
- 2 - Rotary Manifold-to-Control Valve Tong Rod End Hose
- 3 - Rotary Manifold-to-Rotate Motor Hose
- 4 - Housing Cap Screw
- 5 - Cap Screw (2 used)
- 8 - Rotary Manifold

Tag and disconnect hoses (1—3) at rotary manifold (8). Close all openings using caps and plugs.

7. Remove cap screws (5).

8. Remove housing cap screw (4).

9.



TX1081377A-UN: Rotary Manifold Bottom Hoses

LEGEND:

6 - Rotary Manifold-to-Flow Divider Hose

7 - Rotary Manifold-to-Grapple Cylinder Rod End Hose

Remove bottom access cover on grapple frame.

10. Tag and disconnect rotary manifold-to-flow divider hose (6) at flow divider. Close openings with caps and plugs.

11. Tag and disconnect rotary manifold-to-grapple cylinder rod end hose (7) at tee. Close openings with caps and plugs.

12. Remove rotary manifold (8) and hoses (6 and 7).

13. Inspect and repair rotary manifold as necessary. See [Rotary Manifold Disassemble and Assemble \(S.N. —647783\)](#) . (Group 3860.)

14.

NOTE:

Hydraulic hoses must not be twisted as they pass through the gear and yoke when installing rotary manifold. Port marked "A" connects to flow divider.

Install rotary manifold (8) with hoses (6 and 7) attached.

15. Install cap screws and tighten to specification.

Item	Measurement	Specification
Cap Screw	Torque	346 N·m 255 lb.-ft.
Housing Cap Screw	Torque	346 N·m 255 lb.-ft.

16.

NOTE:

Port marked "A" connects to flow divider.