

Articulation Cylinders Remove and Install

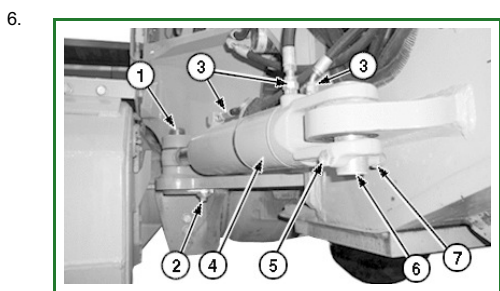
NOTE:
 Right articulation cylinder is shown. Remove and install procedure for left articulation cylinder is the similar.

1. Lower all attachments to the ground.
2. Install articulation lock pin.
3. Turn battery disconnect switch to OFF position.

4. **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.

To relieve pressure in the system, slowly loosen fittings on hoses at articulation cylinder (4).

5. Install vacuum pump to hydraulic oil tank to minimize hydraulic oil loss during repair. See Vacuum Pump Installation . (Group 2160.)



TX1058125A-UN: Articulation Cylinder (right side shown)

LEGEND:

- 1 - Pin (rod end)
- 2 - Cap Screw
- 3 - Hydraulic Hoses (3 used)
- 4 - Articulation Cylinder
- 5 - Cap Screw
- 6 - Pin (head end)
- 7 - Nut

Disconnect and tag hydraulic hoses. Cap and plug all openings.

7. Remove cap screw (5) and nut (7).
8. Remove pin (6).
9. Remove cap screw (2).
10. Remove pin (1).

11. **CAUTION:**
 Avoid crushing injury. Use appropriate lifting device.

Remove articulation cylinder (4) from machine.

Item	Measurement	Specification
Articulation Cylinder Weight (approximate)	31 kg 69 lb	

12. Inspect articulation cylinder, bushings, and pins for excessive wear or damage.

Item	Measurement	Specification	Item	Measurement	Specification	Item	Measurement	Specification	Item	Measurement	Specification
Blade	Diameter	49.67—49.77 mm	Articulation	Diameter	49.5—49.45 mm	Blade	Diameter	49.67—49.77 mm	Articulation	Diameter	49.475 mm
Side Shift		1.955—1.959 in.	Pin (head end)		1.949—1.947 in.	Side Shift		1.955—1.959 in.	Pin (rod end)		1.948 in
Cylinder Boss						Cylinder Bushing					
Bushing						Bore (rod end)					

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13. Repair or replace 120 series hydraulic cylinders components as needed. [See Cylinder Identification](#) . (CTM120519.)

14.

CAUTION:

Avoid crushing injury. Use appropriate lifting device.

Install articulation cylinder (4) to machine.

Item	Measurement	Specification
Articulation Cylinder. Weight (approximate)		31 kg 69 lb

15. Install pins (1 and 6), cap screws (2 and 5), and nut (7).

16. Connect hydraulic hoses (3).

17. Remove vacuum pump from hydraulic oil tank. Check for hydraulic oil leaks. [See Vacuum Pump Installation](#) . (Group 2160.)

18. Turn battery disconnect switch to ON position.

19. Remove articulation lock pin.

20. Check hydraulic oil level. [See Check Hydraulic Tank Oil Level](#) . (Operator's Manual.)

21. Return machine to service.

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