

John Deere 313 and 315 Skid Steer Loader; CT315 Compact Track Loader Service Repair Manual (TM10608)

624K-II 4WD Loader
Repair

(PIN: 1BZ624KA__C001001—;
PIN: 1BZ624KA__D001001—)



Covers: 313,315,CT315

Type: Service Manual

Language: English

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This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 313 and 315 Skid Steer Loader; CT315 Compact Track Loader Service Repair Manual (TM10608)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

Contents:

- General Information
- Specifications
- Serial Number Location
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- Engine Diagnostics
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- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

Steering Cylinders Remove and Install

SPECIFICATIONS

Steering Cylinder Weight (approximate)	50 kg 100 lb
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1. Prepare machine for service. [Park and Prepare for Service Safely.](#) (Group 0001.)

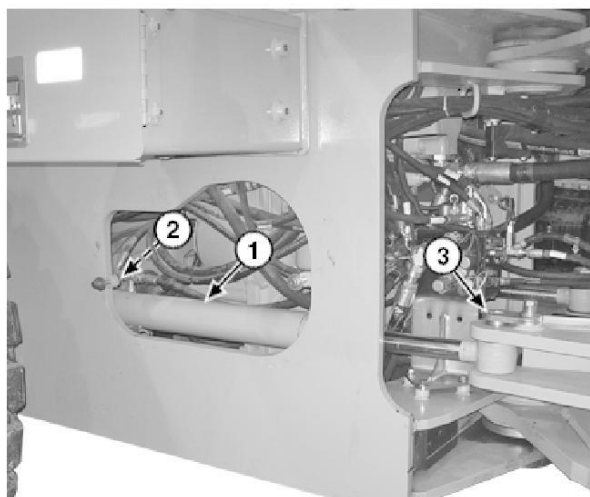


2. **CAUTION:**

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.

Relieve hydraulic system pressure. See Hydraulic System Pressure and Accumulators Discharge - document TM14199X19 - (Group 9025-25.)

3. Turn battery disconnect switch to OFF position.
4. Apply vacuum or drain hydraulic reservoir. See Drain, Flush, and Refill Hydraulic System Oil - document OMT386131X19 - (Operator's Manual.)



5. TX1066385A-UN: Steering Cylinder

LEGEND:

- 1-Steering Cylinder
- 2-Head End Pin
- 3-Rod End Pin

Tag and disconnect hydraulic lines from steering cylinder. Close all openings with caps or plugs.

6. Remove rod end pin (3) and head end pin (2) of cylinder.



7. **CAUTION:**

Prevent possible crushing injury from heavy component. Use appropriate lifting device.

Remove steering cylinder from machine.

Item	Measurement	Specification
Steering Cylinder	Weight (approximate)	50 kg 100 lb

8. Clean and inspect parts. Repair or replace parts as necessary. For more information, see Cylinder Identification - document CTM120519 - (CTM120519.)
9. Install steering cylinder to frame with head end first. Use shims equally on both sides of the head end to center steering cylinder in frame. Install shims as required to remove gap but not bind cylinder.
10. Install clean head end pin.
11. Install rod end of cylinder. Fill gap on both sides of rod end as required to remove gap but not bind cylinder.
12. Install clean rod end pin.

IMPORTANT:

13. **Prefill cylinders before connecting hydraulic lines.**

Connect hydraulic lines.

14. Check hydraulic oil level or fill if system was drained. See Check Hydraulic System Oil Level or see Drain, Flush, and Refill Hydraulic System Oil - document OMT386131X19 - (Operator's Manual.)
15. Turn battery disconnect switch to ON position.

IMPORTANT:

16. **When a machine is started for the first time after cylinder rebuild or oil is drained from cylinder, the loader start-up procedure must be performed to prevent oil from "dieseling" inside the cylinder.**

Remove frame articulation lock bar and perform loader start-up procedure for steering cylinders. See [Loader Start-Up Procedure \(Steering Cylinder\)](#). (Group 0960.)

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Steering Cylinder Bushings Remove and Install

Remove and install bushings in steering cylinder using Hydraulic Puller Set D01047AA. See [NeverGrease™ Pin Joints](#). (Group 0960.)

NeverGrease is a trademark of Deere & Company

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IMPORTANT:

Only use a hydraulic puller for removal and installing NeverGrease™ pin joint type bushings. Never use slide hammer or impact type puller.

Shimming is required where specified. Some joints are more critical and will be specified when required. Alignment in the joint is important to prevent premature wear.



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