

John Deere 640L-II, 648L-II and 748L-II Skidders Repair Technical Manual (TM14334X19)

640L-II, 648L-II and 748L-II Skidders Repair

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PIN: 1DW648L__F690814—

PIN: 1DW748L__F690814—



JOHN HARE



COLLECTION

REPAIR TECHNICAL MANUAL 640L-II, 648L-II and 748L-II Skidders

(PIN: 1DW640L__F690814—; PIN: 1DW648L__F690814—;
PIN: 1DW748L__F690814—)

TM14334X19 30NOV19 (ENGLISH)

For complete service information also see:

Isaiah Valve V-1400 Series Inboard Planetary Axles tm143315
TEAY VATE V1700 Series Outboard Planetary Axles tm123410
640L-II, 648L-II and 748L-II Skidders tm14334X19
PowerTech 3068 CFM Dies
platform Level 25 (L25)
Hydraulic Cylinders
40 and 4000 Winches
60 and 6000 Winches

PDF



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Worldwide Construction and
Forestry Division

Covers: 640L-II,1DW640L__,F690814(???,),648L-II,1DW648L__,F69

Type: Service Manual

Language: English

Pages: 386

Format: PDF

Features: Bookmarked, searchable, printable

Compatibility: Windows/Mac/Tablet/Mobile

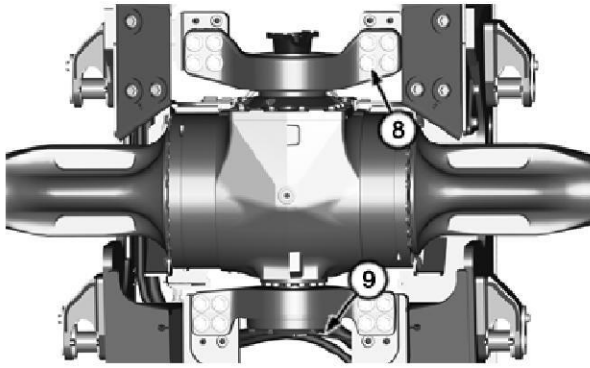
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 640L-II, 648L-II and 748L-II Skidders Repair Technical Manual (TM14334X19)**

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
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- 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.



12. TX1264641A UN: Oscillation Support Cap Screws

LEGEND:

8-Cap Screw (16 used)

9-Front Oscillation Support Lubrication Line

Install identification tag and disconnect front oscillation support lubrication line (9). Close all openings using caps and plugs.



13. **CAUTION:**
Prevent possible crushing injury from heavy component. Use appropriate lifting device.

NOTE:

Axle should be lowered and removed from under machine.

Attach appropriate lifting device and remove cap screws (8) from front and rear oscillation supports. Discard cap screws.

Item	Measurement	Specification
1400 Series SWEDA™ (Super Wide Extreme DutyWeight Axles) Axle (TeamMate™ V)	Weight (approximate)	1630 kg 3/25 lb
1400 Series Extreme Duty Axle (TeamMate™ V)	Weight (approximate)	2236 kg 4929 lb

14. Repair or replace axle. See TMV 1400 Series Repair - document CTM143819 - (CTM143819.)

INSTALLATION

Installation is reverse of removal procedure.

IMPORTANT:

Cap screw malfunction will occur if cap screws are reused after removal. **DO NOT** reuse cap screws that have been removed.

Install cap screws (8) and tighten to specification.

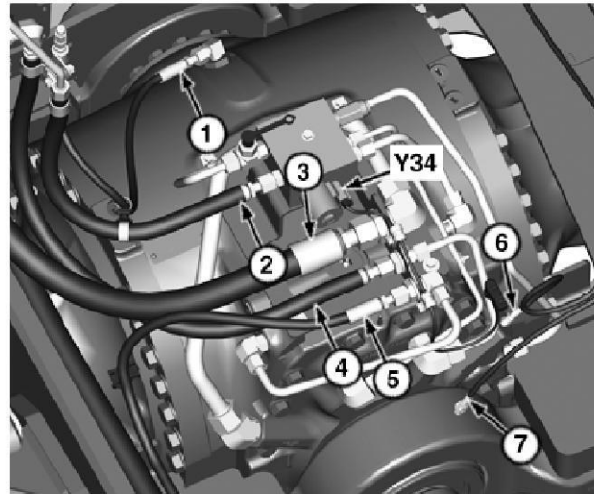
Item	Measurement	Specification
Cap Screw (8)	Torque	542 N·m 400 lb·ft

Bleed service brakes. See Service Brake Bleeding Procedure - document TM14333X19 - (Group 9025-20.)

SPECIFICATIONS

743-II Factory Configurable Machine Weight (maximum, approximate)	19 713 kg 43 460 lb
843-II Factory Configurable Machine Weight (maximum, approximate)	22 384 kg 49 348 lb
943-II Factory Configurable Machine Weight (maximum, approximate)	22 416 kg 49 419 lb
1700 Series Axle (TeamMate™ V) Weight (approximate)	2603 kg 5740 lb
Cap Screw (8) Torque	542 N·m 400 lb·ft

REMOVAL



TX1264624A-UN: Front Axle Hydraulic Lines

LEGEND:

1-Axle Vent Line

2-High-Pressure Line (differential fluid filter to port PUMP)

3-Suction Line (port SUCTION to pump)

4-Return Line (pressure relief valve to port TANK)

5-Service Brake Line (front axle port BRAKE to service brake electrohydraulic [EH] valve port B)

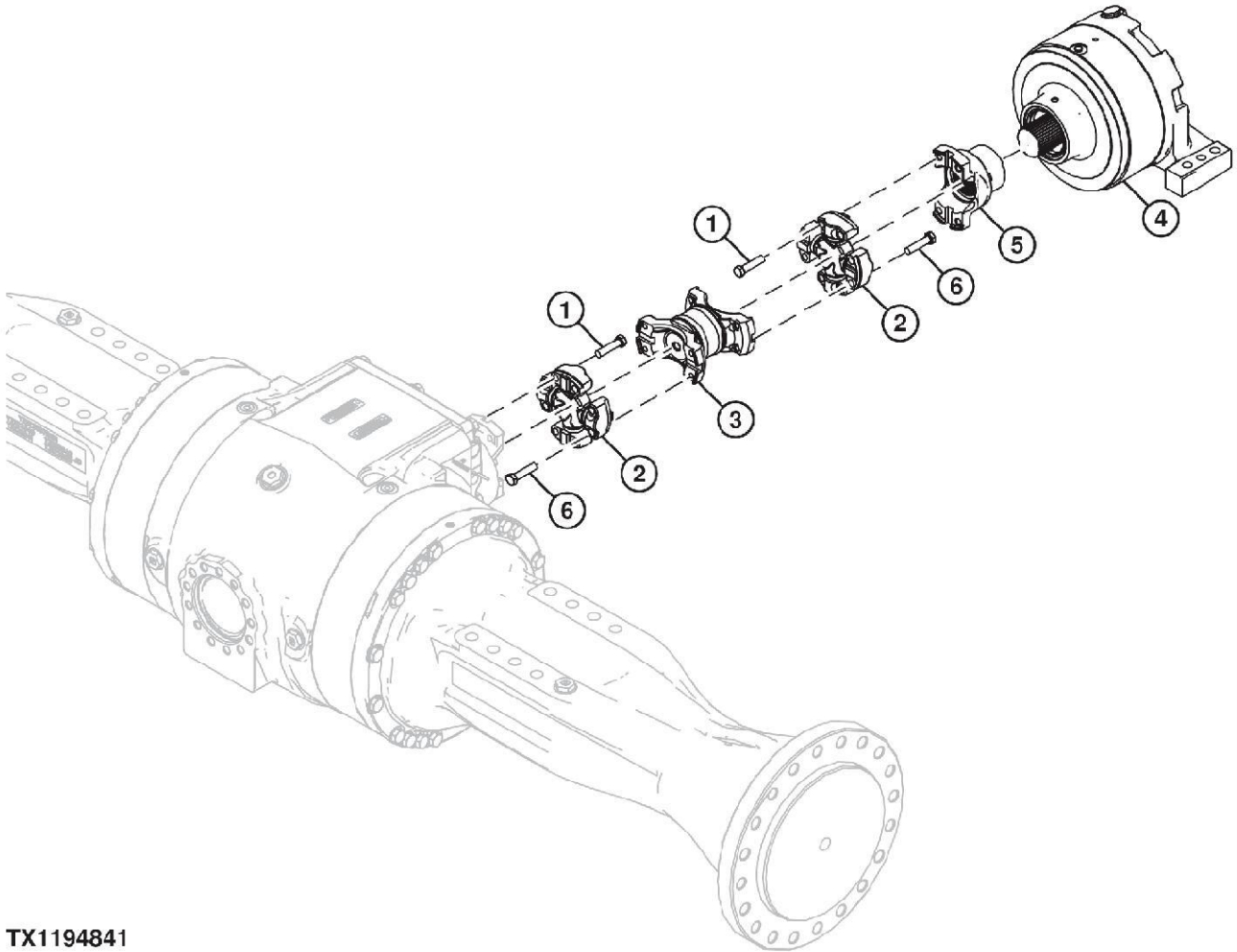
6-Pinion Seal Lubrication Line

7-Rear Axle Oscillation Pivot Lubrication Line

Y34-Front Axle Differential Lock Solenoid

1. Park and prepare machine for service. See Park and Prepare for Service Safely. (Operator's Manual.)
2. Turn battery disconnect switch to the OFF position. See Battery Disconnect Switch - document OMT412049X19 - (Operator's Manual.)
3. Remove engine side shields, right hood side shield, and right side hood support. See Hood Remove and Install. (Group 1910.)

1700 Series Axles



6. TX1194841

TX1194841-UN: Rear Axle Drive Shaft (1400 series axle shown)

LEGEND:

1-Cap Screw (8 used)

2-Cross Joint (2 used)

3-Rear Axle Drive Shaft

4-Park Brake

5-Yoke

6-Cap Screw (8 used)

Remove cap screws (1) and rear axle drive shaft (3).

7. Remove caps screws (6) and cross joints (2).

8. NOTE:

Yoke faces, keyways, and bearing cap mounting face and key must be free of foreign material, burrs, and nicks which will prevent the proper position and alignment of yoke keyway and cross bearing cap key.

Clean and inspect parts. Repair or replace as necessary.

INSTALLATION

Installation is reverse of removal procedure.

NOTE:

Cross joints are precision components. The fit is intended to be tight and some compression of seals is required to seat the bearing caps in the yoke. Hand pressure, a tap with a soft-faces hammer or a C-clamp can be used to seat a cross bearing cap in the yoke. DO NOT use the cap screws to pull the cross bearing caps into the yoke.

Tighten cap screws (1 and 6) to specification.

Item	Measurement	Specification
Cap Screw (1 and 6)	Torque	155 N·m 114 lb·ft



Thank you very much
for your reading.
Please click here
to get more information.