

# John Deere WL56 4WD Loader with T2/S2 Engines Service Repair Technical Manual (TM12745)

WL56 4WD Loader with  
T2/S2 Engines Repair



**REPAIR TECHNICAL MANUAL**

**4WD Loaders models WL56 (PIN: 1T0315SK\*\*D229820—; 1T0315SK\*\*C219607—)**

TM12745 07 JUL 15 (ENGLISH)

**For complete service information also see:**

WL56 4WD Loader with T2/S2 Engines Diagnostic	TM12741
JDLINK (MTG) Technical Manual	TM114519
Alternators and Starting Motors	CTM77
PowerTech E 4.5 and 6.8L Diesel Engines with 1.6L Electronic Fuel System With Denso HPCR	CTM502
AR15MTL Inboard	
PowerTech 4.5L G	
IIIA, Tier 3/Stage IIA Tier 3/5t	

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John Deere Construction and Forestry  
Printed by Belgreen



TM12745

Covers: WL56,1T0315SK\*\*D229820; 1T0315SK\*\*

**Type:** Service Manual

**Language:** English

**Pages:** 377

**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 WL56 4WD Loader with T2/S2 Engines Service Repair Technical Manual (TM12745)**

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.

Item	Measurement	Specification
Standard Z-Bar Linkage Machine	Weight (approximate) (S.N. 000288—)	16 543 kg 36 471 lb.
High Lift Z-Bar Linkage Machine	Weight (approximate) (S.N. 000288—)	16 698 kg 36 812 lb.

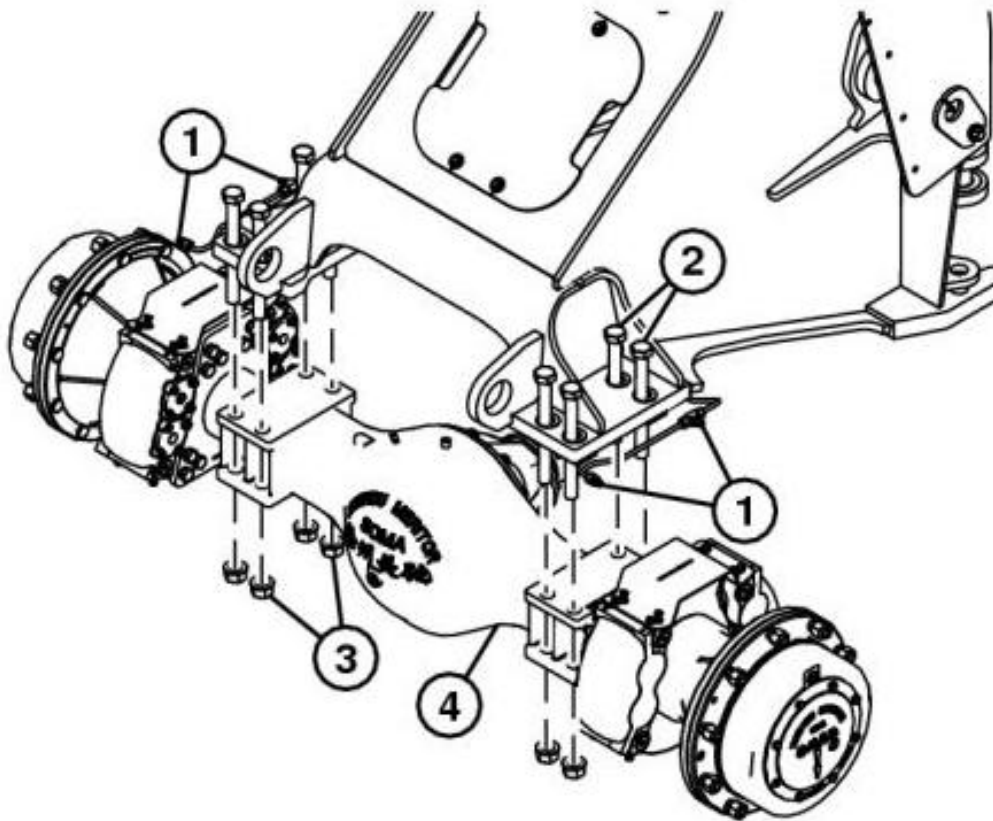
[7] -

**IMPORTANT:**

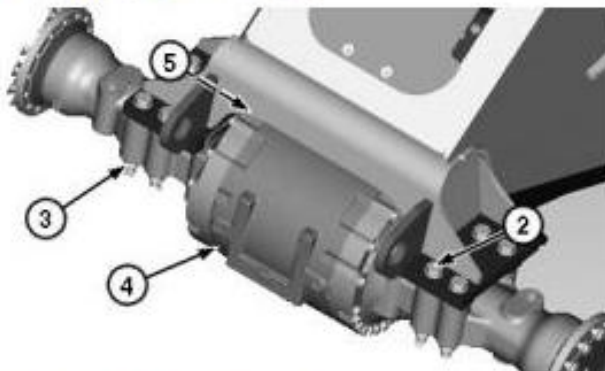
**Avoid machine damage. Do not reuse drive shaft universal joint cap screws.**

Disconnect drive shaft from front axle. Discard universal joint cap screws. [See Universal Joint and Drive Shaft Remove and Install.](#) (Group 0225.)

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**Front Axle (S.N. —000287)**



**Front Axle (S.N. 000288—)**

**Shim Installation**

Install required shim to achieve end play specification.

Item	Measurement	Specification
Oil Pump-to-Oil Supply Flange	End Play	0.20—0.40 mm 0.008—0.16 in.

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**LEGEND:**

- 11 Converter Relief Valve Spring  
12 Ball

**Converter Relief Spring and Ball**

Insert converter relief valve spring (11) and ball (12) into oil supply flange.

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**Oil Pump Installation**

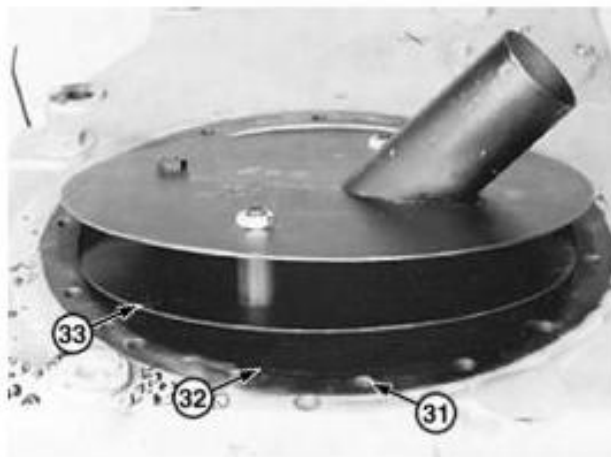
Install oil pump to oil supply flange and tighten cap screws to specification.

Item	Measurement	Specification
Cap Screws	Torque	25 N·m 221 lb.-in.

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**→NOTE:**

To install flange and pump in transmission housing, a temperature differential of 70° C (158°F) is required.

**LEGEND:**

- 31 Transmission Housing Flange  
32 Oil Supply Flange Bore  
33 DF1044 Air Deflector Bushing



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