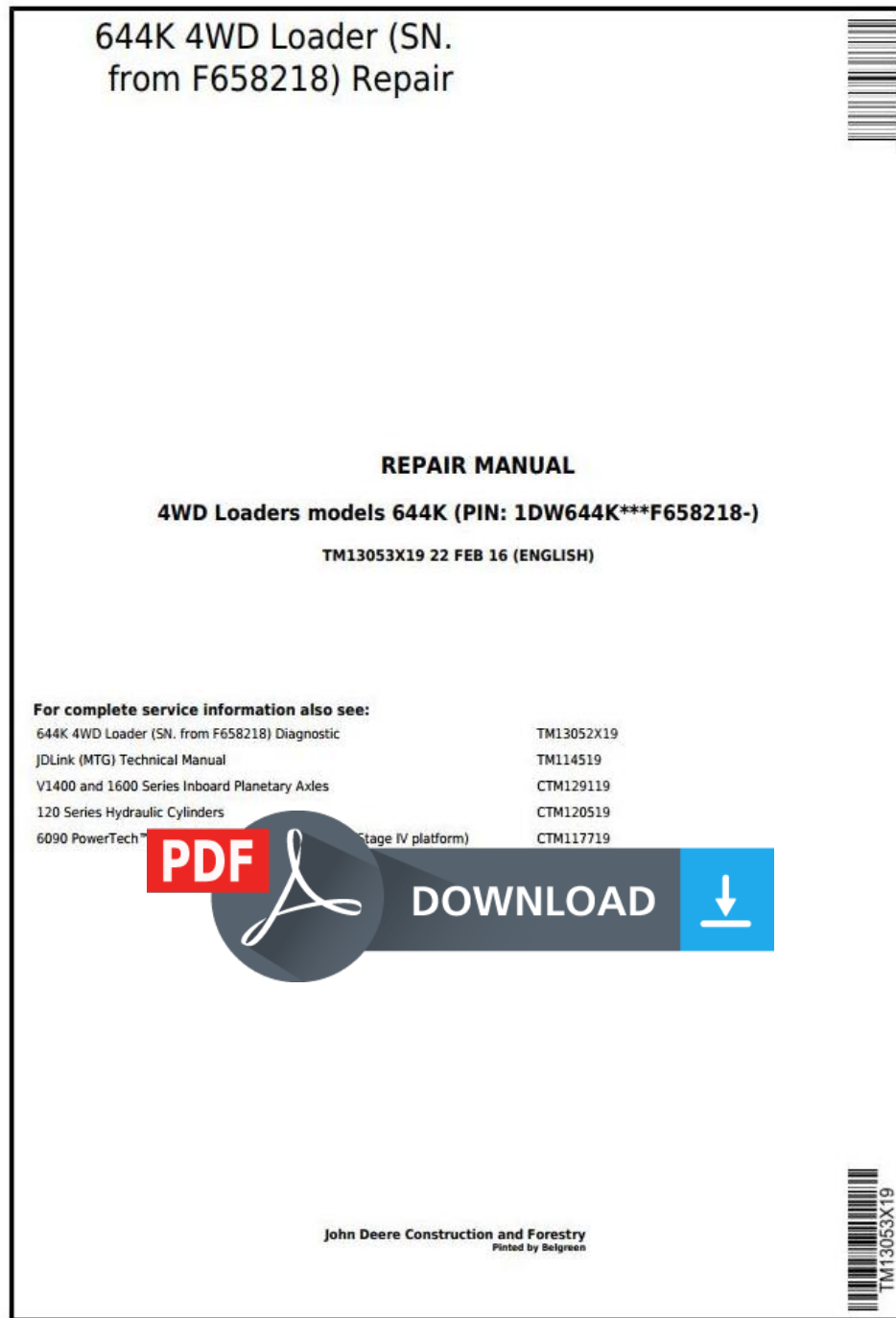


John Deere 644K 4WD Loader (SN. from F658218) Service Repair Technical Manual (TM13053X19)



Covers: 644K,1DW644K***F658218-)

Type: Service Manual

Language: English

Pages: 558

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 644K 4WD Loader (SN. from F658218) Service Repair Technical Manual (TM13053X19)**

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...

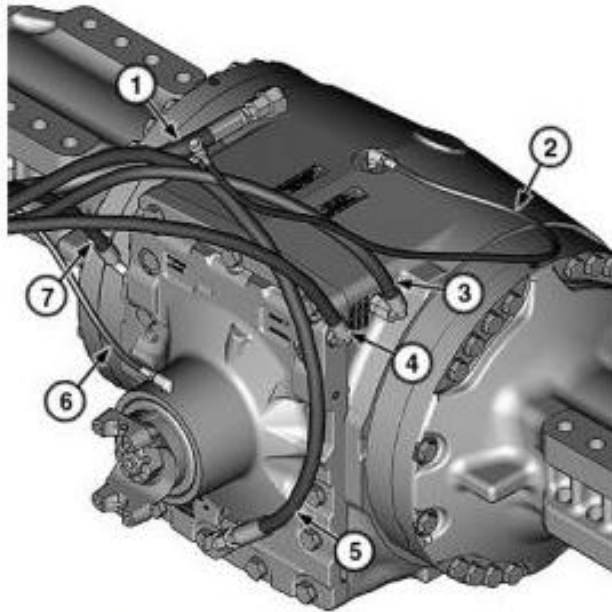
Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

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.)

[8] -

**LEGEND:**

- 1 Front Axle-to-Front Axle Differential Lock Valve Return Line
- 2 Breather Line
- 3 Front Axle Differential Lock Valve-to-Front Axle Line
- 4 Service Brake Valve-to-Front Axle Brake Line
- 5 Front Axle-to-Front Axle Circulation Pump Line
- 6 Lubrication Line
- 7 Axle Oil Cooler-to-Front Axle Line

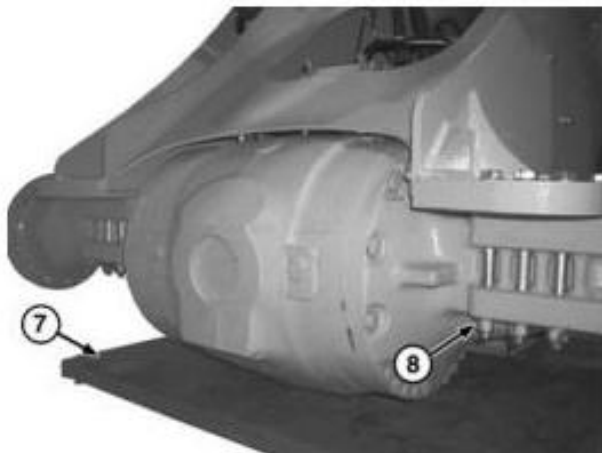
Front Axle

Tag and disconnect lines (1—7). Close all openings using caps and plugs.

[9] -

**CAUTION:**

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

**LEGEND:**

- 7 JT01642A Low-Lift Transmission Jack
- 8 Axle Mounting Nut (12 used)

JT01642A Low-Lift Transmission Jack

Install JT01642A Low-Lift Transmission Jack (7) under front axle and differential.

Item	Measurement	Specification
Front Axle and Differential	Weight (approximate)	980 kg 2161 lb.
Low-Lift Transmission Jack		
JT01642A		

Radiator Remove and Install

Specifications

SPECIFICATIONS	
Radiator Weight (approximate)	34 kg 75 lb.

Machine Preparation

- Prepare machine for service. [See Park and Prepare for Service Safely](#). (Group 0001.)
- Remove cooling package access doors. [See Cooling Package Access Doors Remove and Install](#). (Group 1910.)



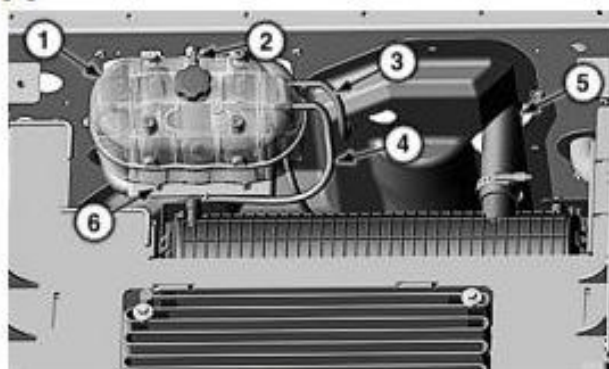
CAUTION:

Prevent possible injury. Explosive release of fluids from pressurized cooling system can cause serious burns. Shut off engine. Remove filler cap when cool to touch. Slowly loosen filler cap to relieve pressure, then remove.

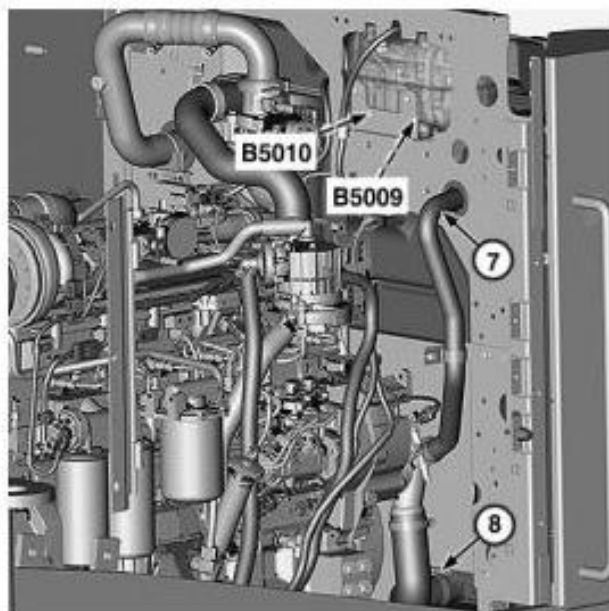
Drain cooling system. [See Drain Cooling System](#). (Operator's Manual.)

Removal

[1] -



Cooling Package (top side)



Cooling Package (engine side)

Tag and disconnect coolant lines (2—4) and upper radiator hose (5). Close all openings using caps and plugs.

LEGEND:

- 1 Surge Tank
- 2 Surge Tank Overflow Line
- 3 Surge Tank-to-Thermostat Housing Line
- 4 Radiator-to-Surge Tank Line
- 5 Upper Radiator Hose
- 6 Cap Screws (4 used)
- 7 Surge Tank-to-Coolant Pump Line
- 8 Lower Radiator Hose
- B5009 Engine Coolant Level Alarm Switch
- B5010 Engine Coolant Level Information Switch



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