## John Deere 744L 4WD Loader Operation & Test Technical Manual - TM14364X19

744L 4WD Loader Operation and Test PIN: 1DW744L\_\_\_D697296



JOHN HARE



COLLECTION

## OPERATION & TEST TECHNICAL MANUAL 744L 4WD Loader (PIN: 1DW744L\_ \_\_D697296—)

TM14364X19 30NOV19 (ENGLISH)

For complette service information also see:



Worldwide	Construction and
	<b>Forestry Division</b>

Covers: 744L,1DW744L\_,\_D697296

Type: Service Manual Language: English Pages: 1433 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 744L 4WD Loader Operation & Test Technical Manual - TM14364X19

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.

## Transmission Pump Flow Test

 SPECIFICATIONS

 Transmission Oil Temperature
 74-86°C

 165-187°F
 165-187°F

 Engine Speed
 1500 rpm

 Transmission Forward, Neutral, and Reverse (FNR) Position
 Neutral

 Transmission Pump Flow (new, minimum) Slow Idle
 40 L/min

 10.5 gal/min
 10.5 gal/min

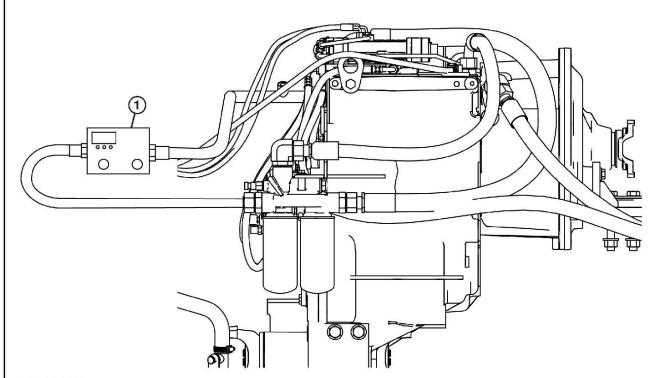
 Transmission Pump Flow (used, minimum) Fast Idle
 120 L/min

 31.5 gal/min
 31.5 gal/min

ESSENTIAL TOOLS

JT07148 Digital Hydraulic Flowmeter Tester

The purpose of this test is to determine transmission pump flow rate and performance.



#### XJ1218998

XJ1218998-UN: Transmission LEGEND: 1-JT07148 Digital Hydraulic Flowmeter Tester

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Prevent possible injury from machine movement. Ensure that there is adequate room and clear area of bystanders.

Park the machine on a flat, level surface.

2. Install frame locking bar. See Frame Locking Bar - document OMT426213X19 - (Operator's Manual.)

## 3. CAUTION:

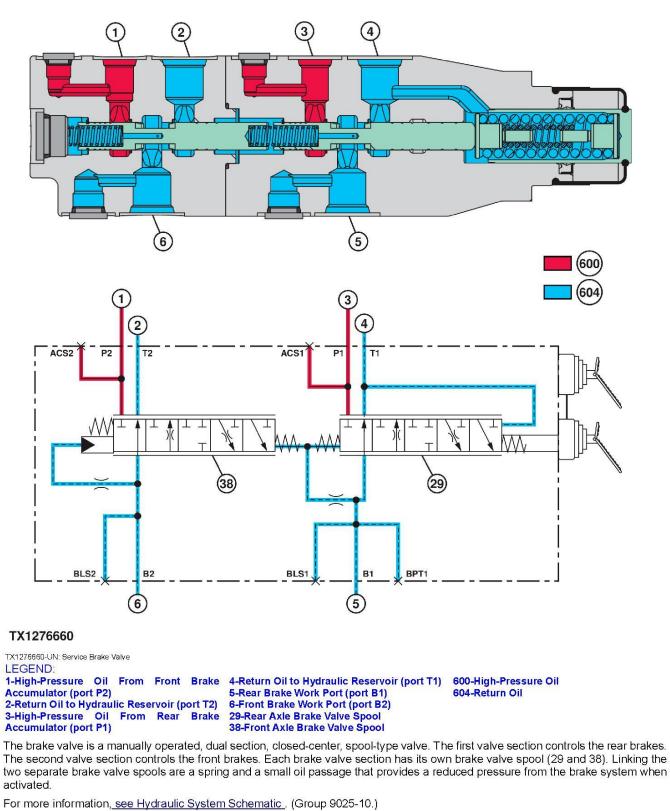
To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

4. Install JT07148 Digital Hydraulic Flowmeter Tester (1).

## Service Brake Valve Operation

### NOTE:

For service brake hydraulic line information, see Service Brake System Line Identification. (Group 9020-10.)



At the moment the service brake pedal is pressed, oil flows into the spring cavity. The spring begins to compress from the travel of the first spool. The combination of the oil and the spring moves the spool of the second brake valve section.



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