

# John Deere 703JH, 753JH, 759JH Tracked Harvester (SN. from C220453) Service Repair Manual (TM12392)

**8110T, 8210T,  
8310T, 8410T  
Tractors -  
Diagnostic**

**DIAGNOSIS AND TESTS SERVICE MANUAL**

**8110T, 8210T, 8310T, 8410T (S.N. 000000-902000, 902001-)**

**TM1798 15JUN04 (ENGLISH)**

For complete service information also see:

8110T, 8210T, 8310T and 8410T Tractors  
Operation and Test tm1799

8100T, 8200T, 8300T, 8400T, 8110T,  
8210T, 8310T and 8410T Tractors Repair tm1621

Series 450, 608 CTM86

Alternators and

PowerTech 6.8L and 8.1L  
Diesel Engines (Level 3 L  
Systems with Bosch In-Li



John Deere Agriculture

**Covers:** 703JH,1T0703JH\*\*C220453(???)???,753JH,1T07

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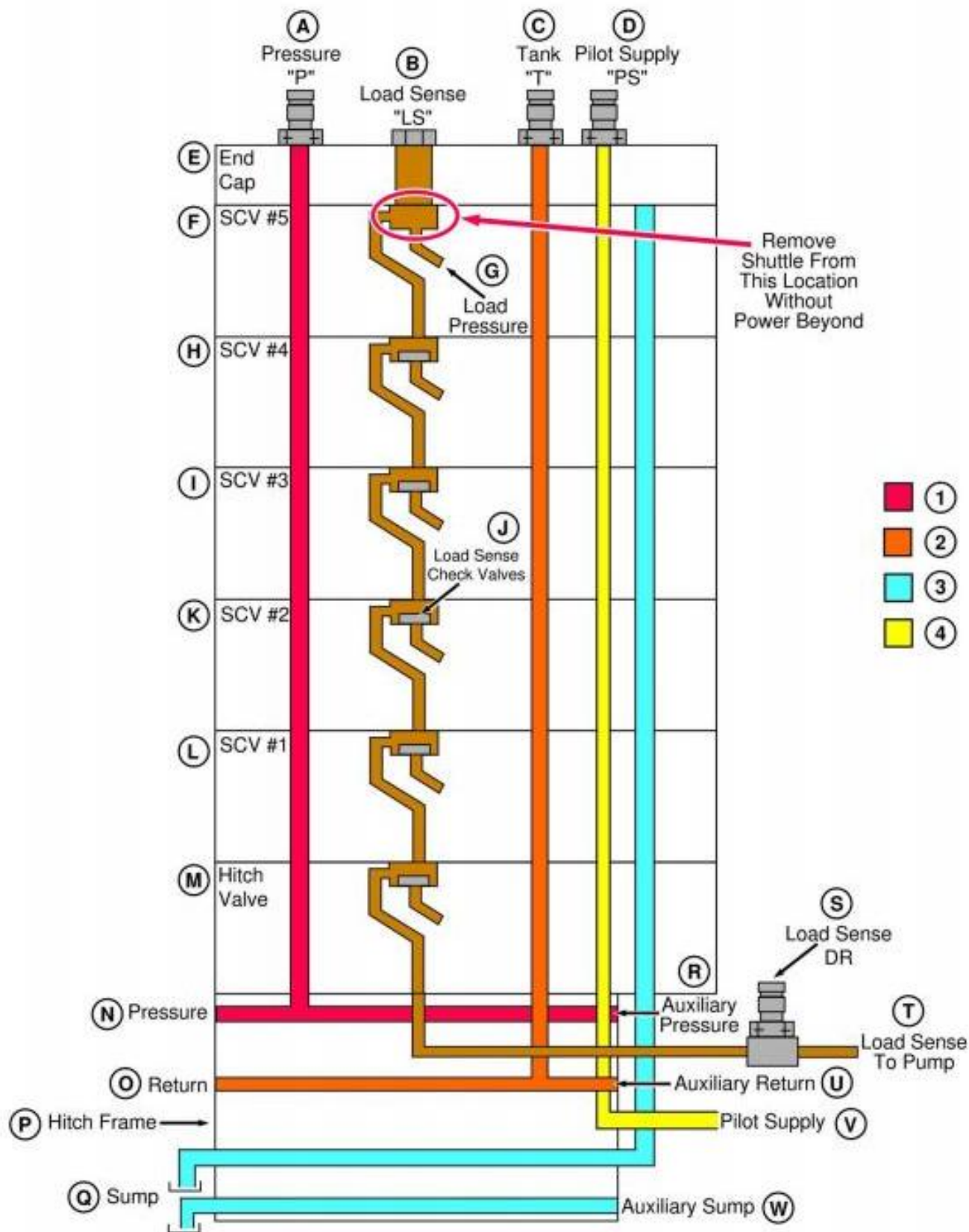
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 703JH, 753JH, 759JH Tracked Harvester (SN. from C220453) Service Repair Manual (TM12392)**

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.



**Load Sense Shuttle System**

**LEGEND:**

- A Pressure DR "P"
- B Auxiliary Load Sense "LS"
- C Tank DR "T"
- D Pilot Supply DR "PS"
- E SCV End Cap

Item	Measurement	Specification
	2000 rpm	90 kPa (13 psi)

Maximum pressure differential at 1000 rpm—7 kPa (1.0 psi)

### Result:

**YES:**No problem found. Problem is mechanical. Refer to Repair Manual (TM1621, Section 80, Group 05, and also Section 56, Group 05) for further instruction.

**NO:**Pressure not within specifications. [GO TO \[15\]](#) .

### [ 13 ] STEERING MOTOR SENSOR ADJUSTMENT

#### Action:

Perform **Steering Motor Sensor Adjustment** (See Reference [260-15-012](#)).

Item	Measurement	Specification
Steering Motor Sensor	Degrees from motor shaft	22 (+8-2)

### Result:

**YES:**Adjustment successful. [GO TO \[2\]](#) .

**NO:**Unable to adjust. Inspect and repair / replace steering motor sensor as necessary. [GO TO \[2\]](#) .

### [ 14 ] STEERING CHARGE PUMP PRESSURE REGULATING VALVE ADJUSTMENT

#### Action:

Perform **Steering Charge Pump Pressure Regulating Valve Adjustment** (See Reference [260-15-004](#)).

Item	Measurement	Specification
Charge pump pressure	A or B port—1000 rpm	1600—2350 kPa (16—23.5 bar) (230—340 psi)
	A or B port—2000 rpm	1800—1930 kPa (18—19.3 bar) (260—425 psi)

### Result:

**YES:**Adjustment successful. [GO TO \[2\]](#) .

**NO:**Unable to adjust. Inspect and repair / replace pressure regulating valve as necessary. [GO TO \[2\]](#) .

### [ 15 ] DISPLACEMENT CONTROL VALVE (DCV) NEUTRAL ADJUSTMENT

#### Action:

Perform **Displacement Control Valve Neutral Adjustment** (See Reference [260-15-009](#)).

Item	Measurement	Specification
DCV—left side	Neutral	1090 kPa (158 psi)
	Left turn	585 kPa



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