

John Deere 9470RT, 9520RT, 9570RT Tractors Service Repair Technical Manual (TM119719)

644J Loader (SN. from
611232) Diagnostic



OPERATION AND TEST MANUAL 4WD Loaders models 644J (SN. 611232-)

TM10231 16 FEB 16 (ENGLISH)

For complete service information also see:

644J Loader (S.N. 611232-) Repair	TM10246
PowerTech 8.1 L Diesel Engines Base Engine	CTM86
Alternators and Starting Motors	CTM77
PowerTech E 4.5 and 6.8L Diesel Engines with 16 Electronic Fuel System With Denso HPCR	CTM502
TM1V1200 - 1400	
PowerTech 4045, Denso High Pressure Common Rail Fuel System	
Super Caddy Oil Cleanup Products	
TeamMate III 1000, 1200, and 1400 Planetary Axles	CTM150
120 Series Hydraulic Cylinders	CTM120519
185 Series Hydraulic Cylinders	CTM114919
120 Series Hydraulic Cylinders	CTM114319
PowerTech 4.5L & 6.8L Diesel Engines Tier 1/Stage I, Tier 2/Stage II, Tier 3/Stage IIIA, Tier 3/Stage IIA Tier 3/Stage III, (Base Engine)	CTM104



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Type: Service Manual

Language: English

Pages: 1510

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Compatibility: Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 9470RT, 9520RT, 9570RT Tractors Service Repair Technical Manual (TM119719)**

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.

Action:

[1] - Diagnosis using Service ADVISOR or via basic informantor/performance monitor on tractors equipped with a user interface controller (UIC) from software part number 159320 (for software part number, see address UIC233):

- Start the engine.
- Access address TCU011 and TCU047, or access template [TCU905 - Transmission output speed sender \(B63\)](#) .
- Do this check while the tractor is in motion:
 - While the tractor is moving, the display of channels 1 and 2 should alternate between "0" and "1":

Item	Measurement	Specification
TCU011 - Status, transmission output speed sender (B63)		

Signal from channel 1 present:	Status	1XX
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Signal from channel 2 present:	Status	X1X
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- Doubling travel speed results in a doubling of the output value in address TCU047.

Item	Measurement	Specification
TCU047 - Speed, transmission output speed sender (B63)		

Display should vary with travel speed:	rpm	0 - 8000
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[2] - Diagnosis via basic informantor or performance monitor on tractors equipped with a user interface controller (UIC) up to software part number 157790 (for software part number, see address UIC233):

- Start the engine.

→NOTE: The main (key) switch must be at "IGN" for at least 8 seconds before the diagnostic mode is activated. If the diagnostic mode was activated previously, the tractor cannot be moved.

- Access address UIC047.
- Do this check while the tractor is in motion.
- Doubling travel speed results in a doubling of the output value in address UIC047.

Item	Measurement	Specification
UIC047 - Speed, transmission output speed sender (B63)		

Display should vary with travel speed:	rpm	0 - 8000
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Result:

YES:Diagnosis completed.Type of error indicates a loose contact, GO TO: [Circuit/harness test for transmission output speed sender \(B63\)](#); see Section 245, Group TCU in the Technical manual.

NO:GO TO: [Circuit/harness test for transmission output speed sender \(B63\)](#); see Section 245.



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for your reading.
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to get more information.