# John Deere Tractors 6100J, 6110J, 6125J, 6130J (South America) Diagnostic, Tests Service Manual TM801819

2654G and 2654GLC Forestry Excavator Operation and Test (PIN: 1FF2654G\_\_F260001—)



JOHN HARE

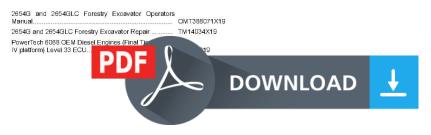


COLLECTION

# OPERATION & TEST TECHNICAL MANUAL 2654G and 2654GLC Forestry Excavator (PIN: 1FF2654G\_\_F260001—)

TM14033X19 01DEC18 (ENGLISH)

For complette service information also see:



Worldwide Construction and Foresty Division

Covers: 6110J,6125J,6130J

Type: Service Manual Language: English Pages: 1640 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 Tractors 6100J, 6110J, 6125J, 6130J (South America) Diagnostic, Tests Service Manual TM801819

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
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- 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.

## **Electrical Component Checks**

The following checks can be used to test electrical components in all machine circuits.

**Component Checks** 

#### Relay Check

Action:



TX1054856A-UN: Relay LEGEND: 1-Terminal 30 2-Terminal 85 3-Terminal 87 4-Terminal 87 5-Terminal 86

Turn key switch to OFF position.

Remove relay from machine.

Measure continuity between terminal 30 (1) and terminal 87A (3). Is continuity measured?

Connect battery voltage to terminal 86 (5). Ground terminal 85 (2). Does relay click?

With battery voltage still applied to terminal 86 (5), measure continuity between terminal 30 (1) and terminal 87 (4). Is continuity measured?

#### Result:

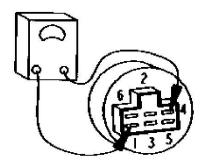
#### YES:

Relay is good. Check wiring harness. NO:

Replace relay.

#### 2 Key Switch Check

#### Action:



T8357AK-UN: Key Switch Check

LEGEND: 1-B Terminal 2-G1 Terminal 3-G2 Terminal 4-ACC Terminal 5-M Terminal 6-ST Terminal

Remove starter switch harness (W29) from key switch (S1).<u>See</u> <u>Starter Switch Harness (W29) Component Location</u>. (Group 9015-10.)

Turn key switch to ACC position.

Measure continuity between key switch B terminal (1) and ACC terminal (4).

Turn key switch to ON position.

Measure continuity between key switch B terminal (1) and M terminal (5) and between B terminal and ACC terminal (4).

Turn key switch to START position.

Measure continuity between key switch B terminal (1) and ST terminal (6), between B terminal and M terminal (5), and between B terminal and G2 terminal (3).

LOOK: Is continuity measured between terminals?

#### IMPORTANT:

Avoid connector damage. Do not install connector with impact wrench or power tools. Over torquing will result in permanent damage to connector. Torque only to specification.

Item MeasurementSpecification Cab Harness-to-Machine Harness 100-Pin Connector (X3) 10 N·m 89 Ib·in

#### Result:

#### YES:

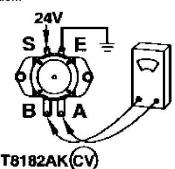
Key switch is OK. Check the wiring harness.<u>See Cab Harness</u> (W1) Wiring Diagramand<u>see Starter Switch Harness</u> (W29) Wiring Diagram. (Group 9015-10.)

NO:

Key switch has malfunctioned. Replace the key switch.

#### Battery Relay Check

Action:



T8182AK-UN: Battery Relay Check

Disconnect machine harness (W2) from battery relay (K19).<u>See</u> <u>Machine Harness (W2) Component Location</u>. (Group 9015-10.)

Connect 24 volts to small terminal S and ground small terminal E.

LISTEN: Does the relay click?

Connect the multimeter to large terminals A and B.

LOOK: Is continuity measured?

#### IMPORTANT:

Avoid connector damage. Do not install connector with impact wrench or power tools. Over torquing will result in permanent damage to connector. Torque only to specification.

tem	Measurem	entSpecification
Cab Harness-to-Machine Harness 100-Pin Connect (X3)	tor <sub>Torque</sub>	10 N·m 89 Ib·in

#### Result:

#### YES:

Battery relay is OK. Check the wiring harness.<u>See Machine</u> <u>Harness (W2) Wiring Diagram</u>. (Group 9015-10.) **NO:** 

Battery relay has malfunctioned. Replace the relay.

#### Battery Voltage Check

Action:



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