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› [Molloparts](#) /

› Molloparts Fuel Temperature Sensor RE521822 User Manual

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Molloparts Fuel Temperature Sensor RE521822 User Manual

Model: RE521822

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Molloparts Fuel Temperature Sensor, part number RE521822. This sensor is designed to accurately measure fuel temperature in compatible John Deere equipment, ensuring optimal engine performance and efficiency. Please read this manual thoroughly before installation or use.

2. PRODUCT OVERVIEW

2.1. Package Contents

- 1 x Fuel Temperature Sensor (Part Number: RE521822)

2.2. Key Features

- Direct replacement for original equipment.
- Manufactured to precise OEM requirements for accurate fit and reliable performance.
- Designed for easy installation.

3. COMPATIBILITY

The Molloparts Fuel Temperature Sensor RE521822 is compatible with various John Deere equipment models. Please verify the part number against your existing component or vehicle service manual to ensure correct fitment.

Compatible John Deere Models:

Engines: 6068, 4045, 3029

Axles: 1400, RE151971, RE68144

Backhoe Loaders: 310G, 310J, 410G, 410J, 710G, 310SG, 315SG, 310SJ, 315SJ, 325J, 410J, 444J, 770D

Crawlers: 450H, 550H, 650H

Crawler Dozers: 450J, 700J, 750J, 550J, 650J

Excavators: 120, 120C, 160C

Forklifts: 444JR

Forwarders: 1010D, 1110D, 1410D, 810D, 1070D, 810D

Harvesters: 1070D, 770D

Loaders: 210LE

Crawler Loaders: 605C

Four-Wheel Drive Loaders: 444J, 544J

Slash Bundlers: 1490

Telescopic Handlers: 3220, 3420, 3800

Log Skidders: 360D, 460D, 540G-III, 548G-III, 548GIII, 640G-III

Tractors: 6020, 6120, 6220, 6120L, 6220L, 6215, 6415, 6515, 6320, 6420, 6420S, 6320L, 6420L, 6520L, 6520, 6620, 6615, 6715, 7715, 7815, 7025J, 7185J, SE6020, SE6120, SE6220, SE6320, SE6420, SE6520, SE6620

Combines: W210

4. SAFETY INFORMATION

Always prioritize safety when working with vehicle components. Failure to follow safety precautions can result in injury or damage to equipment.

- **Disconnect Power:** Before beginning any installation or maintenance, disconnect the vehicle's battery to prevent electrical shorts or accidental activation.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Consult Service Manual:** Refer to the specific John Deere equipment's service manual for detailed instructions and torque specifications relevant to your model.
- **Fuel Handling:** Exercise extreme caution when working with fuel systems. Ensure adequate ventilation and be aware of potential fire hazards.
- **Professional Installation Recommended:** If you are not experienced with automotive or heavy equipment repair, it is recommended to seek assistance from a qualified technician.

5. SETUP AND INSTALLATION

The following are general steps for installing a fuel temperature sensor. Specific procedures may vary depending on the John Deere equipment model. Always consult your equipment's service manual for precise instructions.

1. **Locate the Sensor:** Identify the location of the existing fuel temperature sensor on your John Deere equipment. This is typically found within the fuel system, often on the fuel rail or fuel filter housing.
2. **Prepare for Removal:** Ensure the engine is cool and the ignition is off. Disconnect the negative terminal of the battery. Place a suitable container to catch any spilled fuel.
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Using an appropriate wrench, unscrew and remove the old fuel temperature sensor. Be prepared for a small amount of fuel leakage.
5. **Inspect Mounting Area:** Clean the sensor mounting area and inspect the threads for any damage.
6. **Install New Sensor:** Apply a small amount of thread sealant (if recommended by the equipment manufacturer) to the threads of the new Molloparts RE521822 sensor. Carefully thread the new sensor into place by hand to avoid cross-threading.
7. **Tighten Sensor:** Tighten the sensor to the manufacturer's specified torque using a torque wrench. *Do not overtighten.*
8. **Reconnect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring a secure connection.

9. **Reconnect Battery:** Reconnect the negative terminal of the battery.
10. **Check for Leaks:** Start the engine and carefully check for any fuel leaks around the newly installed sensor. Monitor the fuel temperature readings if available on your equipment's diagnostic system.



Figure 1: Main view of the Molloparts RE521822 Fuel Temperature Sensor. This image shows the brass body, threaded section, and the black electrical connector.



Figure 2: Side view of the sensor, highlighting the threaded section and the integrated O-ring for a secure seal.

6. OPERATION

The Molloparts Fuel Temperature Sensor RE521822 functions by continuously monitoring the temperature of the fuel within the system. It converts this temperature into an electrical signal, which is then sent to the equipment's Engine Control Unit (ECU). The ECU uses this data to adjust fuel injection timing, fuel-air mixture, and other engine parameters to optimize combustion efficiency, reduce emissions, and protect engine components from overheating or improper fuel conditions.



Figure 3: Close-up view of the sensor's electrical connector, showing the pin configuration for signal transmission.

7. MAINTENANCE

The fuel temperature sensor is generally a maintenance-free component. However, periodic inspection can help ensure its longevity and proper function.

- **Visual Inspection:** During routine engine maintenance, visually inspect the sensor and its electrical connector for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If accessible, gently clean any dirt or debris from the sensor's exterior and electrical connector using a soft cloth. Avoid using harsh chemicals that could damage the sensor material.
- **Connection Integrity:** Ensure the electrical connector remains securely attached and free from moisture or contaminants.

8. TROUBLESHOOTING

If you suspect an issue with your fuel temperature sensor, consider the following troubleshooting steps:

- **Engine Warning Light:** An illuminated "Check Engine" or "Malfunction Indicator Lamp" (MIL) on your dashboard may indicate a sensor fault. Diagnostic trouble codes (DTCs) related to fuel temperature can be retrieved using an OBD-II scanner (if applicable to your equipment).
- **Incorrect Fuel Temperature Readings:** If your equipment's diagnostic system shows erratic or implausible fuel temperature readings, the sensor may be faulty.
- **Poor Engine Performance:** While less common as a direct symptom, an incorrect fuel temperature signal can lead to suboptimal engine performance, fuel efficiency issues, or increased emissions.
- **Check Electrical Connections:** Ensure the sensor's electrical connector is clean, secure, and free from corrosion.
- **Wiring Inspection:** Inspect the wiring harness leading to the sensor for any cuts, fraying, or damage.
- **Sensor Testing:** Advanced testing may involve measuring the sensor's resistance at various temperatures, comparing it to manufacturer specifications. This typically requires specialized tools and knowledge.
- **Replacement:** If diagnostic tests confirm a sensor malfunction, replacement with a new Molloparts RE521822 sensor is recommended.

9. SPECIFICATIONS

Part Number	RE521822
Brand	Molloparts
Product Dimensions	1.97 x 1.97 x 1.97 inches
Item Weight	5 Ounces
UPC	734697504649



Figure 4: Top-down view of the sensor, showing the cylindrical temperature probe.



Figure 5: Angled view of the sensor, providing a comprehensive look at its construction.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or inquiries regarding the Molloparts Fuel Temperature Sensor RE521822, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question