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BESULEN 16238399

BESULEN Fuel Tank Pressure Sensor User Manual

Model: 16238399

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your BESULEN Fuel Tank Pressure Sensor. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Always observe the following safety precautions when working with automotive components:

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning any work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Work in a well-ventilated area.
- Refer to your vehicle's specific service manual for detailed instructions and safety warnings related to fuel system components.
- Fuel systems contain flammable liquids and vapors. Exercise extreme caution to prevent spills and ignition sources.

3. Product Overview

The BESULEN Fuel Tank Pressure Sensor is a critical component designed to monitor the pressure within your vehicle's fuel tank. This sensor provides data to the engine control unit (ECU) to ensure efficient fuel system operation and compliance with emissions standards. It is constructed from high-quality reinforced plastic for durability and resistance to extreme conditions.



Figure 1: BESULEN Fuel Tank Pressure Sensor, main view.

4. Specifications

Feature	Specification
Brand	BESULEN
Model Number	16238399
Material	Plastic
Item Weight	0.01 Kilograms (0.352 ounces)
Dimensions (L x W x H)	0.7 x 0.3 x 0.4 inches
Style	Pressure Sensor
Maximum Supply Voltage	12 Volts (DC)

Measurement Accuracy	Compliant with OEM specifications
Mounting Type	Flange Mount
Output Type	Digital

5. Compatibility

This BESULEN Fuel Tank Pressure Sensor is compatible with many vehicle models. Please verify the OEM part numbers to ensure proper fitment for your specific vehicle. Compatible OEM numbers include, but are not limited to:

- 16238399
- 16196060
- 12219388
- 12206740
- 16217059
- 16257276
- 22678829
- 8093776800
- 8122067400
- 8161960600
- 8162117490
- 8162383990
- 8162572760
- 8226788290
- 09377680
- 9377680
- AS302

Always cross-reference with your vehicle's existing part number or consult a professional if unsure about compatibility.

6. Installation (Setup)

The BESULEN Fuel Tank Pressure Sensor is designed for straightforward, plug-and-play installation. While the process is generally simple, specific steps may vary by vehicle model. It is recommended to consult your vehicle's service manual or a qualified mechanic for detailed, model-specific instructions.

General Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and turn off the ignition. Disconnect the negative terminal of the battery.
2. **Locate the Sensor:** The fuel tank pressure sensor is typically located on or near the fuel tank. Access may require lowering the fuel tank or removing other components.
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Depending on the mounting type, the old sensor may twist out or be secured with a clip. Remove it carefully.
5. **Install New Sensor:** Insert the new BESULEN sensor into its mounting location. Ensure it is securely seated and properly oriented.

6. **Connect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring a firm connection.
7. **Reassemble and Test:** Reinstall any components removed for access. Reconnect the battery. Start the vehicle and check for any warning lights or error codes.

Installation typically takes less than 15 minutes for experienced individuals. The sensor's compact size facilitates installation.



Figure 2: Sensor dimensions for reference during installation.



Figure 3: Detail of the sensor's electrical connector.

7. Operation

Once installed, the BESULEN Fuel Tank Pressure Sensor continuously monitors the pressure within the fuel tank. This data is transmitted to the vehicle's ECU, which uses it for various functions, including:

- **Evaporative Emission Control System (EVAP):** The sensor plays a key role in the EVAP system, which prevents fuel vapors from escaping into the atmosphere.
- **Fuel Gauge Accuracy:** Indirectly, the sensor's data can influence the accuracy of the fuel gauge by contributing to the overall fuel system health.
- **Engine Performance:** Proper fuel tank pressure is essential for optimal engine performance and fuel delivery.

The sensor operates automatically and requires no user intervention after installation.

8. Maintenance

The BESULEN Fuel Tank Pressure Sensor is designed to be maintenance-free. Regular inspection of the sensor and its wiring during routine vehicle maintenance is recommended to check for any visible damage, corrosion, or loose connections. If any issues are observed, replacement may be necessary.

9. Troubleshooting

A faulty fuel tank pressure sensor can lead to various issues. If you experience any of the following symptoms, consider inspecting or replacing your fuel tank pressure sensor:

- **Erratic Fuel Gauge Readings:** The fuel gauge may show inconsistent readings, such as dropping rapidly, suddenly going to zero, or even increasing.
- **Weak Acceleration:** Reduced engine performance, including weak acceleration, can be a symptom of an improperly functioning fuel system.
- **Difficulty Starting:** Issues with starting the vehicle may indicate problems with fuel pressure regulation.
- **Check Engine Light (CEL):** The illumination of the Check Engine Light, often accompanied by diagnostic trouble codes (DTCs) such as P0452 (Fuel Tank Pressure Sensor Low Input), indicates a problem with the EVAP system or the sensor itself.
- **Inability to Detect Fuel Pressure:** If the vehicle's diagnostic system cannot detect fuel pressure, the sensor may be faulty.

If these issues persist after sensor replacement, further diagnosis by a qualified mechanic is recommended to rule out other potential problems within the fuel or EVAP system.

10. Warranty and Support

BESULEN products are manufactured with high-quality materials and undergo rigorous testing and calibration to ensure reliability, durability, and performance. While specific warranty terms are not detailed in this manual, the product is designed to meet or exceed OEM specifications.
For technical support, warranty claims, or any questions regarding your BESULEN Fuel Tank Pressure Sensor, please contact the seller or BESULEN customer service directly. Provide your product model number (16238399) and purchase details for efficient assistance.

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