LadyCent 4670A573

LadyCent ABS Wheel Speed Sensor User Manual

Model: 4670A573 | Brand: LadyCent

Product Overview

This manual provides essential information for the installation, operation, and maintenance of the LadyCent ABS Wheel Speed Sensor. Please read this manual thoroughly before installation and use.

Figure 1: Overall view of the LadyCent ABS Wheel Speed Sensor.

Figure 2: The sensor features a standard 2-pin connector for secure electrical connection.

Key Features:

- **OEM Standard:** Designed to meet or exceed original equipment manufacturer standards for direct replacement.
- **Durable Construction:** Made from high-quality plastic and metal materials for smooth surface, durability, and lasting performance.
- **Stable Performance:** Each sensor is 100% factory tested to ensure reliable operation and a long service life.
- **Fault Code Resolution:** Efficiently addresses issues such as illuminated ABS and traction control lights, helping to clear associated fault codes.
- **Fast Response:** Provides stable signal output and fast response time for accurate wheel speed detection.

Applicable Vehicle Models:

- Mitsubishi Lancer: 2007-2009
- Mitsubishi Lancer 2.0L L4: 2007-2010
- Mitsubishi Lancer 2.4L L4: 2009-2010
- Mitsubishi Outlander 2.4L L4: 2008-2012

- Mitsubishi Outlander 3.0L V6: 2007-2012

Note: Please verify the OE part number (4670A573, 4670A574, 4670A575, 4670A576) to ensure compatibility with your specific vehicle model before purchase.

Setup and Installation

This section outlines the general steps for installing the ABS wheel speed sensor. Professional installation is highly recommended due to the critical nature of this component to vehicle safety systems.

Required Tools (Not Included):

- Vehicle Jack and Jack Stands
- Lug Wrench
- Socket Set (appropriate sizes for wheel nuts and sensor mounting bolts)
- Torque Wrench
- Wire Brush (for cleaning mounting surfaces)

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels that will remain on the ground.
2. **Lift and Secure:** Using a vehicle jack, lift the corner of the vehicle where the sensor is to be replaced. Place jack stands securely under the vehicle frame.
3. **Remove Wheel:** Loosen the lug nuts and remove the wheel from the vehicle.
4. **Locate Old Sensor:** Identify the existing ABS wheel speed sensor. It is typically located near the wheel hub assembly.
5. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor. Avoid pulling on the wires.
6. **Remove Mounting Bolts:** Unscrew any bolts or clips securing the old sensor and its wiring harness to the vehicle.
7. **Remove Old Sensor:** Gently remove the old sensor from its mounting location.
8. **Clean Mounting Area:** Clean any rust, dirt, or debris from the sensor mounting surface using a wire brush to ensure proper seating of the new sensor.
9. **Install New Sensor:** Insert the new LadyCent ABS wheel speed sensor into the mounting hole. Ensure it is fully seated and aligned correctly.
10. **Secure New Sensor:** Reinstall any mounting bolts or clips, tightening them to the manufacturer's specified torque (refer to your vehicle's service manual).
11. **Connect Electrical Connector:** Firmly connect the electrical connector to the new sensor until it clicks into place. Ensure the wiring harness is routed correctly and secured with any original clips.
12. **Reinstall Wheel:** Place the wheel back onto the hub, hand-tighten the lug nuts, then lower the vehicle until the tire just touches the ground.
13. **Final Torque:** Torque the lug nuts to the vehicle manufacturer's specifications in a star pattern.
14. **Lower Vehicle:** Fully lower the vehicle and remove the jack and jack stands.

Figure 3: Detail of the mounting clip on the sensor cable, ensuring secure routing.

Figure 4: The 2-pin electrical connector for the ABS sensor, designed for a secure fit.

Operating Principles

The ABS wheel speed sensor is a critical component of your vehicle's Anti-lock Braking System (ABS) and Traction Control System (TCS). It monitors the rotational speed of each wheel and sends this data to the vehicle's Engine Control Unit (ECU) or ABS control module.

When the system detects a wheel locking up during braking (ABS) or spinning excessively during acceleration (TCS), it modulates brake pressure or engine power to maintain traction and control. A properly functioning wheel speed sensor ensures accurate data transmission, which is vital for the correct operation of these safety systems.

Maintenance

The LadyCent ABS Wheel Speed Sensor is designed for long-term durability and typically requires minimal maintenance once installed correctly. However, periodic inspection can help ensure its continued optimal performance.

Inspection Guidelines:

- **Visual Check:** During routine vehicle maintenance (e.g., tire rotations, brake inspections), visually inspect the sensor and its wiring harness for any signs of physical damage, fraying, or corrosion.
- **Cable Routing:** Ensure the sensor cable remains securely fastened along its intended path and is not rubbing against moving parts or sharp edges.
- **Connector Integrity:** Verify that the electrical connector is clean, dry, and securely plugged into the sensor.
- **Cleanliness:** While the sensor is designed to operate in harsh environments, excessive buildup of dirt, mud, or debris around the sensor tip can potentially interfere with its readings. If accessible, gently clean the sensor tip with a soft brush or cloth.

Note: Do not use harsh chemicals or abrasive materials for cleaning, as these may damage the sensor.

Troubleshooting

If you experience issues related to your ABS or traction control system after sensor installation, or if the ABS/TCS warning lights illuminate, consider the following troubleshooting steps. Professional diagnostic services are recommended for accurate problem identification.

Common Issues and Solutions:

Symptom	Possible Cause	Solution
ABS/TCS warning light illuminated	Faulty sensor, loose connection, damaged wiring, or issue with ABS control module.	Check sensor connection for security. Inspect wiring for visible damage. Scan vehicle for diagnostic trouble codes (DTCs) using an OBD-II scanner. If sensor is confirmed faulty, replace it.
Incorrect speedometer reading	Faulty wheel speed sensor (less common for ABS sensors, but possible).	Verify sensor installation and connection. Consult a professional for diagnosis.
Intermittent ABS/TCS activation	Loose sensor, debris on sensor tip, or intermittent electrical connection.	Ensure sensor is securely mounted. Clean sensor tip if accessible. Check connector for corrosion.

Always consult a certified automotive technician for complex diagnostic and repair procedures.

Specifications

Attribute	Detail
Brand	LadyCent
Model Number	4670A573 (and compatible OE numbers: 4670A574, 4670A575, 4670A576)
Material	Plastic, Metal

Attribute	Detail
Mounting Type	Flange Mount
Output Type	Push-Pull
Specific Uses	Automotive ABS/TCS systems
Country of Origin	China

Support and Warranty

LadyCent is committed to providing excellent customer service. If you have any questions regarding the installation, operation, or performance of your ABS Wheel Speed Sensor, please do not hesitate to contact us.

Customer Support:

We offer 24-hour online service to assist you. For support, please refer to the contact information provided with your purchase or visit the official LadyCent support page.

Warranty Information:

This product comes with a quality warranty. For specific details regarding the warranty period and terms, please refer to the documentation included with your purchase or contact LadyCent customer service. The warranty typically covers defects in materials and workmanship under normal use.