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GELUOXI 0105427717

GELUOXI Suspension Height Level Sensor 0105427717 User Manual

Model: 0105427717

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your GELUOXI Suspension Height Level Sensor. This sensor is a critical component in your vehicle's air suspension system, designed to monitor and maintain the correct ride height for optimal vehicle performance, safety, and comfort. Please read this manual thoroughly before installation and use.

2. Product Overview

The GELUOXI Suspension Height Level Sensor (Model 0105427717) is a direct replacement part engineered to meet or exceed OEM specifications. It plays a vital role in the vehicle's suspension system by providing accurate height data to the control unit, allowing for precise adjustments to maintain the intended ride level.

2.1 OEM Part Numbers

- 0105427717
- A0105427717
- 010 542 77 17
- A 010 542 77 17
- 010934586
- V30-72-0173

2.2 Compatible Mercedes-Benz Models

This sensor is compatible with various Mercedes-Benz models. Please verify the OEM part number against your vehicle's existing part or consult a professional to ensure proper fitment.

- C-CLASS (W202) (1993/03 - 2000/05)
- E-CLASS (W210) (1995/06 - 2003/08)
- C-CLASS Estate (S202) (1996/06 - 2001/03)
- E-CLASS Estate (S210) (1996/06 - 2003/03)
- SLK (R170) (1996/04 - 2004/04)

- CLK (C208) (1997/06 - 2002/09)
- M-CLASS (W163) (1998/02 - 2005/06)
- CLK Convertible (A208) (1998/03 - 2002/03)
- S-CLASS (W220) (1998/10 - 2005/08)
- S-CLASS Coupe (C215) (1999/03 - 2006/08)
- C-CLASS (W203) (2000/05 - 2007/08)
- C-CLASS Coupe (CL203) (2001/03 - 2011/06)
- C-CLASS T-Model (S203) (2001/03 - 2007/08)
- E-CLASS (W211) (2002/03 - 2009/03)
- CLK (C209) (2002/06 - 2009/05)
- CLS (C219) (2004/10 - 2011/02)
- A-CLASS (W169) (2004/09 - 2012/06)
- B-CLASS (W245) (2005/03 - 2011/11)
- M-CLASS (W164) (2005/07 - Present)
- S-CLASS (W221) (2005/09 - Present)
- R-CLASS (W251, V251) (2006/01 - Present)
- GL-CLASS (X164) (2006/09 - Present)
- S-CLASS Coupe (C216) (2006/05 - Present)
- CLC-CLASS (CL203) (2008/05 - 2011/06)
- GL450, R320, E63 AMG, ML320, GL320 (2007-2009)
- CL65 AMG, E500 (2005-2006)
- CL65 AMG (2008-2012)
- CL600 (2001-2012)
- CLK350, E350 (2006-2009)
- R63 AMG (2007)
- C240 (2001-2005)
- SLK320 (2001-2004)
- CL500 (2000-2006)
- C32 AMG (2002-2004)
- S400, GL350 (2010-2012)
- S600 (2001-2012)
- S65 AMG (2006-2012)
- SLK230 (2001-2004)
- C230 (2002-2007)
- CL63 AMG, S63 AMG (2008-2010)
- ML63 AMG (2007-2011)
- CLK63 AMG (2007-2008)
- C280, R500, ML500, C350 (2006-2007)
- C320 (2001-2005)
- S430 (2000-2006)
- E320 (2005-2009)
- R350 (2006-2012)
- S500 (2000-2006)
- ML350 (2009-2011)
- CLK320 (2003)

- CLK500 (2003-2006)
- S350 (2006-2012)



Figure 1: Two GELUOXI Suspension Height Level Sensors, showing the main body and lever arm from an angled perspective.

3. Setup and Installation

Installation of a suspension height level sensor requires specific automotive knowledge and tools. It is highly recommended that installation be performed by a qualified professional technician to ensure correct fitment, calibration, and vehicle safety.

3.1 Safety Precautions

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure the vehicle is securely supported on jack stands or a lift. Never work under a vehicle supported only by a jack.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Refer to your vehicle's specific service manual for detailed instructions on accessing and replacing the height sensor.

3.2 General Installation Steps (Consult Vehicle Manual for Specifics)

1. Locate the existing height level sensor on your vehicle. Sensors are typically found near the suspension components, often connected to the control arm.
2. Carefully disconnect the electrical connector from the old sensor.
3. Remove any mounting bolts or clips securing the old sensor and its linkage arm.
4. Remove the old sensor.
5. Install the new GELUOXI sensor in the reverse order of removal, ensuring all mounting points are secure and the linkage arm is correctly attached.
6. Reconnect the electrical connector.
7. After installation, it may be necessary to perform a calibration procedure using a diagnostic tool to ensure the vehicle's suspension system recognizes the new sensor and maintains the correct ride height. Refer to your vehicle's service manual for calibration procedures.



Figure 2: Bottom view of two sensors, highlighting the multi-pin electrical connectors for vehicle integration.



Figure 3: Top view of two sensors, illustrating the mounting points and the pivot mechanism of the lever arm.

4. Operating Instructions

Once properly installed and calibrated, the GELUOXI Suspension Height Level Sensor operates automatically as part of your vehicle's air suspension system. It continuously monitors the distance between the vehicle's chassis and the road surface (or suspension component) and sends this data to the electronic control unit (ECU).

- **Automatic Adjustment:** The ECU uses the sensor's input to command the air suspension compressor and valves to inflate or deflate air springs, thereby adjusting the vehicle's ride height to the optimal level.
- **Dynamic Response:** The sensor helps the system respond to changes in load (e.g., passengers, cargo) or road conditions, ensuring a consistent and stable ride.
- **Error Detection:** If the sensor detects an out-of-range reading or malfunctions, it may trigger a warning light on the dashboard and/or store a diagnostic trouble code (DTC) in the vehicle's ECU.



Figure 4: Side view of two sensors, showing the profile of the main body and the lever arm in a neutral position.

5. Maintenance

The GELUOXI Suspension Height Level Sensor is designed for durability and minimal maintenance. However, periodic inspection can help ensure its longevity and proper function.

- **Visual Inspection:** During routine vehicle service, visually inspect the sensor and its linkage arm for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Keep the sensor free from excessive dirt, mud, or debris, which could impede the movement of the linkage arm or affect sensor readings. Use a mild cleaner and soft cloth if cleaning is necessary.
- **Linkage Check:** Ensure the linkage arm moves freely without excessive play or binding.
- **Wiring:** Check the electrical wiring and connector for fraying, cracks, or signs of rodent damage.



Figure 5: Another side profile of the two sensors, providing a different angle of the lever arm and housing.

6. Troubleshooting

If you experience issues with your vehicle's suspension system, the height level sensor may be a contributing factor. Common symptoms of a faulty height sensor include:

- Incorrect ride height (vehicle too high or too low).
- Uneven ride height (one side or corner of the vehicle is lower/higher than others).
- Suspension warning lights on the dashboard.
- Constant operation of the air compressor.
- Diagnostic Trouble Codes (DTCs) related to suspension height sensors.

6.1 Diagnostic Steps

1. **Check for DTCs:** Use an OBD-II scanner to retrieve any stored diagnostic trouble codes. Specific codes can point directly

to a sensor malfunction.

2. **Visual Inspection:** Re-inspect the sensor and its wiring for any obvious damage, corrosion, or loose connections.
3. **Sensor Output Check:** A professional technician can use a diagnostic tool to monitor the live data output from the height sensor. This can help determine if the sensor is providing accurate readings.
4. **Wiring Continuity:** Check the continuity of the sensor's wiring harness to ensure there are no breaks or shorts.

If troubleshooting indicates a faulty sensor, replacement is typically the solution. Always ensure proper calibration after replacement.



Figure 6: Top-down view of two sensors, showing the overall shape and the pivot points of the lever arms.

7. Specifications

Feature	Specification

Feature	Specification
Brand	GELUOXI
Model Number	0105427717
Style	Modern
Maximum Supply Voltage	16 Volts (DC)
Measurement Accuracy	±1.5%
Measuring Range	5.1 - 13.4 inches
Mounting Type	Flange Mount
Output Type	Digital
Sensing Distance	13.4 Inches
Upper Temperature Rating	302 Degrees Fahrenheit
Item Weight	6.4 ounces
Package Dimensions	4.29 x 2.76 x 2.05 inches

8. Warranty Information

For specific warranty terms and conditions regarding your GELUOXI Suspension Height Level Sensor, please refer to the documentation provided with your purchase or contact the seller directly. Warranty coverage typically addresses manufacturing defects under normal operating conditions.

9. Support

If you require technical assistance, have questions about installation, or need to report a product issue, please contact the GELUOXI customer support or the retailer from whom you purchased the product. Provide your product model number (0105427717) and any relevant vehicle information when seeking support.

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