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› AUTO-GETHER Oxygen Sensor Assembly 39210-2E850 User Manual

AUTO-GETHER 39210-2E850

AUTO-GETHER Oxygen Sensor Assembly

MODEL: 39210-2E850

User Manual

1. Introduction

Thank you for choosing the AUTO-GETHER Oxygen Sensor Assembly. This manual provides essential information for the proper installation, operation, and maintenance of your new oxygen sensor. Please read this manual thoroughly before attempting any installation or service to ensure safe and correct usage.

The oxygen sensor is a critical component in your vehicle's engine management system, playing a vital role in monitoring exhaust gases to optimize fuel efficiency and reduce emissions.

2. Product Overview

The AUTO-GETHER Oxygen Sensor Assembly (OE NO.: 39210-2E850) is designed as a direct replacement part for compatible vehicles. It measures the oxygen content in the exhaust gas and sends this data to the engine control unit (ECU) to help maintain the optimal air-fuel ratio.

Package Contents:

- 1 pc (set) * Oxygen Sensor Assembly (39210-2E850)



Image 1: AUTO-GETHER Oxygen Sensor Assembly, showing the sensor tip, wiring, and electrical connector.



Image 2: AUTO-GETHER Oxygen Sensor Assembly, illustrating the sensor body and connector from another perspective.

3. Specifications

Feature	Detail
OE Part Number	39210-2E850 / 392102E850
Brand	AUTO-GETHER
Mounting Type	Flange Mount
Manufacturer	AUTO-GETHER
First Available Date	July 3, 2023

4. Setup and Installation

Important Safety Information: Installation of automotive parts can be complex and may require specialized tools and knowledge. Incorrect installation can lead to vehicle damage, personal injury, or improper vehicle operation. It is highly recommended that installation be performed by a qualified automotive technician.

Always disconnect the vehicle's battery before beginning any electrical work. Allow the engine and exhaust system to cool completely before handling the oxygen sensor to prevent burns.

General Installation Steps (Consult your vehicle's service manual for specific instructions):

1. **Preparation:** Ensure the engine is off and cool. Disconnect the negative terminal of the vehicle's battery.
2. **Locate the Sensor:** Identify the faulty oxygen sensor. Oxygen sensors are typically located in the exhaust manifold or exhaust pipe.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old oxygen sensor. Avoid pulling directly on the wires.
4. **Remove Old Sensor:** Use an oxygen sensor socket or an appropriate wrench to loosen and remove the old sensor. It may be tight due to heat and corrosion.
5. **Install New Sensor:** Apply a small amount of anti-seize compound (if not pre-applied) to the threads of the new AUTO-GETHER oxygen sensor. Carefully thread the new sensor into the exhaust bung by hand to avoid cross-threading.
6. **Tighten Sensor:** Use the oxygen sensor socket or wrench to tighten the sensor to the manufacturer's specified torque. Do not overtighten.
7. **Connect Wiring:** Reconnect the electrical connector securely. Ensure the wiring is routed away from hot exhaust components and moving parts.
8. **Final Steps:** Reconnect the vehicle's battery. Start the engine and check for any exhaust leaks or warning lights.

5. Operating Principles

The oxygen sensor, also known as an O₂ sensor, measures the proportion of oxygen in the exhaust gas. This measurement is crucial for the engine's computer (ECU) to determine if the engine is running rich (too much fuel, too little oxygen) or lean (too little fuel, too much oxygen).

Based on the sensor's readings, the ECU adjusts the fuel injection and ignition timing to maintain an optimal air-fuel ratio, which is essential for efficient combustion, reduced emissions, and proper catalytic converter operation.

6. Maintenance

Oxygen sensors are wear-and-tear components and are not typically user-serviceable or repairable. Their lifespan can vary depending on driving conditions, fuel quality, and engine health.

It is recommended to have your vehicle's engine management system, including oxygen sensor performance, checked periodically by a qualified technician as part of your routine vehicle maintenance schedule.

7. Troubleshooting

A faulty oxygen sensor can manifest in several ways. If you experience any of the following symptoms, it may indicate an issue with your oxygen sensor or another component in the engine management system:

- **Check Engine Light:** The most common indicator. Diagnostic trouble codes (DTCs) related to oxygen

sensor circuits or performance will often be stored.

- **Decreased Fuel Economy:** An inaccurate sensor can cause the engine to run rich, consuming more fuel.
- **Rough Idling or Stalling:** Incorrect air-fuel mixture can lead to poor engine performance.
- **Failed Emissions Test:** High levels of pollutants in the exhaust.
- **Sulfur or Rotten Egg Smell from Exhaust:** Can indicate an overly rich condition or catalytic converter issues.

If you suspect a problem with your oxygen sensor, it is advisable to have your vehicle diagnosed by a professional automotive technician. They can use specialized diagnostic tools to read trouble codes and analyze sensor data to pinpoint the exact cause of the issue.

8. Warranty and Support

For information regarding warranty coverage or technical support for your AUTO-GETHER Oxygen Sensor Assembly, please contact AUTO-GETHER directly through their official channels or the retailer from whom the product was purchased.

Please have your purchase details and the product's OE part number (39210-2E850) available when contacting support.