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› TRQ O2 Oxygen Sensor OSA61262 User Manual

TRQ OSA61262

TRQ O2 Oxygen Sensor User Manual

MODEL: OSA61262

Comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your TRQ O2 Oxygen Sensor.

1. Introduction

The TRQ O2 Oxygen Sensor is a critical component designed to optimize your vehicle's emission system. Manufactured to precise specifications using premium raw materials, it helps restore engine performance, improve fuel economy, and lower emissions.

This sensor is compatible with specific Nissan and Infiniti models:

- **1999-2000 Nissan Maxima V6 3.0L** with California Emissions (Downstream Rear)
- **2001 Nissan Pathfinder V6 3.5L** (To 8/31/00 Production Date, Downstream Right)
- **2001 Nissan Maxima V6 3.0L** (Downstream Rear)
- **2000-2001 Infiniti I30 V6 3.0L** (Downstream Rear)
- **1998 Nissan Maxima V6 3.0L** with California Emissions (From 6/01/98 Production Date, Downstream Rear)
- **2001 Infiniti QX4 V6 3.5L** (To 9/30/01 Production Date, Downstream Right)
- **1999 Infiniti I30 V6 3.0L** with California Emissions (Downstream Rear)

Product Features:

- **Application Specific Design:** No modifications required and pre-calibrated for direct fit.
- **Isotatic-pressed and plasma-sprayed:** For extended service life and improved sensitivity.
- **Double-Layered 310S Stainless Steel:** Provides additional protection from moisture and debris.
- **Restored Engine Performance:** Contributes to improved fuel economy and lower emissions.



Figure 1: TRQ O2 Oxygen Sensor (Model OSA61262) in its retail packaging.

2. Setup and Installation

Installation of an oxygen sensor requires specific tools and mechanical knowledge. It is recommended to consult a professional mechanic or refer to detailed vehicle-specific repair manuals. TRQ provides a vast library of "View Before You Do" installation videos to assist with the process, ensuring you have expert guidance from start to finish.

Before You Begin:

- Ensure the vehicle is cool and safely supported on jack stands or a lift.
- Disconnect the vehicle's battery to prevent electrical issues.
- Gather necessary tools, including an oxygen sensor socket, wrench, and appropriate safety gear.
- Verify fitment of the new sensor with your specific vehicle model and production date.



Figure 2: The TRQ O2 Oxygen Sensor, showing the sensor probe, wiring, and electrical connector.



Figure 3: Detailed view of the sensor's 4-wire male blade-type electrical connector.



Figure 4: Close-up of the sensor's thimble design and threaded tip, ready for installation.



IMPORTANT



**VERIFY FITMENT
BEFORE PLACING YOUR ORDER.**

Complete fitment information
in the Product Description below.

Figure 5: Always verify product fitment for your specific vehicle before installation.

INSTALLATION VIDEO INCLUDED

1 BILLION
VIEWS



EXCLUSIVE ACCESS
OUR EXPERT MECHANICS PROVIDE **STEP-BY-STEP**
INSTRUCTIONS, PERSONALIZED TO **YOUR VEHICLE**.

Figure 6: TRQ offers extensive installation videos to guide you through the repair process.

3. Operation

Once installed, the O2 Oxygen Sensor continuously monitors the oxygen content in the exhaust gases. This data is sent to the vehicle's engine control unit (ECU), which then adjusts the air-fuel mixture for optimal combustion. A properly functioning oxygen sensor ensures efficient engine operation, reduced harmful emissions, and improved fuel efficiency.

After installation, it may take some driving cycles for the vehicle's computer to recognize the new sensor and clear any related check engine lights. If the check engine light persists, further diagnosis may be required.

4. Maintenance

Oxygen sensors are wear-and-tear items and their performance degrades over time. It is generally recommended to replace oxygen sensors every 60,000 miles to maintain optimal engine performance and fuel economy. Replacing sensors in sets (e.g., both upstream and downstream, or all sensors if applicable) is often advised to ensure balanced readings and prevent future issues.

Regular vehicle maintenance, including timely oil changes and air filter replacements, can also contribute to the longevity of your oxygen sensors by ensuring clean engine operation.

5. Troubleshooting

If you experience issues after installing your new TRQ O2 Oxygen Sensor, consider the following common troubleshooting steps:

- **Check Engine Light (CEL) Remains On:** Even after installation, the CEL might not clear immediately. Drive the vehicle for several driving cycles (a mix of city and highway driving) to allow the ECU to complete its diagnostic tests. If it persists, use an OBD2 scanner to retrieve diagnostic trouble codes (DTCs) for further analysis.
- **Incorrect Sensor Reading/Performance:** Ensure the correct sensor was installed for the specific location (upstream/downstream, bank 1/bank 2) and vehicle application. Verify all electrical connections are secure and free from corrosion.
- **Heater Circuit Errors:** Some diagnostic codes relate to the sensor's heater circuit. This could indicate a faulty sensor, wiring issue, or a problem with the vehicle's electrical system.
- **Poor Fuel Economy or Engine Performance:** While a new sensor should improve these, other underlying issues (e.g., faulty spark plugs, clogged fuel injectors, vacuum leaks) can mimic O2 sensor problems. A thorough diagnostic by a qualified mechanic is recommended.

If you are unable to resolve the issue, it is advisable to seek assistance from a certified automotive technician.

6. Specifications

Detailed technical specifications for the TRQ O2 Oxygen Sensor (Model OSA61262):

Attribute	Value
Thread Diameter	0.71 in (18 mm)
Wrench Size	0.87 in (22 mm)
Overall Length	40.94 in (1040 mm)
Wiring Harness Length	35.24 in (895 mm)
Terminal Quantity	4
Wire Quantity	4
Terminal Type	Blade
Thread Size	M18x1.5-6e
Terminal Gender	Male
Connector Gender	Male
Sensor Type	Narrow-Band
Universal Or Specific Fit	Specific
Connector Shape	Square
Grade Type	Standard Replacement

Attribute	Value
Mounting Type	Threaded
Heated	Yes
Sensor Design	Thimble
Material	Stainless Steel
Item Weight	6.56 ounces
Product Dimensions	8 x 11 x 2 inches

7. Warranty Information

TRQ products are built to strict quality standards and undergo rigorous testing to ensure reliability and durability. For specific warranty terms and conditions, please refer to the warranty documentation included with your product or visit the official TRQ website. TRQ is committed to delivering Trusted Reliable Quality.

8. Support

For additional support, technical assistance, or to explore other TRQ products, please visit the official TRQ Store:

[Visit the TRQ Store on Amazon](#)

You can also refer to the extensive "View Before You Do" video library for detailed installation guides and tips.

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