DASPARTS 06A919501A

DASPARTS 06A919501A Coolant Temperature Sensor User Manual

Model: 06A919501A

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your DASPARTS 06A919501A Coolant Temperature Sensor. Please read this manual thoroughly before installation to ensure proper function and safety. This sensor is designed for specific VW, Audi, and Porsche vehicle applications.

2. Safety Information

- Always disconnect the vehicle's battery before performing any electrical work.
- Allow the engine to cool completely before working on the cooling system to prevent burns from hot coolant.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Dispose of old coolant responsibly according to local regulations.

3. Package Contents

Verify that all items are present in the package:

- 1 x DASPARTS 06A919501A Coolant Temperature Sensor
- 1 x O-ring seal
- 1 x Retaining clip

Figure 1: Main components of the DASPARTS 06A919501A Coolant Temperature Sensor package. This image shows the sensor body, the rubber O-ring, and the metal retaining clip.

4. Product Overview

The DASPARTS 06A919501A is an engine coolant temperature sensor designed to monitor the temperature of the engine's coolant. This information is crucial for the engine control unit (ECU) to adjust fuel injection, ignition timing, and cooling fan operation, ensuring optimal engine performance and efficiency.

Figure 2: Detailed view of the sensor, highlighting the electrical connector and the brass sensor tip. The retaining clip and O-ring are also visible.

Figure 3: Angled close-up of the brass sensor tip, which is immersed in the coolant to measure its temperature.

5. Specifications

Feature	Detail
Model Number	06A919501A
Brand	DASPARTS
Measurement Accuracy	±1.5%
Mounting Type	Plug Mount
Output Type	Electrical Signal
Compatible Vehicles	VW, Audi, Porsche (specific models, verify fitment)
Package Dimensions	7.99 x 4.41 x 2.52 inches
Item Weight	1.13 ounces

6. Installation

Tools Required: Appropriate wrench/socket set, coolant drain pan, new coolant (if necessary), pliers (for hose clamps), clean rags.

1. **Prepare the Vehicle:** Park the vehicle on a level surface and ensure the engine is completely cool. Disconnect the negative terminal of the vehicle's battery.
2. **Locate the Sensor:** Consult your vehicle's service manual to locate the existing coolant temperature sensor. It is typically found on the engine block, cylinder head, or a coolant hose housing.
3. **Drain Coolant:** Place a drain pan under the radiator or the lowest point of the cooling system. Open the radiator drain cock or disconnect a lower radiator hose to drain a sufficient amount of coolant to bring the level below the sensor's location. This minimizes coolant loss during sensor replacement.
4. **Remove Old Sensor:**
    - Carefully disconnect the electrical connector from the old sensor.
    - Remove the retaining clip that secures the sensor in place.
    - Gently pull the old sensor out of its housing. Be prepared for a small amount of coolant to spill.
5. **Install New Sensor:**
    - Ensure the new O-ring is properly seated on the DASPARTS 06A919501A sensor.
    - Insert the new sensor into the housing, ensuring it is fully seated.
    - Secure the sensor with the new retaining clip. Ensure the clip is fully engaged.
    - Reconnect the electrical connector to the new sensor, ensuring a secure connection.
6. **Refill Coolant:** Close the radiator drain cock or reattach the lower radiator hose. Refill the cooling system with the appropriate type and amount of coolant as specified by your vehicle manufacturer.
7. **Bleed Air from System:** Start the engine and allow it to reach operating temperature with the heater on full hot. Monitor the coolant level and add more as needed. Ensure all air is bled from the cooling system. Consult your vehicle's manual for specific air bleeding procedures.
8. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
9. **Test:** Check for any leaks around the new sensor. Monitor the engine temperature gauge during a test drive to ensure normal operation.

7. Operation

Once installed, the DASPARTS 06A919501A Coolant Temperature Sensor continuously measures the engine coolant temperature. It sends an electrical signal proportional to the temperature to the vehicle's Engine Control Unit (ECU). The ECU uses this data to:

- Adjust fuel mixture for optimal combustion.
- Control ignition timing.
- Activate the cooling fan when the engine reaches a predetermined temperature.
- Provide temperature readings to the dashboard gauge.

Proper operation of this sensor is vital for engine efficiency, emissions control, and preventing overheating.

8. Maintenance

The DASPARTS 06A919501A Coolant Temperature Sensor is generally a maintenance-free component.

However, regular maintenance of your vehicle's cooling system can prolong its lifespan and ensure accurate readings:

- **Coolant Level:** Regularly check and maintain the correct coolant level in your vehicle's reservoir.
- **Coolant Quality:** Ensure the coolant is clean and free of debris or corrosion. Flush and replace coolant according to your vehicle manufacturer's recommendations.
- **Leak Inspection:** Periodically inspect the sensor and surrounding hoses for any signs of coolant leaks.
- **Wiring:** Check the electrical connector and wiring for any signs of damage or corrosion.

9. Troubleshooting

If you experience issues after installing the sensor, consider the following:

Symptom	Possible Cause	Solution
Engine temperature gauge not working or erratic	Loose electrical connection, air in cooling system, faulty sensor (rare for new part)	Check electrical connector. Bleed cooling system thoroughly. Verify sensor installation.
Check Engine Light (CEL) with P0117, P0118, P0119 codes	Sensor wiring issue, incorrect sensor reading, air in system	Inspect wiring for damage. Ensure proper coolant level and bleed air. If codes persist, consult a professional.
Coolant leak around sensor	Improperly seated O-ring, damaged O-ring, retaining clip not fully engaged	Ensure O-ring is correctly positioned and undamaged. Verify retaining clip is fully secured.
Engine overheating or running cold	Faulty sensor, air in cooling system, other cooling system issues	Confirm sensor is correctly installed and connected. Bleed air. If problem persists, diagnose other cooling system components (thermostat, water pump, radiator).

Note: *If you are unsure about any troubleshooting steps, it is recommended to consult a qualified automotive technician.*

10. Warranty and Support

For warranty information or technical support regarding your DASPARTS 06A919501A Coolant Temperature Sensor, please refer to the documentation provided with your purchase or contact DASPARTS customer service directly. Keep your proof of purchase for warranty claims.
DASPARTS Customer Service: Please visit the official DASPARTS website or your retailer's support page for contact details.