



Manuals.plus /

› Stant /

› Stant OE Type Thermostat, Stainless Steel - User Manual

Stant 13359

Stant OE Type Thermostat, Stainless Steel - User Manual

Model: 13359

1. INTRODUCTION

This manual provides essential information for the Stant OE Type Thermostat, Model 13359. This thermostat is designed to meet original equipment specifications, ensuring reliable performance in your vehicle's cooling system. It is constructed from durable materials, including stainless steel, for a long operational life and smooth performance. Proper installation and maintenance are crucial for optimal engine temperature regulation.

2. PRODUCT FEATURES

- **Original Equipment Design:** Engineered to match the fit and function of the vehicle's original thermostat.
- **Durable Material:** Constructed from high-quality materials for extended service life.
- **Stainless Steel Assembly:** Features a stainless steel assembly for smooth and consistent operation.
- **Precise Temperature Regulation:** Designed to open and close at specific temperatures to maintain optimal engine operating temperature.

3. COMPATIBILITY

The Stant OE Type Thermostat (Model 13359) is compatible with a wide range of vehicles. Please verify fitment for your specific vehicle's make, model, and engine size before installation. Examples of compatible vehicles include:

- (1969-91) Chevrolet Corvette (5.7L)
- (1969-94) Chevrolet Blazer (5.7L)
- (1975-95) Chevrolet G20 (5.7L)
- (1975-96) Chevrolet G30 (5.7L)
- (1979-95) GMC C1500 (5.7L)
- (1979-95) GMC K1500 (5.7L)
- (1980-94) Ford F-150 (5.0L)

- (1987-01) Jeep Cherokee (4.0L)
- (1987-02) Jeep Wrangler (2.5L)
- (1987-03) Dodge Dakota (3.9L)
- (1988-95) Chevrolet C1500 (4.3L)
- (1988-95) Chevrolet C1500 (5.7L)
- (1988-95) Chevrolet C2500 (5.7L)
- (1988-95) Chevrolet K1500 (5.7L)
- (1988-95) Chevrolet K2500 (5.7L)
- (1991-06) Jeep Wrangler (4.0L)
- (1993-04) Jeep Grand Cherokee (4.0L)
- (1994-01) Dodge Ram 1500 (5.2L)
- (1994-02) Dodge Ram 2500 (5.9L)
- (1994-03) Dodge Ram 1500 (5.9L)

4. SETUP AND INSTALLATION

Installation of a thermostat typically involves working with the vehicle's cooling system. It is highly recommended that installation be performed by a qualified automotive technician. If you choose to perform the installation yourself, please follow your vehicle manufacturer's service manual for specific procedures.

Safety Precautions:

- Always allow the engine to cool completely before working on the cooling system. Hot coolant can cause severe burns.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if lifting is required.
- Dispose of old coolant responsibly according to local regulations.

General Installation Steps (Consult Service Manual for Details):

1. Locate the thermostat housing on your engine.
2. Drain a portion of the coolant from the radiator until the coolant level is below the thermostat housing.
3. Remove the bolts securing the thermostat housing and carefully remove the housing.
4. Remove the old thermostat and gasket. Clean the mating surfaces thoroughly to ensure a proper seal.
5. Install the new Stant thermostat with a new gasket, ensuring it is oriented correctly (usually with the spring facing the engine).
6. Reinstall the thermostat housing and tighten bolts to the manufacturer's specified torque.
7. Refill the cooling system with the correct type and amount of coolant.
8. Bleed any air from the cooling system as per your vehicle's service manual.
9. Start the engine, check for leaks, and monitor the temperature gauge.



Figure 1: Angled view of the Stant OE Type Thermostat, showing its overall design and components.

5. OPERATING PRINCIPLES

The thermostat is a critical component of your vehicle's engine cooling system. Its primary function is to regulate the engine's operating temperature by controlling the flow of coolant.

- **Cold Engine:** When the engine is cold, the thermostat remains closed, preventing coolant from flowing to the radiator. This allows the engine to warm up quickly to its optimal operating temperature.
- **Warming Engine:** As the engine heats up, the wax pellet inside the thermostat expands, causing the valve to gradually open. This allows coolant to flow to the radiator, where heat is dissipated.
- **Optimal Temperature:** The thermostat continuously adjusts its opening to maintain the engine within its ideal temperature range, ensuring efficient combustion and preventing overheating or overcooling.



Figure 2: Side view of the thermostat, highlighting the spring mechanism that controls the valve's opening and closing based on temperature.

6. MAINTENANCE

While the thermostat itself is a sealed unit and generally not serviceable, regular maintenance of your vehicle's cooling system is essential for its longevity and proper function.

- **Coolant Level and Condition:** Regularly check your coolant level and ensure it is clean and free of debris or discoloration. Follow your vehicle manufacturer's recommendations for coolant type and flush intervals.
- **Hoses and Clamps:** Inspect radiator and heater hoses for cracks, bulges, or leaks. Ensure all clamps are secure.
- **Radiator and Water Pump:** Periodically check the radiator for obstructions and the water pump for leaks or unusual noises.
- **Temperature Gauge Monitoring:** Pay attention to your vehicle's temperature gauge. Consistent operation at the normal range indicates a healthy cooling system.

7. TROUBLESHOOTING

A malfunctioning thermostat can lead to various engine performance issues. Here are common symptoms and potential causes:

Symptom	Possible Cause	Action
Engine Overheating	Thermostat stuck closed, preventing coolant flow to radiator.	Inspect thermostat; replace if stuck. Check coolant level and radiator for blockages.
Engine Runs Cold / Slow to Warm Up	Thermostat stuck open, allowing constant coolant flow to radiator.	Replace thermostat. This can lead to reduced fuel efficiency and increased engine wear.
Erratic Temperature Gauge Readings	Thermostat opening/closing inconsistently, or faulty temperature sensor.	Test thermostat function; replace if erratic. Check temperature sensor and wiring.
Coolant Leaks at Thermostat Housing	Improperly seated gasket, damaged housing, or loose bolts.	Inspect gasket and housing. Ensure bolts are torqued correctly. Replace gasket if necessary.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a professional technician.



Figure 3: Top-down view of the thermostat, showing the central valve mechanism.

8. SPECIFICATIONS

Specification	Detail
Brand	Stant
Model	OE Type Thermostat
Item Model Number	13359
Manufacturer Part Number	13359
Item Weight	1.84 ounces
Product Dimensions	3.9 x 3.2 x 1.5 inches
Exterior Finish	Machined
Material	Stainless Steel (assembly)



Figure 4: Bottom view of the thermostat, showing the temperature rating stamped on the base.

9. WHAT'S IN THE BOX

The product package for the Stant OE Type Thermostat (Model 13359) typically includes:

- 1 x Stant OE Type Thermostat
- (Note: Gasket may be sold separately or included depending on specific packaging. Always use a new gasket during installation.)

10. WARRANTY AND SUPPORT

For specific warranty information regarding your Stant OE Type Thermostat, please refer to the documentation included with your purchase or visit the official Stant website.

Returns: Products purchased from Amazon.com typically have a 30-day return policy. Please refer to Amazon's return policy for details.

Customer Support: For technical assistance, product inquiries, or warranty claims, please contact Stant customer support directly. You can usually find contact information on the product packaging or on the official Stant website.

