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Stant 13009

Stant-13009 Economy Thermostat User Manual

Brand: Stant | Model: 13009

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Stant-13009 Economy Thermostat. Designed for vehicle-specific applications, this thermostat is a high-quality replacement part for your vehicle's cooling system, ensuring optimal engine temperature regulation.

2. PRODUCT FEATURES

- **Original Equipment Design:** Engineered to match the specifications and performance of the original part.
- **Durable Material:** Constructed from robust materials, including a stainless steel assembly, for long-lasting life and reliable performance.
- **Smooth Performance:** Designed to regulate your engine's temperature efficiently, contributing to smooth operation.
- **Vehicle Specific Fit:** Ensures a precise fit for compatible vehicle models, simplifying installation.

3. SPECIFICATIONS

Attribute	Detail
Brand	Stant
Model Name	Economy Thermostat
Model Number	13009
Material	Stainless Steel
Item Weight	1.7 ounces
Product Dimensions	5.5 x 3 x 0.8 inches
Included Components	Thermostat

4. SETUP AND INSTALLATION

The Stant-13009 Economy Thermostat is designed for vehicle-specific installation. For proper fitment and optimal performance, it is crucial to follow the detailed instructions provided in your vehicle's service manual or consult a qualified automotive technician.

- Safety First:** Ensure the vehicle's engine is cool before beginning any work on the cooling system. Disconnect the battery's negative terminal.
- Drain Coolant:** Safely drain a portion of the engine coolant to below the thermostat housing level.
- Locate and Remove Old Thermostat:** Identify the thermostat housing, typically located at the engine's front where the upper radiator hose connects. Remove the housing bolts and carefully lift the housing to access the old thermostat.
- Clean Mounting Surface:** Thoroughly clean the thermostat housing and engine block mounting surfaces to ensure a proper seal. Remove any old gasket material.
- Install New Thermostat:** Place the new Stant-13009 thermostat into the housing, ensuring it is oriented correctly (refer to your vehicle's specific instructions for orientation). Install a new gasket.
- Reassemble and Refill:** Reattach the thermostat housing, tightening bolts to the manufacturer's specified torque. Reconnect the radiator hose. Refill the cooling system with the appropriate coolant type and bleed any air from the system as per your vehicle's manual.
- Test Operation:** Start the engine and allow it to reach operating temperature, monitoring the temperature gauge for proper regulation. Check for any leaks.



Figure 1: Top-down view of the Stant-13009 Economy Thermostat. This image shows the overall design and the central valve mechanism.



Figure 2: Side view of the Stant-13009 Economy Thermostat. This perspective highlights the spring and the stainless steel construction.



Figure 3: Angled view of the Stant-13009 Economy Thermostat. This image provides a comprehensive look at the thermostat's components.



Figure 4: Bottom view of the Stant-13009 Economy Thermostat. This view shows the base and the internal mechanism.

5. OPERATING PRINCIPLES

The Stant-13009 Economy Thermostat plays a critical role in your vehicle's engine cooling system. Its primary function is to regulate the flow of coolant between the engine and the radiator, ensuring the engine operates within its optimal temperature range.

- **Cold Engine Operation:** 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, improving fuel efficiency and reducing wear.
- **Warm Engine Operation:** As the engine reaches its specified operating temperature (typically around 195°F for this model), the thermostat's wax pellet expands, opening the valve. This allows coolant to circulate through the radiator, where heat is dissipated.
- **Temperature Regulation:** The thermostat continuously adjusts its opening based on engine temperature, maintaining a consistent operating temperature under varying driving conditions.

Your browser does not support the video tag.

Video 1: Product Overview Video. This video provides a visual overview of the Stant-13009 Economy Thermostat, demonstrating its design and key features.

6. MAINTENANCE

While the Stant-13009 Economy Thermostat is a durable component, proper cooling system maintenance is essential for its longevity and effective operation. Regular checks can help prevent issues.

- **Coolant Level:** Regularly check your coolant level and ensure it is at the recommended mark. Low coolant levels can lead to engine overheating and thermostat malfunction.
- **Coolant Quality:** Use the correct type of coolant specified by your vehicle manufacturer. Old or contaminated coolant can cause corrosion and reduce the efficiency of the cooling system, including the thermostat.
- **System Flushes:** Adhere to your vehicle's recommended coolant flush intervals. A clean cooling system helps the thermostat function optimally.
- **Hose and Clamp Inspection:** Periodically inspect radiator hoses and clamps for signs of wear, cracks, or leaks. A compromised hose can affect coolant flow and pressure.

7. TROUBLESHOOTING

If you experience issues with your vehicle's engine temperature, the thermostat may be a contributing factor. Here are common symptoms and potential causes:

Symptom	Potential Cause	Solution
Engine Overheating	Stuck closed thermostat, low coolant, faulty water pump, clogged radiator.	Inspect and replace thermostat if stuck. Check coolant level and condition. Consult a technician for other cooling system components.
Engine Runs Cold / Slow to Warm Up	Stuck open thermostat.	Replace the thermostat.
Erratic Temperature Gauge Readings	Failing thermostat, air in cooling system, faulty temperature sensor.	Bleed cooling system, test thermostat, check temperature sensor.

Note: Always consult a qualified mechanic if you are unsure about diagnosing or repairing cooling system issues.

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Stant-13009 Economy Thermostat, please refer to the packaging or contact Stant customer support directly. Keep your proof of purchase for any warranty claims.

For technical assistance or further inquiries, please visit the official Stant website or contact their customer service department.

This manual is intended for informational purposes only and does not replace professional automotive advice.

