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› Standard Motor Products TS17T Temperature Gauge with Switch User Manual

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Model: TS17T

INTRODUCTION

This user manual provides essential information for the installation, operation, and maintenance of the Standard Motor Products TS17T Temperature Gauge with Switch. This component is designed to accurately monitor engine temperature and activate a switch function based on predefined temperature thresholds. For optimal performance and safety, please read this manual thoroughly before installation and use.

PRODUCT OVERVIEW



Figure 1: Front view of the TS17T Temperature Gauge with Switch. This image shows the threaded brass body and the electrical terminal for connection.



Figure 2: Rear view of the TS17T Temperature Gauge with Switch. This angle highlights the sensor tip and the hexagonal nut for tightening.



Figure 3: Size comparison of the TS17T Temperature Gauge with Switch held in a hand, illustrating its compact dimensions for automotive applications.

SETUP AND INSTALLATION

Proper installation is crucial for the accurate function and longevity of the TS17T Temperature Gauge with Switch. It is highly recommended that installation be performed by a qualified automotive technician.

Before Installation:

- **Compatibility Check:** Verify that the TS17T is the correct part for your vehicle's make, model, and year. Consult your vehicle's service manual or a reputable parts catalog.
- **Safety First:** Ensure the vehicle's engine is cool and the battery is disconnected to prevent accidental starts or electrical shorts.
- **Tools Required:** Gather appropriate wrenches, thread sealant (if specified by vehicle manufacturer), and cleaning supplies.

Installation Steps:

1. **Locate Existing Sensor:** Identify the current temperature gauge or switch sensor on your engine. This is typically located in the engine block, cylinder head, or thermostat housing.
2. **Drain Coolant (if necessary):** Depending on the sensor's location, you may need to drain a portion of the engine coolant to prevent spills during removal.
3. **Remove Old Sensor:** Carefully unscrew and remove the old sensor. Be prepared for any residual coolant to escape.
4. **Clean Mounting Area:** Thoroughly clean the sensor mounting hole to ensure a proper seal. Remove any old thread sealant or debris.
5. **Apply Thread Sealant:** Apply a suitable thread sealant to the threads of the new TS17T sensor as per vehicle manufacturer specifications. This helps prevent leaks and ensures good electrical contact.
6. **Install New Sensor:** Carefully thread the TS17T sensor into the mounting hole by hand to avoid cross-threading. Tighten with a wrench to the vehicle manufacturer's specified torque. *Do not overtighten.*
7. **Connect Electrical Connector:** Attach the vehicle's electrical connector to the terminal on the TS17T sensor. Ensure a secure connection.
8. **Refill Coolant (if drained):** If coolant was drained, refill the system to the appropriate level and bleed any air from the system as per vehicle manufacturer instructions.
9. **Reconnect Battery:** Reconnect the vehicle's battery.
10. **Test System:** Start the engine and monitor the temperature gauge for proper operation. Check for any coolant leaks around the newly installed sensor.

OPERATING INSTRUCTIONS

The Standard Motor Products TS17T Temperature Gauge with Switch operates automatically once installed and connected to the vehicle's electrical system. Its primary functions are to provide a temperature signal to the vehicle's gauge or engine control unit (ECU) and to activate an electrical switch at a specific temperature threshold.

Temperature Monitoring:

- The sensor continuously measures the temperature of the engine coolant.
- This temperature reading is sent to the vehicle's dashboard temperature gauge, allowing the driver to monitor engine operating temperature.
- Maintain awareness of your vehicle's normal operating temperature range. Significant deviations may indicate an issue.

Switch Function:

- The integrated switch activates (or deactivates) an electrical circuit when the coolant temperature reaches a predetermined point.
- Common applications for this switch function include controlling electric cooling fans, warning lights, or other engine management systems.
- The specific activation temperature is factory-set and designed to match the vehicle's requirements.

MAINTENANCE

The TS17T Temperature Gauge with Switch is a sealed, maintenance-free component. Regular maintenance is generally not required for the sensor itself. However, periodic inspection of related components is recommended as part of routine vehicle maintenance:

- **Electrical Connections:** Periodically check the electrical connector for corrosion, looseness, or damage. Ensure it is clean and securely attached.
- **Coolant Leaks:** Inspect the area around the sensor for any signs of coolant leaks. Address any leaks promptly to prevent engine damage.
- **Wiring Integrity:** Examine the wiring harness leading to the sensor for fraying, cuts, or heat damage.

If the sensor or its connections appear damaged, replacement may be necessary.

TROUBLESHOOTING

If you experience issues with your vehicle's temperature gauge or cooling system, the TS17T sensor may be a contributing factor. Below are common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Temperature gauge reads consistently low or high.	Faulty sensor, incorrect sensor for application, air pocket in cooling system, faulty thermostat.	Verify sensor part number. Check for air in cooling system. Test or replace thermostat. If issues persist, test sensor resistance or replace.
Temperature gauge reads zero or does not move.	Disconnected or damaged electrical connector/wiring, faulty sensor, faulty gauge.	Check electrical connection at sensor and gauge. Inspect wiring for breaks. Test sensor for continuity. Consult a technician for gauge diagnosis.
Cooling fan (if controlled by this switch) does not activate/deactivate.	Faulty switch portion of sensor, faulty fan relay, faulty fan motor, wiring issue.	Verify sensor is reaching activation temperature. Test fan relay and fan motor. Check wiring for continuity. If other components are good, replace sensor.
Coolant leak around sensor.	Improperly tightened sensor, damaged threads, insufficient thread sealant.	Ensure sensor is tightened to specification. Reapply thread sealant. If threads are damaged, repair or replace component.

Note: For complex issues or if you are unsure about performing diagnostics, it is always best to consult a certified automotive mechanic.

SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model Number	TS17T
Product Type	Temperature Gauge Switch
Material	Metal
Item Dimensions (L x W x H)	1.5 x 1.2 x 2.9 inches

Attribute	Detail
Item Weight	0.704 ounces
Lift Type	ON-OFF
UPC	025623167589

WARRANTY INFORMATION

Specific warranty details for the Standard Motor Products TS17T Temperature Gauge with Switch are typically provided at the point of purchase or can be found on the official Standard Motor Products website. Please retain your proof of purchase for any warranty claims. Standard Motor Products generally offers a limited warranty against defects in materials and workmanship for a specified period from the date of purchase.

For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the manufacturer's official website.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty inquiries regarding your Standard Motor Products TS17T Temperature Gauge with Switch, please contact Standard Motor Products customer support. Contact information can usually be found on their official website or on the product packaging.

When contacting support, please have your product model number (TS17T) and any relevant purchase information readily available to expedite assistance.

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Example: How do I reset this device or fix this error?

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