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- › [Standard Motor Products](#) /
- › [Standard Motor Products TX95 Coolant Sensor Instruction Manual](#)

Standard Motor Products TX95

Standard Motor Products TX95 Coolant Sensor Instruction Manual

Model: TX95

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products TX95 Coolant Sensor. This sensor is designed to accurately measure engine coolant temperature, providing critical data to the vehicle's engine control unit (ECU) for optimal engine performance and fuel efficiency.



Image: Standard Motor Products TX95 Coolant Sensor. This image displays the sensor unit, typically featuring a metal probe and an electrical connector.

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in personal injury or damage to the vehicle.

- Ensure the engine is cool before attempting any work on the cooling system to prevent burns from hot coolant or engine components.
- Disconnect the vehicle's battery negative terminal before starting installation to prevent electrical

shorts.

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Dispose of old coolant responsibly according to local regulations.

SETUP AND INSTALLATION

Proper installation is crucial for the accurate function of the coolant sensor. This section outlines general installation steps. Always consult your vehicle's specific repair manual for detailed instructions.

Tools Required:

- Wrench or socket set (appropriate size for sensor)
- Drain pan for coolant
- New engine coolant (if necessary)
- Rag or shop towels
- Torque wrench (recommended)

Pre-Installation Checks:

1. Verify that the replacement sensor (TX95) is the correct part for your vehicle's make, model, and year.
2. Inspect the new sensor for any visible damage.
3. Ensure the engine is completely cool.

Installation Steps:

1. **Locate the existing coolant temperature sensor:** Refer to your vehicle's service manual for the exact location, typically on the engine block, cylinder head, or thermostat housing.
2. **Drain a portion of the coolant:** Place a drain pan under the radiator drain plug or lower radiator hose. Drain enough coolant to bring the level below the sensor's mounting point.
3. **Disconnect the electrical connector:** Carefully unplug the electrical connector from the old sensor.
4. **Remove the old sensor:** Use the appropriate wrench or socket to unscrew and remove the old sensor. Be prepared for a small amount of coolant to escape.
5. **Clean the mounting area:** Ensure the sensor mounting hole and threads are clean and free of debris.
6. **Install the new sensor:** Apply a small amount of thread sealant (if recommended by your vehicle manufacturer) to the threads of the new TX95 sensor. Carefully thread the new sensor into the opening by hand to prevent cross-threading.
7. **Tighten the sensor:** Use a wrench or socket to tighten the sensor to the manufacturer's specified torque. Overtightening can damage the sensor or housing.
8. **Reconnect the electrical connector:** Plug the electrical connector firmly onto the new sensor.
9. **Refill coolant and bleed air:** Refill the cooling system with the appropriate coolant to the correct level. Follow your vehicle's procedure for bleeding air from the cooling system.
10. **Check for leaks:** Start the engine and allow it to reach operating temperature. Carefully inspect the sensor area for any coolant leaks.

OPERATING PRINCIPLES

The Standard Motor Products TX95 Coolant Sensor is a thermistor-type sensor. Its electrical resistance changes in response to the temperature of the engine coolant. As the coolant temperature increases, the sensor's resistance decreases, and vice-versa. The vehicle's ECU monitors these resistance changes to determine the engine's operating temperature. This information is critical for:

- Adjusting fuel injection and ignition timing.
- Controlling cooling fan operation.
- Activating the dashboard temperature gauge.
- Managing emissions control systems.

After installation, the sensor should immediately begin providing accurate temperature readings to the ECU. The engine's performance and temperature gauge should reflect normal operation.

MAINTENANCE

The TX95 Coolant Sensor itself is a sealed unit and does not require routine maintenance. However, periodic checks of the surrounding cooling system components are recommended to ensure optimal sensor performance and longevity:

- **Coolant Level and Condition:** Regularly check the engine coolant level and ensure it is clean and free of contaminants. Low or contaminated coolant can affect sensor readings and overall cooling system efficiency.
- **Electrical Connection:** Periodically inspect the sensor's electrical connector for corrosion, looseness, or damage. A poor connection can lead to intermittent or inaccurate readings.
- **Hoses and Clamps:** Check coolant hoses for cracks, leaks, or swelling, and ensure hose clamps are secure.

TROUBLESHOOTING

If you experience issues after installing the TX95 Coolant Sensor, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Engine temperature gauge reads incorrectly (too high/low) or fluctuates.	Air in the cooling system. Faulty electrical connection. Incorrect sensor type installed. New sensor is faulty (rare).	Bleed the cooling system thoroughly. Check sensor connector for corrosion or looseness. Verify the TX95 is the correct part number for your vehicle. Test sensor resistance with a multimeter (refer to vehicle specs).

Symptom	Possible Cause	Solution
Check Engine Light (CEL) illuminated with a coolant temperature sensor related code (e.g., P0117, P0118).	Wiring harness damage. Poor electrical connection. Sensor circuit open or shorted. New sensor is faulty.	Inspect wiring for cuts or abrasions. Ensure connector is fully seated and clean. Use a multimeter to check for continuity and resistance in the sensor circuit. Consult a professional mechanic for advanced diagnostics.
Engine runs poorly (rich/lean), poor fuel economy.	Inaccurate temperature readings from the sensor.	Perform checks as described above for incorrect gauge readings. Ensure the sensor is providing accurate data to the ECU.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

The following specifications are for the Standard Motor Products TX95 Coolant Sensor:

- **Model Number:** TX95
- **Brand:** Standard Motor Products
- **Mounting Type:** Flange Mount
- **Item Dimensions (L x W x H):** 1.5 x 1.16 x 2.88 inches
- **Item Weight:** Approximately 0.8 Pounds (12.8 ounces)
- **Specific Uses For Product:** Temperature Sensor
- **UPC:** 091769399801
- **Manufacturer Part Number:** TX95

WARRANTY INFORMATION

For specific warranty details regarding your Standard Motor Products TX95 Coolant Sensor, please refer to the warranty documentation included with your purchase or visit the official Standard Motor Products website. Warranty terms typically cover defects in materials and workmanship for a specified period from the date of purchase.

SUPPORT AND CONTACT

If you require further assistance or have questions not covered in this manual, please contact Standard Motor Products customer support or consult a certified automotive technician. Always provide the model number (TX95) when seeking support.
For additional resources, you may visit the [Standard Motor Products official website](#).

