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› Standard Motor Products TX3A Sensor Pigtail Instruction Manual

Standard Motor Products TX3A

Standard Motor Products TX3A Sensor Pigtail

Air Charge Temp Sensor Connector

1. PRODUCT OVERVIEW

The Standard Motor Products TX3A Sensor Pigtail is an electrical connector designed for use with air charge temperature sensors. This component provides a secure and reliable connection, essential for the proper functioning of the sensor within an automotive system. It is manufactured to meet specific automotive standards, ensuring compatibility and performance.

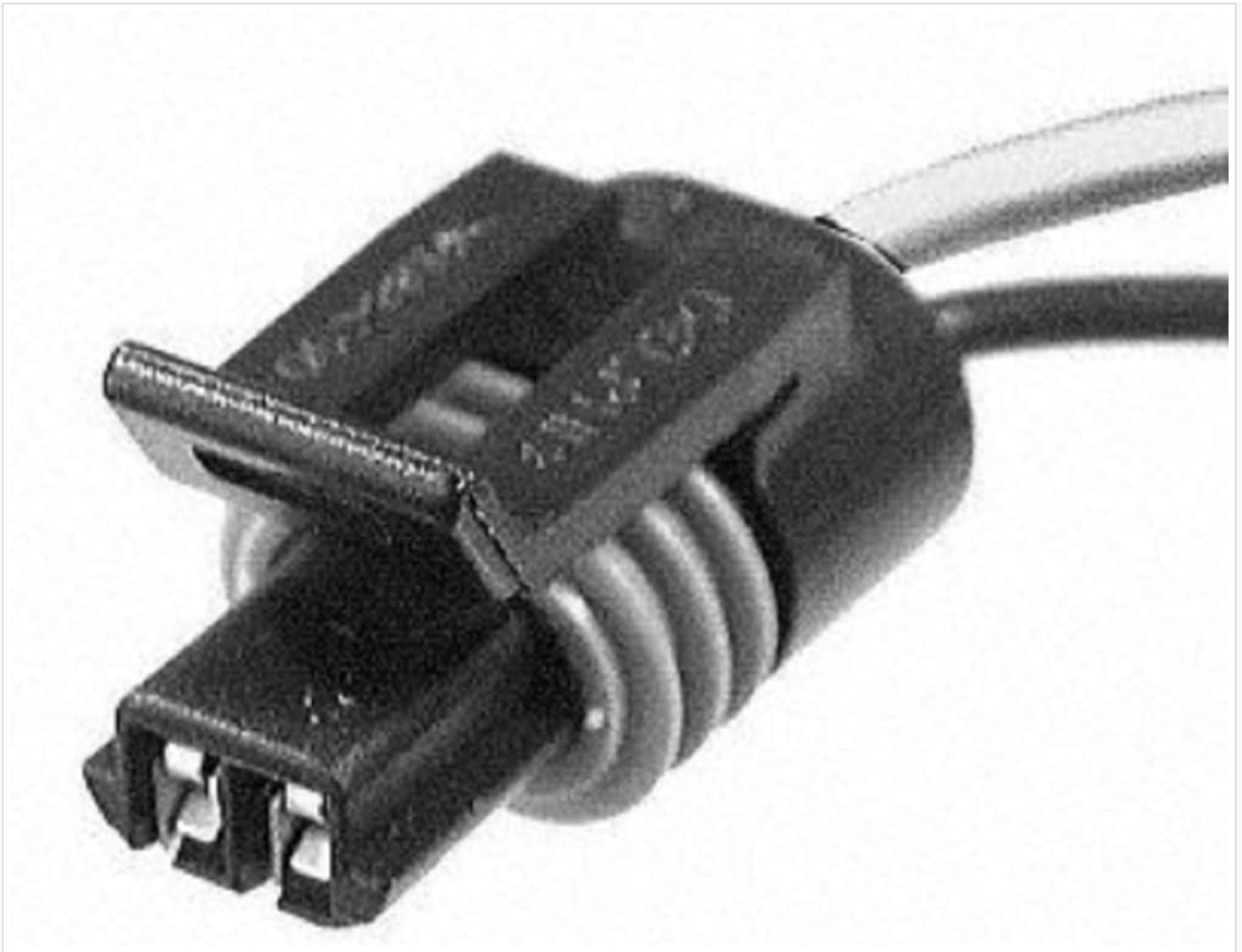


Figure 1: The Standard Motor Products TX3A Sensor Pigtail. This image displays the black plastic connector housing with two metal terminals visible at the connection end, and two insulated wires (one grey, one black) extending from the opposite end, indicating its function as a wiring harness pigtail.

2. SETUP AND INSTALLATION

2.1. Package Contents

- 1 x Air Charge Temp Sensor Connector (TX3A Sensor Pigtail)

2.2. Pre-Installation Checklist

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.
- Verify that the TX3A pigtail is the correct replacement part for your specific sensor and vehicle model.
- Gather necessary tools, which may include wire strippers, crimpers, soldering iron, heat shrink tubing, and electrical tape.

2.3. Installation Procedure

1. Locate the existing sensor pigtail or the wiring harness connection point for the air charge temperature sensor.
2. Carefully disconnect the old pigtail, if present, from the sensor and the vehicle's wiring harness.
3. Cut the old pigtail wires, leaving enough length on the vehicle's harness to make a secure connection.
4. Strip approximately 0.5 inches of insulation from the ends of the wires on both the new TX3A pigtail and the vehicle's wiring harness.
5. Connect the wires of the new TX3A pigtail to the corresponding wires on the vehicle's harness. Ensure correct

polarity if applicable (though for many sensor pigtails, wire color matching is sufficient). Use appropriate connectors (crimp connectors) or solder for a durable connection.

6. Insulate all connections using heat shrink tubing or high-quality electrical tape to protect against moisture and abrasion.
7. Connect the TX3A pigtail's connector end to the air charge temperature sensor. Ensure it clicks securely into place.
8. Reconnect the vehicle's battery and test the system for proper operation.

3. OPERATING PRINCIPLES

The TX3A Sensor Pigtail functions as a critical electrical conduit, transmitting signals between the air charge temperature sensor and the vehicle's Engine Control Unit (ECU). It does not perform any active operation itself but ensures the integrity of the electrical circuit. The sensor measures the temperature of the air entering the engine, and this data is relayed through the pigtail to the ECU, which then adjusts fuel delivery and ignition timing for optimal engine performance and efficiency.

4. MAINTENANCE

Regular maintenance of the TX3A Sensor Pigtail is minimal but important for long-term reliability:

- **Visual Inspection:** Periodically inspect the pigtail and its connections for signs of wear, corrosion, fraying wires, or damage to the connector housing.
- **Cleanliness:** Keep the connector free from dirt, oil, and moisture. If cleaning is necessary, use a non-conductive electrical contact cleaner and allow it to dry completely before reconnecting.
- **Secure Connections:** Ensure the pigtail remains securely connected to both the sensor and the vehicle's wiring harness. Loose connections can lead to intermittent sensor readings.
- **Wire Protection:** Verify that the wires are not pinched, stretched, or exposed to excessive heat or sharp edges within the engine bay.

5. TROUBLESHOOTING

If issues arise with the air charge temperature sensor system after installing the TX3A pigtail, consider the following troubleshooting steps:

- **No Sensor Reading or Incorrect Readings:**
 - Check all wire connections for proper crimping or soldering and ensure they are insulated.
 - Verify that the connector is fully seated on the sensor.
 - Inspect the wires for continuity using a multimeter.
 - Ensure the correct wires are connected (e.g., power to power, signal to signal).
- **Intermittent Issues:**
 - Look for loose connections or partially broken wires that may only make contact under certain conditions (e.g., vibration).
 - Check for corrosion on the terminals within the connector.
- **Physical Damage to Pigtail:**
 - If the pigtail housing or wires are visibly damaged (e.g., melted, chewed), replacement is necessary.

If troubleshooting does not resolve the issue, consult a qualified automotive technician.

6. SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model	TX3A (Air Charge Temp Sensor Connector)
Item Dimensions (L x W x H)	2 x 1.4 x 3.4 inches
Item Weight	0.01 Ounces
Specific Uses For Product	Temperature Sensor
Country of Origin	China
UPC	091769032609
Manufacturer Part Number	TX3A
OEM Part Number	TX3A

7. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Standard Motor Products Contact Information:

- Refer to the manufacturer's official website for the most current contact details and warranty policies.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question