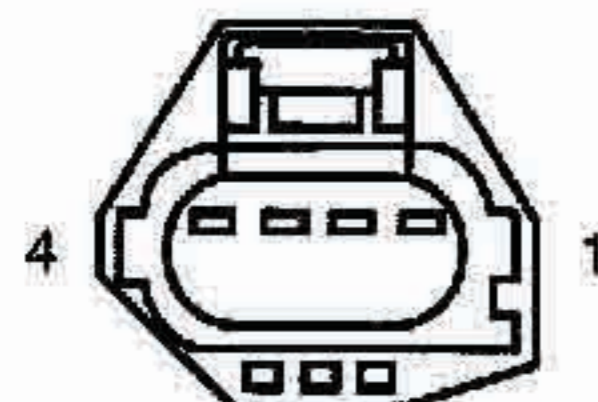


C1189 (BK)**12B637**Throttle Position
Sensor (TPS)
(9F991)

FEMALE

Pin	Circuit	Circuit function
1	357 (YE/WH)	Throttle Position Sensor (TPS) (9F991) signal 2
2	1945 (VT/WH)	Throttle Position Sensor (TPS) (9F991) Reference voltage
3	1946 (OG/LB)	Throttle Position Sensor (TPS) (9F991) Signal return
4	355 (GY/WH)	Throttle Position Sensor (TPS) (9F991) signal 1

Throttle Position Sensor: Description and Operation

Electronic Throttle Body (ETB) Position Sensor

ELECTRONIC THROTTLE BODY (ETB) POSITION SENSOR

For information on the electronic throttle body position sensor, refer to the description of the ETB in Torque Based Electronic Throttle Control (ETC).

Throttle Position Sensor: Description and Operation

Throttle Position (TP) Sensor

THROTTLE POSITION (TP) SENSOR

The TP sensor monitors the throttle position and provides an electrical signal to the PCM. It is monitored by the OBD system for component integrity, system functionality, and faults that can cause emissions levels to exceed the standards set by government regulations. For additional information on the TP sensor, refer to PCM Inputs.

Throttle Position Sensor: Service and Repair

THROTTLE POSITION (TP) SENSOR

Image

Removal

1. Disconnect the battery ground cable.
2. Remove the air cleaner assembly.
3. Disconnect the throttle position (TP) sensor electrical connector.

4. **CAUTION:** Failure to remove the TP sensor screws in the following manner will result in damage to the screws. First loosen the screws 1-2 full turns using a hand tool and then use a suitable high speed driver to complete the removal.

Remove and discard the 2 screws and the TP sensor.

Installation

1. CAUTION:

- Do not reuse the TP sensor and screws. A new TP sensor and screws must be installed.
- Do not use a high speed driver to install the new screws or damage to the TP sensor can occur.

NOTE: When installing the new TP sensor, make sure that the radial locator tab on the TP sensor is aligned with the radial locator hole on the throttle body.

Position the new TP sensor and install the 2 new screws.

- Tighten to 3 Nm (27 lb-in).

2. Connect the TP sensor electrical connector.
3. Install the air cleaner assembly.
4. Connect the battery ground cable.



N0017136

Item	Description
1	Throttle position (TP) sensor electrical connector
2	TP screws (2 required)
3	TP sensor