



THROTTLE POSITION SENSOR

Inspection

Closed throttle position switch

1. Verify that the throttle valve is closed throttle position.
2. Disconnect the throttle position sensor connector.
3. Check for continuity between throttle position sensor connector terminals C and D by using an ohmmeter.
4. If no continuity, adjust the throttle position sensor.

5. Insert a 0.50 mm {0.020 in} feeler gauge between the throttle adjusting screw (TAS) and the throttle lever. Verify that there is no continuity.
6. If there is continuity, adjust the throttle position sensor. (Refer to page F1-42.)

Throttle position sensor

Using SSTs (Monitor, engine signal)

1. Remove the PCM. (Refer to page F1-29.)
2. Connect the **SSTs** to the PCM.
3. Verify that the throttle valve is at the closed throttle position.
4. Turn the ignition switch to ON.
5. Measure the PCM terminal 3B voltage by using a voltmeter.

Specification

Closed throttle position: 0.1—1.1 V

Wide open throttle: 2.8—4.5 V

(Verify that the voltage increase is directly proportioned to the throttle valve opening angle.)

6. If not as specified, adjust the throttle position sensor.

Using SSTs (NGS)

1. Connect the **SSTs** to the data link connector 2.
2. Verify that the throttle valve is at the closed throttle position.
3. Turn the ignition switch to ON.
4. Select the PID/DATA MONITOR AND RECORD function of the NGS.
5. Select "TP V" on the NGS display. NGS measures and shows the voltage.

Specification

Closed throttle position: 0.1—1.1 V

Wide open throttle: 2.8—4.5 V

(Verify that the voltage increase is directly proportioned to the throttle valve opening angle.)

6. If not as specified, adjust the throttle position sensor. (Refer to page F1-42.)