

CLOSED THROTTLE POSITION SWITCH AND THROTTLE POSITION SENSOR ADJUSTMENT <3.0L ENGINE>

Required Speed Tools:

MB991502: Scan Tool

MB991348: Test Harness Set

1. Connect the scan tool to the data link connector. When not using scan tool MB991502 proceed as follows.

(1) Disconnect the connector of the throttle position sensor.

(2) Connect an ohmmeter between terminals 2 (closed throttle position switch) and 1 (sensor ground) by using jumper wires.

2. Insert a feeler gauge as follows:

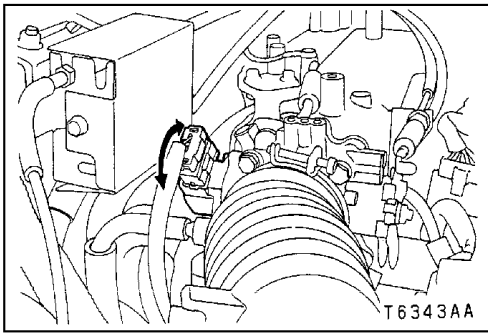
<Vehicles without auto-cruise control system>

Insert a feeler gauge with a thickness of 0.65 mm (0.026 inch) between the fixed SAS and the throttle lever.

<Vehicles with auto-cruise control system>

Insert a feeler gauge with a thickness of 1.4 mm (0.055 inch) between the levers shown in the figure. *NOTE: Do not insert the feeler gauge 3 mm (0.118 inch) or more. If doing that, the throttle lever opening angle becomes larger than the predetermined angle, causing maladjustment.*

3. When using scan tool MB991502 turn the ignition switch "ON." (Do not start engine.) Observe operation of the closed throttle position switch.



4. Loosen the throttle position sensor mounting bolts. Turn the throttle position sensor body fully clockwise.
5. In this condition, make sure that the closed throttle position switch is "ON."

6. Slowly turn the throttle position sensor counterclockwise until the closed throttle position switch is turns "OFF". Tighten the throttle position sensor installation bolt at that position. When using the scan tool, proceed to Step 8.

7. When not using scan tool MB991502 proceed as follows:

- (1) Connect special tool MB991348 between the throttle position sensor connectors which have been disconnected. (Connect all terminals taking care not to mistake the terminal number.)

- (2) Connect a digital voltmeter between the throttle position sensor terminal 3 (sensor output) and terminal 1 (sensor ground.)

- (3) Turn the ignition switch "ON" (but do not start the engine).

8. Check the throttle position sensor output voltage.
Standard value: 400 - 1,000 mV

9. If there is a deviation from the standard value, check the throttle position sensor and the related harness.

10. Remove the feeler gauge.

Confirm the closed throttle position switch changed from "OFF" to "ON".

11. Turn the ignition switch "OFF".

