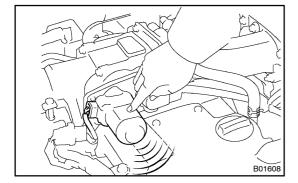


THROTTLE BODY ON-VEHICLE INSPECTION

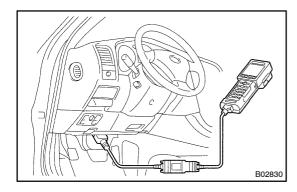
SF0NL-0

- 1. INSPECT SYSTEM OPERATION
- (a) Check that the throttle linkage moves smoothly.



- (b) Inspect the throttle control motor for operating sound.
 - (1) Turn the ignition switch ON.
 - (2) When turning the accelerator pedal position sensor lever, check the running sound of the motor. Also, check that there is no friction sound.

If operation is not as specified, check the throttle control motor, wiring and engine ECU.



- (c) Inspect the throttle position sensor and accelerator pedal position sensor function.
 - (1) Connect the hand-held tester to the DLC3.
 - (2) When turning the accelerator pedal position sensor lever to the full-open position, check that the throttle valve opening percentage (THROTTLE POS) of the CURRENT DATA showns the standard value.

Throttle valve opening percentage: 60 % or more

If operation is not as specified, check that the throttle position sensor, accelerator pedal position sensor, wiring and engine ECU.

- (d) Start the engine, and check that the check engine warning light does not light up.
- (e) Inspect the air assist system.
 - (1) Allow the engine to warm up to normal operating temperature.
 - (2) Turn the A/C switch ON and OFF, and check the idle speed.

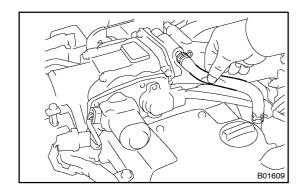
Idle speed (Transmission in neutral):

 $700 \pm 50 \text{ rpm (A/C OFF)}$

 $750 \pm 50 \text{ rpm (A/C ON)}$

NOTICE:

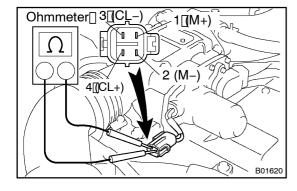
Perform inspection under condition without electrical load.



(3) With engine dling, binch the air assist hose and check that engine speed drops, and then turns back up to dle speed.

If peration s not as specified, check he throttle body, wiring and engine ECU.

(f) After@hecking@he@above@b)@o@e),@perform@he@living@est and@heck@hat@here@s@ho@sense@f@ncongruity.



2. | INSPECT|THROTTLE|CONTROL|MOTOR

- (a) Disconnect he hrottle control motor connector.
- (b) Using@nohmmeter,@neasure@he@esistance@between@erminal@@CL-)@nd@4@CL+).

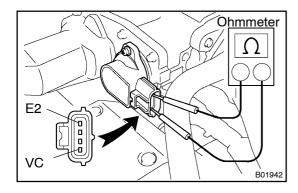
Resistance: 4.2 - 5.2 120°C (68°F)

(c) Using@nohmmeter,@neasure@her@esistance@between@erminal@@M+)@and@@M-).

Resistance: 0.3 – 100 Ω[at[20°C[68°F)]

If the tiles is tance is that as the tile to the tile

(d) Reconnect the throttle control motor connector.



Ohmmeter E2 VC B01943

3. | INSPECT|THROTTLE|POSITION|SENSOR

- (a) Disconnect he hrottle position sensor connector.
- (b) Using an hmmeter, in easure the resistance between terminals VC and E2.

Resistance: 1.2 –[3.2[$k\Omega$ [at[20°C[68°F)]

If the resistance is not as specified, replace the throttle position sensor. (See page FI-36)

(c) Reconnect he hrottle position sensor connector.

4. INSPECT ACCELERATOR PEDAL POSITION SENSOR

- (a) Disconnect the accelerator pedal position sensor connector.
- (b) Using@nohmmeter,@neasure@he@resistance@between@erminals_VC@nd@2.

Resistance: 1.2 –[3.2[$k\Omega$ [at[20°C[68°F)]

If the resistance is not as specified, replace the accelerator pedal position sensor. See page FI-36)

(c) Reconnect the accelerator pedal position sensor connector.

LEXUS[GS300] (RM588E)