

THROTTLE BODY ON-VEHICLE INSPECTION

SF11B-01

1. INSPECT SYSTEM OPERATION

- (a) Measure voltage between terminals PAS and E1 of LH Bank Engine ECU and PASR and E1R of RH Bank Engine ECU (See page DI-20).
- (b) Inspect the air assist system.
 - (1) Start the engine and check that the MIL does not light up.
 - (2) Allow the engine to warm up to the normal operating temperature.
 - (3) Turn the A/C conditioning ON to OFF, and check the idle speed.

Idle speed (Transmission in neutral):
750 ± 50 rpm

NOTICE:

Perform inspection under condition without electrical load.

- (c) After checking the above (a) and (b), perform the driving test and check that there is no sense of incongruity.

2. REMOVE V-BANK COVER

3. INSPECT THROTTLE CONTROL MOTOR

- (a) Disconnect the throttle control motor connector.
- (b) Using an ohmmeter, measure the motor resistance between terminal 1 and 3, 4 and 6.

Motor Resistance:
0.40 – 0.48 Ω at 20°C (68°F)

If the resistance is not as specified, replace the throttle body assembly.

- (c) Reconnect the throttle control motor connector.

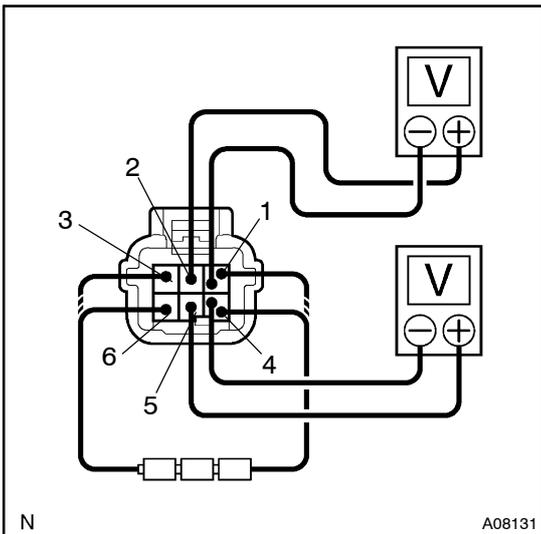
4. INSPECT THROTTLE POSITION SENSOR

- (a) Disconnect the throttle position sensor connector.
- (b) Using an ohmmeter, measure the resistance between terminals VC and E2.

Terminals	Throttle valve	Resistance
1 - 4	-	3.1 - 7.2 kΩ
2 - 4	Fully closed	0.34 - 6.3 kΩ
	Fully open	2.4 - 11.2 kΩ

If the resistance is not as specified, replace the throttle body assembly.

- (c) Reconnect the throttle position sensor connector.



5. INSPECT ACCELERATOR PEDAL POSITION SENSOR

- (a) Disconnect the accelerator position sensor connector.
- (b) Connect the 3 dry cell batteries of 1.5 V in series.
- (c) Connect the positive (+) lead from the batteries to terminal 3 and 6, and negative (-) lead to terminal 1 and 4.
- (d) Connect the positive (+) lead from the tester to terminal 2 and 5, and negative (-) lead to the terminal 1 and 4.
- (e) Turn the accelerator pedal position sensor lever.
- (f) Check that there is voltage change from approx. 0.3 V to 4.7 V.

If the voltage is not as specified, replace the accelerator pedal position sensor.

- (g) Reconnect the accelerator pedal position sensor connector.

6. REINSTALL V-BANK COVER