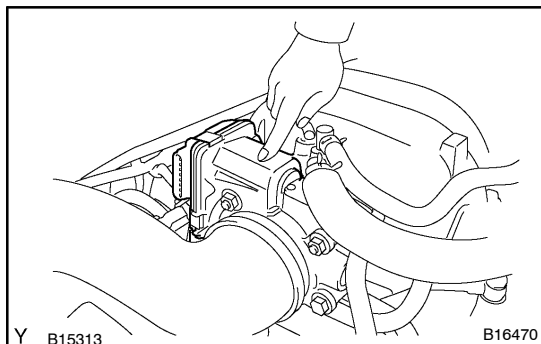


THROTTLE BODY ON-VEHICLE INSPECTION

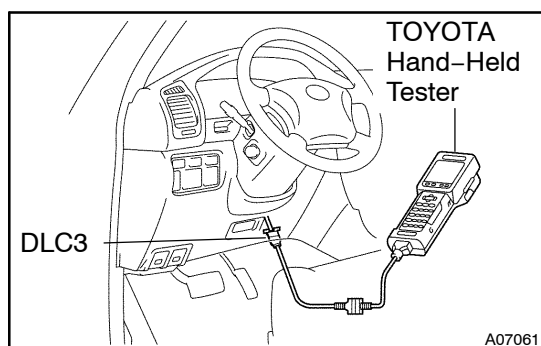
SF1UV-01

1. REMOVE V-BANK COVER
2. INSPECT SYSTEM OPERATION



- (a) 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 (See step 3), wiring and ECM.

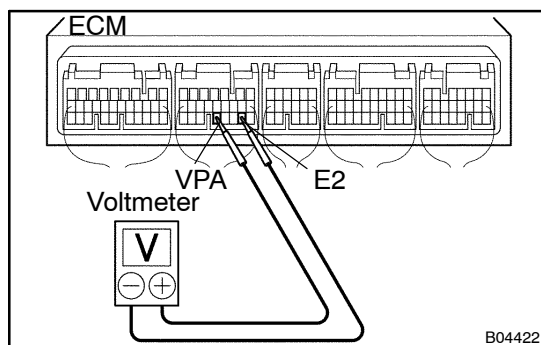


- (b) Inspect the accelerator pedal position sensor.
 - (1) Connect the TOYOTA hand-held tester or OBD II scan tool to the DLC3.
 - (2) Check that the MIL does not come on.
 - (3) When turning the accelerator pedal position sensor lever to the full-open position, check that the throttle valve opening percentage (THROTTLE POS) of CURRENT DATA shows the standard value.

Standard throttle valve opening percentage:

60 % or more

If operation is not as specified, check that the accelerator pedal position sensor (See page [DI-318](#)), wiring and ECM.



If you have no TOYOTA hand-held tester or OBD II scan tool, measure the voltage between terminal VPA and E2 of the ECM connector.

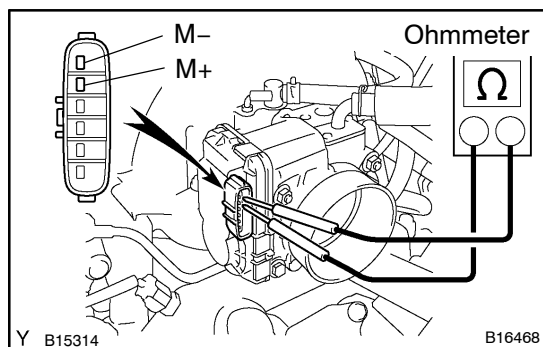
- (c) Inspect the air assist system.
 - (1) Start the engine and check that the MIL does not come on.
 - (2) Allow the engine to warm up to normal operating temperature.
 - (3) Turn the A/C compressor ON to OFF, and check the idle speed.

Idle speed (Transmission in neutral): 700 ± 50 rpm

NOTICE:

Perform inspection under the condition with no electrical load.

- (d) After checking the above (b) to (d), perform the running test and check that there is no incongruity.



3. INSPECT THROTTLE CONTROL MOTOR

- (a) Disconnect the throttle connector.
(b) Using an ohmmeter, measure the motor resistance between terminal M+ and M-.

Motor resistance: $0.3 - 100 \Omega$ at 20°C (68°F)

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

- (c) Reconnect the throttle body connector.

4. INSPECT THROTTLE POSITION SENSOR (See page [DI-84](#))

If necessary, replace the throttle body.

NOTICE:

Be careful not to give a shock to the throttle body.

Be careful not to disassemble the throttle body.

5. REINSTALL V-BANK COVER