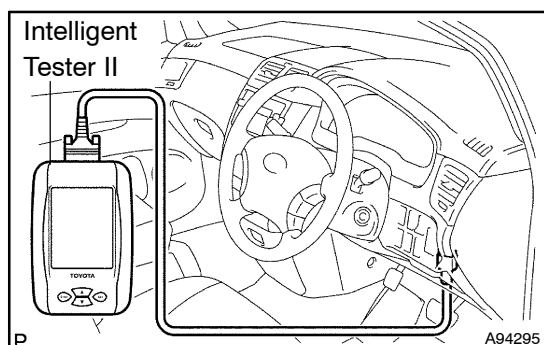


SFI SYSTEM (1AZ-FE/2AZ-FE)

ON-VEHICLE INSPECTION

10009-01



1. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSY

- (a) Check the operation.
 - (1) Connect the intelligent tester II to the DLC3.
 - (2) Turn the ignition switch to ON.
 - (3) Start the engine and warm it up.
 - (4) Select the item: Powertrain / Engine and ECT / Active Test / Active the VVT System (Bank1).
 - (5) Operate the OCV using the intelligent tester II, then check the engine speed.

Standard:

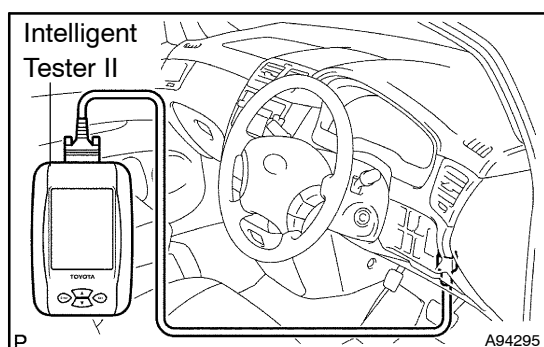
Condition	Specified Condition
VVT system is OFF (OCV is OFF)	Normal engine speed
VVT system is ON (OCV is ON)	Rough idle or engine stalled

If the result is not as specified, replace the camshaft timing oil control valve.

2. INSPECT THROTTLE BODY ASSY

- (a) Listen to the throttle control motor operating sounds.
 - (1) Turn the ignition switch to ON.
 - (2) When pressing the accelerator pedal position sensor lever, listen to the running sound of the motor. Make sure no friction noise comes from the motor.

If friction noise exists, replace the throttle body.



- (b) Inspect the throttle position sensor.
 - (1) Connect the intelligent tester II to the DLC3.
 - (2) Turn the ignition switch to ON.
 - (3) Turn the intelligent tester II ON.
 - (4) Check that the engine warning light does not light up.
 - (5) Select the item: Powertrain / Engine and ECT / Data List / Throttle Position.
 - (6) Operate the link of the throttle with motor body by hand. When the throttle valve is fully opened. Check that the value of the "Throttle Sensor Position" is within the specification.

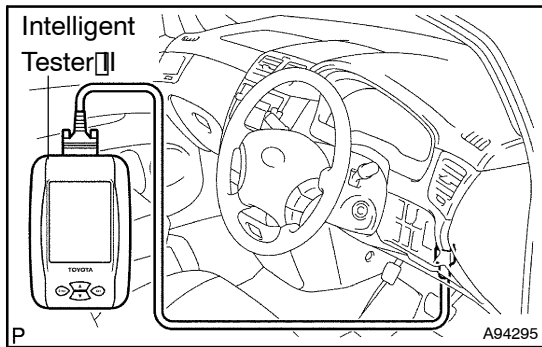
Standard throttle valve opening percentage:

60 % or more

NOTICE:

When checking the standard throttle valve opening percentage, the transmission should be in the neutral position.

If the percentage is less than 60 %, replace the throttle body.



3. INSPECT ACCELERATOR PEDAL ROD ASSY

- Connect the Intelligent Tester II to the DLC3.
- Turn the Ignition switch to ON.
- Turn the Intelligent Tester II ON.
- Select the Item: Powertrain / Engine and ECT / Data List / Accelerator Position No. 1.

Accelerator pedal released: 0.4 to 1.4 V

Accelerator pedal depressed: 3.0 to 4.6 V

- Select the Item: Powertrain / Engine and ECT / Data List / Accelerator Position No. 2.

Accelerator pedal released: 0.9 to 2.3 V

Accelerator pedal depressed: 3.4 to 5.0 V

If you have no Intelligent Tester II, measure voltage between terminals (VPA - EPA, VPA2 - EPA2) of the ECM connector (See page 05-13, 05-263).

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