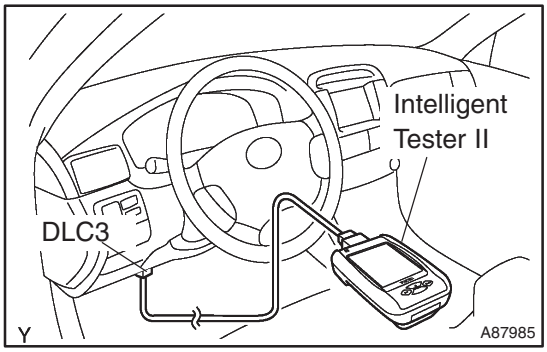
EFI SYSTEM (2TR–FE)

ON–VEHICLE INSPECTION

100T7–01



1. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSY

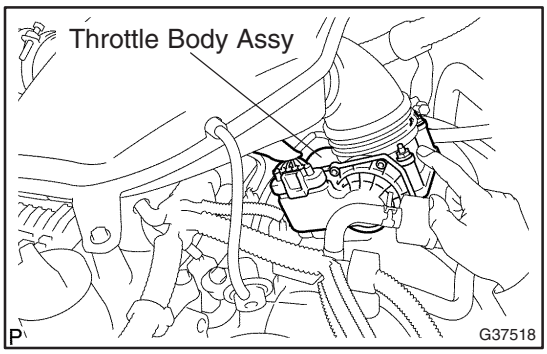
(a) Check the operation.

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

Standard:

Tester Operation	Specified Condition
OCV OFF	Normal engine speed
OCV ON	Rough idling engine stalls

If the operation is not as specified, check the camshaft timing oil control valve, wire harness and ECM.

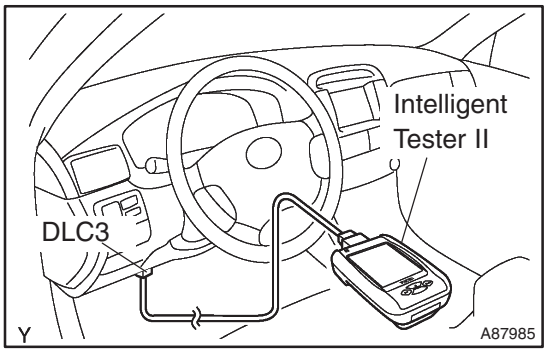


2. INSPECT THROTTLE BODY ASSY

(a) Listen to the throttle control motor operating sounds.

(1) Turn the ignition switch to ON.
(2) When pressing the accelerator pedal, listen to the running sounds of the motor. Make sure no friction noise comes from the motor.

If friction noise exists, check 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) Select the menu items: Powertrain / Engine and ECT / Data List / Throttle Pos.

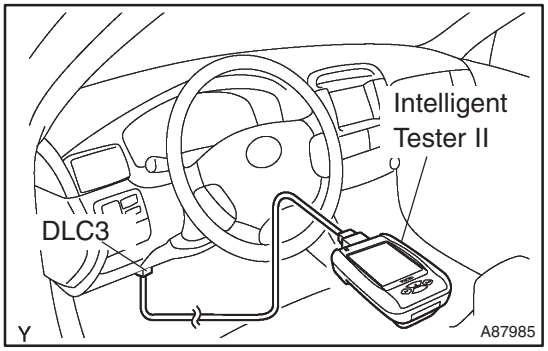
(5) Depress the accelerator pedal. When the throttle valve is fully opened, check that the "Throttle Sensor Position" value is within the specified values.

Standard : 60 % or more

NOTICE:

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

If the result is not as specified, check the throttle body, wire harness and ECM.



3. INSPECT ACCELERATOR PEDAL ASSY

(a) Inspect the voltage.

(1) Connect the intelligent tester II to the DLC3.

(2) Turn the ignition switch to ON.

(3) Turn the intelligent tester ON.

(4) Select the menu items: Powertrain / Engine and ECT / Data List / Accelerator Pos No.1, Accelerator Pos No.2.

(5) Operate the accelerator pedal, then check that the Accelerator Pos No.1 and Accelerator Pos No.2 values are within the specified values.

Accelerator pos No.1:

Accelerator Pedal Condition	Specified Condition
Released	0.4 to 1.4 V
Depressed	3.0 to 4.6 V

Accelerator pos No.2:

Accelerator Pedal Condition	Specified Condition
Released	0.9 to 2.3 V
Depressed	3.4 to 5.5 V

If the result is not as specified, check the accelerator pedal, wire harness and ECM.