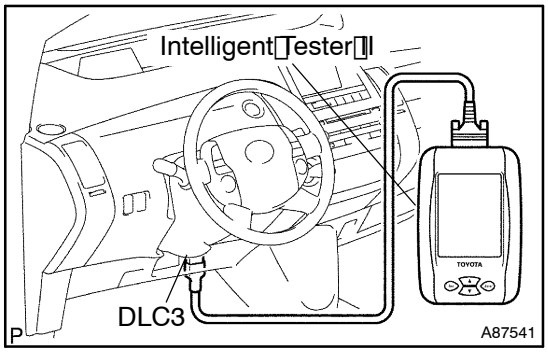
100M7–01

ON–VEHICLE INSPECTION



1. INSPECT CAMSHAFT TIMING OIL CONTROL VALVE ASSY

(a) Check the operation.

(1) Set the vehicle to the "Inspection mode–2WD inspection" (see page 01–5).

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

(3) Turn the power switch ON (IG).

(4) Turn the intelligent tester II ON.

(5) Start the engine, then warm it up.

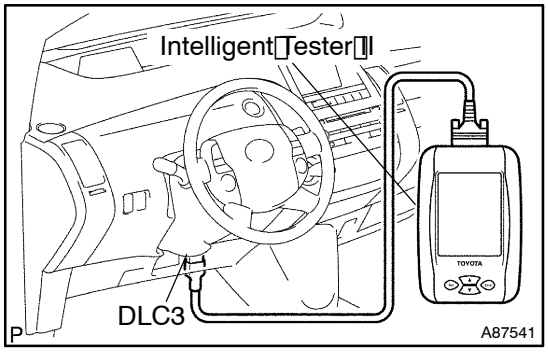
(6) Select the item: Powertrain / Engine and ECT / Active Test / Activate the VVT System (Bank1).

(7) Operate the OCV using the intelligent tester II, then check the engine speed.

Standard:

Tester Operation	Specified Condition
OCV is OFF	Normal engine speed
OCV is ON	Rough idle or engine stall

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



2. INSPECT THROTTLE W/ MOTOR BODY ASSY

(a) Check the operation.

(1) Disconnect the throttle control motor connector (see page 10–15).

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

(3) Turn the power switch ON (IG).

(4) Turn the intelligent tester II ON.

(5) Select the item: Powertrain / Engine and ECT / Data List / Throttle Sensor 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: 60 % or more

If the operation is not as specified, check the throttle with motor body, wire harness and ECM.

(7) Clear the DTC (see page 05–25).

(8) Turn the intelligent tester II OFF.

(9) Turn the power switch OFF.

NOTICE:

Be sure to turn the power switch OFF after clearing the DTC.

(10) Connect the throttle control motor connector.

(11) Set the vehicle to the "Inspection mode–2WD inspection" (see page 01–5).

(12) Turn the power switch ON (READY ON).
(13) Warm up the engine.
(14) Shift the transaxle position to D position, then check that the engine stops.

HINT:

- Check there is no load from the generator which impacts on the engine running.
- If the engine does not stop, keep the engine running for a while with the transaxle position at P position, then repair step (14).

D Position	Charging at HV Battery	Load of Power Generation
Stopped	More than certain amount	No load or a little
Running	Decreasing	Exists

(15) Turn the intelligent tester II ON.
(16) Shift the transaxle position to P position, then start the engine.
(17) Select the item: Powertrain / Engine and ECT / Data List / Engine speed.
(18) Check that the engine speed is within the specification.

Standard: 950 to 1,050 rpm

If the engine speed is as specified, leave the engine for 3 minutes and check the engine speed again. If necessary, check the throttle with motor body, wire harness and ECM.