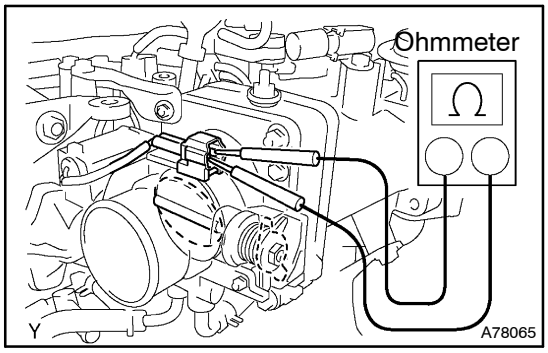
ECD SYSTEM (15B–FTE)

INSPECTION

100DS–01



1. INSPECT THROTTLE FULL SWITCH

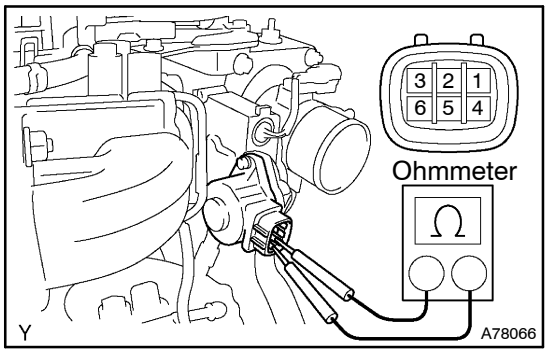
(a) Disconnect the switch connector.

(b) Using an ohmmeter, check the continuity between the terminals.

Standard:

Throttle Valve Position	Specified Condition
Fully closed	No continuity
Fully open	Continuity

(c) Reconnect the switch connector.



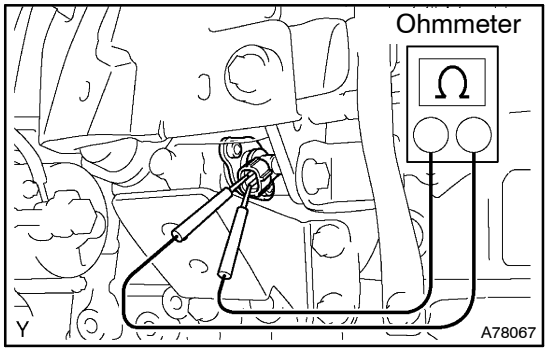
2. INSPECT THROTTLE CONTROL MOTOR

(a) Disconnect the motor connector.

(b) Using an ohmmeter, measure the resistance between terminals 1 and 2, 2 and 3, 4 and 5, and 5 and 6.

Resistance: 72 – 88 Ω at 20°C (68°F)

(c) Reconnect the motor connector.



3. INSPECT TIMING CONTROL VALVE

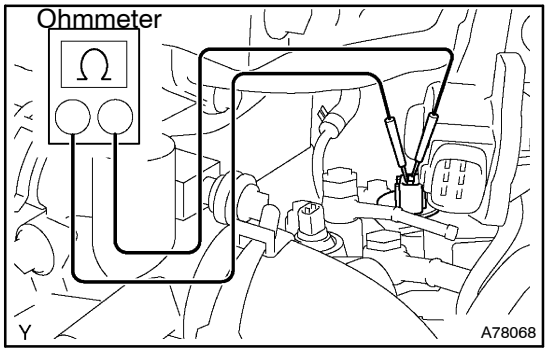
(a) Disconnect the valve connector.

(b) Using an ohmmeter, measure the resistance between the terminals.

Resistance: 10 – 14 Ω at 20°C (68°F)

If the resistance is not specified, replace the injection pump assy (See page 11–64).

(c) Reconnect the valve connector.



4. INSPECT SPILL CONTROL VALVE

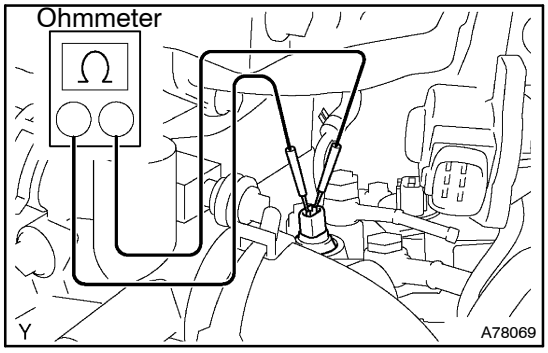
(a) Disconnect valve connector.

(b) Using an ohmmeter, measure the resistance between the terminals.

Resistance: 1 – 3 Ω at 20°C (68°F)

If the resistance is not specified, replace the injection pump assy (See page 11–64).

(c) Reconnect the valve connector.



5. INSPECT ENGINE SPEED SENSOR

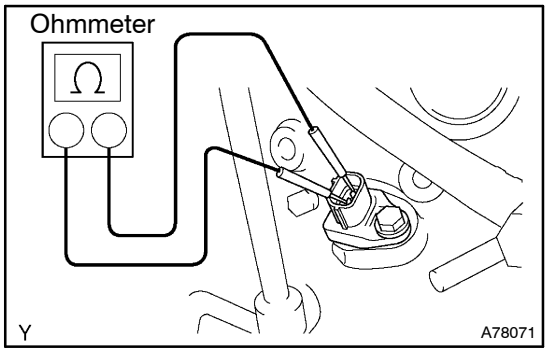
(a) Disconnect the sensor connector.

(b) Using an ohmmeter, measure the resistance between the terminals.

Resistance: 1 – 3 Ω at 20°C (68°F)

If the resistance is not specified, replace the injection pump assembly (See page 11–64).

(c) Reconnect the sensor connector.



6. INSPECT CRANKSHAFT POSITION SENSOR

NOTICE:

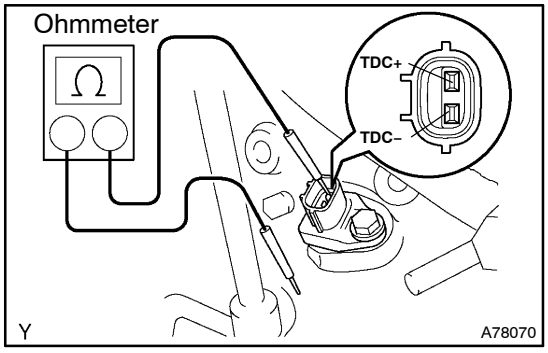
"Cold" and "Hot" in the following sentences express the temperature of the sensors themselves. "Cold" is from –10°C (14°F) to 50°C (122°F) and "Hot" is from 50°C (122°F) to 100°C (212°F).

(a) Disconnect the sensor connector.

(b) Using an ohmmeter, measure the resistance between the terminals.

Resistance:

Cold	19 – 32 Ω
Hot	24 – 37 Ω



(c) Using an ohmmeter, measure the resistance between TDC– terminal and body.

Resistance: 10 MΩ or more

If the resistance is not as specified, replace the sensor.

6 N·m (60 kgf·cm, 53 in.·lbf)

HINT:

Apply engine oil to a new O–ring on the sensor, and install them.

NOTICE:

Be careful not drop and shock the sensor.

(d) Reconnect the sensor connector.