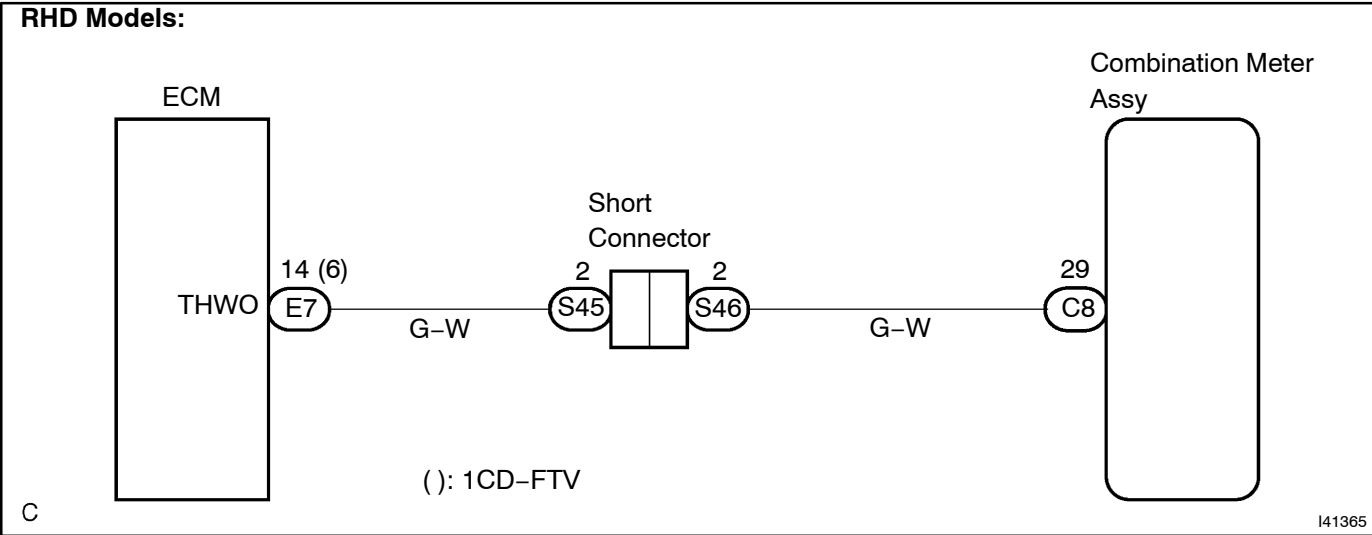
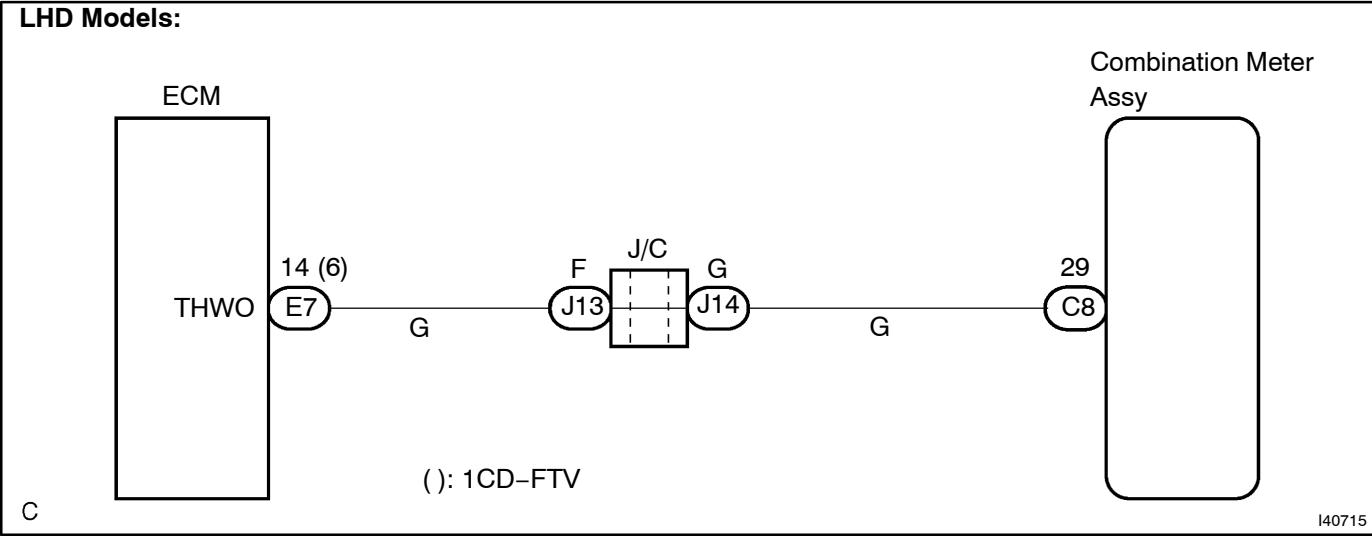


MALFUNCTION IN WATER TEMPERATURE RECEIVER GAUGE

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

If there is an open or short in the engine coolant temperature sensor circuit, the ECM outputs DTCs. Perform troubleshooting with the SFI System 05-3, 05-253, 05-436”.

1 READ VALUE OF INTELLIGENT TESTER II (VEHICLE SPEED SIGNAL)

(a) Operate the Intelligent Tester II according to the steps on the display and select “DATA LIST”.

ECM:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Coolant Temp	Coolant temperature Min.: -40°C (-40°F) Max.: 140°C (284°F)	After warming up: 80 to 95°C (176 to 203°F)	If the value is -40°C (-40°F) or 140°C (284°F), sensor circuit is open or shorted.

OK:

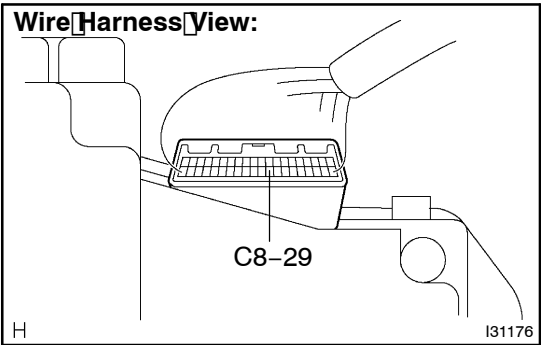
Coolant temperature displayed on the tester is between 80°C (176°F) and 95°C (203°F) after warming up.

NG

GO TO ENGINE CONTROL SYSTEM  
(SEE PAGE 05-3, 05-253, 05-436)

OK

2 INSPECT COMBINATION METER ASSY



(a) Check the meter indicator conditions according to the table below.

Standard:

Signal Condition	Condition	Specified Condition
C8-29 – Body ground	Ignition switch ON	pulse generation

Result:

OK	A
NG (1AZ-FE)	B
NG (1CD-FTV)	C

B

Go to step 3

C

Go to step 4

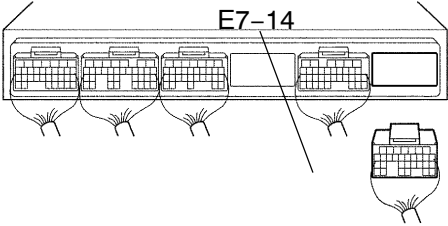
A

REPLACE COMBINATION METER ASSY

**3 CHECK HARNESS AND CONNECTOR(BETWEEN ECM AND COMBINATION METER ASSY)**

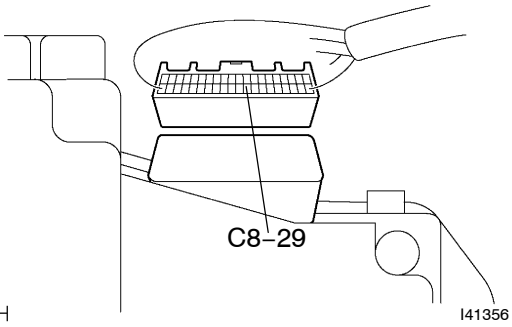
**ECM**

**Wire Harness View:**



**Combination Meter Assy**

**Wire Harness View:**



- (a) Disconnect the C8 and E7 connectors.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester Connection	Specified Condition
C8-29 – E7-14	Below 1 $\Omega$
C8-29 – Body ground	10 k $\Omega$ or higher

**NG**

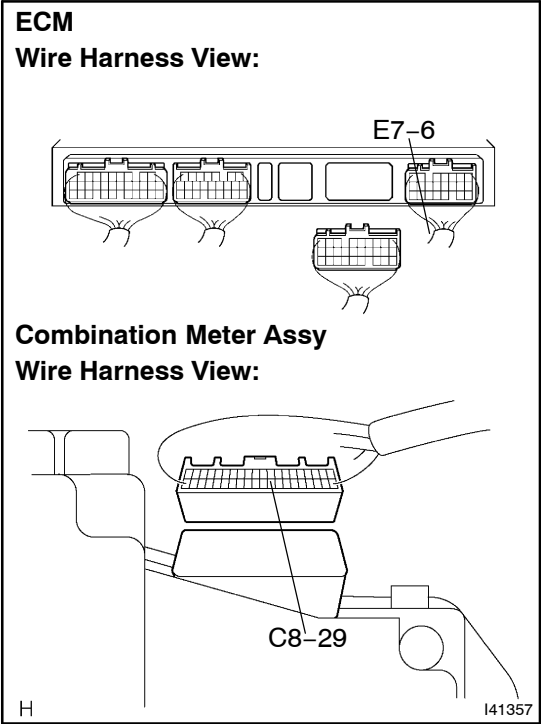
**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**REPLACE ECM**

4

CHECK HARNESS AND CONNECTOR(BETWEEN ECM AND COMBINATION METER ASSY)



- (a) Disconnect the C8 and E7 connectors.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
C8-29 – E7-6	Below 1 Ω
C8-29 – Body ground	10 kΩ or higher

NG

REPAIR OR  
CONNECTOR

REPLACE HARNESS OR

OK

REPLACE ECM