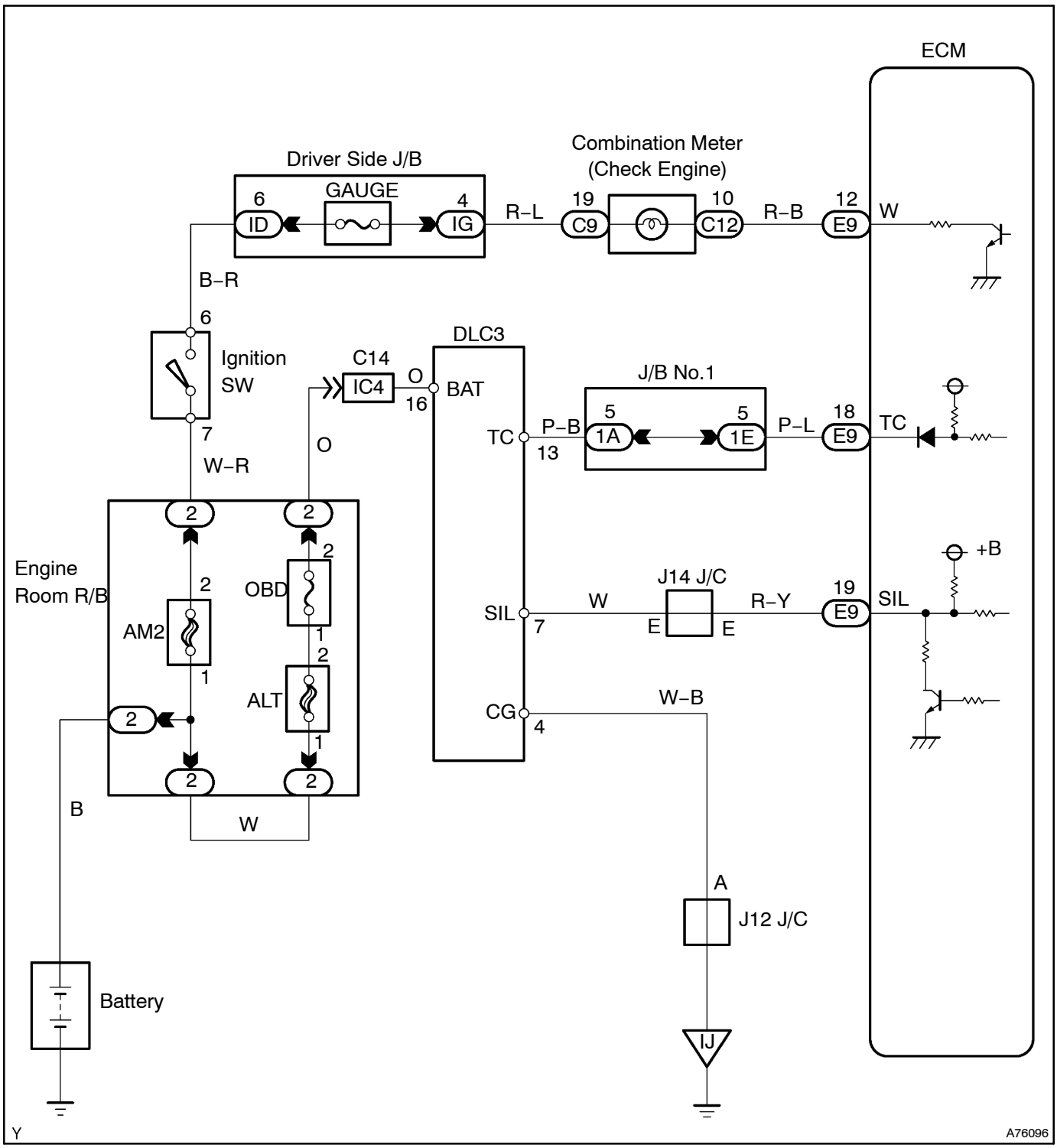
DIAGNOSIS CIRCUIT

CIRCUIT DESCRIPTION

Terminals TC and CG are located in the DLC3.
The DLC3 is located under the finish lower panel. When terminals TC and CG are connected, DTC in normal mode or test mode can be read from the check engine warning light in the combination meter.
Also, terminal SIL is located in the DLC3. This terminal is used by the M–OBD communication with hand–held tester.

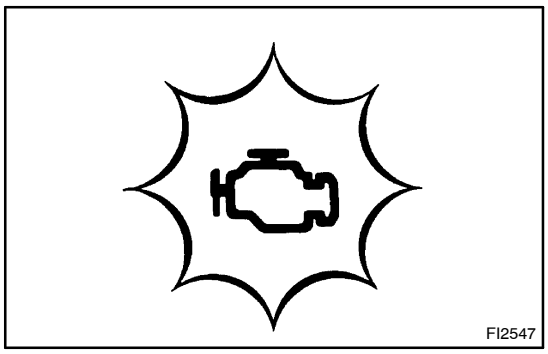
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK CHK ENG (MIL)

SST 09843–18040



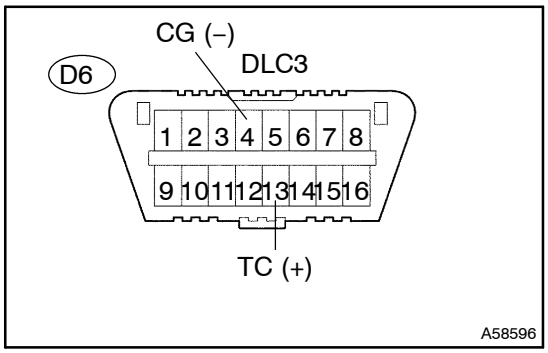
(a) Turn the ignition switch ON.
(b) Using SST, connect terminals TC and CG of the DLC3.
SST 09843–18040
(c) Check the CHK ENG (MIL) condition.
Result:
CHK ENG (MIL): Blinking

HINT:
If this inspection OK and there is no hand–held tester, do not need to do the following steps and this circuit is OK. Proceed to next circuit inspection shown on problem symptom table (See page 05–316).

OK → **Go to step 8**

NG

2 CHECK DLC3(CHECK VOLTAGE)



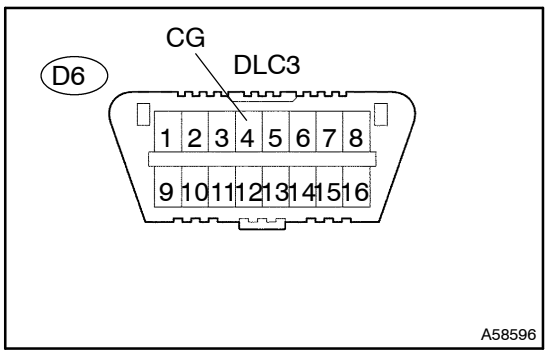
(a) Turn the ignition switch ON.
(b) Measure the voltage between the terminals of the DLC3.
Voltage:

Symbols (Terminal No.)	Specified condition
TC (D6 – 13) ⇔ CG (D6 – 4)	9 – 14 V

OK → **Go to step 5**

NG

3 CHECK DLC3



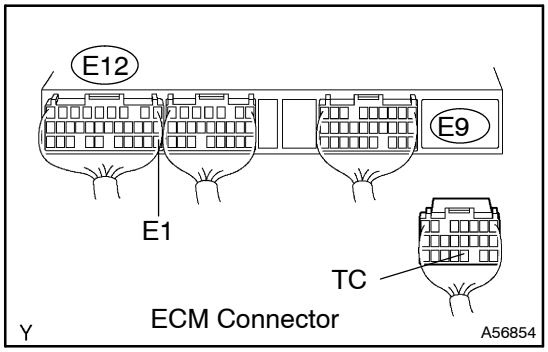
(a) Check the continuity between the DLC3 and body ground.

Symbols (Terminal No.)	Specified condition
CG (D6 – 4) ⇔ Body ground	Continuity

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4 CHECK HARNESS AND CONNECTOR(ECM – DLC3)



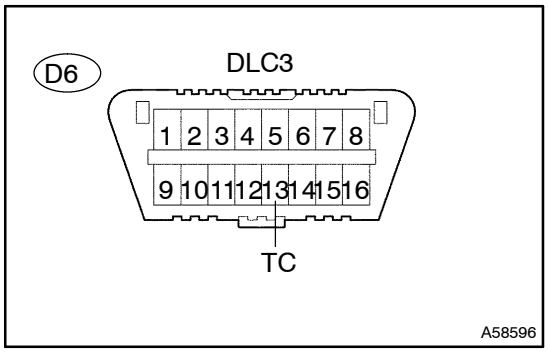
(a) Disconnect the ECM E9 connector.
(b) Check the continuity between the wire harness side connector.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
TC (E9 – 18) ⇔ TC (D6 – 13)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
TC (E9 – 18) ⇔ E1 (E12 – 22)	No continuity

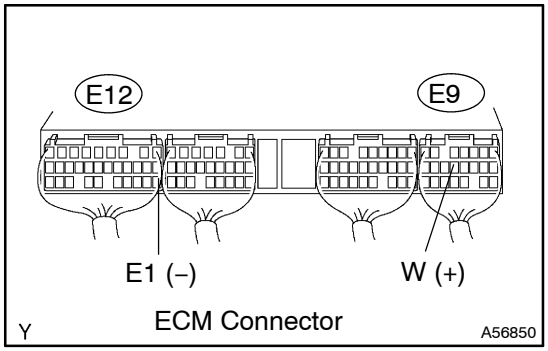


NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE ECM

5 INSPECT ECM(CHECK VOLTAGE)



(a) Turn the ignition switch ON.
(b) Measure the voltage between the terminals of the ECM connector.

Voltage:

Symbols (Terminal No.)	Specified condition
W (E9 – 12) ⇔ E1 (E12 – 22)	9 – 14 V

OK → **CHECK AND REPLACE ECM**

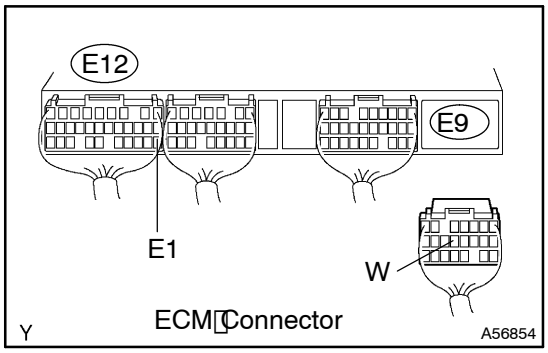
NG

6	CHECK BULB(ENGINE WARNING LIGHT)

NG → REPLACE BULB

OK

7	CHECK HARNESS AND CONNECTOR(ECM – COMBINATION METER)



(a) Disconnect the combination meter C12 connector. (See page 71–25)
(b) Disconnect the ECM E9 connector.
(c) Check the continuity between the wire harness side connector.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
CHK (C12 – 10) (Terminal arrangement on 05–1554) ↔ W (E9 – 12)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
W (E9 – 12) ↔ E1 (E12 – 22)	No continuity

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE ECM

8	READ OUTPUT DTC OF HAND–HELD TESTER(INCLUDING NORMAL DTC)

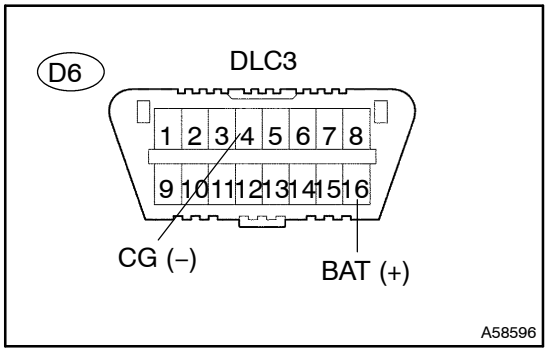
Result:

Display	Proceed
DTC code is not output	A
DTC code is output	B

B → PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–316)

A

9 CHECK DLC3(CHECK VOLTAGE)



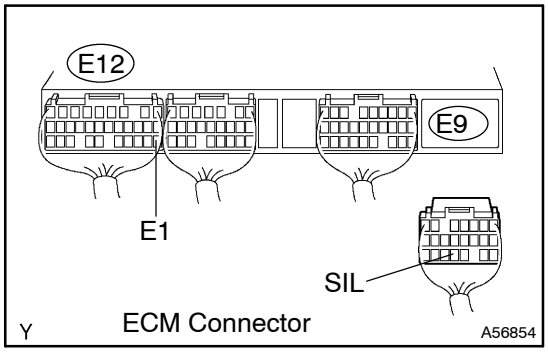
(a) Measure the voltage between the terminals of the DLC3.
Voltage:

Symbols (Terminal No.)	Specified condition
BAT (D6 – 16) ⇔ CG (D6 – 4)	9 – 14 V

NG → **Go to step 11**

OK

10 CHECK HARNESS AND CONNECTOR(ECM – DLC3)

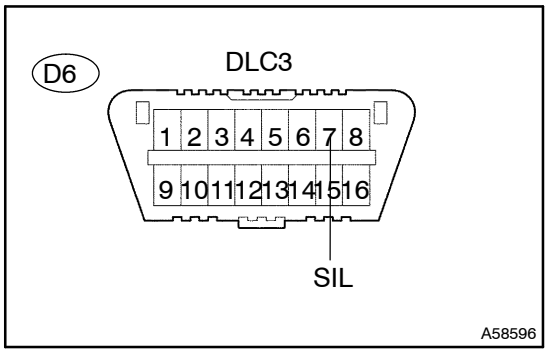


(a) Disconnect the ECM E9 connector.
(b) Check the continuity between the wire harness side connector.
Standard (Check for open):

Symbols (Terminal No.)	Specified condition
SIL (D6 – 7) ⇔ SIL (E9 – 19)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
SIL (E9 – 19) ⇔ E1 (E12 – 22)	No continuity

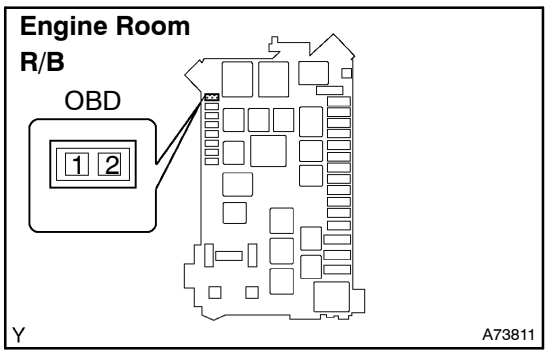


NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE ECM

11 CHECK FUSE(OBD FUSE)

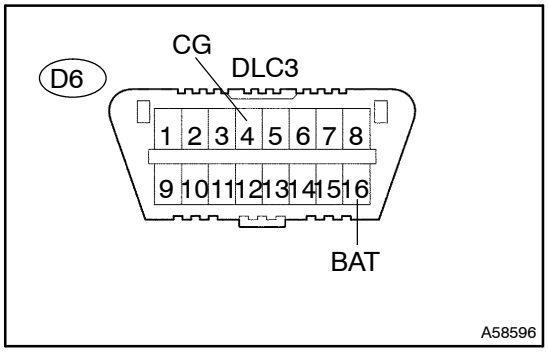


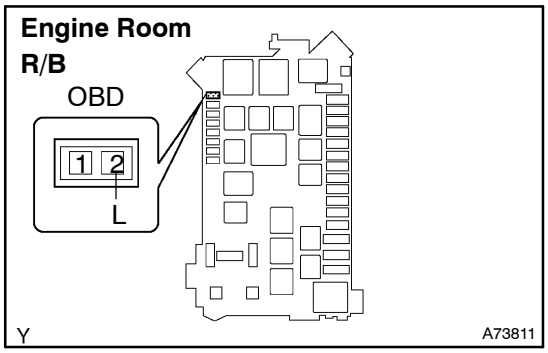
(a) Remove the OBD fuse from the engine room R/B.
(b) Check the continuity of the OBD fuse.
Resistance: Continuity

NG → **REPLACE FUSE**

OK

12 CHECK HARNESS AND CONNECTOR(DLC3 – ENGINE ROOM R/B)





(a) Remove the OBD fuse from the engine room R/B.
(b) Check the continuity between the wire harness side connector.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
L (OBD fuse terminal 2 of R/B) ⇔ BAT (D6 – 16)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
BAT (D6 – 16) ⇔ CG (D6 – 4)	No continuity

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPAIR OR REPLACE POWER SOURCE CIRCUIT