

DIAGNOSIS CIRCUIT

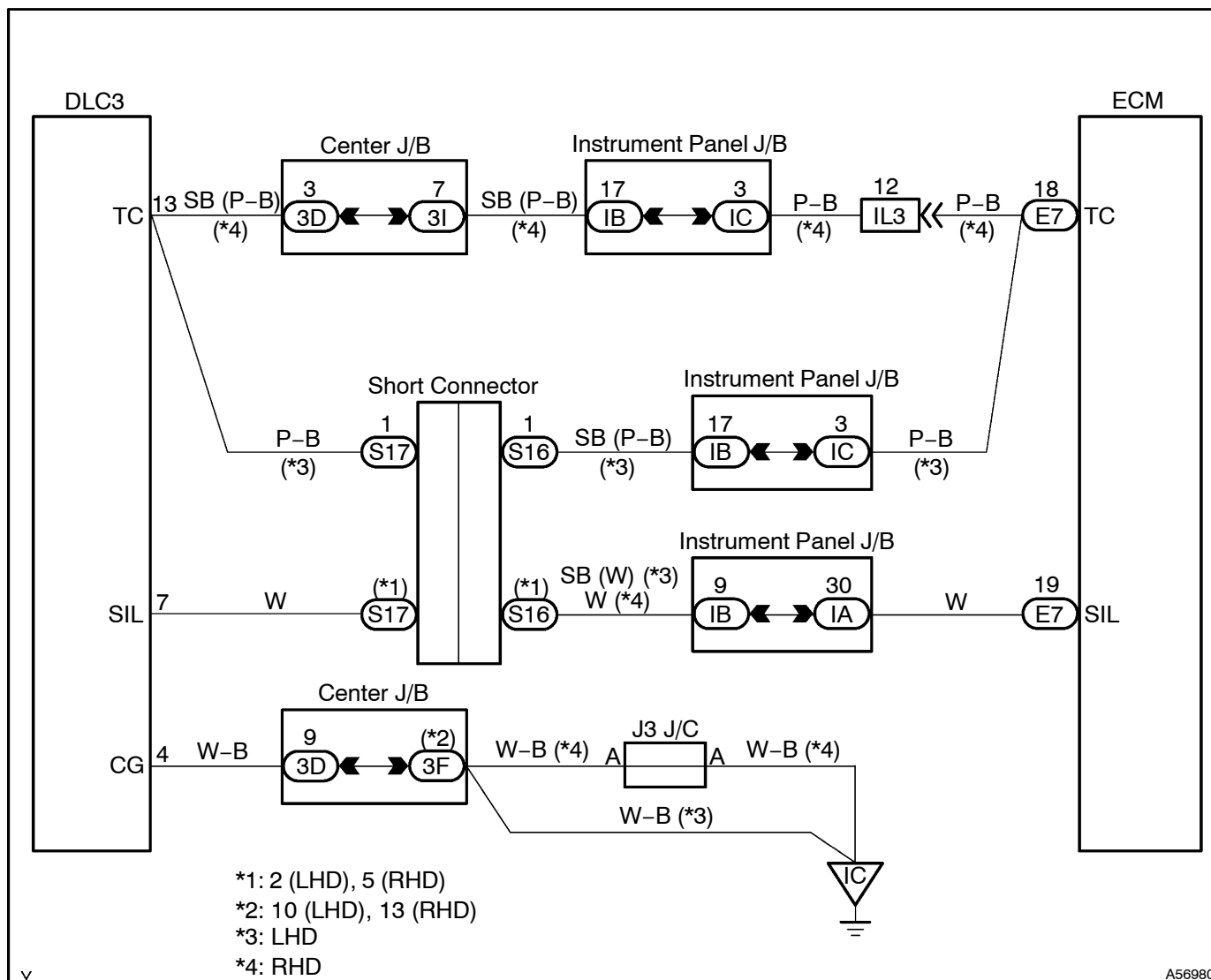
CIRCUIT DESCRIPTION

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.

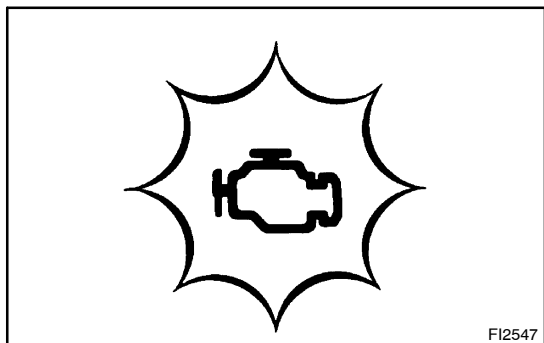
WIRING DIAGRAM



A56980

INSPECTION PROCEDURE

1 CHECK CHK ENG (MIL)



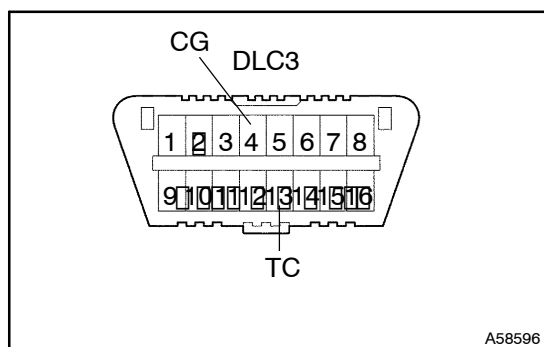
- Turn the ignition switch ON.
- Using SST, connect terminals TC and CG of the DLC3.
SST 09843-18040
- Check the CHK ENG (MIL) condition.

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 05-170).

OK**Go to step 8****NG**

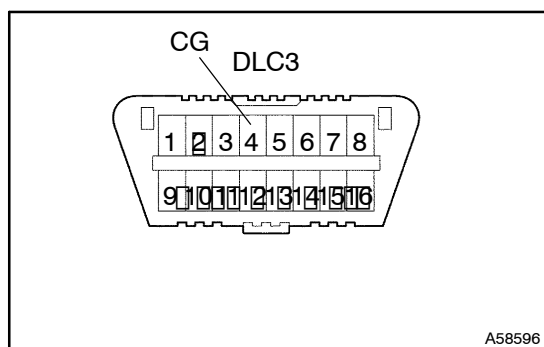
2 CHECK HARNESS AND CONNECTOR (TERMINAL OF DLC3)



- Turn the ignition switch ON.
- Measure the voltage between terminals TC and CG of the DLC3.

Voltage: 9 - 14 V**OK****Go to step 5****NG**

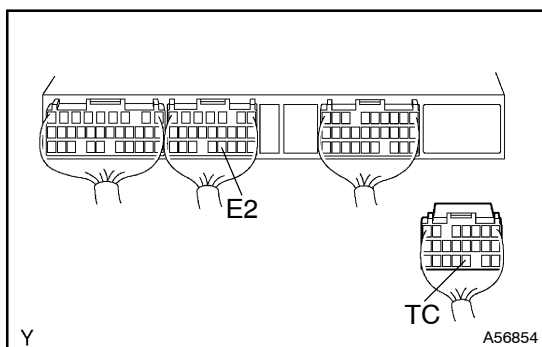
3 CHECK HARNESS AND CONNECTOR (TERMINAL OF DLC3)



- Check continuity terminal CG of DLC3 and body ground.
Resistance: 1 Ω or less

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK**

4 CHECK HARNESS AND CONNECTOR(ECM-DLC3)

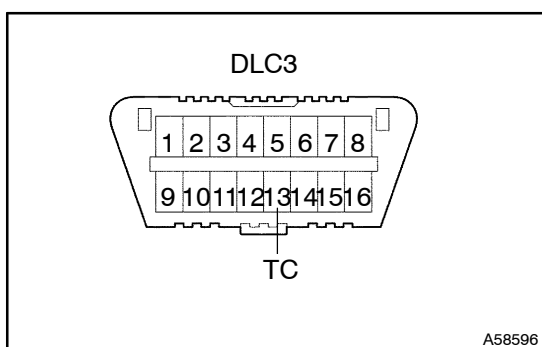


- (a) Disconnect the ECM E7 connector.
- (b) Check for open between the terminals TC of the ECM E7 connector and TC of the DLC3.

Resistance: 1 Ω or less

- (c) Check for short between the terminals TC of the ECM E7 connector and E2 of the ECM E10 connector.

Resistance: 1 M Ω or more

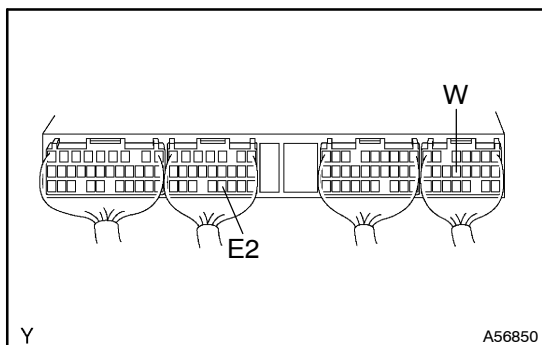


NG

**REPAIR OR REPLACE
HARNESS AND CONNECTOR**

OK

5 INSPECT ECM



- (a) Turn the ignition switch ON.
- (b) Measure the voltage between terminal W and E2 of the ECM connector.

Voltage: 9 – 14 V

OK

CHECK AND REPLACE ECM

NG

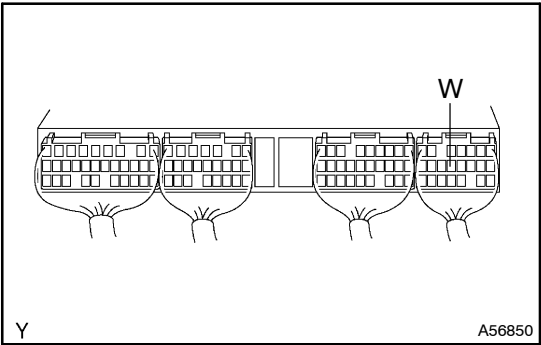
6 CHECK BULB(ENGINE WARNING LIGHT)

NG

REPLACE BULB

OK

7 CHECK HARNESS AND CONNECTOR (ECM-COMBINATION METER)



- (a) Disconnect the combination meter C8 connector. (See page 1-19)
- (b) Disconnect the ECM E7 connector.
- (c) Check for open between the terminals W of the ECM E7 connector and C8 of the combination meter harness side connector. (Terminal arrangement on 5-656)
Resistance: 1 Ω or less

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM

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

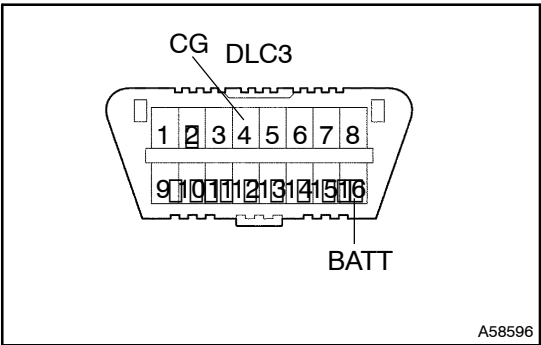
Result:

	A	B
Result	DTC code is output	DTC code is not output

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE (See page 5-170)

A

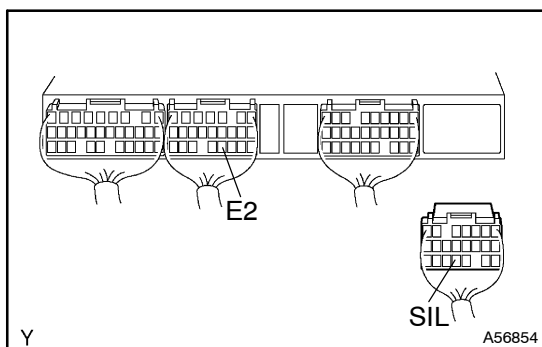
9 CHECK HARNESS AND CONNECTOR (TERMINAL OF DLC3)



- (a) Measure the voltage between terminal BATT and CG of the DLC3.
Voltage: 9 - 14 V

NG Go to step 11

OK

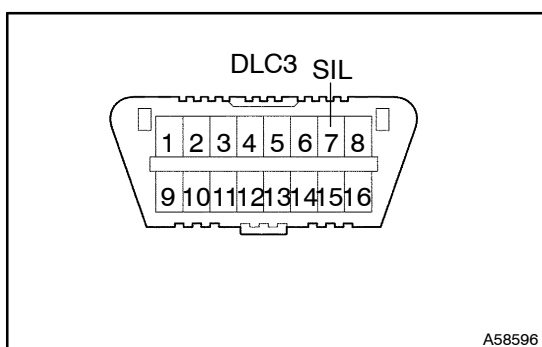
10 CHECK HARNESS AND CONNECTOR(ECM-DLC3)

- (a) Disconnect the ECM E7 connector.
- (b) Check for open between the terminals SIL of the ECM E7 connector and SIL of the DLC3.

Resistance: 1 Ω or less

- (c) Check for short between the terminals SIL of the ECM E7 connector and E2 of the ECM E10 connector.

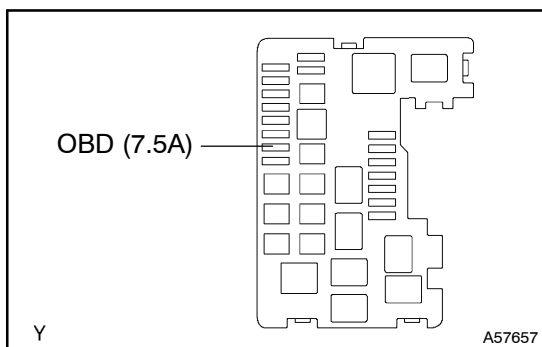
Resistance: 1 M Ω or more



NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM**11 CHECK FUSE(OBD FUSE)**

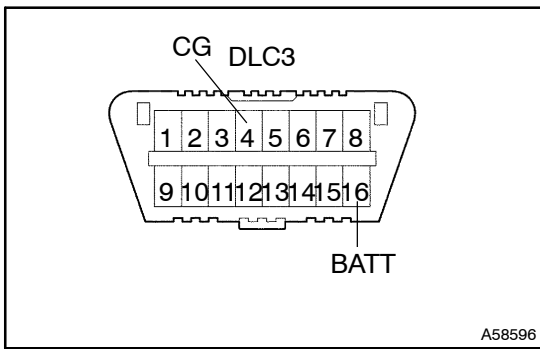
- (a) Remove the OBD fuse from the engine room R/B.
- (b) Check the continuity of the OBD fuse.

Resistance: 1 Ω or less

NG

REPLACE FUSE

OK

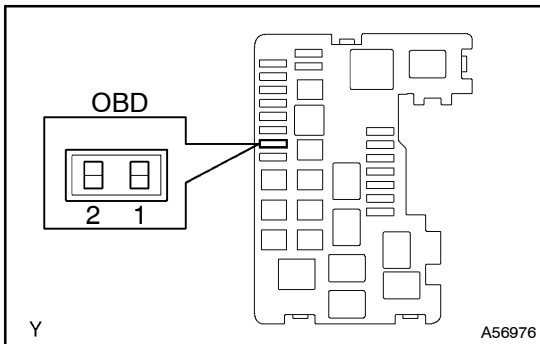
12 CHECK HARNESS AND CONNECTOR(DLC3-ENGINE ROOM R/B)

- (a) Remove the OBD fuse from the engine room R/B.
- (b) Check for open between the terminals BATT of the DLC3 and 2 of the OBD fuse.

Resistance: 1 Ω or less

- (c) Check for short between the terminals BATT and CG of the DLC3.

Resistance: 1 M Ω or more



NG

**REPAIR OR REPLACE
HARNESS AND CONNECTOR**

OK

REPAIR OR REPLACE POWER SOURCE CIRCUIT