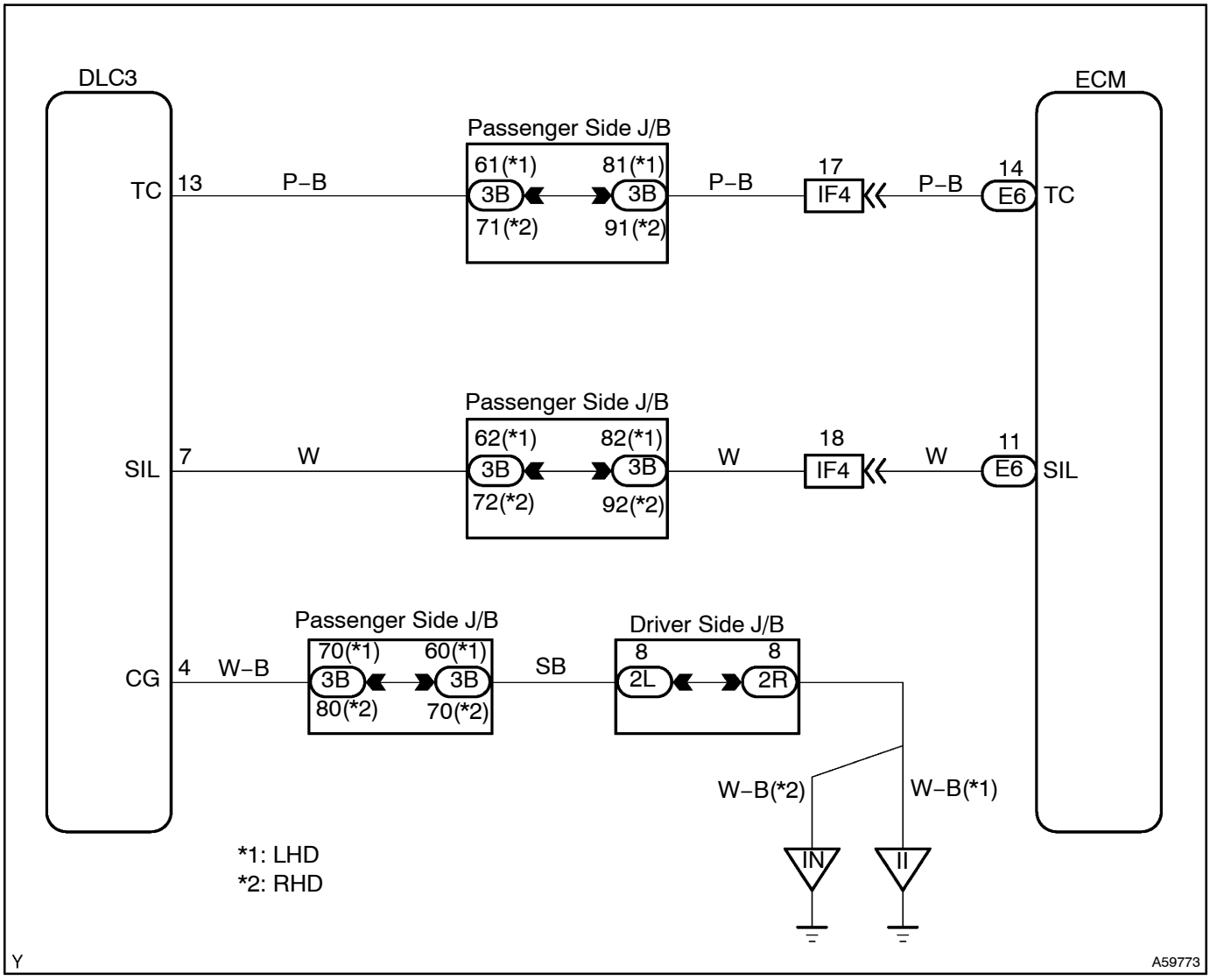
DIAGNOSIS CIRCUIT

CIRCUIT DESCRIPTION

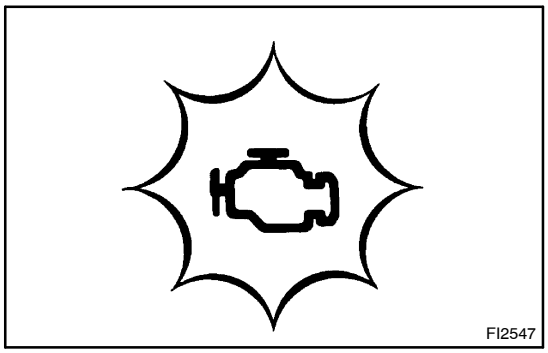
Terminals TC and CG are located in the DLC3.
The DLC3 is located under the finish lower panel. When terminals TC and CG are connected, DTC in normal mode or test mode can be read from the check engine warning light in the combination meter.
Also, terminal SIL is located in the DLC3. This terminal is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

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK CHK ENG (MIL)



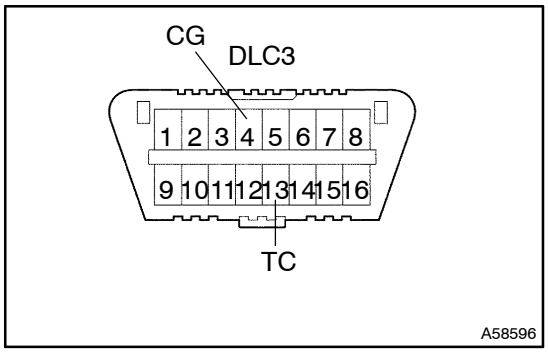
(a) Turn the ignition switch ON.
(b) Using SST, connect terminals TC and CG of the DLC3.
SST 09843–18040
(c) Check the CHK ENG (MIL) condition.
Result:
CHK ENG (MIL): Blinking

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.

OK → **Go to step 8**

NG

2	CHECK WIRE HARNESS OR CONNECTOR(TERMINAL OF DLC3)

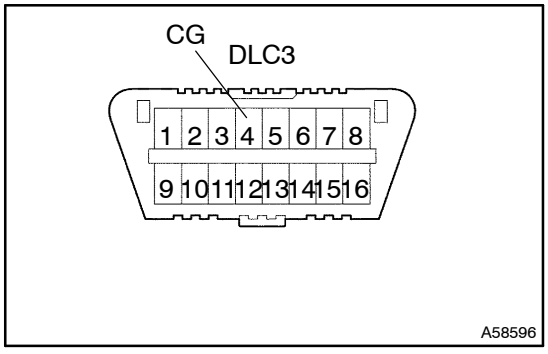


(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals TC and CG of the DLC3.
Voltage: 9 – 14 V

OK → **Go to step 5**

NG

3	CHECK WIRE HARNESS OR CONNECTOR(TERMINAL OF DLC3)

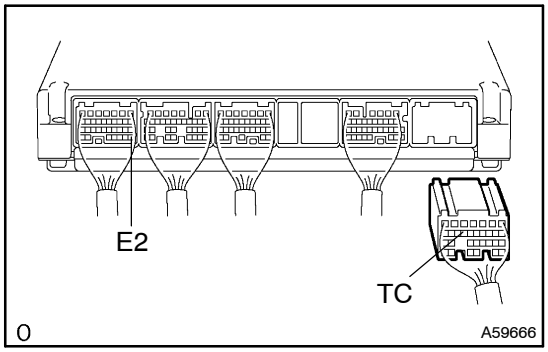


(a) Check continuity terminal CG of DLC3 and body ground.
Resistance: 1 Ω or less

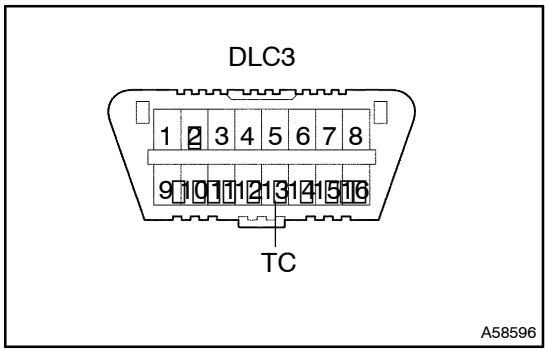
NG → **REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR**

OK

4 CHECK WIRE HARNESS OR CONNECTOR (ECM–DLC3)



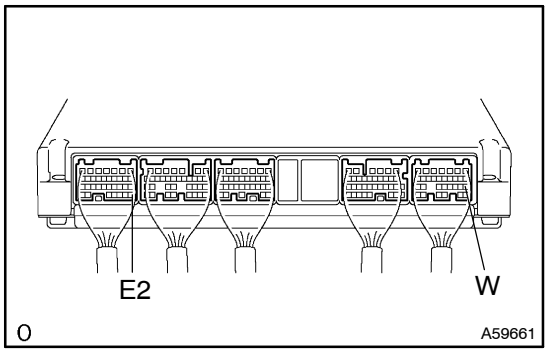
(a) Disconnect the ECM E6 connector.
(b) Check continuity between the terminals TC of the ECM connector and TC of the DLC3 connector.
Resistance: 1 Ω or less
(c) Check for short between the terminals TC of the ECM connector and E2 of the ECM connector.
Resistance: 1 MΩ or more



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

OK

5 INSPECT ECM (CHECK VOLTAGE)



(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**

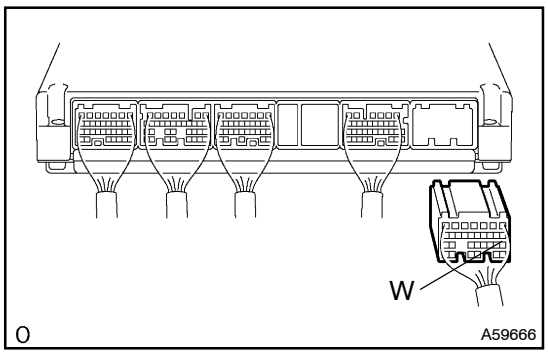
NG

6 CHECK BULB (ENGINE WARNING LIGHT) (See page 71–21)

NG → **REPLACE BULB**

OK

7	CHECK WIRE HARNESS OR CONNECTOR(ECM–COMBINATION METER)



(a) Disconnect the combination meter connector.
(b) Disconnect the ECM E6 connector.
(c) Check continuity between the terminals W of the ECM connector and 16 of the combination meter harness side connector. (See page 05–1170)
Resistance: 1 Ω or less

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

OK

CHECK AND REPLACE ECM

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

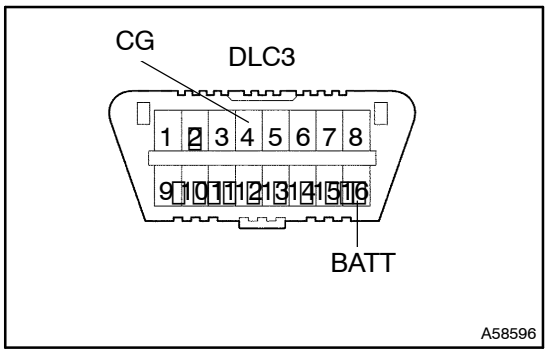
Result:

	A	B
RESULT	DTC code is output	DTC code is not output

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–152)**

A

9	CHECK WIRE HARNESS OR CONNECTOR(TERMINAL OF DLC3)

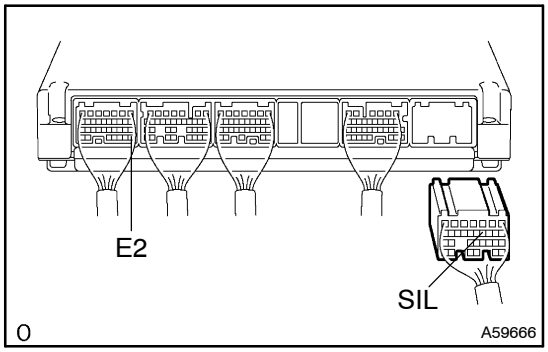


(a) Measure the voltage between terminal BATT and CG of the DLC3.
Voltage: 9 – 14 V

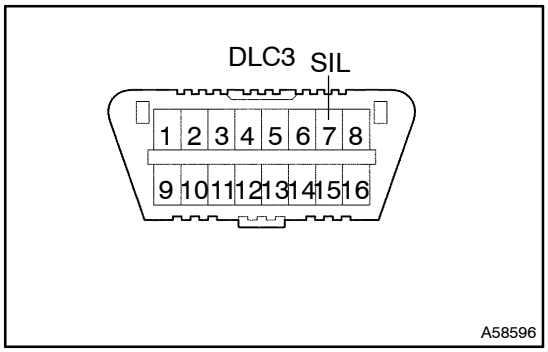
NG → **Go to step 11**

OK

10	CHECK WIRE HARNESS OR CONNECTOR(ECM–DLC3)



(a) Disconnect the ECM E6 connector.
(b) Check continuity between the terminals SIL of the ECM connector and SIL of the DLC3 connector.
Resistance: 1 Ω or less
(c) Check for short between the terminals SIL of the ECM connector and E2 of the ECM connector.
Resistance: 1 MΩ or more

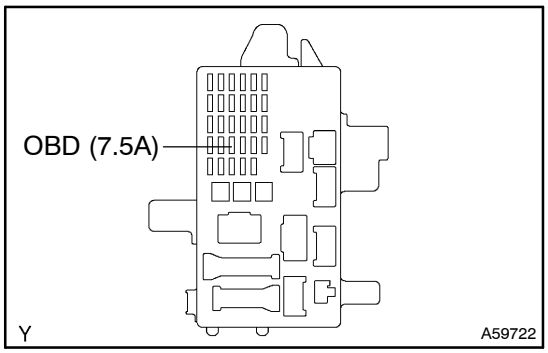


NG → **REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE ECM

11	CHECK FUSE(OBD FUSE)

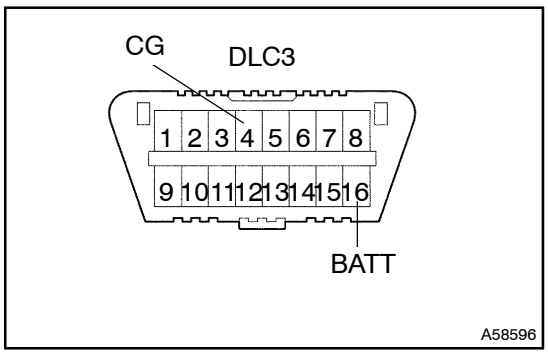


(a) Remove the OBD fuse from the instrumennt panel J/B.
(b) Check the continuity of the OBD fuse.
Resistance: 1 Ω or less

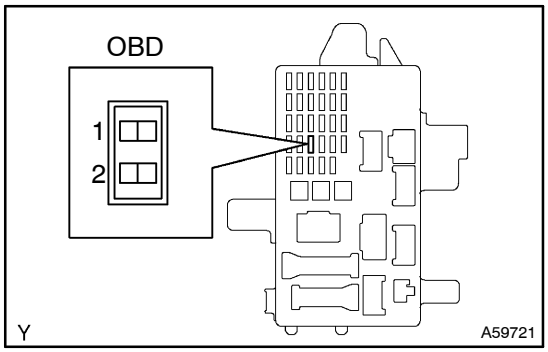
NG → **REPLACE FUSE**

OK

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



(a) Remove the OBD fuse from the instrument panel J/B.
(b) Check continuity 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 MΩ or more



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

OK

REPAIR OR REPLACE POWER SOURCE CIRCUIT