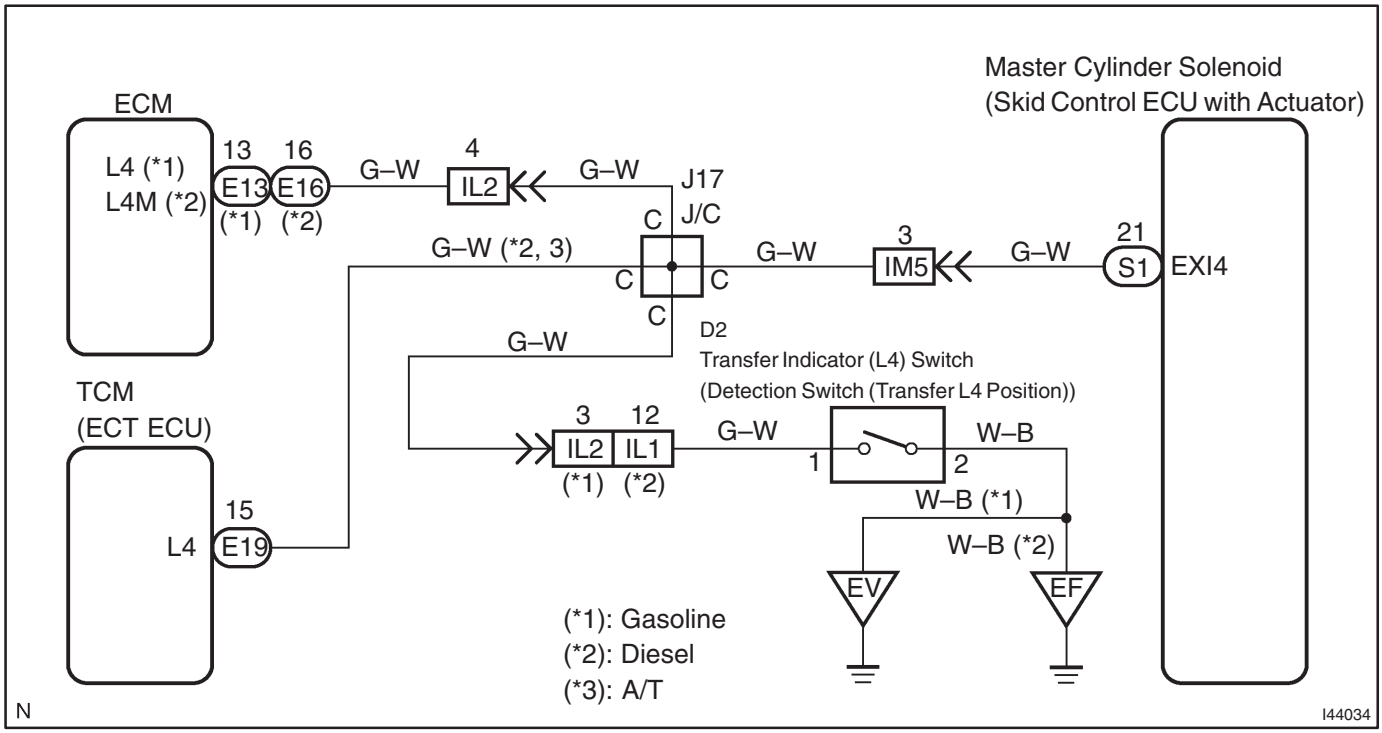
DTC C1268/68 L4 SIGNAL PICKUP MALFUNCTION

CIRCUIT DESCRIPTION

After confirming that the transfer is in the L4 position, A–TRC and DAC will be activated according to the vehicle conditions (see page 05–730).

DTC No.	DTC Detection Condition	Trouble Area
C1268/68	The L4 signal input to the ECU does not match the L4 signal output from the ECM	• Transfer indicator (L4) switch • Transfer indicator (L4) switch circuit

WIRING DIAGRAM



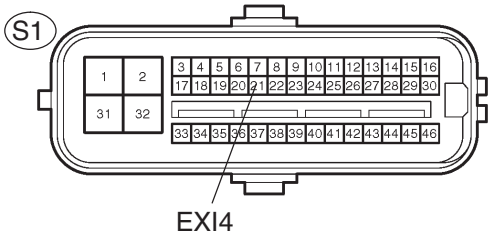
INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (see page 05–744).

1	INSPECT SKID CONTROL ECU (EXI4 TERMINAL VOLTAGE)

Skid Control ECU (Wire Harness Side) Connector Front View:



(a) Disconnect the TCM connector (Diesel (A/T) only).
(b) Disconnect the skid control ECU connector.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
S1–21 (EXI4) – Body ground	Transfer indicator switch ON (Shift L4 position)	Below 1.5 V
S1–21 (EXI4) – Body ground	Transfer indicator switch OFF (Any shift position except L4)	8 to 14 V

NG → **Go to step 4**

OK

2	PERFORM TEST MODE (SIGNAL CHECK) (SEE PAGE 05–748)

(a) Reconnect the skid control ECU connector.
(b) Check test mode (signal check) DTC is detected.

Result:

Test mode (signal check) DTC is output	A
Test mode (signal check) DTC is not output (When troubleshooting in accordance with the DTC CHART.)	B
Test mode (signal check) DTC is not output (When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE.)	C

B → **REPAIR OR REPLACE HARNESS OR CONNECTOR (L4 OR L4M CIRCUIT)**

C → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–759)**

A

3 RECONFIRM DTC

(a) Clear the DTC (see page 05–766).
(b) Check if the same DTC is detected (see page 05–766).

HINT:
Reinstall the sensors, connectors, etc. and restore the previous vehicle conditions before rechecking for DTCs.

Result:

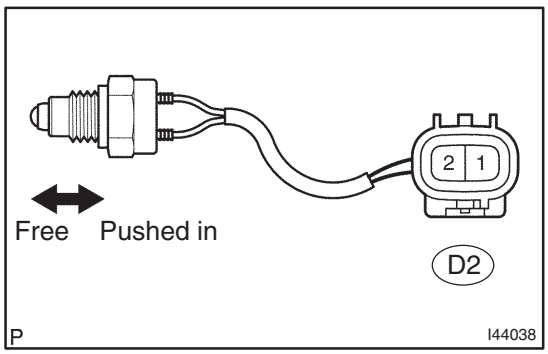
DTC is output	A
DTC is not output	B

B → **END**

A

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)

4 INSPECT TRANSFER INDICATOR SWITCH



(a) Disconnect the transfer indicator (L4) switch connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

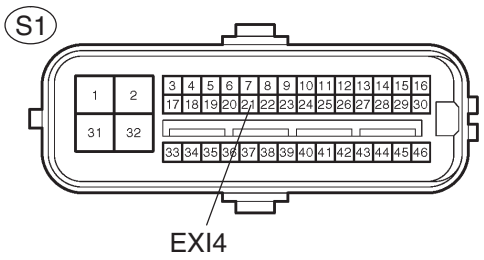
Tester Connection	Condition	Specified Condition
D2–1 – D2–2	Switch pin pushed in	Below 1 Ω
D2–1 – D2–2	Switch pin free	10 kΩ or higher

NG → **REPLACE TRANSFER INDICATOR SWITCH**

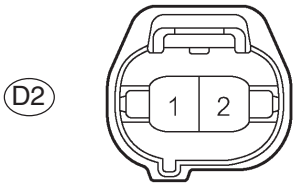
OK

5	CHECK HARNESS AND CONNECTOR (BETWEEN SKID CONTROL ECU, BODY GROUND AND TRANSFER INDICATOR SWITCH) (SEE PAGE 01–26)

Skid Control ECU (Wire Harness Side) Connector Front View:



Transfer Indicator (L4) Switch (Wire Harness Side) Connector Front View:



F49362
I44031

I45333

(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1–21 (EXI4) – D2–1	Below 1 Ω
S1–21 (EXI4) – Body ground	10 kΩ or higher
D2–2 – Body ground	Below 1 Ω

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

OK

6	CONFIRM VEHICLE MODES

(a) Confirm the vehicle models.

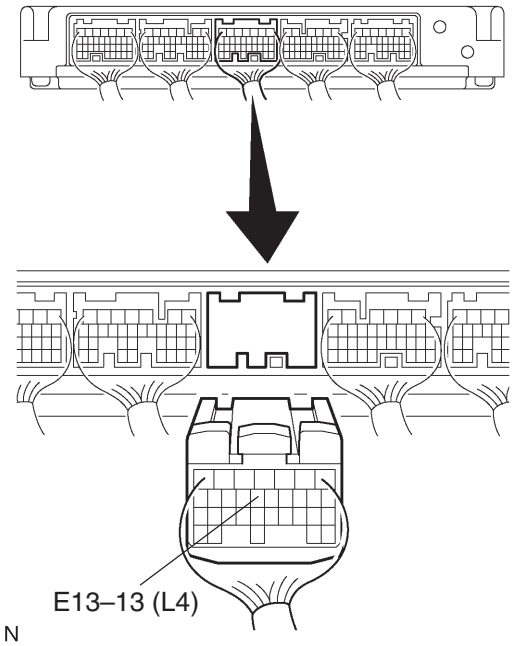
Gasoline	A
Diesel	B

B → **Go to step 8**

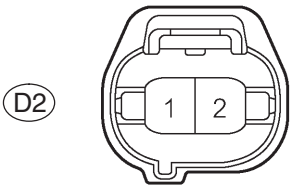
A

7	CHECK HARNESS AND CONNECTOR (BETWEEN ECM AND TRANSFER INDICATOR SWITCH) (SEE PAGE 01–26)

ECM
Wire Harness View:



Transfer Indicator Switch (Wire Harness Side)
Connector Front View:



I44051
I44031
I45334

(a) Disconnect the ECM connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
E13–13 (L4) – D2–1	Below 1 Ω
E13–13 (L4) – Body ground	10 kΩ or higher

Result:

OK (When troubleshooting in accordance with the DTC CHART.)	A
OK (When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE.)	B
NG	C

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–759)**

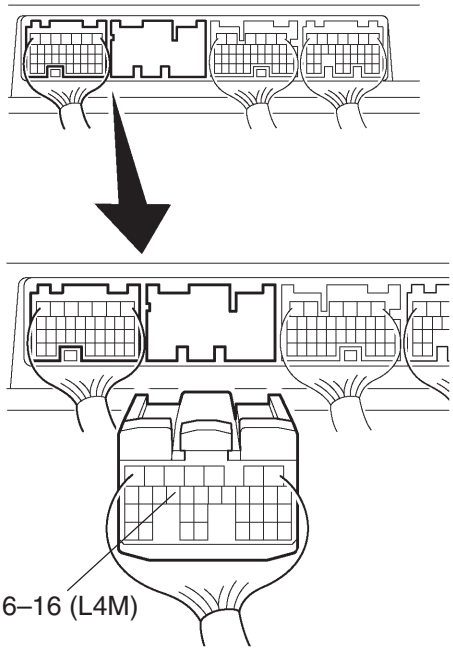
C → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

A

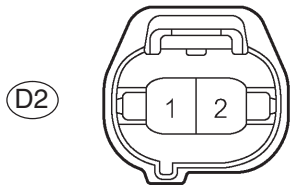
END

8	CHECK HARNESS AND CONNECTOR (BETWEEN ECM AND TRANSFER INDICATOR SWITCH) (SEE PAGE 01–26)

ECM
Wire Harness View:



Transfer Indicator Switch (Wire Harness Side)
Connector Front View:



I44059
I44031
I45335

(a) Disconnect the ECM connector.
(b) Measure the resistance according to the value(s) in the table below.

Tester Connection	Specified Condition
E16–16 (L4M) – D2–1	Below 1 Ω
E16–16 (L4M) – Body ground	10 kΩ or higher

Result:

OK (When troubleshooting in accordance with the DTC CHART.)	A
OK (When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE.)	B
NG	C

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–759)**

C → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

A

END