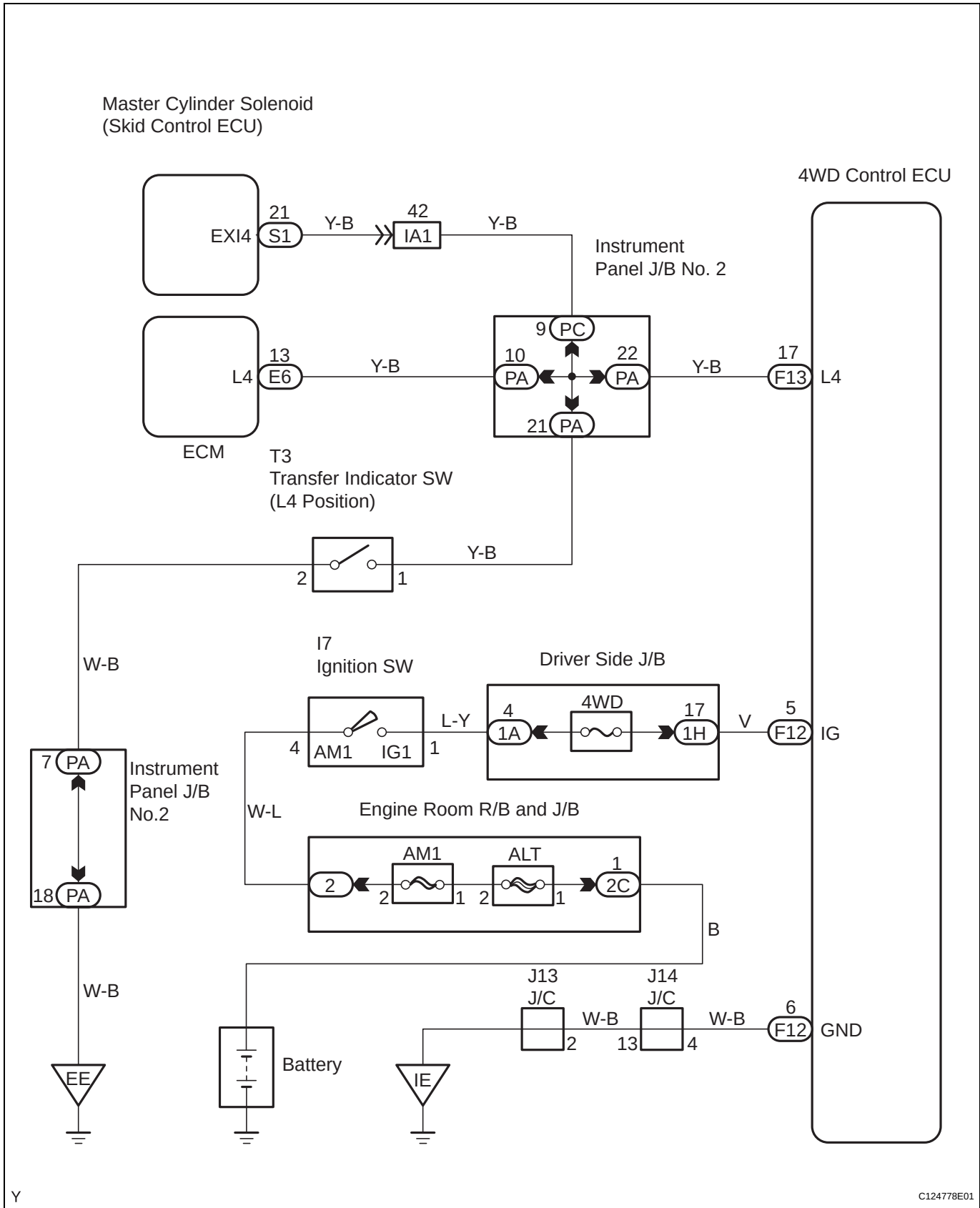


DTC**C1268/68****Transfer "L4" Position Switch Circuit****DESCRIPTION**

A-TRAC is activated if wheel skid is detected while the transfer is in the L4 position.

DTC No.	DTC Detecting Condition	Trouble Areas
C1268/68	L4 switch signal input to skid control ECU does not match L4 switch signal output from ECM.	• Transfer indicator switch (L4 position) • Transfer indicator switch (L4 position) circuit • Master cylinder solenoid (skid control ECU)

WIRING DIAGRAM

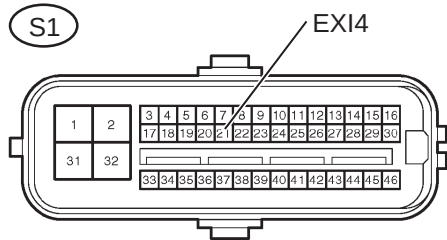


NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (See page [BC-99](#)).

1 INSPECT SKID CONTROL ECU (EXI4 TERMINAL VOLTAGE)

Skid Control ECU
(harness side connector):



C121700E18

- (a) Disconnect the skid control ECU connector.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage.

Standard

Tester Connection	Transfer Condition	Specified Condition
S1-21 (EXI4) - Body ground	L4	Below 1.5 V
S1-21 (EXI4) - Body ground	Other than above	8 to 14 V

- (d) Turn the ignition switch to OFF.
- (e) Reconnect the skid control ECU connector.

NG**Go to step 4****OK****2 PERFORM TEST MODE INSPECTION (SIGNAL CHECK)**

- (a) Check if the test mode DTC (C1283/83) is detected.

Result	Proceed to
Test mode DTC (C1283/83) not output	A
Test mode DTC (C1283/83) output	B

B**REPAIR TRANSFER INDICATOR SWITCH CIRCUIT (L4 POSITION)****A****3 RECONFIRM DTC**

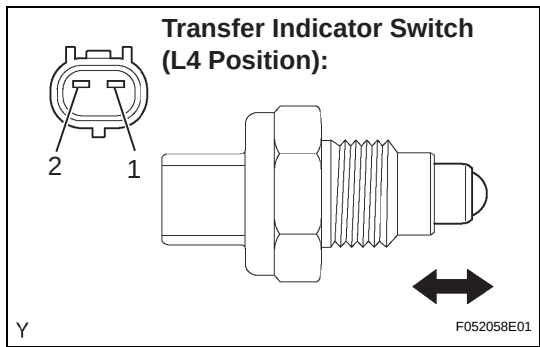
- (a) Clear the DTCs (See page [BC-118](#)).
- (b) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A
DTC not output	B

B**END****A****REPLACE MASTER CYLINDER SOLENOID**

4

INSPECT TRANSFER INDICATOR SWITCH (L4 POSITION)



- (a) Disconnect the transfer indicator switch (L4 position) connector.
- (b) Remove the transfer indicator switch (L4 position).
- (c) Measure the voltage.

Standard

Tester Connection	Switch Position	Specified Condition
1 - 2	Pushed	Below 1 Ω
1 - 2	Free	10 kΩ or higher

- (d) Reinstall the transfer indicator switch (L4 position).
- (e) Reconnect the transfer indicator switch (L4 position) connector.

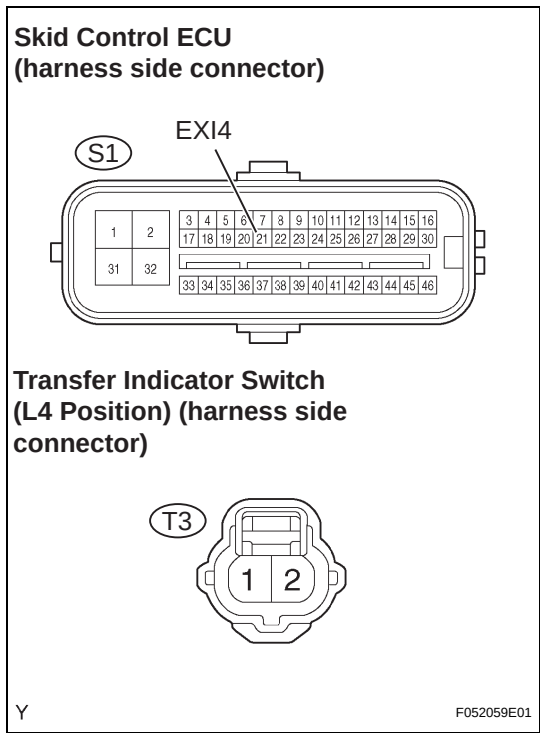
NG

REPLACE TRANSFER INDICATOR SWITCH

OK

5

CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - TRANSFER INDICATOR SWITCH (L4 POSITION))



- (a) Disconnect the skid control ECU connector.
- (b) Disconnect the transfer indicator switch (L4 position) connector.
- (c) Measure the resistance.

Standard

Tester Connection	Specified Condition
S1-21 (EX14) - T3-1	Below 1 Ω
S1-21 (EX14) - Body ground	10 kΩ or higher

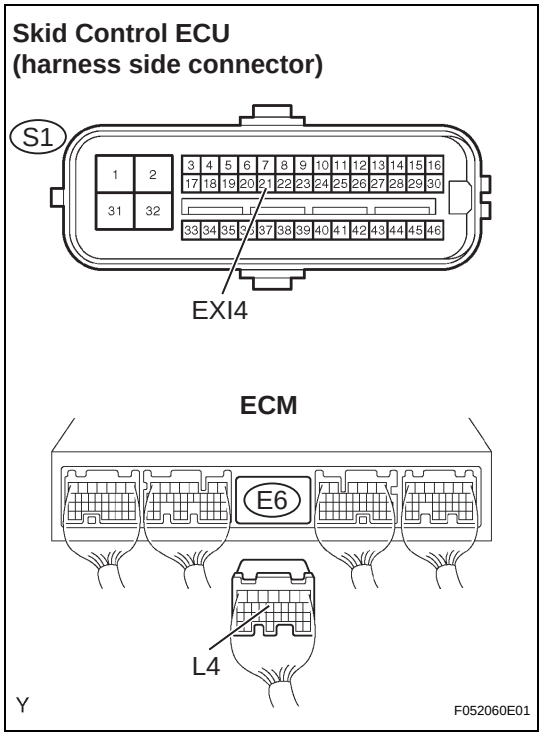
- (d) Reconnect the transfer indicator switch (L4 position) connector.
- (e) Reconnect the skid control ECU connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - ECM)



- Disconnect the skid control ECU connector.
- Disconnect the ECM connector.
- Measure the resistance.

Standard

Tester Connection	Specified Condition
S1-21 (EXI4) - E6-13 (L4)	Below 1 Ω

- Measure the resistance.

Standard

Tester Connection	Specified Condition
S1-21 (EXI4) - Body ground	10 kΩ or higher
E6-13 (L4) - Body ground	10 kΩ or higher

- Reconnect the ECM connector.
- Reconnect the skid control ECU connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE MASTER CYLINDER SOLENOID

BC