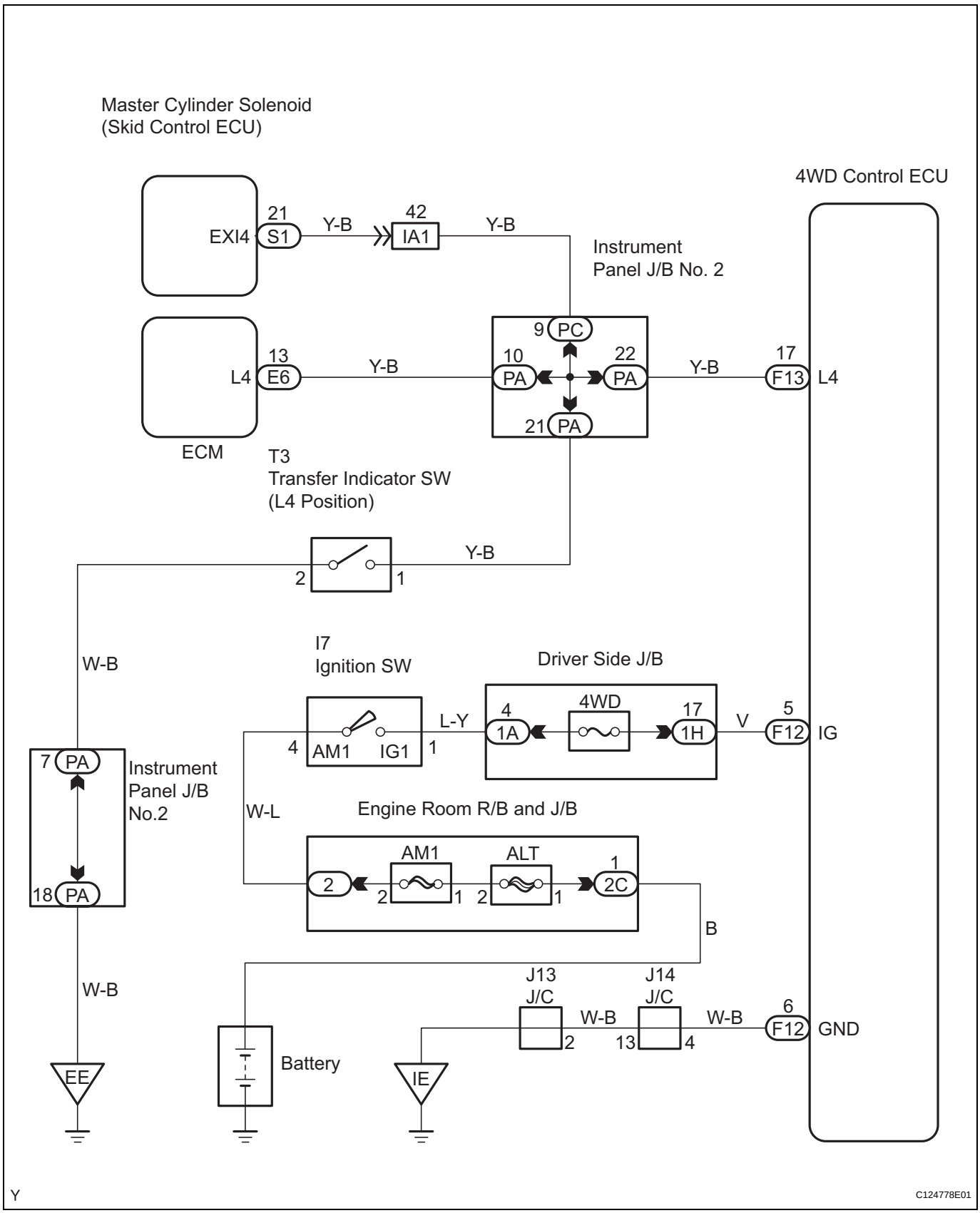
DTC	C1268/68	Transfer "L4" Position Switch Circuit

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)

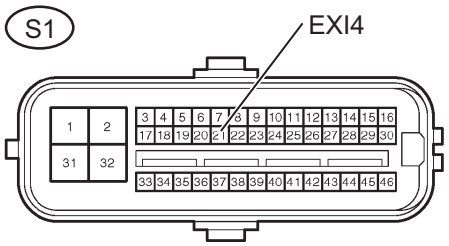
WIRING DIAGRAM



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

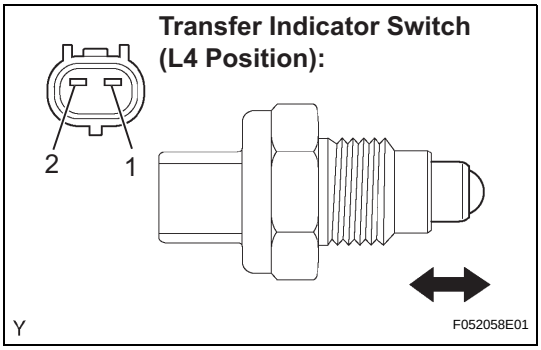
B → **END**

A

REPLACE MASTER CYLINDER SOLENOID

BC

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

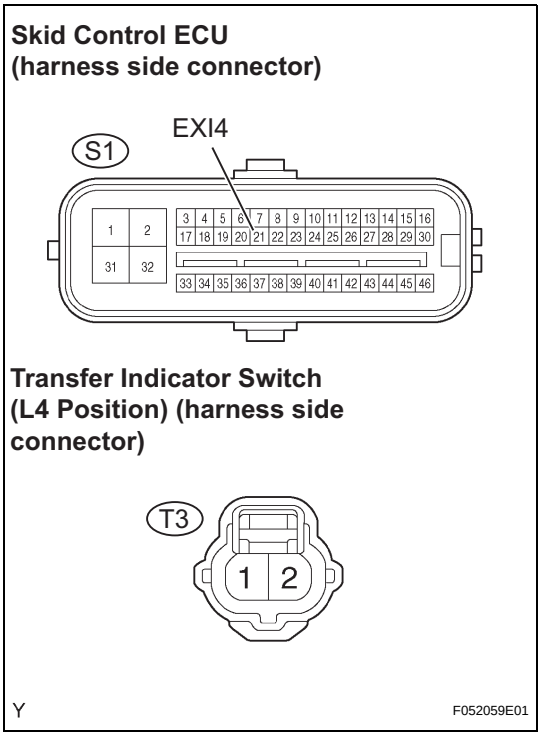
Tester Connection	Switch Position	Specified Condition
1 - 2	Pushed	Below 1 Ω
1 - 2	Free	10 kΩ or higher

(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 (EXI4) - T3-1	Below 1 Ω
S1-21 (EXI4) - Body ground	10 kΩ or higher

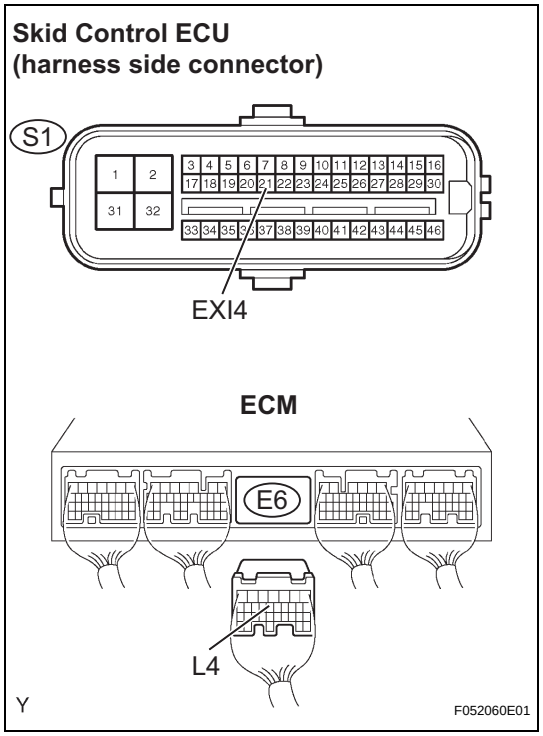
(d) Reconnect the transfer indicator switch (L4 position) connector.
(e) Reconnect the skid control ECU connector.

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

OK

BC

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



(a) Disconnect the skid control ECU connector.
(b) Disconnect the ECM connector.
(c) Measure the resistance.
Standard

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

(d) 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

(e) Reconnect the ECM connector.
(f) Reconnect the skid control ECU connector.

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

OK

REPLACE MASTER CYLINDER SOLENOID

BC