DTC	C0278/11	OPEN CIRCUIT IN ABS SOLENOID RELAY CIRCUIT
	· •	
DTC	C0279/12	SHORT CIRCUIT IN ABS SOLENOID RELAY CIRCUIT

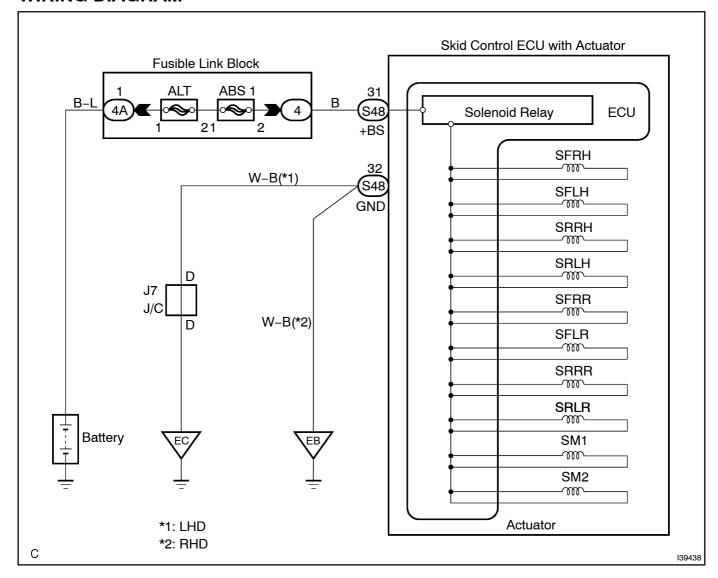
CIRCUIT DESCRIPTION

The ABS solenoid relay is built in the ABS & TRACTION actuator assy.

This relay supplies power to each ABS solenoid. If the initial check is OK, after the ignition switch is turned to the ON position, the relay stays on.

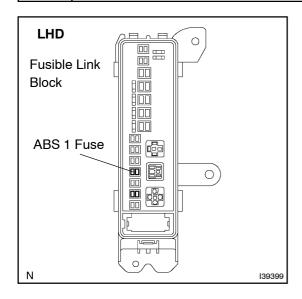
DTC No.	DTC Detecting Condition	Trouble Area
C0278/11	When any of the following (1 to 2) is detected: (1) All of the following conditions continue for at least 0.2 seconds. •IG voltage is between 9.5 and 17.2 V. •Relay contact is open when the relay is ON. (2) All of the following conditions continue for at least 0.2 seconds. •IG voltage is 9.5 V or less when the relay is ON. •Relay contact remains open.	ABS 1 fuse ABS SOL relay BBS SOL relay circuit ABS & TRC actuator
C0279/12	The following condition continues for at least 0.2 seconds. • Relay contact is closed immediately after turning IG switch to the ON position when the relay is OFF.	ABS 1 fuse ABS SOL relay BS SOL relay circuit ABS & TRC actuator

WIRING DIAGRAM



INSPECTION PROCEDURE

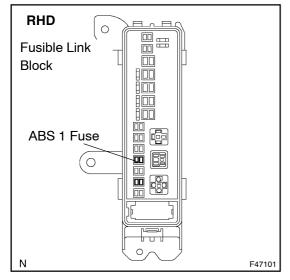
1 INSPECT FUSE(ABS1 FUSE)



LHD:

- (a) Remove the ABS 1 fuse from the fusible link block.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

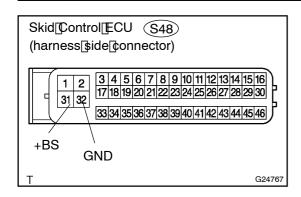


NG

CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE



2 | INSPECT| \$KID| CONTROL| ECU| CONNECTOR (+BS| TERMINAL| VOLTAGE)



- (a) ☐ Disconnect the skid control ECU connector.
- (b) Measure[the]voltage[according[to[the]value(s)[in[the]table below.

Standard:

Tester Connection	Specified[Condition	
S48-31[]+BS) -[Body[ground	10 to 14 V	

(c) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

Standard:

Tester@onnection	Specified[Condition
S48-32[[GND] -[Body[ground	Below 1 Ω



OK

3 | RECONFIRMIDTC

HINT:

This code is detected when a problem is determined in the brake actuator assy.

The ABS solenoid is in the brake actuator assy.

Therefore, solenoid ircuit nspection and solenoid unit nspection cannot be performed. Be sure to check if he DTC code solution before performed before replacing he brake actuator assy.

- (a) Clear the DTC see page 05-400).
- (b) Turn the ignition switch to the ON position.
- (c) Check[]hat[]he[]same[]DTC[]s[]ecorded.

OK:

The same DTC is recorded.



PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-395)

HINT:

It is suspect that the IDTCs output was caused by the poor connection on the connector eminal.

ОК

REPLACE[ABS]&[TRACTION[ACTUATOR[ASSY(SEE[PAGE[32-53)]

NOTICE:

When replacing ABS TRACTION ACTUATOR ASSY, perform zero point calibration (see page 05-387).