SENSOR	DTC	C1365/54	MALFUNCTION IN ACC PRESSURE SENSOR
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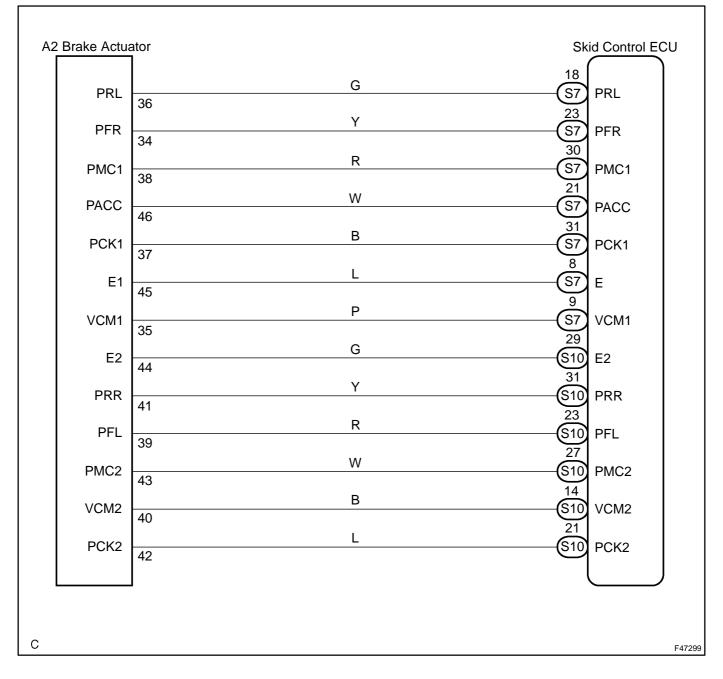
CIRCUIT DESCRIPTION

The accumulator (ACC) pressure sensor is built into the brake actuator.

The skid control ECU detects the accumulator pressure from the data sent from the accumulator pressure sensor, and then runs and stops the pump motor by operating the motor relay.

DTC No.	Detailed Code	DTC Detecting Condition	Trouble Area
C1365/54	211	Sensor power 1 (VCM1) voltage is 4.7 V or less or 5.3 V or more for at least 0.05 sec.	 Brake actuator assy (accumula- tor pressure sensor) Skid control ECU
C1365/54	212	Ratio of accumulator pressure sensor output voltage (PACC) to sensor power 1 (VCM1) voltage is 5% or less or 90.5% or more for at least 0.05 sec.	 Brake actuator assy (accumula- tor pressure sensor) Skid control ECU
C1365/54	214	Total wheel cylinder pressure sen- sor exceeds 12 MPa after de- pressing brake pedal, but accumu- lator pressure sensor output volt- age (PACC) changes less than 0.5 MPa for at least 0.5 sec.	 Brake actuator assy (accumula- tor pressure sensor) Skid control ECU
C1365/54	215	Ratio of accumulator pressure sensor output voltage (PACC) to sensor power 1 (VCM1) voltage is 90.5% or less for at least 0.1 sec. during self-diagnosis.	 Brake actuator assy (accumula- tor pressure sensor) Skid control ECU
C1365/54	216	Voltage difference is 0.3 V or more before and after changing the pull up resistance in sensor signal in- put circuit (loose contact).	 Brake actuator assy (accumula- tor pressure sensor) Skid control ECU

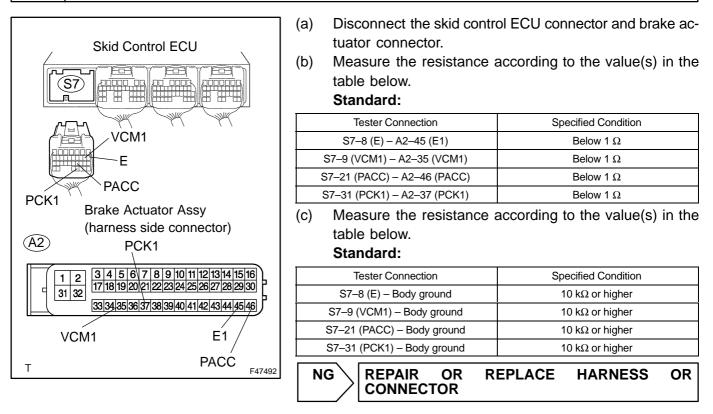
WIRING DIAGRAM



1

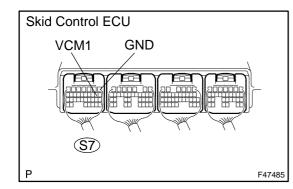
INSPECTION PROCEDURE

CHECK HARNESS AND CONNECTOR



OK

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(VCM1 – GND)



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

HINT:

Measure the voltage from behind the connector with the connector connected to the skid control ECU.

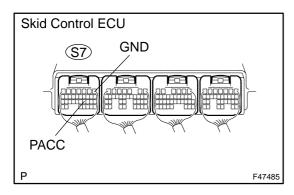
Standard:

Tester Connection	Condition	Specified Condition
S7–9 (VCM1) – S7–1 (GND)	Power switch ON (READY)	4.75 to 5.25 V



ΟΚ

3 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(PACC – GND)



- (a) Check the auxiliary battery voltage. Standard: 10 to 14 V
- (b) Depress the brake pedal to operate the pump motor, and then check that the pump motor stops.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S7–21 (PACC) – S7–1 (GND)	3.3 to 4.7 V

NOTICE:

- Do not depress the brake until after the pump motor stops and the voltage check is finished in order to keep the accumulator pressure.
- Check from behind the connector with the connector connected to the skid control ECU.
- Do not use a DATA LIST, as the sensor itself must be checked.



OK

4

READ VALUE OF HAND-HELD TESTER

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the power switch ON (READY).
- (c) Select the DATA LIST mode on the hand-held tester.

ltem	Measurement Item / Range (Display)	Normal Condition
ACC PRESS SENS 1 Accumulator pressure sensor 1 / mir 0 V, max.: 5 V		Specified value: 3.2 to 4.0 V

(d) Depress the brake pedal 4 or 5 times to operate the pump motor, and check the output value on the hand-held tester with the motor stopped (no braking).
 OK:

Accumulator (ACC) pressure sensor voltage does not drop.



REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32–54)

ΟΚ

REPLACE SKID CONTROL ECU ASSY (SEE PAGE 32-68)

NOTICE:

When replacing the skid control ECU assy, perform initialization of linear solenoid valve and calibration (see page 05–958).