DTC C1256/57 ACCUMULATOR LOW PRESSURE

CIRCUIT DESCRIPTION

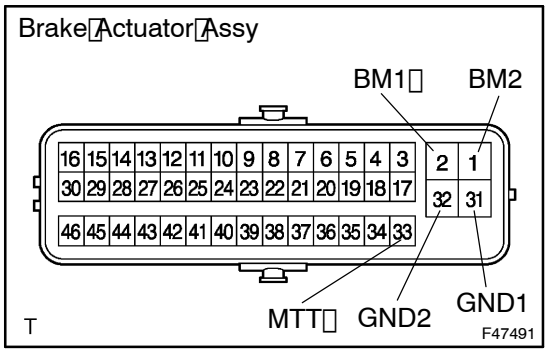
The accumulator pressure sensor is built into the actuator and detects the accumulator pressure.
The skid control ECU turns on the Brake Control warning lamp and sounds the skid control buzzer if it senses a decrease in the accumulator pressure.

DTC No.	Detailed Code	DTC Detecting Condition	Trouble Area
C1256/57	141	• Braking operation is input when accumulator pressure is less than 12.45 MPa and vehicle speed is input (detected value changes if accumulator pressure is low after system start). • Accumulator pressure is less than 14.62 MPa for 120 sec. (changes according to power source voltage) after system start (stores the DTC after the conditions are met, and drives buzzer).	• Brake actuator assy (accumulator pressure, accumulator pressure sensor, pump motor)
C1256/57	143	• Any of the wheel cylinder pressure sensor value is lower than the target value for at least 0.5 sec. when accumulator pressure is less than 14.62 MPa and vehicle speed is input. • Accumulator pressure changes little when accumulator pressure is less than 14.62 MPa for at least 1 sec. without braking (pump motor is operating). • Accumulator pressure is less than 14.62 MPa for at least 0.5 sec. when motor relay is malfunctioning.	• Brake actuator assy (accumulator pressure, accumulator pressure sensor, pump motor)

INSPECTION PROCEDURE

HINT:
DTCs may be output if the accumulator pressure drops due to frequent braking (this is not a malfunction).

1 INSPECT BRAKE ACTUATOR ASSY



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

Standard:

Tester Connection	Specified Condition
1 (BM2) – 31 (GND1)	Below 10 Ω
2 (BM1) – 31 (GND1)	Below 10 Ω
1 (BM2) – 2 (BM1)	Below 1 Ω
31 (GND1) – 32 (GND2)	Below 1 Ω
1 (BM2) – 33 (MTT)	About 10 Ω
2 (BM1) – 33 (MTT)	About 10 Ω

NG → **REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32–66)**

OK

2 READ VALUE OF INTELLIGENT TESTER II

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

Item	Measurement Item / Range (Display)	Normal Condition
Accumulator Sensor 1	Accumulator pressure sensor 1 / min.: 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 intelligent tester II with the motor stopped (not braking).

OK:
ACC pressure sensor's output voltage does not drop.

NG → **REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32–66)**

OK

REPLACE SKID CONTROL ECU ASSY (SEE PAGE 32–81 or 32–82)

NOTICE:
When replacing the skid control ECU assy, perform initialization of linear solenoid valve and calibration (see page 05–721).