

SHOULDER BELT ANCHOR POSITION SENSOR AND MOTOR CIRCUIT ON DRIVER SIDE DOOR

CIRCUIT DESCRIPTION

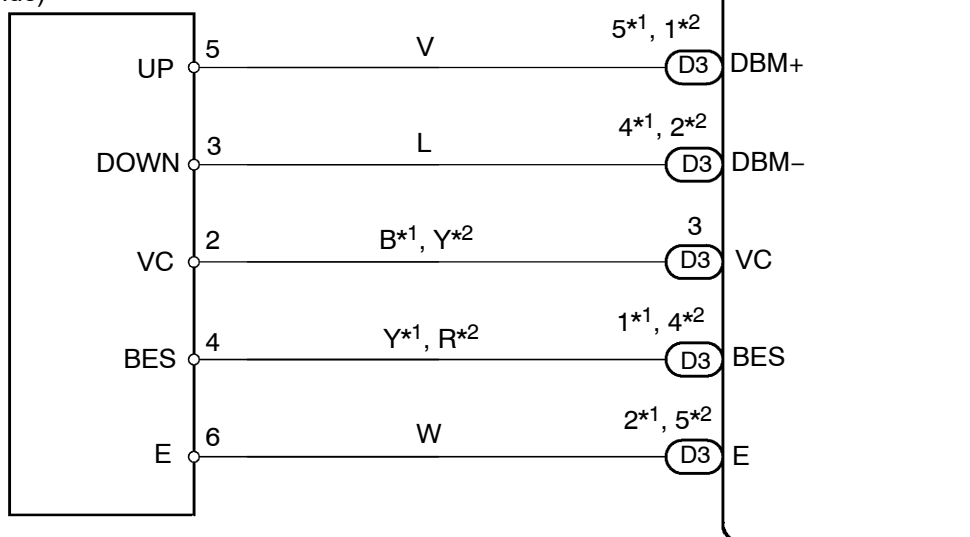
This position detected by the belt position detection sensor will be memorized in the driver side J/B ECU. This sensor is equipped in the seat belt anchor to operation the memory function. The driver side J/B ECU receives the seat belt anchor switch signal from the driver door ECU to operate the seat belt anchor motor.

WIRING DIAGRAM

S24*1, S25*2

Height Adjustable Anchor Switch
(Driver Side)

Driver Side J/B ECU



*1: LHD

*2: RHD

INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST USING INTELLIGENT TESTER

(a) Select the ACTIVE TEST, use the intelligent tester to generate a control command, and then check the shoulder belt anchor motor L.H.

Driver side J/B ECU

Item	Test Details	Diagnostic Note
SHOULDER BELT	Driver side shoulder belt UP/DOWN	-

OK: Driver side shoulder belt is moved.

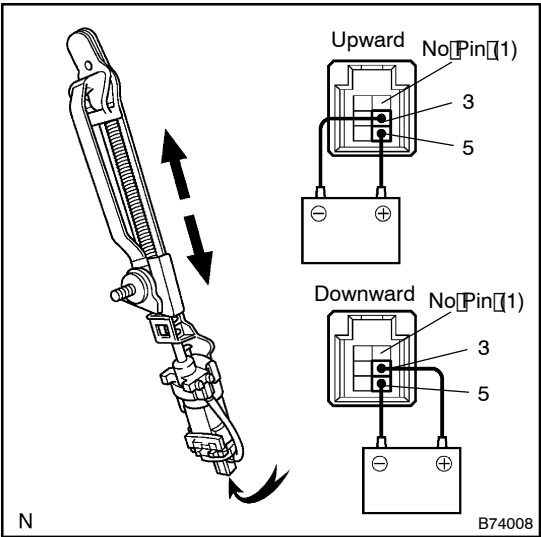
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Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-1289)

2 INSPECT SHOULDER BELT ANCHOR MOTOR (DRIVER SIDE) (MOTOR)



- (a) Disconnect the motor connector.
- (b) Apply battery voltage to the shoulder belt anchor motor.

OK:

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 3	Slider moves upward
Battery positive (+) → Terminal 3 Battery negative (-) → Terminal 5	Slider moves downward

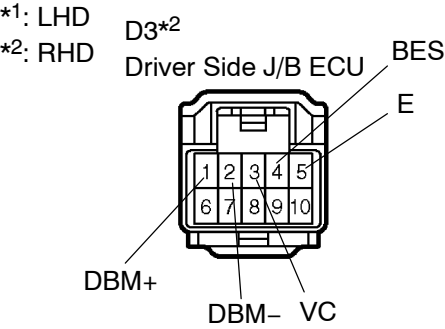
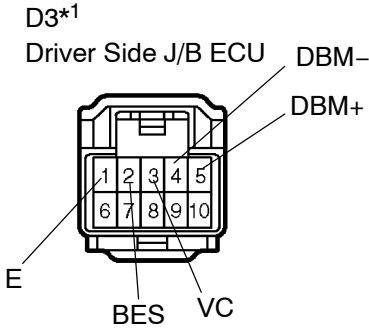
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REPLACE SHOULDER BELT ANCHOR MOTOR (DRIVER SIDE)

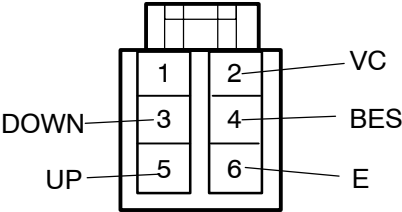
OK

3 CHECK WIRE HARNESS (SHOULDER BELT ANCHOR MOTOR (DRIVER SIDE) - DRIVER SIDE J/B ECU)

Wire Harness Side



S24*1, S25*2
Height Adjustable Anchor Switch



B70491

B79898

- (a) Disconnect the D3 ECU connector.
- (b) Disconnect the S24/S25 motor connector.
- (c) Measure the resistance between the wire harness side connector.

Standard:
(LHD)

Tester Connection	Specified Condition
D3-5 (DBM+) - S24-5 (UP)	Below 1 Ω
D3-4 (DBM-) - S24-3 (DOWN)	Below 1 Ω
D3-3 (VC) - S24-2 (VC)	Below 1 Ω
D3-1 (BES) - S24-4 (BES)	Below 1 Ω
D3-2 (E) - S24-6 (E)	Below 1 Ω

(RHD)

Tester Connection	Specified Condition
D3-1 (DBM+) - S25-5 (UP)	Below 1 Ω
D3-2 (DBM-) - S25-3 (DOWN)	Below 1 Ω
D3-3 (VC) - S25-2 (VC)	Below 1 Ω
D3-4 (BES) - S25-4 (BES)	Below 1 Ω
D3-5 (E) - S25-6 (E)	Below 1 Ω

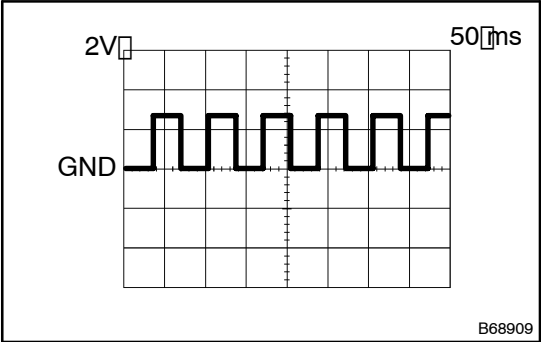
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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4

INSPECT SHOULDER BELT ANCHOR MOTOR (DRIVER SIDE) (POSITION SENSOR)



- (a) Check the pulse of the position sensor.
- (1) Using a oscilloscope, check the pulse generated, when the motor moving.

Standard (Reference):

Tester Connection	LHD: BES (D3-1) - E (D3-2) RHD: BES (D3-4) - E (D3-5)
Tool setting	2V/DIV., 50ms/DIV.
Vehicle condition	Switch operation

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REPLACE SHOULDER BELT ANCHOR MOTOR LH

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-1289)