DTC B1805/52 SHORT IN P SQUIB CIRCUIT

CIRCUIT DESCRIPTION

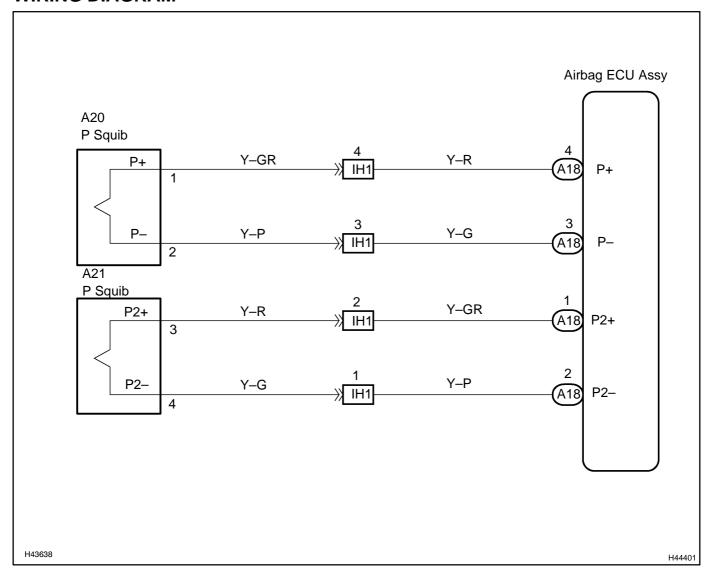
The P squib circuit consists of the airbag ECU assy and the front passenger airbag assy.

The circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1805 is recorded when a short circuit is detected in the P squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area	
	When the airbag Airbag ECU assy receives a line short signal 5 times in the P squib circuit during primary check.	Instrument panel wire Instrument panel wire No.2	
B1805	• P squib malfunction	Front passenger airbag assy (P squib)	
	Airbag ECU assy malfunction	Airbag ECU assy	

WIRING DIAGRAM



Author:

INSPECTION PROCEDURE

CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the airbag ECU assy.
- (d) Disconnect the connectors from the horn button assy.
- (e) Disconnect the connectors from the front passenger airbag assy.
- (f) Disconnect the connector from the front seat airbag assy LH.
- (g) Disconnect the connector from the front seat airbag assy RH.
- (h) Disconnect the connector from the curtain shield airbag assy LH.
- (i) Disconnect the connector from the curtain shield airbag assy RH.
- (j) Disconnect the connector from the front seat outer belt assy LH.
- (k) Disconnect the connector from the front seat outer belt assy RH.

1 CHECK CONNECTOR

(a) Check that the instrument panel wire No.2 connectors (on the front passenger airbag assy side) are not damaged.

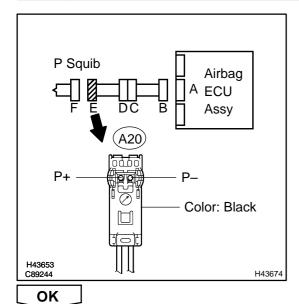
OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.



OK

2 CHECK P SQUIB CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRAG ASSY)



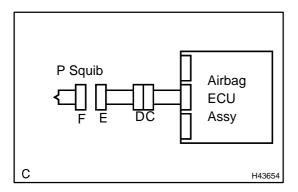
- (a) Release the activation prevention mechanism built into connector "B" (see page 05–1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) - A20-2 (P-)	Always	1 M Ω or Higher

NG Go to step 5

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05–1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05–1402).

OK:

DTC B1805 is not output.

HINT:

Codes other than code B1805 may be output at this time, but they are not related to this check.

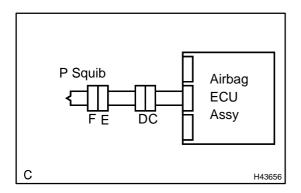


OK

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4 CHECK FRONT PASSENGER AIRBAG ASSY(P SQUIB)



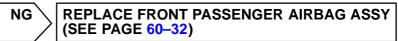
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the front passenger airbag assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05–1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05–1402).

OK:

DTC B1805 is not output.

HINT:

Codes other than code B1805 may be output at this time, but they are not related to this check.



OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–1397)

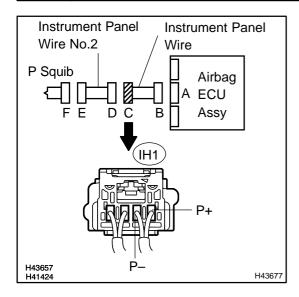
HINT:

- Perform the simulation method by selecting the check mode with the hand–held tester (see page 05–1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05–1405).

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5 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.

HINT:

The activation prevention mechanism of connector "B" has already been released.

(b) Measure the resistance according to the value(s) in the table below

Standard:

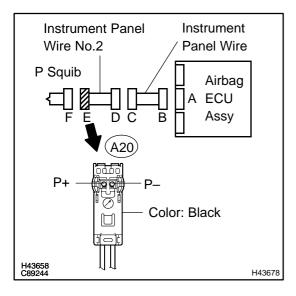
Tester connection	Condition	Specified condition
IH1-1 (P+) - IH1-2 (P-)	Always	1 M Ω or Higher



REPAIR OR REPLACE INSTRUMENT PANEL WIRE



6 CHECK INSTRUMENT PANEL WIRE NO.2



- (a) Release the activation prevention mechanism built into connector "D" (see page 05–1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) - A20-2 (P-)	Always	1 MΩ or Higher

NG \

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)

HINT:

- Perform the simulation method by selecting the check mode with the hand–held tester (see page 05–1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05–1405).

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