DTC B0133/62 SHORT IN P/T SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib (RH) circuit consists of the airbag ECU assy and seat belt pretensioner (RH).
The SRS will deploy if the SRS deployment conditions are satisfied.
DTC B0133/62 is recorded when a B+ short is detected in the P/T squib (RH) circuit.

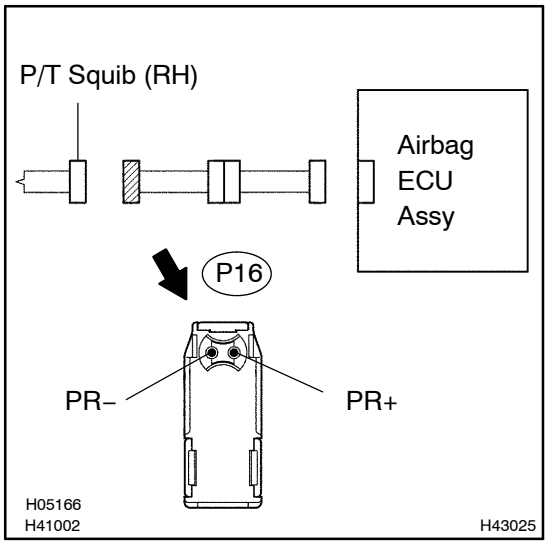
DTC No.	DTC Detection Condition	Trouble Area
B0133/62	• Short circuit in seat belt pretensioner (RH) wire harness (to B+) • P/T squib (RH) malfunction • Airbag ECU assy malfunction	• Seat belt pretensioner RH (P/T squib) • Airbag ECU assy • Wire harness

WIRING DIAGRAM

See page 05–338.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(RH) CIRCUIT (AIRBAG ECU ASSY ⇔ FRONT SEAT OUTER BELT ASSY RH



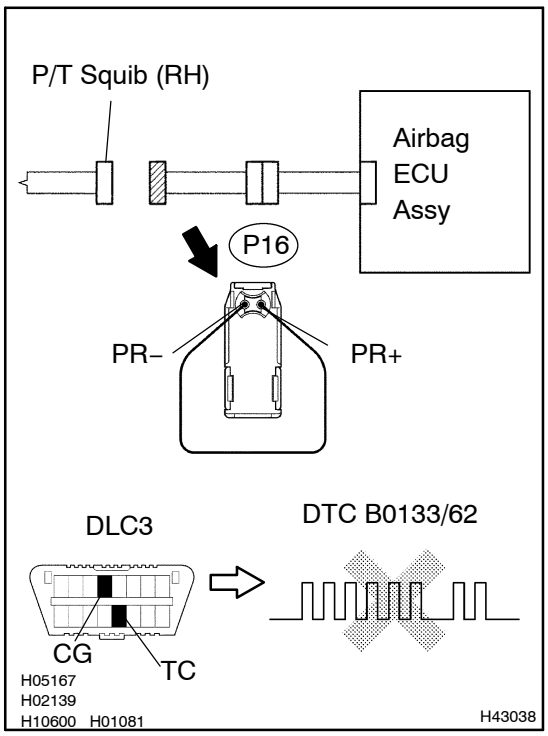
(a) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag ECU assy and the seat belt pretensioner (RH).
(c) Connect the negative (–) terminal cable to the battery and turn the ignition switch to ON.
(d) For the connector (on the seat belt pretensioner side) between the seat belt pretensioner (RH) and the airbag ECU assy measure the voltage between terminal PR+ of the P16 connector and the body ground.
OK:
Voltage: Below 1 V

NG → **Go to step 5**

OK

2 CHECK AIR BAG ECU ASSY

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(a) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(b) Connect the connector to the airbag ECU assy.
(c) Using a service wire, connect terminals PR+ and PR– of the P16 connector (on the seat belt pretensioner side) between the seat belt pretensioner (RH) and the airbag ECU assy.
(d) Connect the negative (–) terminal cable to the battery and wait at least for 2 seconds.
(e) Turn the ignition switch to ON and wait at least for 20 seconds.
(f) Clear the DTC stored in the memory (See page 05–312).
(g) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Check for DTC (See page 05–312).
OK:
DTC B0133/62 is not output.

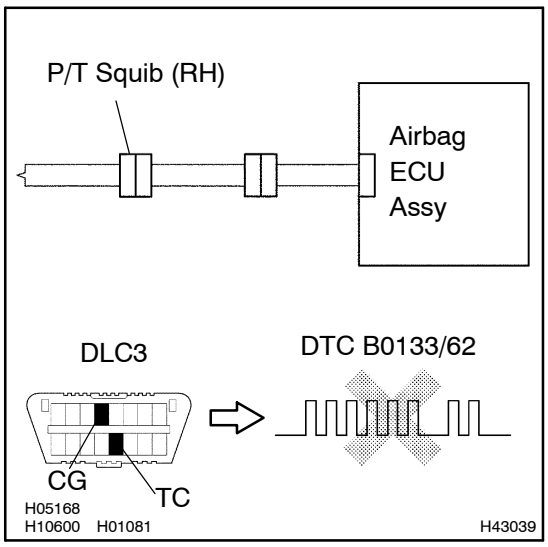
HINT:
Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG ECU ASSY**

OK

3	CHECK P/T SQUIB (RH)

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(c) Connect the seat belt pretensioner (RH) connector.
(d) Connect the negative (–) terminal cable to the battery and wait at least for 2 seconds.
(e) Turn the ignition switch to ON and wait at least for 20 seconds.
(f) Clear the DTC stored in the memory (See page 05–312).
(g) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Check for DTC (See page 05–312).
OK:
DTC B0133/62 is not output.

HINT:
Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

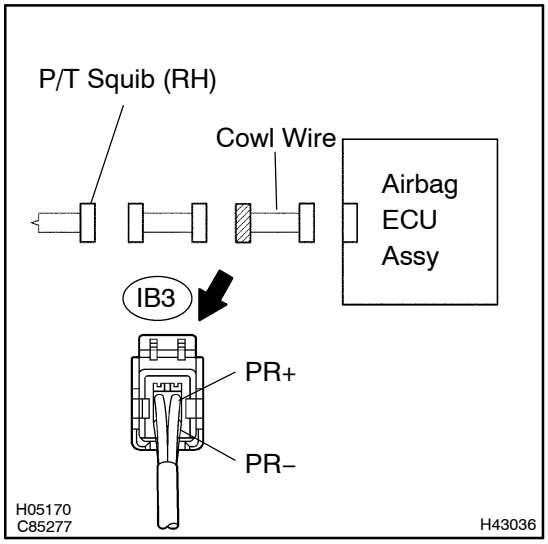
4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK COWL WIRE (AIRBAG ECU ASSY ⇔ FRONT SEAT OUTER BELT ASSY RH)

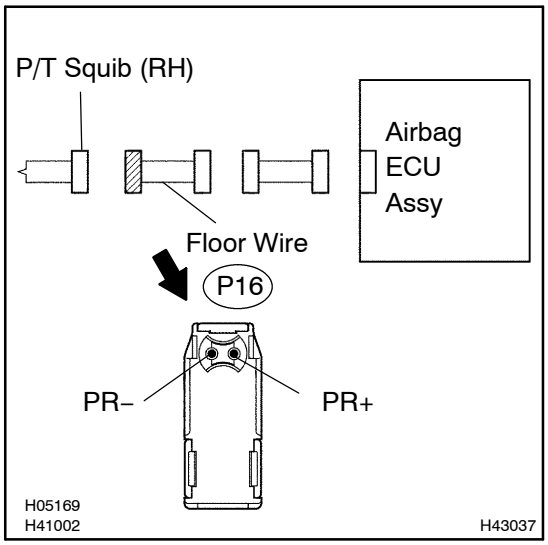


(a) Disconnect the connectors of the cowl wire and floor wire.
(b) For the cowl wire connector (on the seat belt pretensioner side) measure the voltage between terminal PR+ of the IB3 connector and the body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE COWL WIRE**

OK

6	CHECK FLOOR WIRE (AIRBAG ECU ASSY–FRONT SEAT OUTER BELT ASSY RH)



(a) For the floor wire connector (on the seat belt pretensioner side) measure the voltage between terminal PR+ of the P16 connector and the body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS