DTC	B1835/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT

DTC	B1836/58	OPEN IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT

DTC	B1837/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO GROUND)

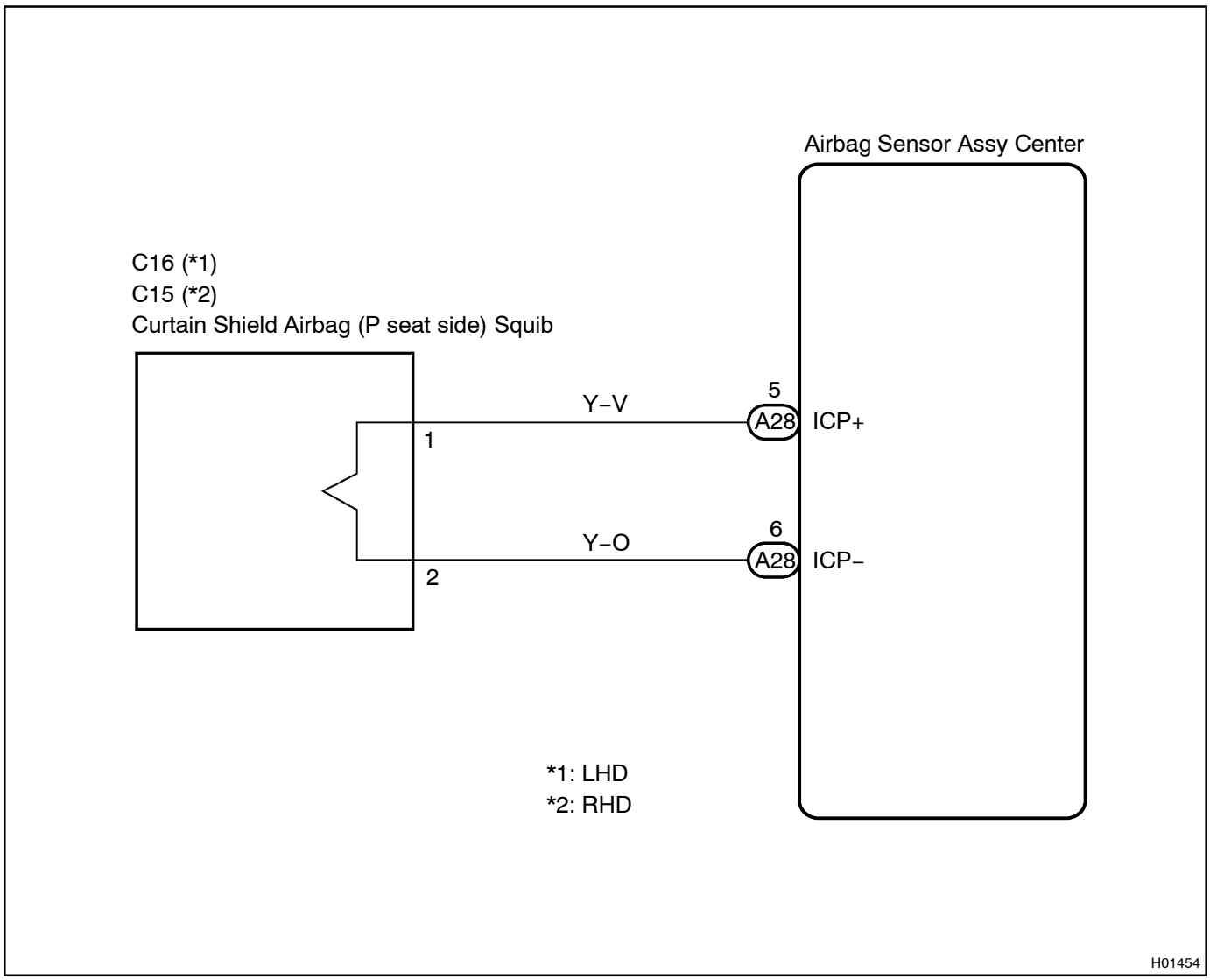
DTC	B1838/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The curtain shield airbag (P seat side) squib circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH (LHD) or curtain shield airbag assy LH (RHD).
The circuit instructs the SRS to deploy when deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1835/58	• The airbag sensor assy center receives a line short circuit signal 5 times in the curtain shield airbag (P seat side) squib circuit during primary check. • Curtain shield airbag (P seat side) squib malfunction • Airbag sensor assy center malfunction	• Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) (LHD) • Curtain shield airbag assy LH (Curtain shield airbag (P seat side) squib) (RHD) • Airbag sensor assy center • Floor wire No.2
B1836/58	• The airbag sensor assy center receives an open circuit signal in the curtain shield airbag (P seat side) squib circuit for 2 seconds. • Curtain shield airbag (P seat side) squib malfunction • Airbag sensor assy center malfunction	• Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) (LHD) • Curtain shield airbag assy LH (Curtain shield airbag (P seat side) squib) (RHD) • Airbag sensor assy center • Floor wire No.2
B1837/58	• The airbag sensor assy center receives a short to ground circuit signal in the curtain shield airbag (P seat side) squib circuit for 0.5 second. • Curtain shield airbag (P seat side) squib malfunction • Airbag sensor assy center malfunction	• Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) (LHD) • Curtain shield airbag assy LH (Curtain shield airbag (P seat side) squib) (RHD) • Airbag sensor assy center • Floor wire No.2
B1838/58	• The airbag sensor assy center receives a B+ short circuit signal in the curtain shield airbag (P seat side) squib circuit for 0.5 second. • Curtain shield airbag (P seat side) squib malfunction • Airbag sensor assy center malfunction	• Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) (LHD) • Curtain shield airbag assy LH (Curtain shield airbag (P seat side) squib) (RHD) • Airbag sensor assy center • Floor wire No.2

WIRING DIAGRAM



INSPECTION PROCEDURE

CAUTION:

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

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center.
(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) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
(i) w/ Curtain shield airbag:
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 READ METHOD OF DTC

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester II (read the 5–digit of DTC):
Using the intelligent tester II, check the DTCs (see page 05–16).

Result:

DTC B1835 is output.	A
DTC B1826 is output.	B
DTC B1837 is output.	C
DTC B1838 is output.	D

(2) If not using the intelligent tester II (read the 2–digit of DTC):
Check the DTCs (see page 05–16).

Result:

DTC 58 is output.	E

B → **Go to step 4**

C → **Go to step 5**

D → **Go to step 6**

E → **Go to step 7**

A

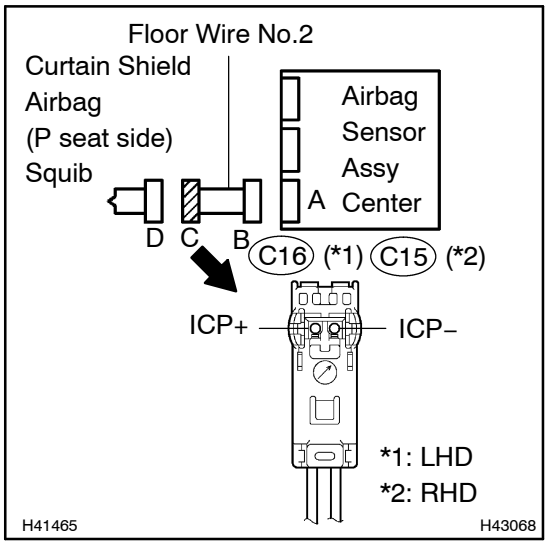
2	CHECK CONNECTOR

(a) Check that the floor wire No.2 connector (on the curtain shield airbag (P seat side) squib side) is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3	CHECK FLOOR WIRE NO.2 (SHORT)



(a) Release the activation prevention mechanism built into connector "B" (see page 05–10).
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – C16–2 (ICP–) (*1)	Always	1 MΩ or Higher
C15–1 (ICP+) – C15–2 (ICP–) (*2)	Always	1 MΩ or Higher

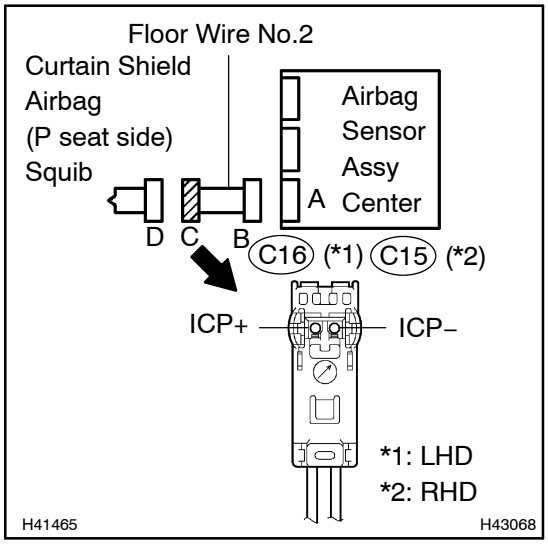
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 10

4 CHECK FLOOR WIRE NO.2 (OPEN)



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

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – C16–2 (ICP–) (*1)	Always	Below 1 Ω
C15–1 (ICP+) – C15–2 (ICP–) (*2)	Always	Below 1 Ω

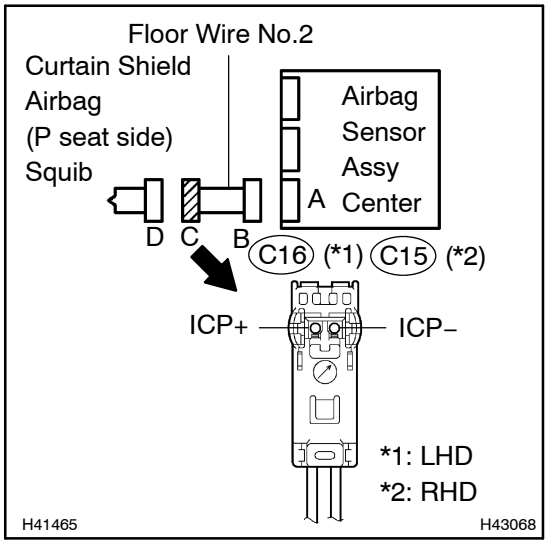
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

5 CHECK FLOOR WIRE NO.2 (TO GROUND)



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

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – Body ground (*1)	Always	1 MΩ or Higher
C16–2 (ICP–) – Body ground (*1)	Always	1 MΩ or Higher
C15–1 (ICP+) – Body ground (*2)	Always	1 MΩ or Higher
C15–2 (ICP–) – Body ground (*2)	Always	1 MΩ or Higher

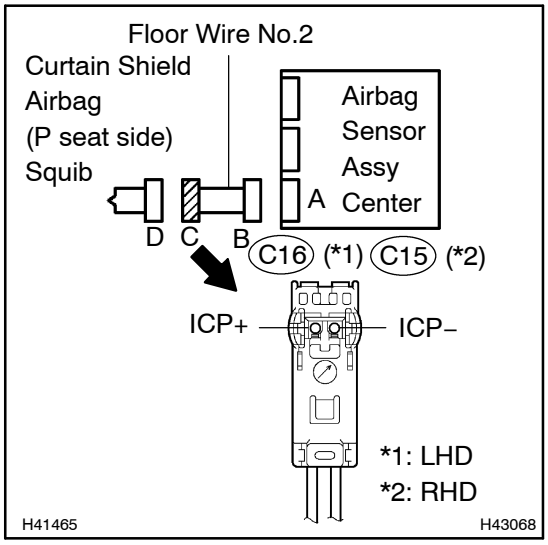
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

6	CHECK FLOOR WIRE NO.2 (TO B+)



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – Body ground (*1)	Ignition switch ON	Below 1 V
C16–2 (ICP–) – Body ground (*1)	Ignition switch ON	Below 1 V
C15–1 (ICP+) – Body ground (*2)	Ignition switch ON	Below 1 V
C15–2 (ICP–) – Body ground (*2)	Ignition switch ON	Below 1 V

*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

7 CHECK CONNECTOR

(a) Check that the floor wire No.2 connector (on the curtain shield airbag (P seat side) squib side) is not damaged.

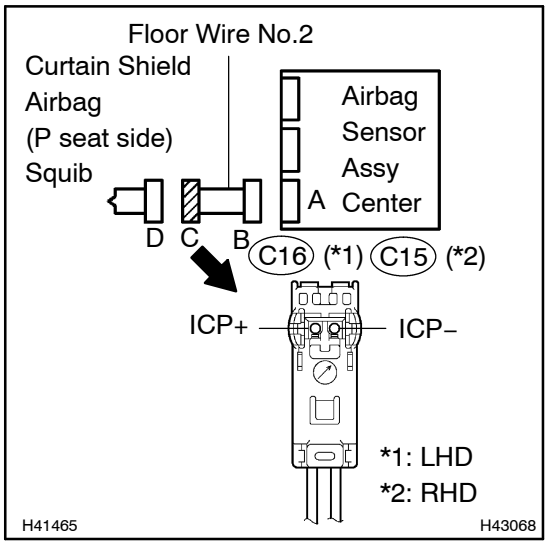
OK:

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

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

8 CHECK FLOOR WIRE NO.2 (CURTAIN SHIELD SQUIB RH CIRCUIT)



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(b) Turn the ignition switch to the ON position.

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

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – Body ground (*1)	Ignition switch ON	Below 1 V
C16–2 (ICP–) – Body ground (*1)	Ignition switch ON	Below 1 V
C15–1 (ICP+) – Body ground (*2)	Ignition switch ON	Below 1 V
C15–2 (ICP–) – Body ground (*2)	Ignition switch ON	Below 1 V

*1: LHD

*2: RHD

(d) Turn the ignition switch to the LOCK position.

(e) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.

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

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – C16–2 (ICP–) (*1)	Always	Below 1 Ω
C16–1 (ICP+) – Body ground (*1)	Always	1 MΩ or Higher
C16–2 (ICP–) – Body ground (*1)	Always	1 MΩ or Higher
C15–1 (ICP+) – C15–2 (ICP–) (*2)	Always	Below 1 Ω
C15–1 (ICP+) – Body ground (*2)	Always	1 MΩ or Higher
C15–2 (ICP–) – Body ground (*2)	Always	1 MΩ or Higher

*1: LHD

*2: RHD

(g) Release the activation prevention mechanism built into connector "B" (see page 05–10).

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

Standard:

Tester connection	Condition	Specified condition
C16–1 (ICP+) – C16–2 (ICP–) (*1)	Always	1 MΩ or Higher
C15–1 (ICP+) – C15–2 (ICP–) (*2)	Always	1 MΩ or Higher

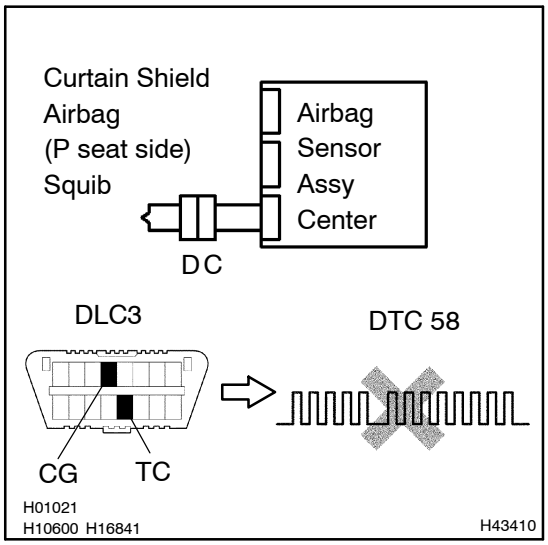
*1: LHD

*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

9 REPLACE CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB



(a) LHD:
Replace the curtain shield airbag assy RH (see Pub. No. RM915E, page 60–38).

(b) RHD:
Replace the curtain shield airbag assy LH (see Pub. No. RM915E, page 60–38).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

(c) Connect the connectors to the airbag sensor assy center.

(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(f) Clear the DTCs stored in memory (see page 05–16).

(g) Turn the ignition switch to the LOCK position.

(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(i) Check the DTCs (see page 05–16).

OK:

DTC 58 is not output.

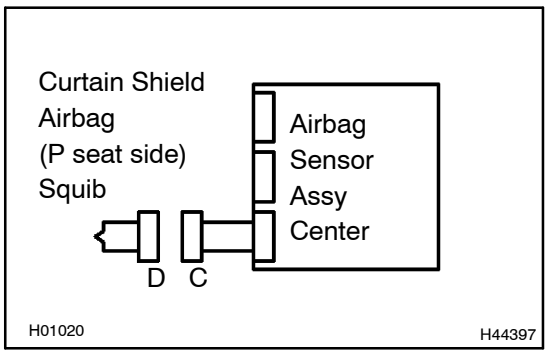
HINT:
Codes other than code 58 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

END

10	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connectors to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–16).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–16).
OK:
DTC B1835 is not output.

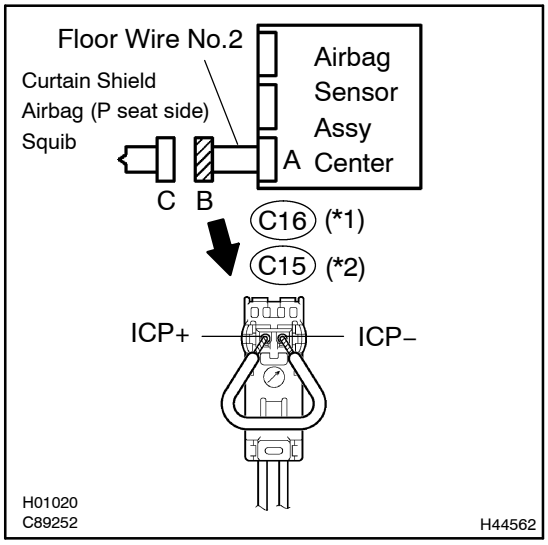
HINT:
Codes other than code B1835 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

GO TO STEP 12

11 CHECK AIR BAG SENSOR ASSY CENTER



(a) From the step 6:
Turn the ignition switch to the LOCK position.

(b) From the step 6:
Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.

(c) Connect the connectors to the airbag sensor assy center.

(d) LHD:
Using a service wire, connect C16–1 (ICP+) and C16–2 (ICP–) of connector "C".

(e) RHD:
Using a service wire, connect C15–1 (ICP+) and C15–2 (ICP–) of connector "C".

NOTICE:

- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(h) Clear the DTCs stored in memory (see page 05–16).

(i) Turn the ignition switch to the LOCK position.

(j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

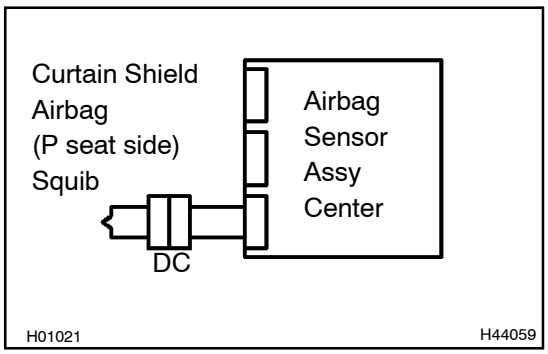
(k) Check the DTCs (see page 05–16).
OK:
DTC B1836, B1837 or B1838 is not output.

HINT:
Codes other than code B1836, B1837 and B1838 may be output at this time, but they are not related to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)

OK

12 CHECK CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) From the step 11:
Disconnect the service wire from connector "C".
(d) LHD:
Connect the connector to the curtain shield airbag assy RH.
(e) RHD:
Connect the connector to the curtain shield airbag assy LH.
(f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Clear the DTCs stored in memory (see page 05–16).
(i) Turn the ignition switch to the LOCK position.
(j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(k) Check the DTCs (see page 05–16).
OK:
DTC B1835, B1836, B1837 or B1838 is not output.

HINT:
Codes other than code B1835, B1836, B1837 and B1838 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY RH (LHD) (SEE PUB. NO. RM915E, PAGE 60–38)**

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY LH (RHD) (SEE PUB. NO. RM915E, PAGE 60–38)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–10)

HINT:
- Perform the simulation method by selecting the check mode with the intelligent tester II (see page 05–19).
- 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 05–19).