DTC	B1653/35	Seat Position Airbag Sensor Circuit Malfunc- tion
_		tion

DESCRIPTION

The seat position sensor circuit consists of the center airbag sensor assembly and the seat position sensor.

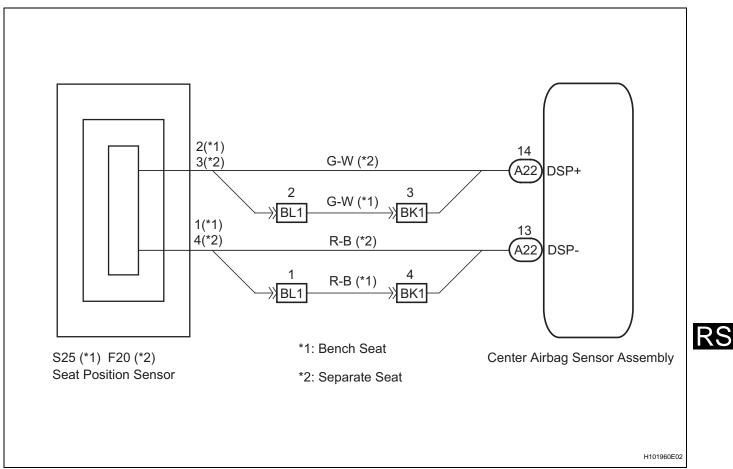
DTC B1653/35 is set when a malfunction is detected in the seat position sensor assembly circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1653/35	 The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat position sensor assembly circuit for 2 seconds. Seat position sensor malfunction Center airbag sensor assembly malfunction 	 No. 2 floor wire No. 1 seat wire (*1) No. 2 seat wire (*1) Front seat belt inner assembly LH (*2) Seat position sensor Center airbag sensor assembly

*1: Bench seat

*2: Separate seat

WIRING DIAGRAM



CAUTION:

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

(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.

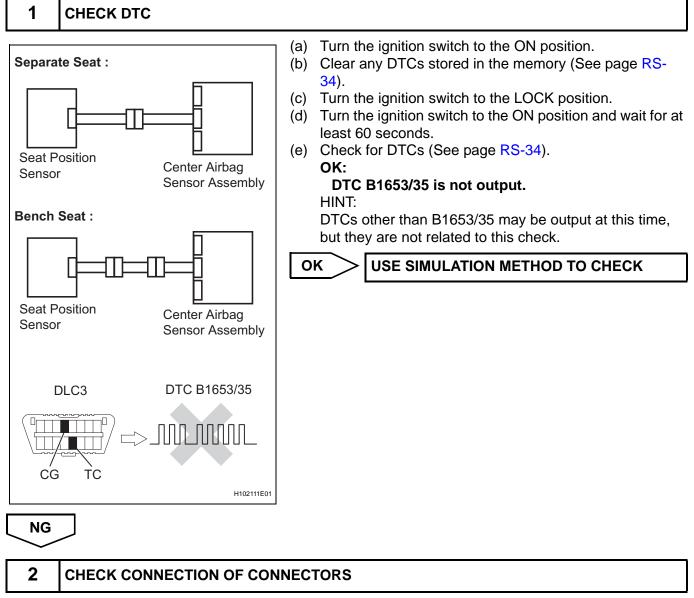
 RS

- (c) Disconnect the connectors from the center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad.
- (e) Disconnect the connector from the front passenger airbag assembly.
- (f) Disconnect the connector from the front seat outer belt assembly LH.

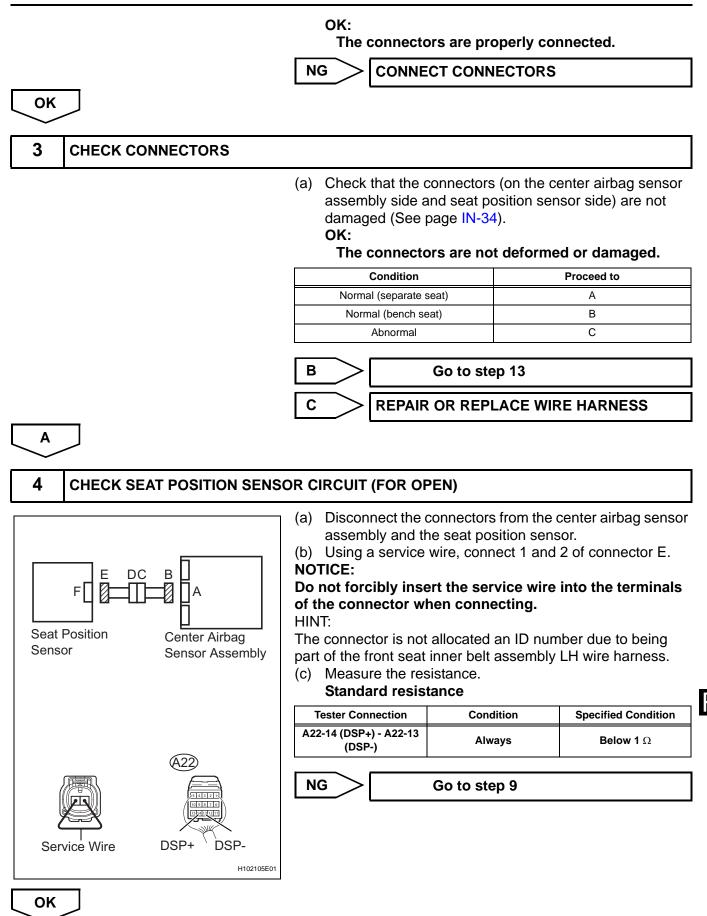
(g) Disconnect the connector from the front seat outer belt assembly RH. HINT:

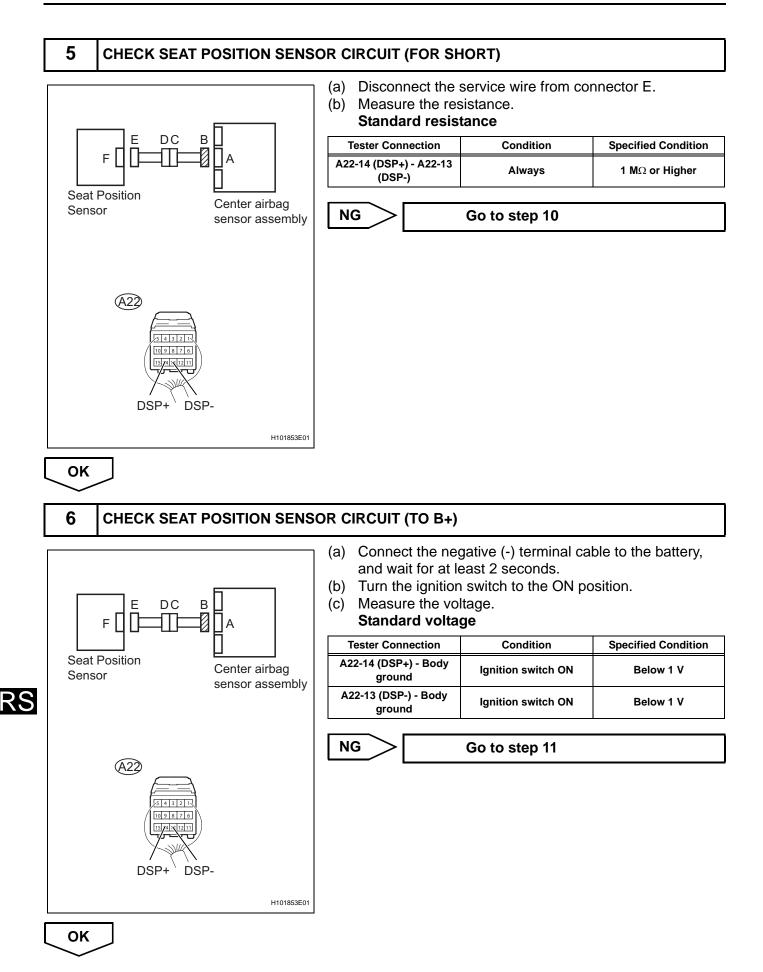
Skip the following steps if side and curtain shield airbags are not fitted.

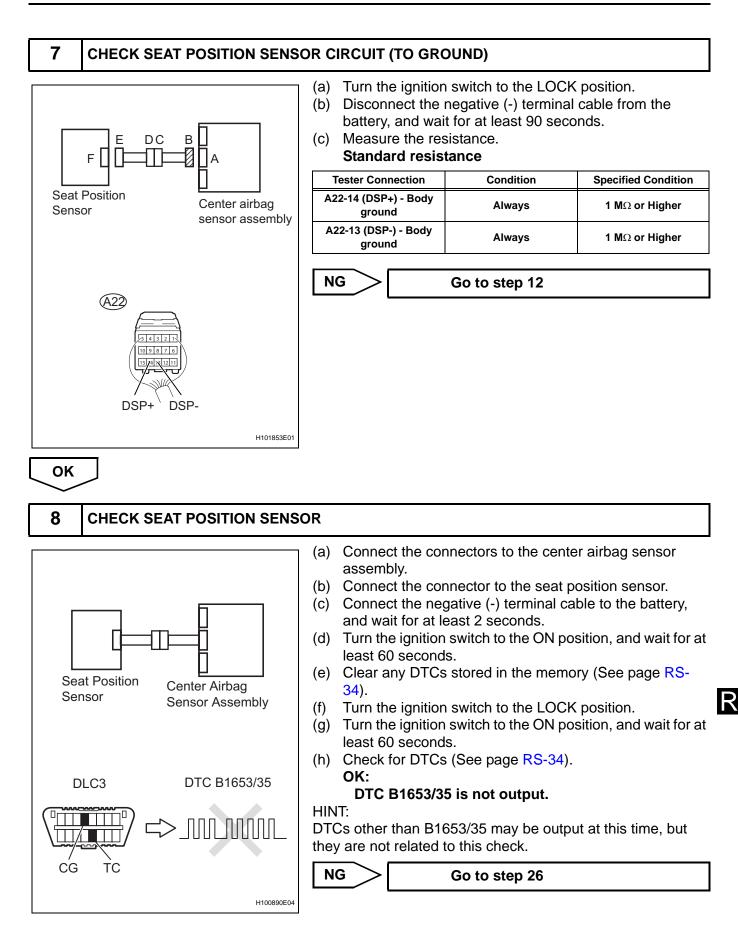
- (h) Disconnect the connector from the front seat airbag assembly LH.
- (i) Disconnect the connector from the front seat airbag assembly RH.
- (j) Disconnect the connector from the curtain shield airbag assembly LH.
- (k) Disconnect the connector from the curtain shield airbag assembly RH.



- (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) Check that the connectors are properly connected to the center airbag sensor assembly and the seat position sensor.





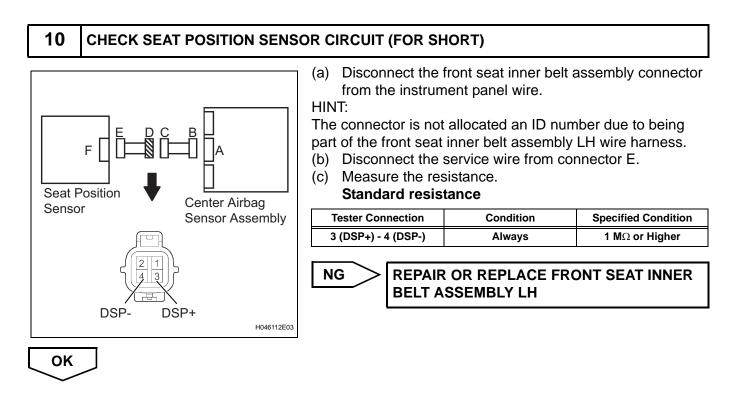


ОК

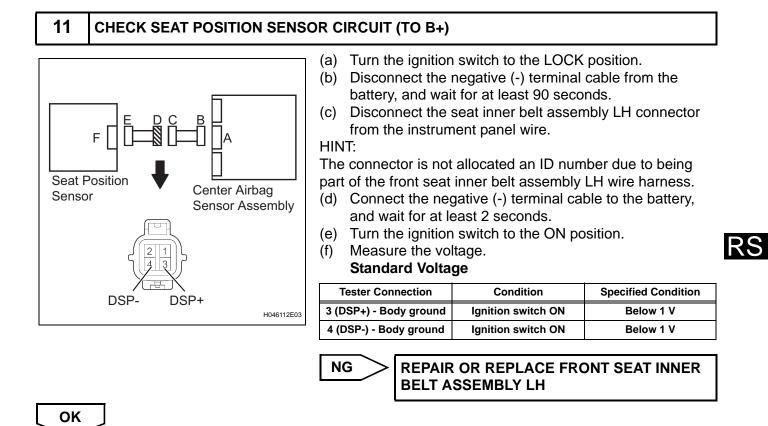
USE SIMULATION METHOD TO CHECK 9 CHECK SEAT POSITION SENSOR CIRCUIT (FOR OPEN) (a) Disconnect the front seat inner belt assembly connector from the instrument panel wire. HINT: The service wire has already been inserted into connector • DC Е B Ε. F The connector is not allocated an ID number due to being ٠ part of the front seat inner belt assembly LH wire harness. Seat Position (b) Measure the resistance. Center Airbag Sensor Sensor Assembly Standard resistance **Tester Connection** Condition **Specified Condition** 3 (DSP+) - 4 (DSP-) Always Below 1 Ω **REPAIR OR REPLACE FRONT SEAT INNER** NG **BELT ASSEMBLY LH** Service Wire DSP-DSP+ H102106E01 OK

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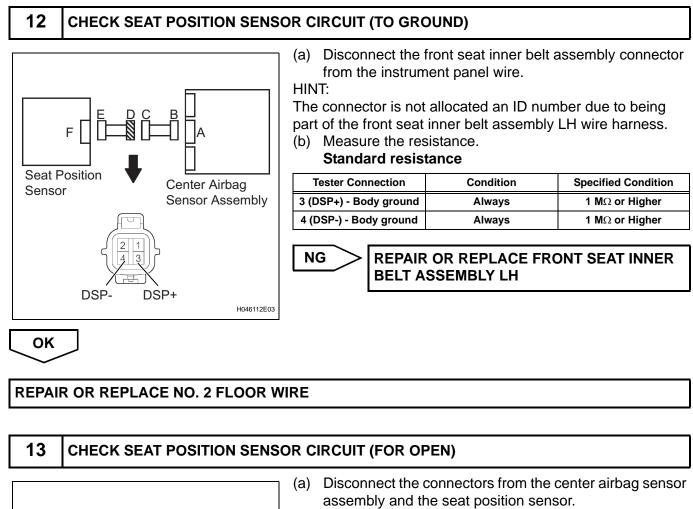
REPAIR OR REPLACE NO. 2 FLOOR WIRE



REPAIR OR REPLACE NO. 2 FLOOR WIRE



REPAIR OR REPLACE NO. 2 FLOOR WIRE



(b) Using a service wire, connect S25-1 and S25-2 of connector G.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting.

(c) Measure the resistance. **Standard resistance**

Tester Connection	Condition	Specified Condition	
A22-14 (DSP+) - A22-13 (DSP-)	Always	Below 1 Ω	
NG	Go to step 18		

RS

G

Center Airbag

(A22

DSP+

Sensor Assembly

DSP-

H102107E01

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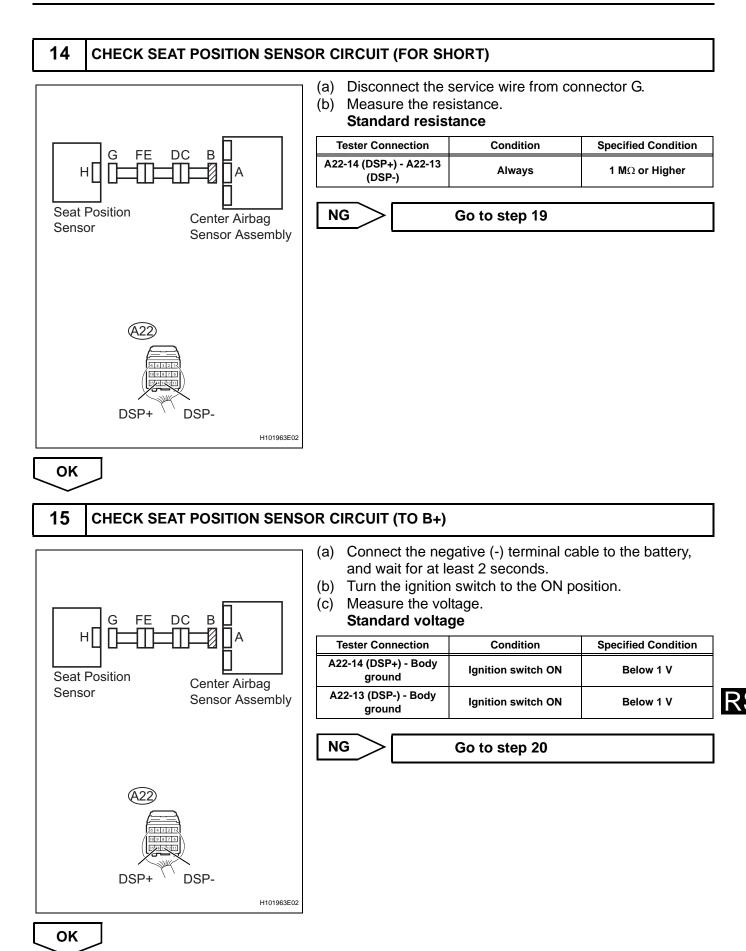
Seat Position

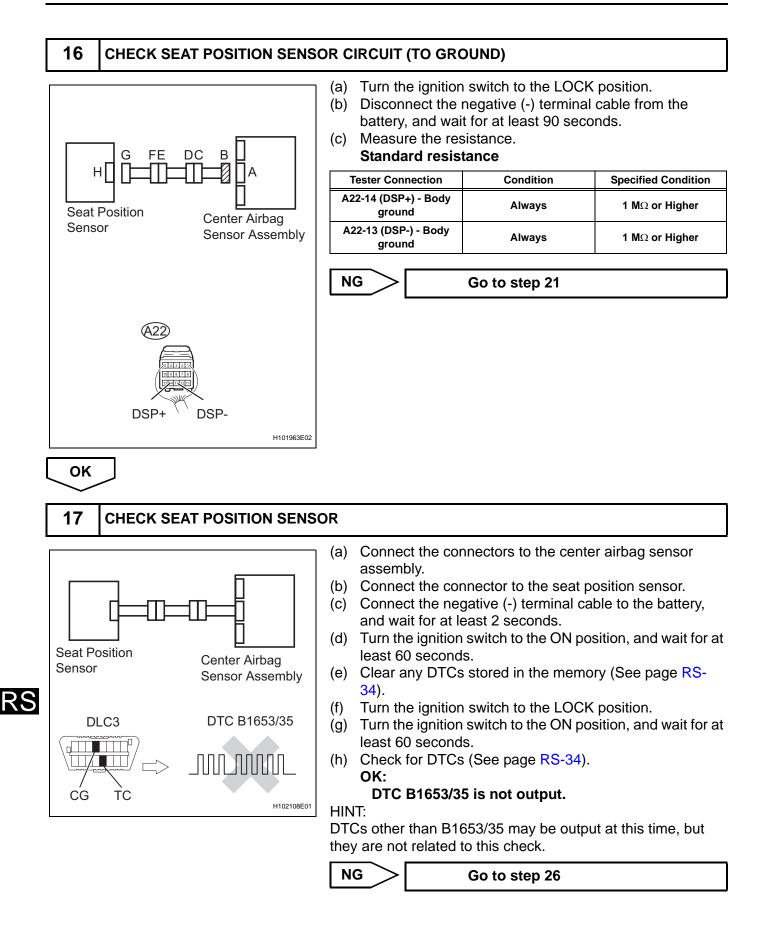
Service Wire

Sensor

(S25

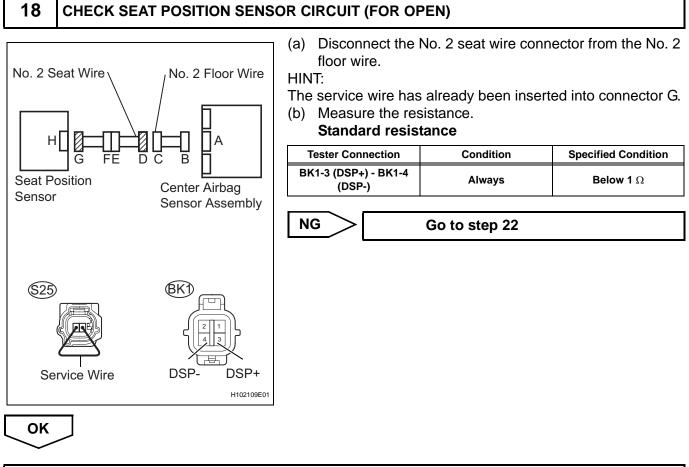
OK





OK

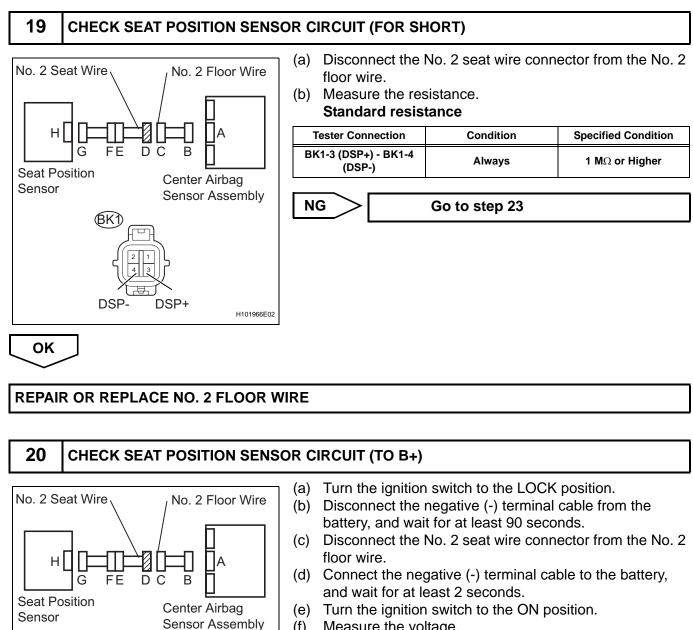
USE SIMULATION METHOD TO CHECK



REPAIR OR REPLACE NO. 2 FLOOR WIRE

RS

RS-154



(f) Measure the voltage. **Standard Voltage**

Tester Connection	Condition	Specified Condition
BK1-3 (DSP+) - Body ground	Ignition switch ON	Below 1 V
BK1-4 (DSP-) - Body ground	Ignition switch ON	Below 1 V

Go to step 24

ОК

(BK1

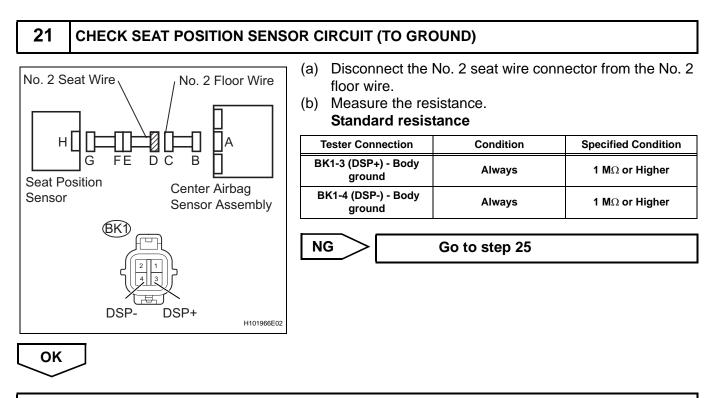
DSP-

REPAIR OR REPLACE NO. 2 FLOOR WIRE

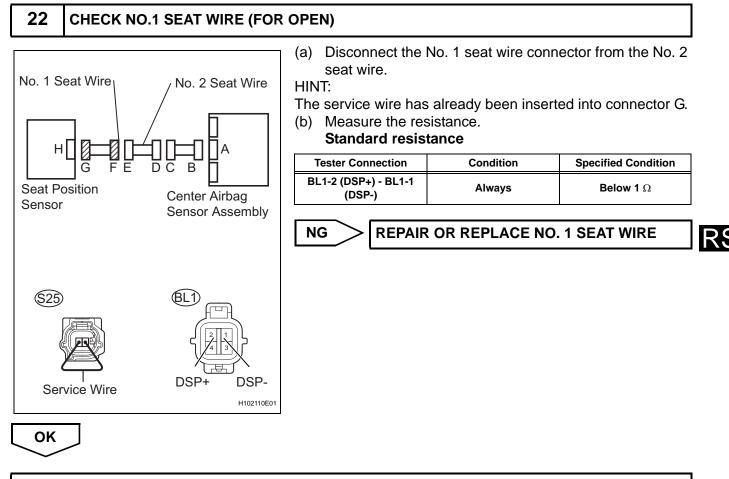
DSP+

H101966E02

NG

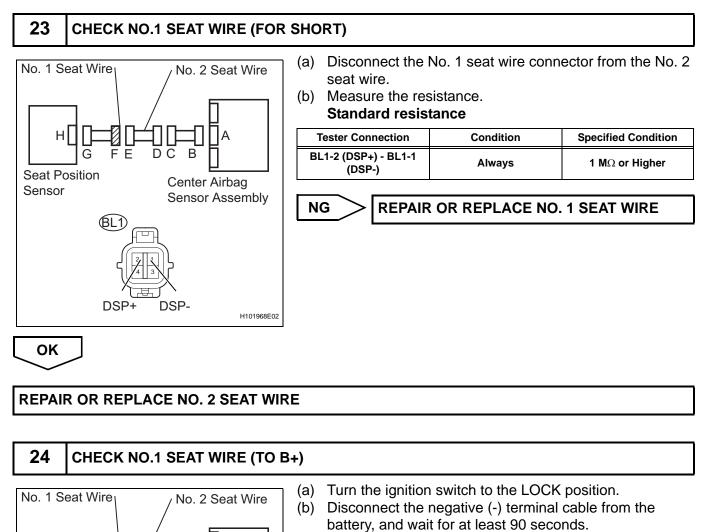


REPAIR OR REPLACE NO. 2 FLOOR WIRE



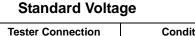
REPAIR OR REPLACE NO. 2 SEAT WIRE

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- (c) Disconnect the No. 1 seat wire connector from the No. 2 seat wire.
- (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.

(f) Measure the voltage.



Tester Connection	Condition	Specified Condition
BL1-2 (DSP+) - Body ground	Ignition switch ON	Below 1 V
BL1-1 (DSP-) - Body ground	Ignition switch ON	Below 1 V

REPAIR OR REPLACE NO. 1 SEAT WIRE

ОК

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Seat Position

Sensor

G

FΕ

DSP+

REPAIR OR REPLACE NO. 2 SEAT WIRE

DSP-

DC

В

Center Airbag

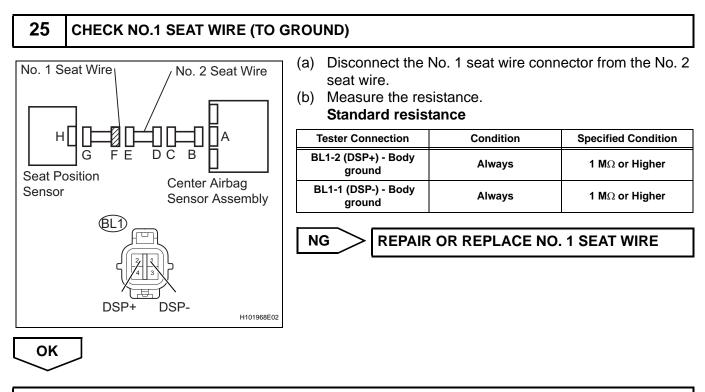
Sensor Assembly

H101968E02

NG

Α

DC



REPAIR OR REPLACE NO. 2 SEAT WIRE

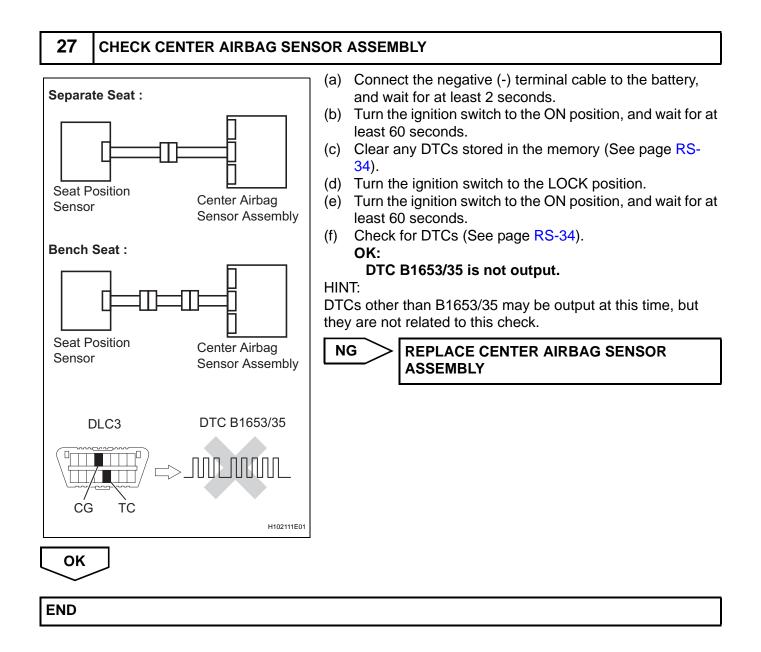
26	REPLACE SEAT POSITION SENSOR

- (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) Replace the seat position sensor (See page RS-620 or RS-617).

HINT:

Perform the inspection using parts from a normal vehicle when possible.





 RS