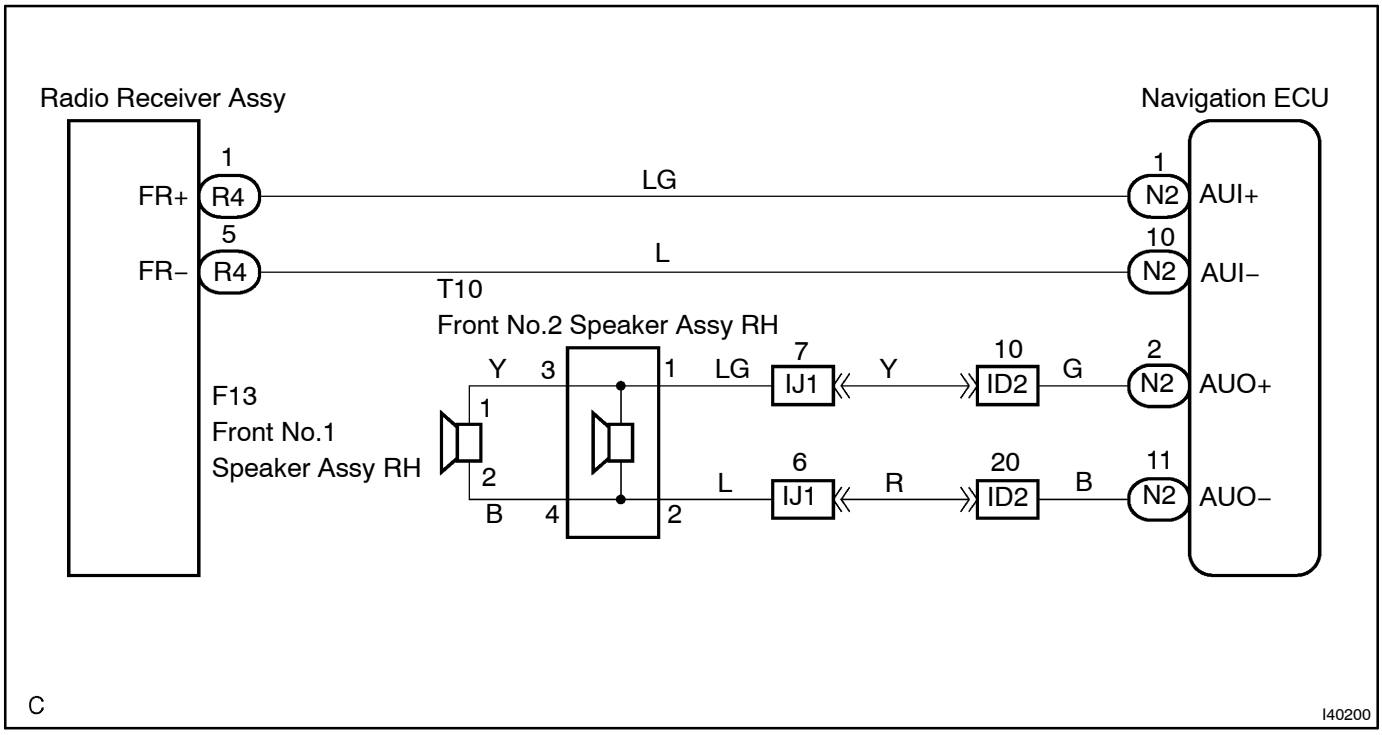
SPEAKER CIRCUIT (DRIVER SIDE SPEAKER)

CIRCUIT DESCRIPTION

When the vehicle is equipped with the navigation system, a sound signal for the driver's side is sent from the stereo component amplifier to the driver's side speaker via the navigation ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK NAVIGATION VOICE GUIDANCE

(a) Check if navigation voice guidance is heard from the speaker on the driver side.
OK: Voice guidance is heard.

OK ⇨ **Go to step 3**

NG

2	CHECK SETTING (THE VOLUME OF THE NAVIGATION VOICE SOUND)

(a) Check that "OFF" is not selected.
OK: OFF is not selected.

NG ⇨ **USING VOICE ADJUSTMENT SWITCH, TURN THE VOICE GUIDANCE VOLUME UP**

OK

3	INSPECT SYSTEM

(a) Check the system.
(1) Check if sound is heard from speakers.

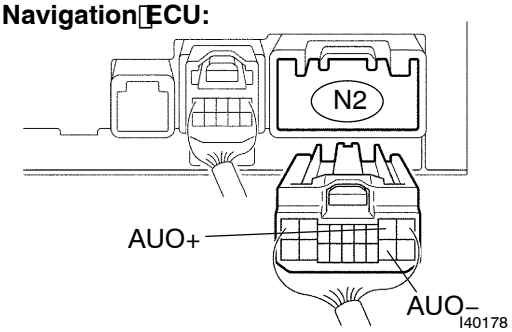
Symptom	Proceed to
No sound is heard from both speakers.	A
No sound is heard from front No.1 speaker assy.	B
No sound is heard from front No.2 speaker assy.	Replace front No.2 speaker assy. (See page 67–10)

B ⇨ **Go to step 5**

A

4	CHECK HARNESS AND CONNECTOR(NAVIGATION ECU – FRONT NO. 2 SPEAKER ASSY)

Navigation ECU:



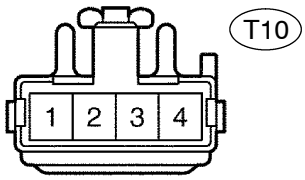
(a) Disconnect the connectors from the navigation ECU and speaker.

(b) Measure the resistance according to the values in the table below.

Standard:

Tester connection	Condition	Specified condition
AUO+ – 1	Always	Below 1 Ω
AUO– – 2	Always	Below 1 Ω
AUO+ – Body ground	Always	10 kΩ or higher
AUO– – Body ground	Always	10 kΩ or higher

Wire Harness Side:
(Front No.2 Speaker Assy)



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NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

5	INSPECT FRONT NO. 2 SPEAKER ASSY

(a) Check that malfunction disappears when another speaker in a good condition is installed.
OK: Malfunction disappears.

HINT:

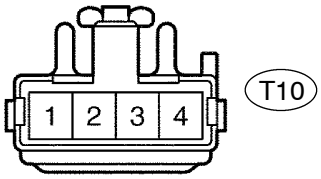
- Connect all the connectors to the speakers.
- When there is a possibility that either right or left front speaker is defective, inspect by interchanging the right one and the left one.

OK → **REPLACE FRONT NO. 2 SPEAKER ASSY (SEE PAGE 67–10)**

NG

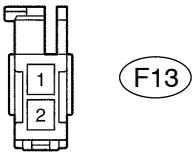
6	CHECK HARNESS AND CONNECTOR(FRONT NO. 2 SPEAKER ASSY – FRONT NO. 1 SPEAKER ASSY)

Wire Harness Side:
(Front No.2 Speaker Assy)



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Wire Harness Side:
(Front No.1 Speaker Assy)



I38233

(a) Disconnect the connectors from the navigation ECU and speaker.

(b) Measure the resistance according to the values in the table below.

Tester connection	Condition	Specified condition
3 (Front No.2 speaker Assy) – 1 (Front No.1 speaker Assy)	Always	Below 1 Ω
4 (Front No.2 speaker Assy) – 2 (Front No.1 speaker Assy)	Always	Below 1 Ω
3 (Front No.2 speaker Assy) – Body ground	Always	10 kΩ or higher
4 (Front No.2 speaker Assy) – Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

7	INSPECT FRONT NO. 1 SPEAKER ASSY

(a) Resistance check

(1) Measure the resistance between the terminals of the speaker.

NOTICE:

The speaker should not be removed for checking.

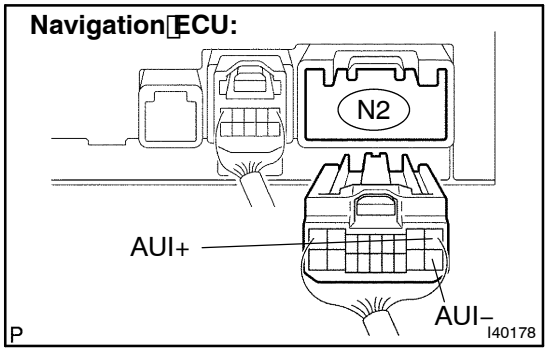
Standard: 4 Ω

NG → **REPLACE FRONT NO. 1 SPEAKER ASSY (SEE PAGE 67–9)**

OK

REPLACE NAVIGATION ECU (SEE PAGE 67–8)

8	CHECK HARNESS AND CONNECTOR(NAVIGATION ECU – RADIO RECEIVER ASSY)

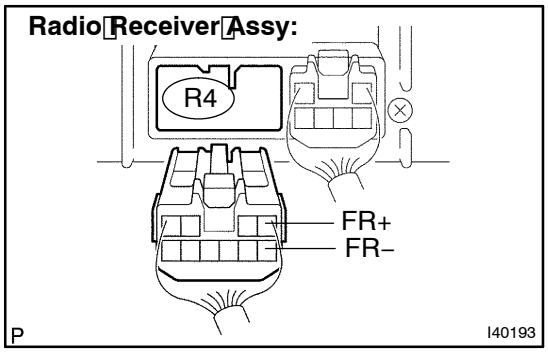


(a) Disconnect the connectors from the navigation ECU and radio receiver assy.

(b) Measure the resistance according to the values in the table below.

Standard:

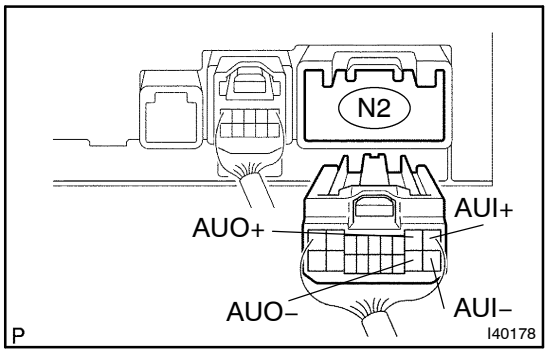
Tester connection	Condition	Specified condition
AUI+ – FR+	Always	Below 1 Ω
AUI– – FR–	Always	Below 1 Ω
AUI+ – Body ground	Always	10 kΩ or higher
AUI– – Body ground	Always	10 kΩ or higher



NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

9	INSPECT NAVIGATION ECU



(a) Disconnect the connector from the navigation ECU.

(b) Measure the resistance according to the values in the table below.

Standard:

Tester connection	Condition	Specified condition
AUI+ – AUO+	Always	Below 1 Ω
AUI– – AUO–	Always	Below 1 Ω

NG → **REPLACE NAVIGATION ECU (SEE PAGE 67–8)**

OK

REPLACE RADIO RECEIVER ASSY (SEE PAGE 67–5)