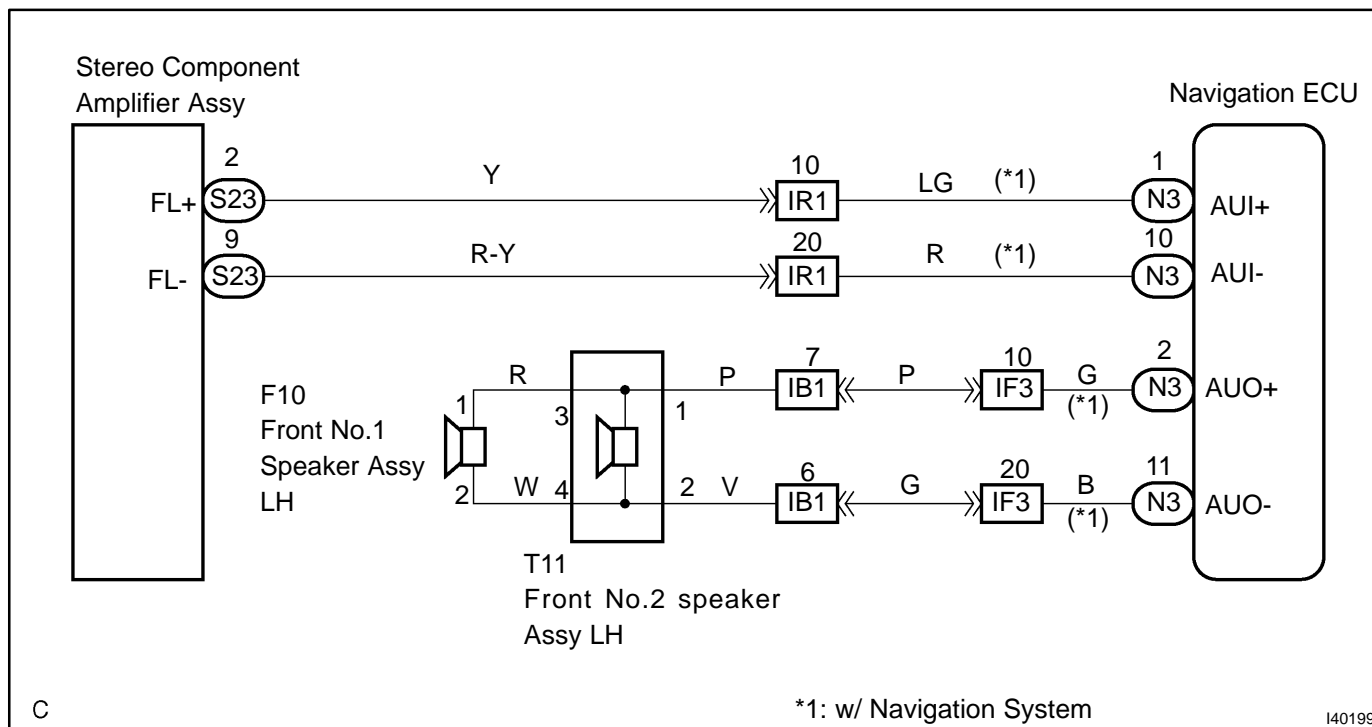


SPEAKER CIRCUIT (DRIVER SIDE SPEAKER)

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



I40199

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 8

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 67-11)

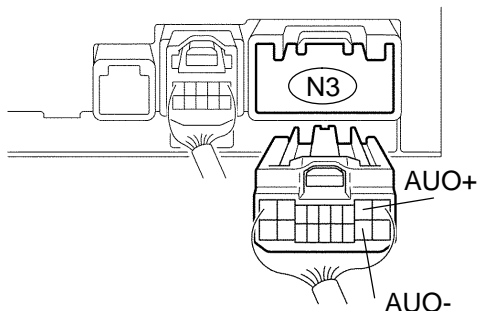
B

Go to step 6

A

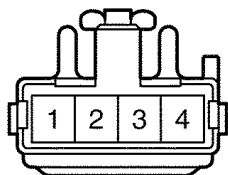
4 CHECK HARNESS AND CONNECTOR(NAVIGATION ECU - FRONT NO. 2 SPEAKER ASSY)

Navigation ECU:



P

Wire Harness Side: Front No.2 Speaker Assy

I40178
I38999

I40553

- (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 k Ω or higher
AUO- - Body ground	Always	10 k Ω or higher

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.

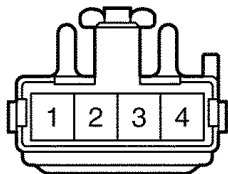
OK

**REPLACE FRONT NO. 2 SPEAKER ASSY
(SEE PAGE 67-1 1)**

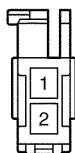
NG

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

Wire Harness Side:
Front No.2 Speaker Assy



Wire Harness Side:
Front No.1 Speaker Assy



I38999
I38233

I40554

- (a) Disconnect the connectors from the front No.2 speaker assy and front No.1 speaker assy.
- (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 k Ω or higher
4 (Front No.2 speaker Assy) - Body ground	Always	10 k Ω 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

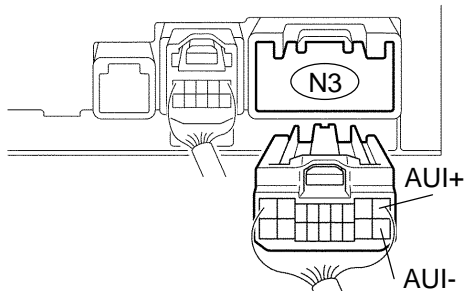
**REPLACE FRONT NO. 1 SPEAKER ASSY
(SEE PAGE 67-10)**

OK

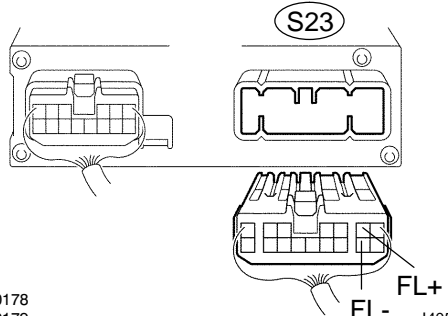
REPLACE NAVIGATION ECU (SEE PAGE 67-9)

8 CHECK HARNESS AND CONNECTOR(NAVIGATION ECU - STEREO COMPONENT AMPLIFIER ASSY)

Navigation ECU:



Stereo Component Amplifier Assy:



I40178
P I39179

I40555

- Disconnect the connectors from the navigation ECU and stereo component amplifier assy.
- Measure the resistance according to the values in the table below.

Standard:

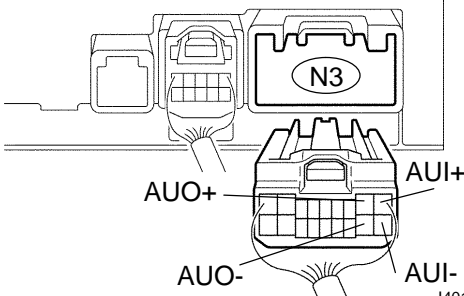
Tester connection	Condition	Specified condition
AUI+ - FL+	Always	Below 1 Ω
AUI- - FL-	Always	Below 1 Ω
AUI+ - Body ground	Always	10 k Ω or higher
AUI- - Body ground	Always	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

9 INSPECT NAVIGATION ECU



P

I40178

- Disconnect the connector from the navigation ECU.
- 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 67-9)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1632)