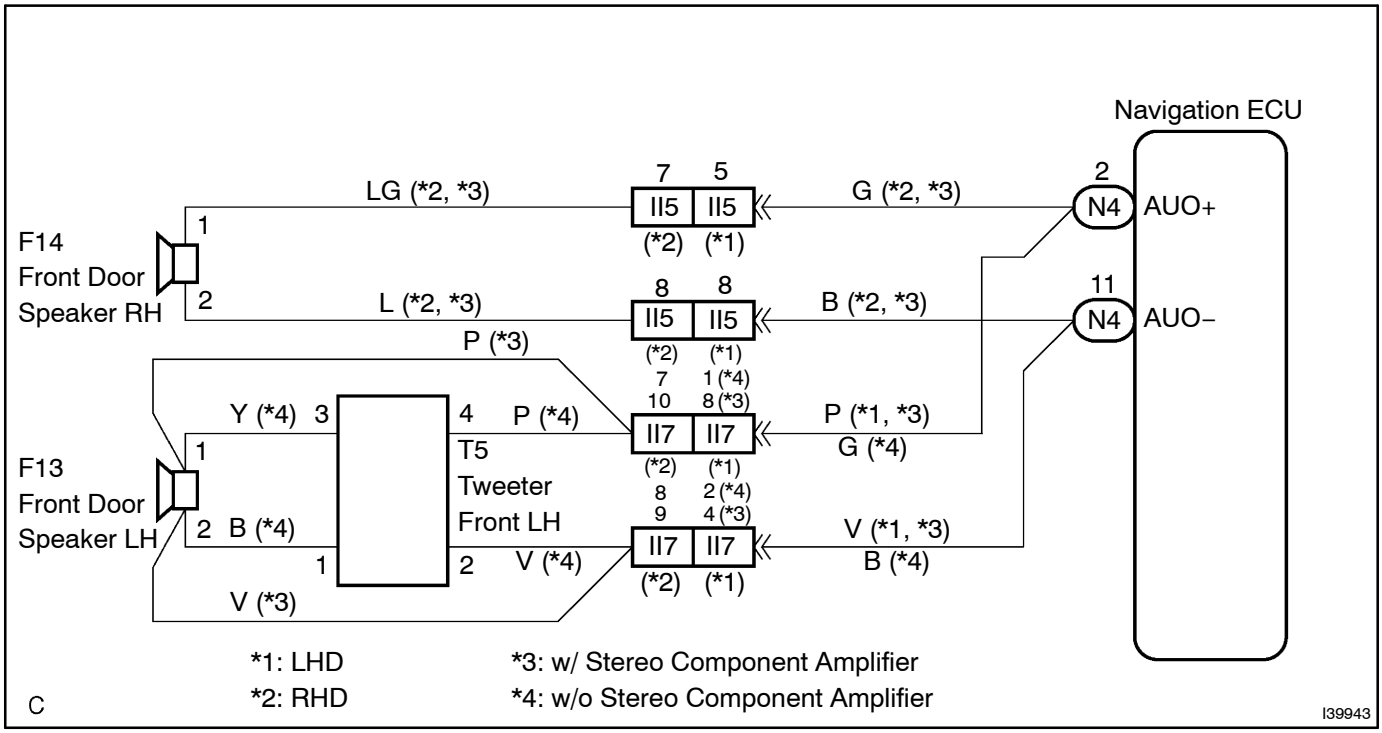
SPEAKER CIRCUIT (NAVIGATION VOICE)

CIRCUIT DESCRIPTION

This circuit is used when the voice guidance in the navigation system is on.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT FRONT NO. 1 SPEAKER ASSY

(a) Disconnect the speaker connector.
(b) Resistance check.
(1) Measure the resistance between the terminals of the speaker.

NOTICE:
The speaker should not be removed for checking.
Standard Models: 4 Ω
JBL Models: 2.6 Ω

NG → **REPLACE FRONT NO. 1 SPEAKER ASSY (SEE PAGE 67–8)**

OK

2	CONFIRM THE DESIGNATION INFORMATION

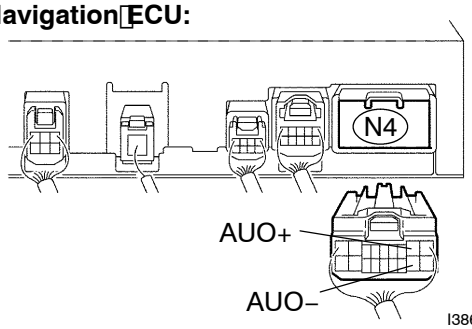
Spec	Go to step
Except LHD, w/o stereo component amplifier assy	A
LHD, w/o stereo component amplifier assy	B

B → **Go to step 4**

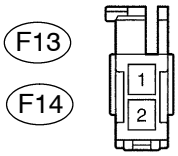
A

3	CHECK HARNESS AND CONNECTOR(FRONT NO. 1 SPEAKER ASSY – NAVIGATION ECU)

Navigation ECU:



Connector Front View (Front No.1 Speaker Assy):



(a) Disconnect the connector from navigation ECU (N4) and front No.1 speaker assy (F13, F14).

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

Standard:

Tester connection	Condition	Specified condition
F13–1 or F14–1 – AUO+	Always	Below 1 Ω
F13–2 or F14–2 – AUO–	Always	Below 1 Ω
F13–1 or F14–1 – Body ground	Always	10 kΩ or higher
F13–2 or F14–2 – Body ground	Always	10 kΩ or higher

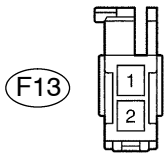
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK →

REPLACE NAVIGATION ECU (SEE PAGE 67–23)

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

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



I38233

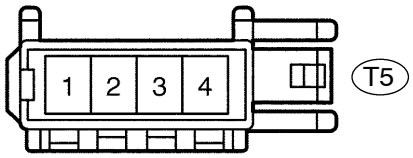
(a) Disconnect the connectors from the front No.1 speaker assy F13 and front No.2 speaker assy T5.

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

Standard:

Tester connection	Condition	Specified condition
F13–1 – T5–3	Always	Below 1 Ω
F13–2 – T5–1	Always	Below 1 Ω
F13–1 – Body ground	Always	10 kΩ or higher
F13–2 – Body ground	Always	10 kΩ or higher

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



P I40785

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.
Standard: Malfunction disappears.

HINT:

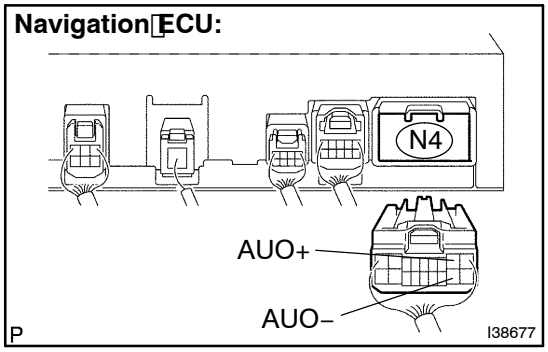
- Connect all the connectors to the speakers.
- When there is a possibility that either right or left front speaker is defective, inspect by interchanging the right one and the left one.

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

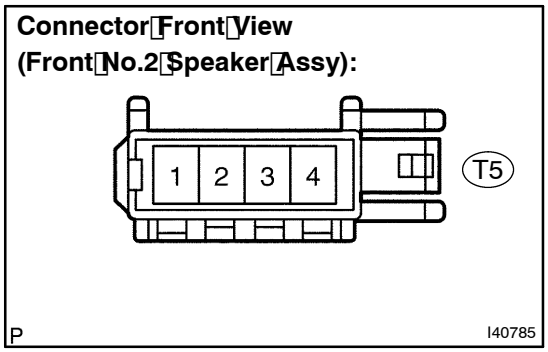
NG

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

Navigation ECU:



Connector Front View (Front No.2 Speaker Assy):



(a) Disconnect the connector from navigation ECU (N4) and front No.2 speaker assy (T5).

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

Standard:

Tester connection	Condition	Specified condition
T5–4 – AUO+	Always	Below 1 Ω
T5–2 – AUO–	Always	Below 1 Ω
T5–4 – Body ground	Always	10 kΩ or higher
T5–2 – Body ground	Always	10 kΩ or higher

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

OK →

REPLACE NAVIGATION ECU (SEE PAGE 67–23)