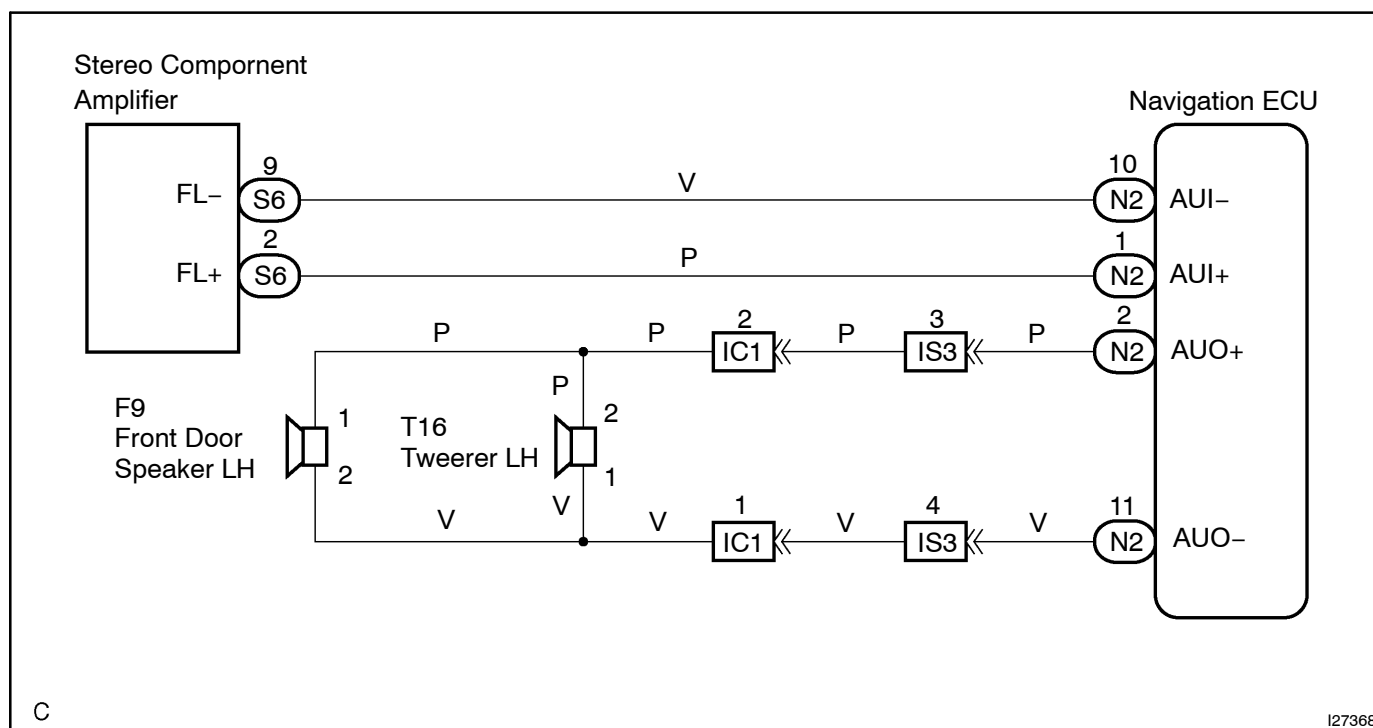


Speaker Circuit

CIRCUIT DESCRIPTION

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

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Inspect apparatus.
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(a) Choose the apparatus to be inspected.

Apparatus	Go to step
Front LH speaker	A
Front LH tweeter	B
Front speaker No.1 assy and front speaker No.2 assy	C

B**Go to step 4****C****Go to step 5****A**

2	Inspect front LH speaker.
----------	----------------------------------

(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.

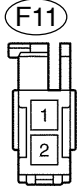
Standard value:

Standard models: 2 Ω

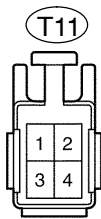
NG**Replace front LH speaker.****OK**

3 Check for open or short circuit in harness and connector between front LH speaker and front LH tweeter.

Front No.1 Speaker Side:



Front No.2 Speaker Side:



P

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- (a) Disconnect the front No.2 speaker connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
F11-1 - T11-3	Always	Below 1 Ω
F11-2 - T11-1	Always	Below 1 Ω
F11-1 - Body ground	Always	10 k Ω or higher
F11-2 - Body ground	Always	10 k Ω or higher

NG

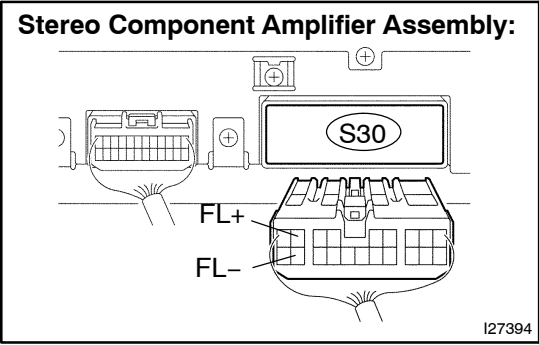
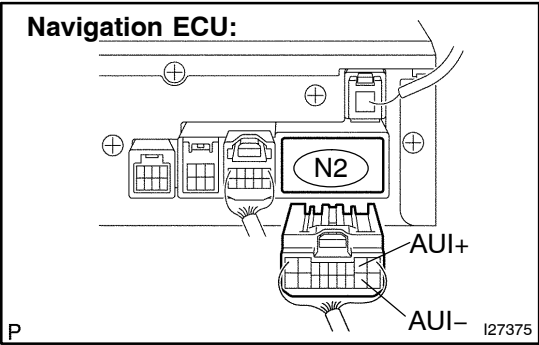
Repair or replace harness or connector.

OK

Proceed to next circuit inspection shown in problem symptoms table. (See page [DI-1581](#))

4

Check for open or short circuit in harness and connector between navigation ECU and stereo component amplifier assembly.



- (a) Disconnect the connector from the navigation ECU and stereo component amplifier assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

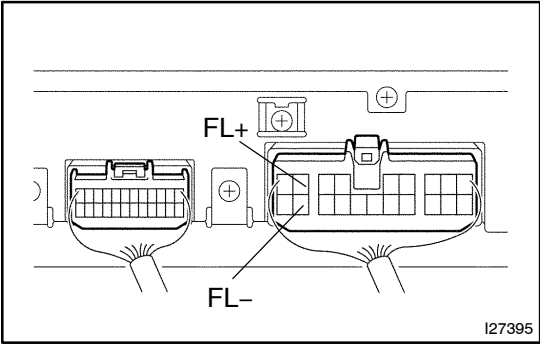
Tester connection	Condition	Specified condition
AUI+ – FL+	Always	Below 1 Ω
AUI– – FL–	Always	Below 1 Ω
AUI+ – Body ground	Always	10 k Ω or higher
AUI– – Body ground	Always	10 k Ω or higher

OK

NG

Repair or replace harness or connector.

5 Inspect stereo component amplifier assembly.



- (a) Connect the connector.
- (b) Using an oscilloscope, check the signal waveform between the terminals according to the conditions, as shown in the chart.

Standard:

Tester connection	Condition	Specified condition
FL+ - Body ground	While voice sound is being produced	A waveform synchronized with sound is output
FL- - Body ground	While voice sound is being produced	A waveform synchronized with sound is output

NG

Replace stereo component amplifier assembly.

OK

Proceed to next circuit inspection shown in problem symptoms table. (See page [DI-1581](#))