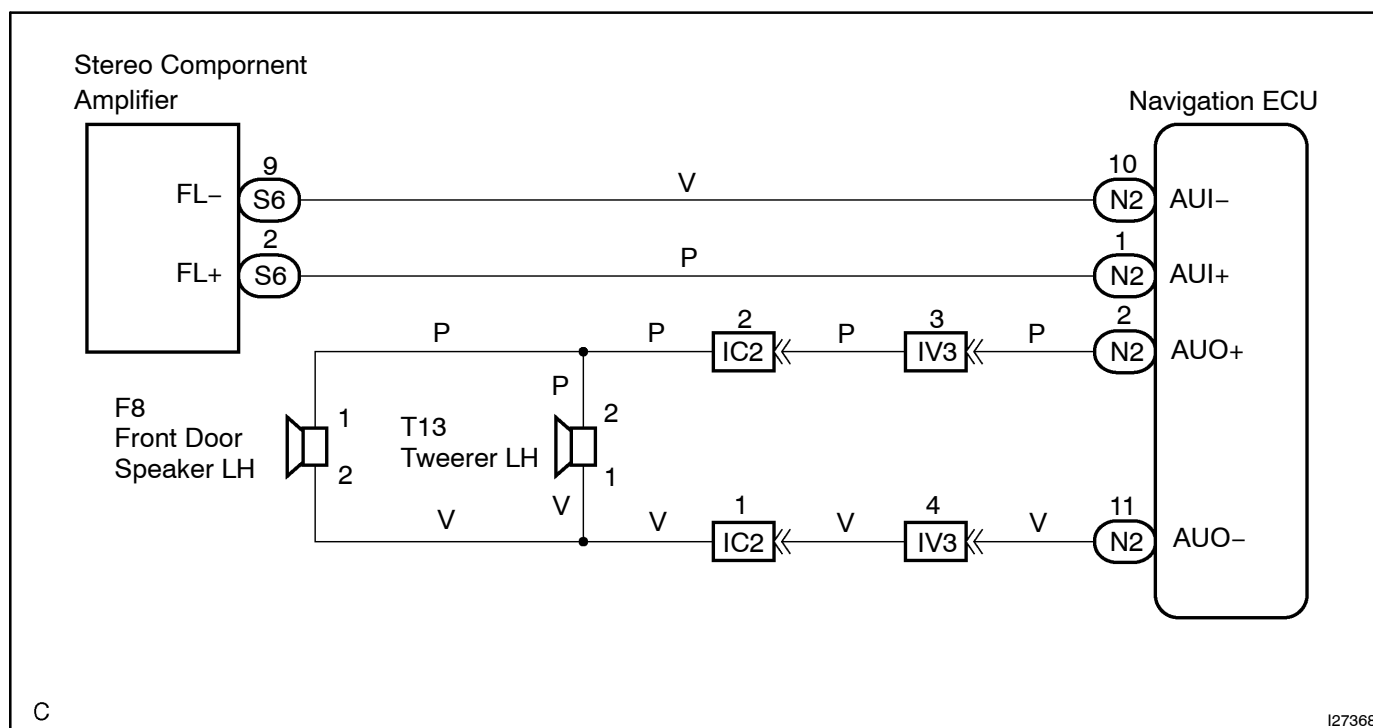


## Speaker Circuit

### CIRCUIT DESCRIPTION

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

### WIRING DIAGRAM

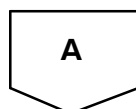
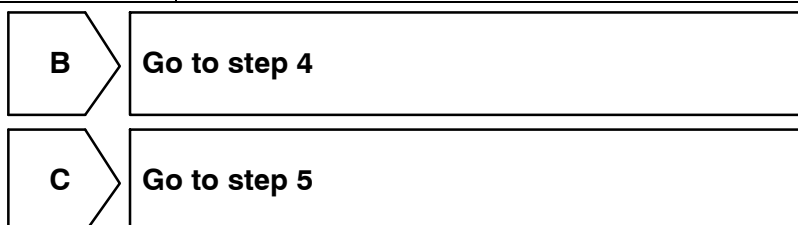


## INSPECTION PROCEDURE

|          |                           |
|----------|---------------------------|
| <b>1</b> | <b>Inspect apparatus.</b> |
|----------|---------------------------|

(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>2</b> | <b>Inspect front LH speaker.</b> |
|----------|----------------------------------|

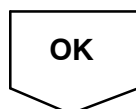
- (a) Disconnect the speaker connector.  
 (b) Resistance check.  
 (1) Measure the resistance between the terminals of the speaker.

**NOTICE:**

**The speaker should not be removed for checking.**

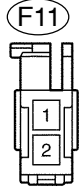
**Standard value:**

**Standard models: 2 Ω**

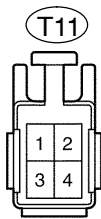


**3      Check for open or short circuit in harness and connector between front LH speaker and front LH tweeter.**

**Front No.1 Speaker Side:**



**Front No.2 Speaker Side:**



P

I27393

- (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 $\Omega$        |
| F11-2 – T11-1       | Always    | Below 1 $\Omega$        |
| F11-1 – Body ground | Always    | 10 k $\Omega$ or higher |
| F11-2 – Body ground | Always    | 10 k $\Omega$ or higher |

**NG**

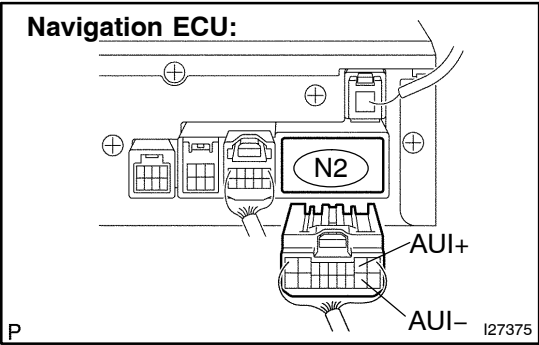
**Repair or replace harness or connector.**

**OK**

**Proceed to next circuit inspection shown in problem symptoms table. (See page [DI-1179](#))**

4

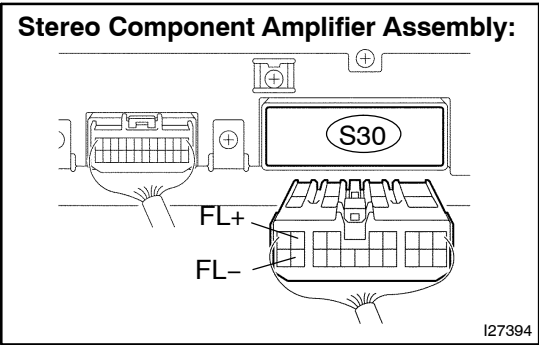
Check for open or short circuit in harness and connector between navigation ECU and stereo component amplifier assembly.



- (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 kΩ or higher     |
| AUI– – Body ground | Always    | 10 kΩ or higher     |

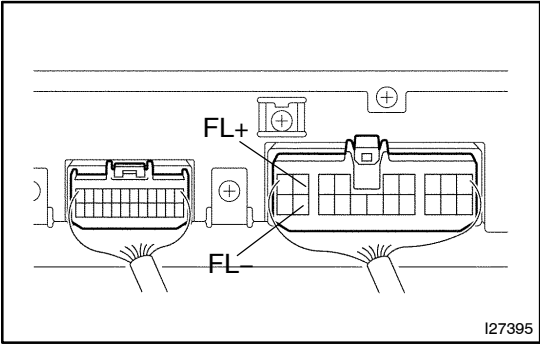


NG

Repair or replace harness or connector.

OK

**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-1179](#))**