SPEAKER CIRCUIT

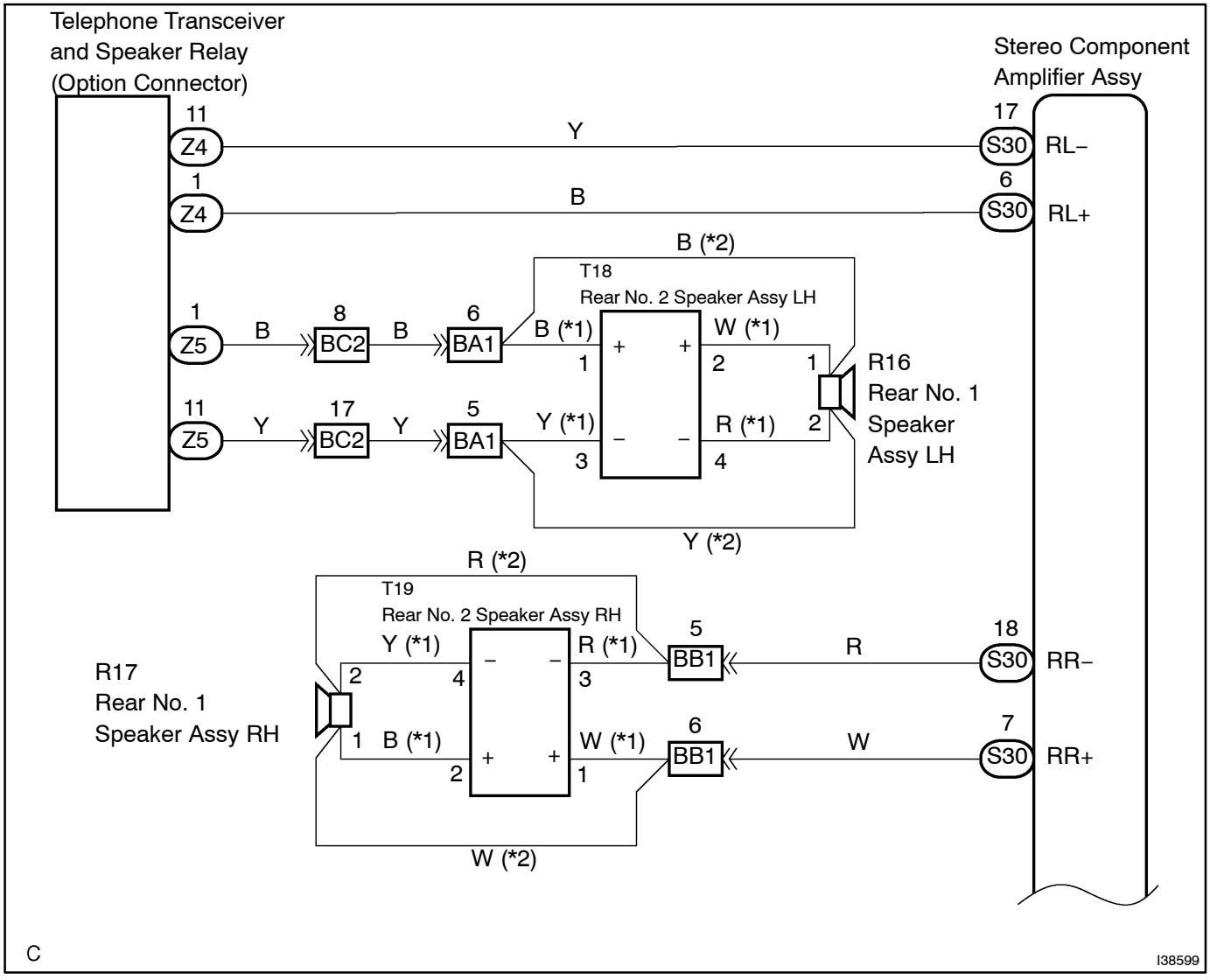
CIRCUIT DESCRIPTION

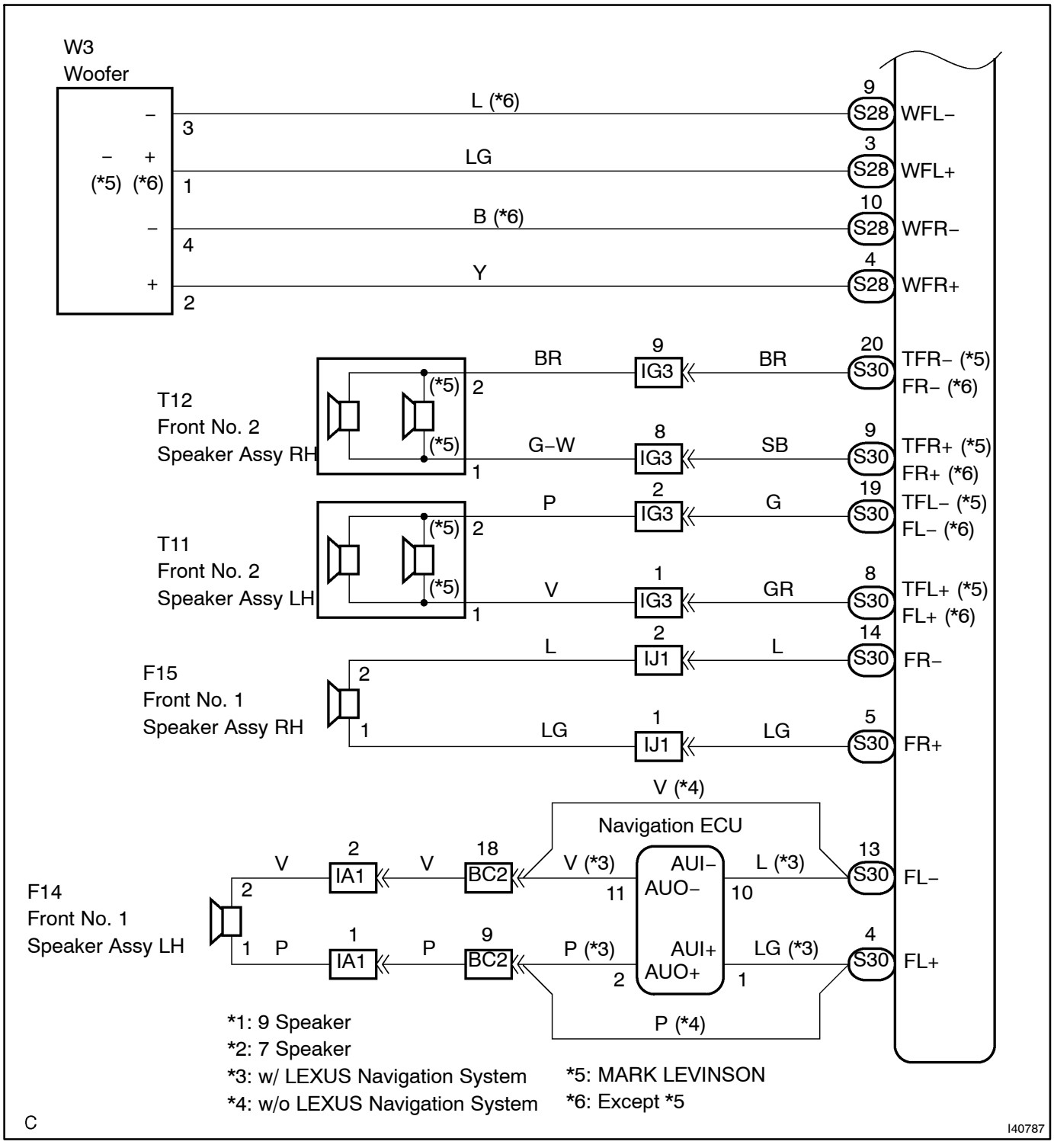
The sound signal that has been amplified by the stereo component amplifier assy is sent to the speaker from the stereo component amplifier assy through this circuit.
If there is a short in this circuit, the stereo component amplifier assy detects it and stops output to the speakers.
Thus sound can not be heard from the speaker even if there is no malfunction in the stereo component amplifier assy or speaker.
Standard System:
There are two circuits that detect a short circuit.

- When a short in the woofer speaker circuit is detected, sound output from only the woofer speaker circuit stops.
- When a short in the other circuits is detected, sound output from the circuits other than the woofer speaker circuit is stopped.

Mark Levinson System:
When a short in the speaker circuit is detected, all sound output is stopped.

WIRING DIAGRAM

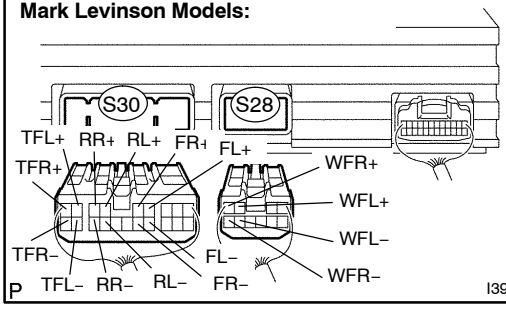



W3
Woofer
– +
(*5) (*6)
3
1
4
2
L (*6)
LG
B (*6)
Y
9 S28 WFL–
3 S28 WFL+
10 S28 WFR–
4 S28 WFR+
T12
Front No. 2
Speaker Assy RH
T11
Front No. 2
Speaker Assy LH
(*5)
BR
G–W
P
V
9 IG3
8 IG3
2 IG3
1 IG3
20 S30 TFR– (*5) FR– (*6)
9 S30 TFR+ (*5) FR+ (*6)
19 S30 TFL– (*5) FL– (*6)
8 S30 TFL+ (*5) FL+ (*6)
F15
Front No. 1
Speaker Assy RH
L
LG
2 IJ1
1 IJ1
14 S30 FR–
5 S30 FR+
V (*4)
Navigation ECU
F14
Front No. 1
Speaker Assy LH
2 IA1
1 IA1
18 BC2
9 BC2
V (*3)
P (*3)
AUI–
AUO–
AUI+
AUO+
11
2
L (*3)
LG (*3)
10
1
13 S30 FL–
4 S30 FL+
P (*4)
*1: 9 Speaker
*2: 7 Speaker
*3: w/ LEXUS Navigation System
*4: w/o LEXUS Navigation System
*5: MARK LEVINSON
*6: Except *5
C
I40787

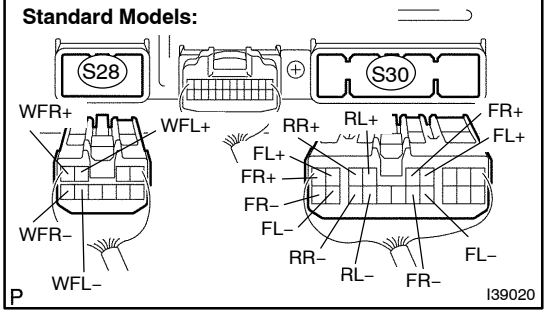
INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(STEREO COMPONENT AMPLIFIER ASSY – SPEAKER ASSY)

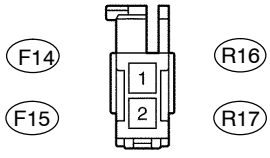
Stereo Component Amplifier Assy:
Mark Levinson Models:



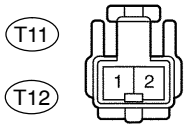
Stereo Component Amplifier Assy:
Standard Models:



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



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

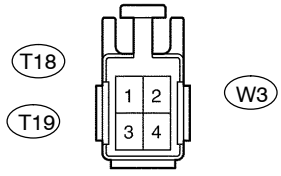


(a) Disconnect the connectors from the stereo component amplifier assy S28, S30 and speakers.

(b) Measure resistance between terminals of stereo component amplifier assy and speakers.
Standard: Below 1 Ω

(c) Measure resistance between terminals of stereo component amplifier assy and body ground.

Wire Harness Side:
(Rear No. 2 Speaker Assy)
(Woofer)



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

OK

2 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:
Standard models: 2 Ω
Mark Levinson models: 8 Ω

NG → **REPLACE FRONT NO.1 SPEAKER ASSY (SEE PAGE 67–18)**

OK

3 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 67–21)**

NG

4	INSPECT REAR 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:
Standard models: 4 Ω
Mark Levinson models: 8 Ω

NG → **REPLACE REAR NO. 1 SPEAKER ASSY (SEE PAGE 67–19)**

OK

5	INSPECT REAR NO. 2 SPEAKER ASSY

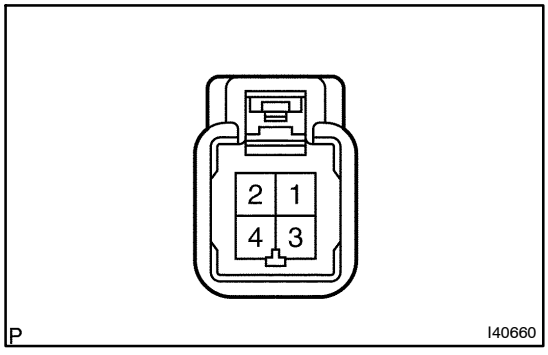
(a) Check that malfunction disappears when another speaker in a good condition is installed.
OK: Malfunction disappears.

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 REAR NO. 2 SPEAKER ASSY (SEE PAGE 67–22)**

NG

6	INSPECT WOOFER



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

NOTICE:
The speaker should not be removed for checking.

Standard:

Tester connection	Specified Condition
1 – 3	2 Ω *1
2 – 4	2 Ω *1
1 – 2	14.5 Ω *2

*1: Standard models
*2: Mark Levinson models

NG → **REPLACE WOOFER (SEE PAGE 67–20)**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1732)