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:

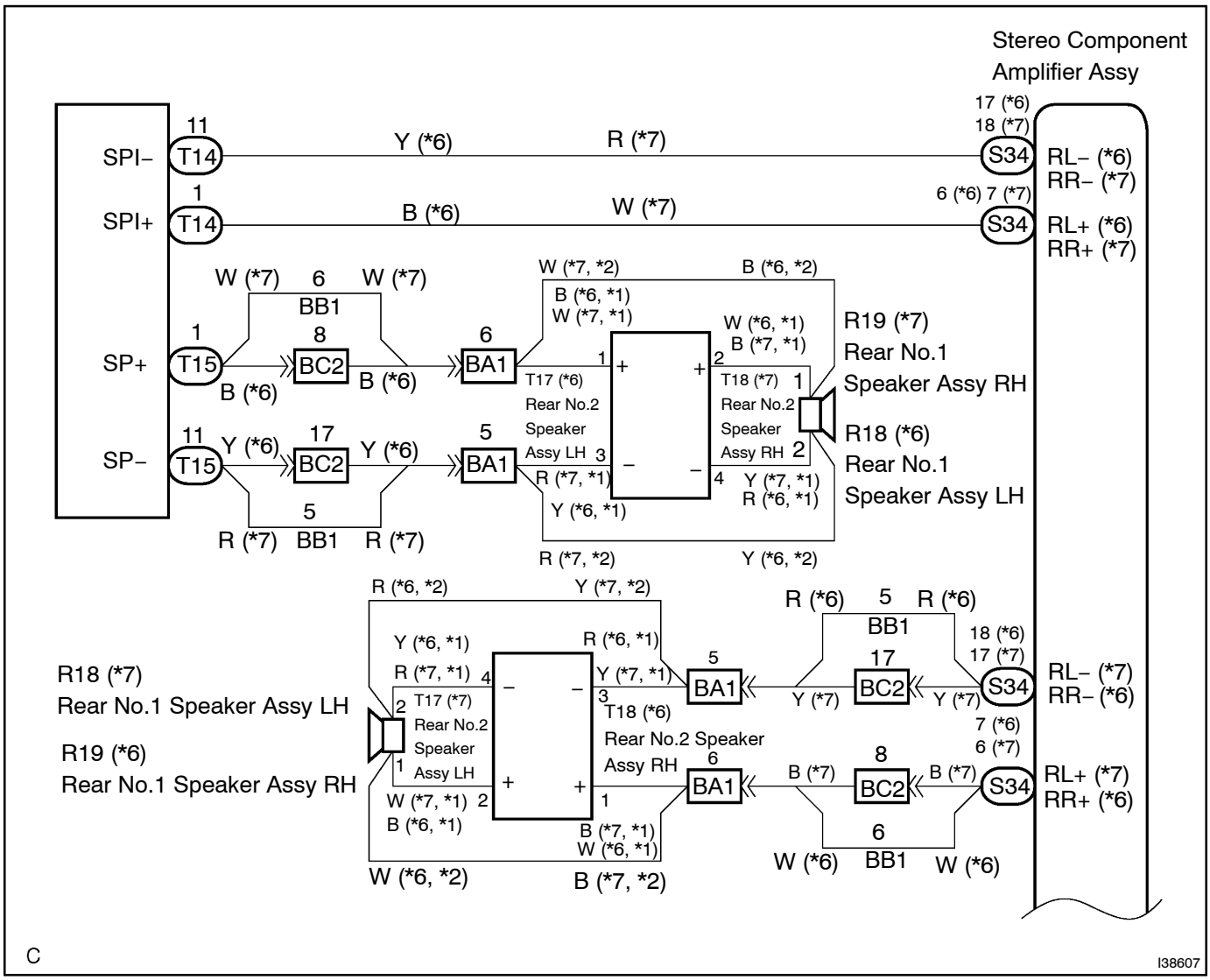
There are two circuits that detect a short circuit.

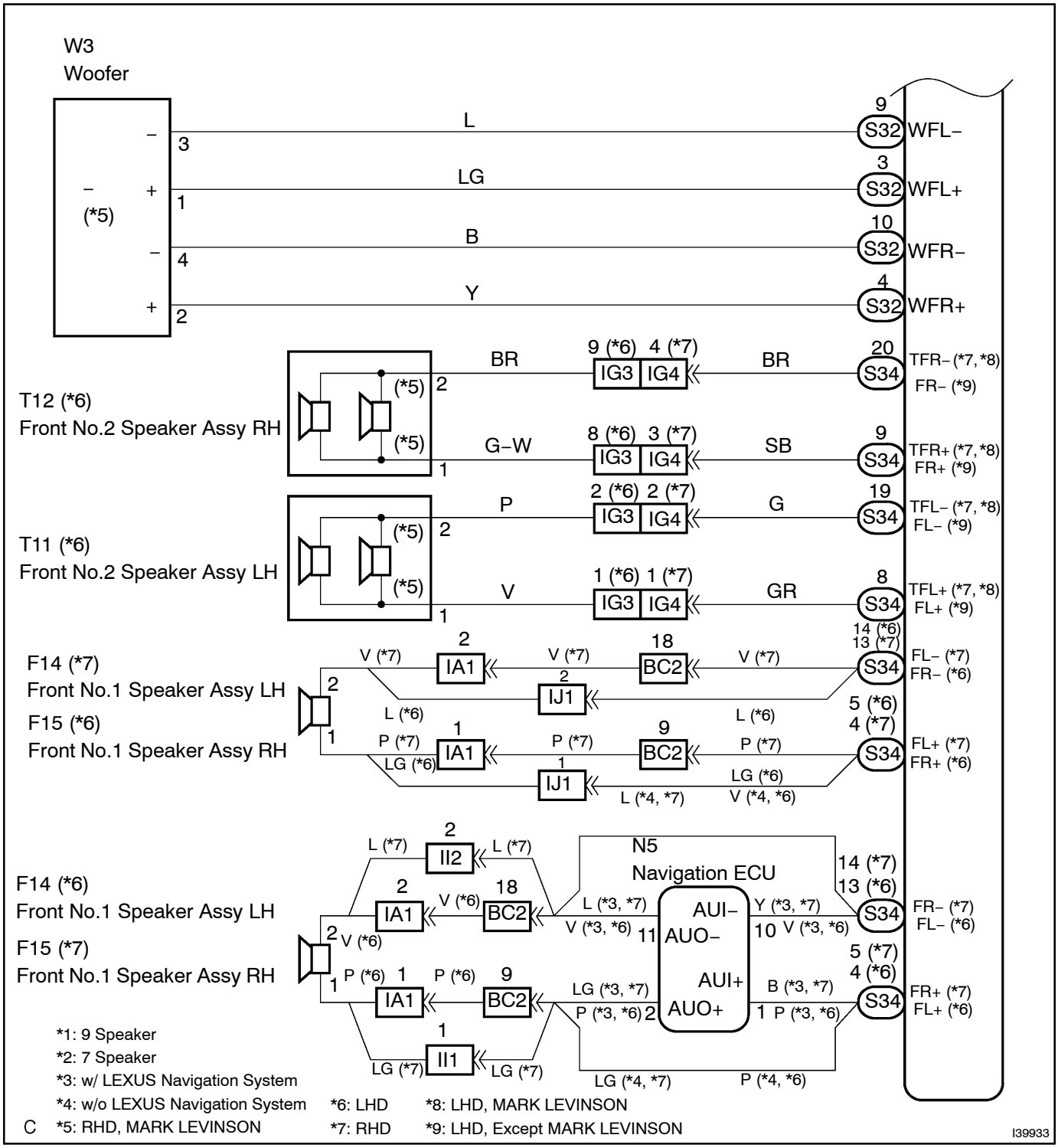
- When a short in the woofer speaker circuit is detected, sound output from only the woofer speaker circuit stops.
- When a short in the other circuits is detected, sound output from the circuits other than the woofer speaker circuit is stopped.

Mark Levinson System:

When a short in the speaker circuit is detected, all sound output is stopped.

WIRING DIAGRAM

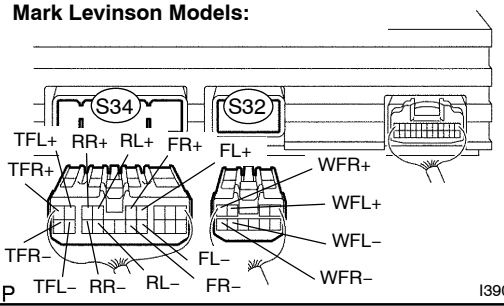



W3
Woofer
L
LG
B
Y
WFL–
WFL+
WFR–
WFR+
T12 (*6)
Front No.2 Speaker Assy RH
T11 (*6)
Front No.2 Speaker Assy LH
BR
G–W
P
V
IG3
IG4
TFR– (*7, *8)
FR– (*9)
TFR+ (*7, *8)
FR+ (*9)
TFL– (*7, *8)
FL– (*9)
TFL+ (*7, *8)
FL+ (*9)
F14 (*7)
Front No.1 Speaker Assy LH
F15 (*6)
Front No.1 Speaker Assy RH
IA1
IJ1
BC2
FL– (*7)
FR– (*6)
FL+ (*7)
FR+ (*6)
F14 (*6)
Front No.1 Speaker Assy LH
F15 (*7)
Front No.1 Speaker Assy RH
II2
II1
N5
Navigation ECU
AUI–
AUO–
AUI+
AUO+
FR– (*7)
FL– (*6)
FR+ (*7)
FL+ (*6)
*1: 9 Speaker
*2: 7 Speaker
*3: w/ LEXUS Navigation System
*4: w/o LEXUS Navigation System
*5: RHD, MARK LEVINSON
*6: LHD
*7: RHD
*8: LHD, MARK LEVINSON
*9: LHD, Except MARK LEVINSON
I39933

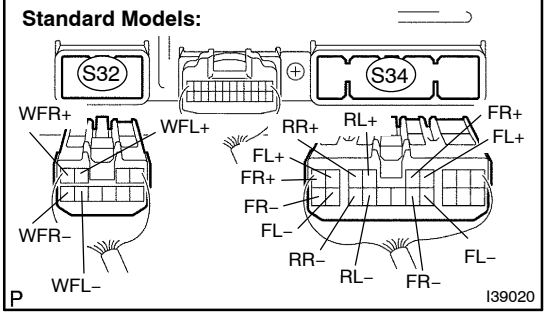
INSPECTION PROCEDURE

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

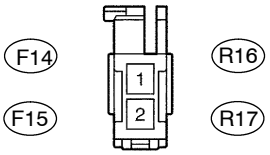
Stereo Component Amplifier Assy:
Mark Levinson Models:



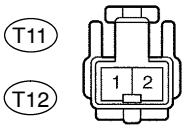
Stereo Component Amplifier Assy:
Standard Models:



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



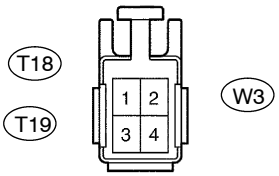
Wire Harness Side:
(Front No. 2 Speaker Assy)



(a) Disconnect the connectors from the stereo component amplifier assy S32, S34 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.
Standard: 10 kΩ or higher

HINT:
When inspecting the rear No.1 and No.2 speaker assy LH, check if the LEXUS link system is operating normally. If it is not operating normally, proceed to troubleshooting on the LEXUS link system.

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.

NG → **REPLACE FRONT NO. 2 SPEAKER ASSY (SEE PAGE 67–21)**

OK

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

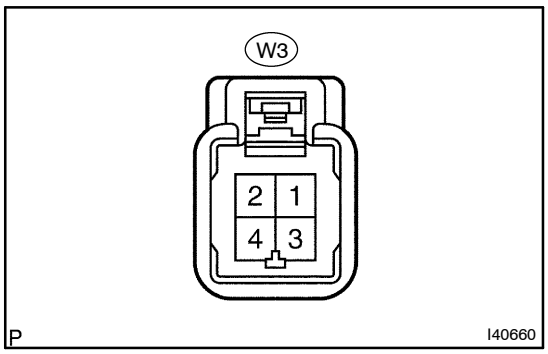
(a) Check that malfunction disappears when another speaker in a good condition is installed.
OK: Malfunction disappears.

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.

NG → REPLACE REAR NO. 2 SPEAKER ASSY (SEE PAGE 67–22)

OK

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 05–1560)