

Speaker Circuit

DESCRIPTION

Sound signals that have been amplified by the stereo component amplifier or radio receiver assembly (built-in amp) are sent to the speakers from the stereo component amplifier assembly or radio receiver assembly through this circuit.

If there is a short in this circuit, the stereo component amplifier assembly detects it and stops the output to the speakers.

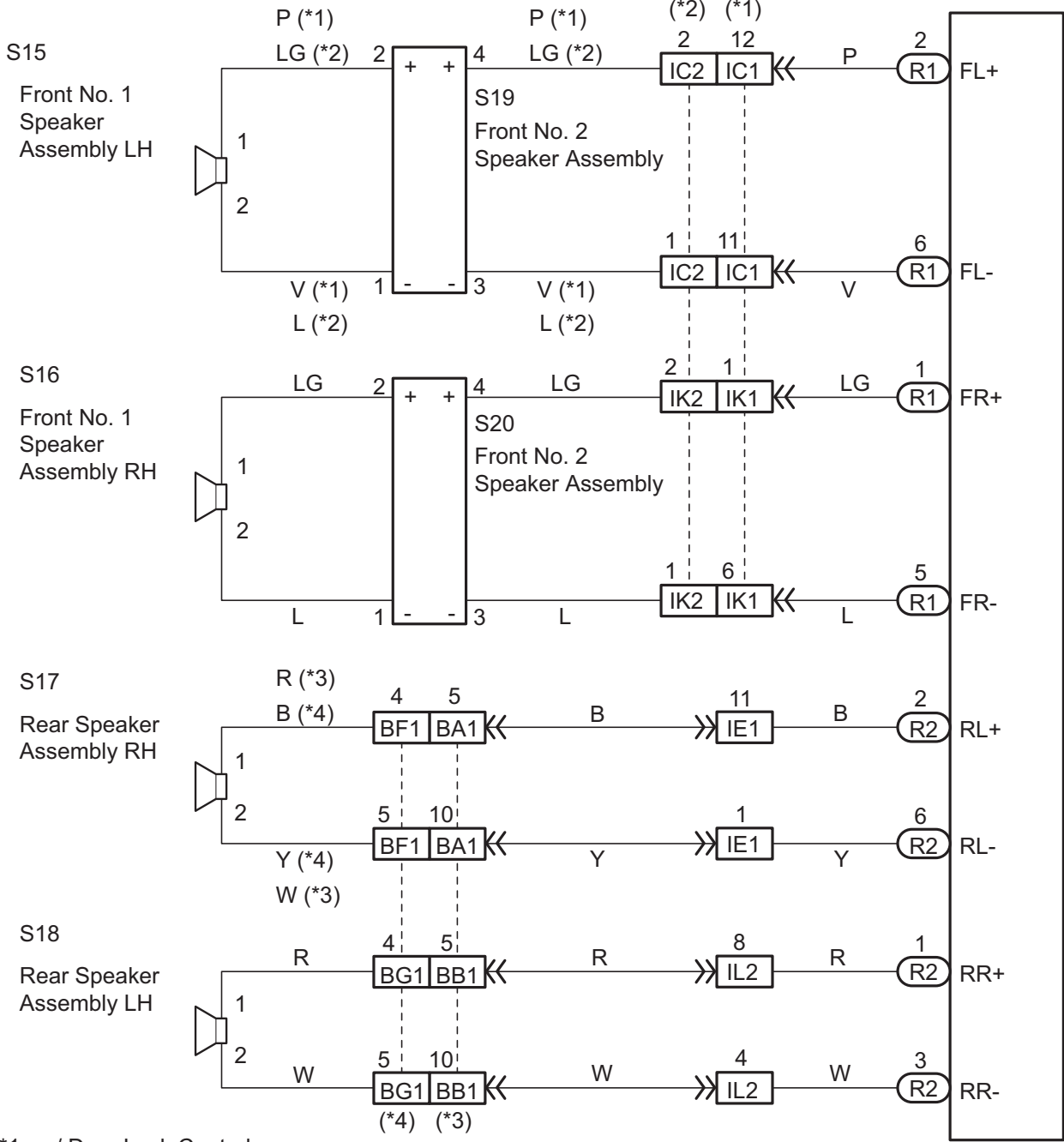
Thus sound cannot be heard from the speakers even if there is no malfunction in the stereo component amplifier assembly or speakers.

WIRING DIAGRAM

AV

Built-in AMP:

Radio Receiver Assembly

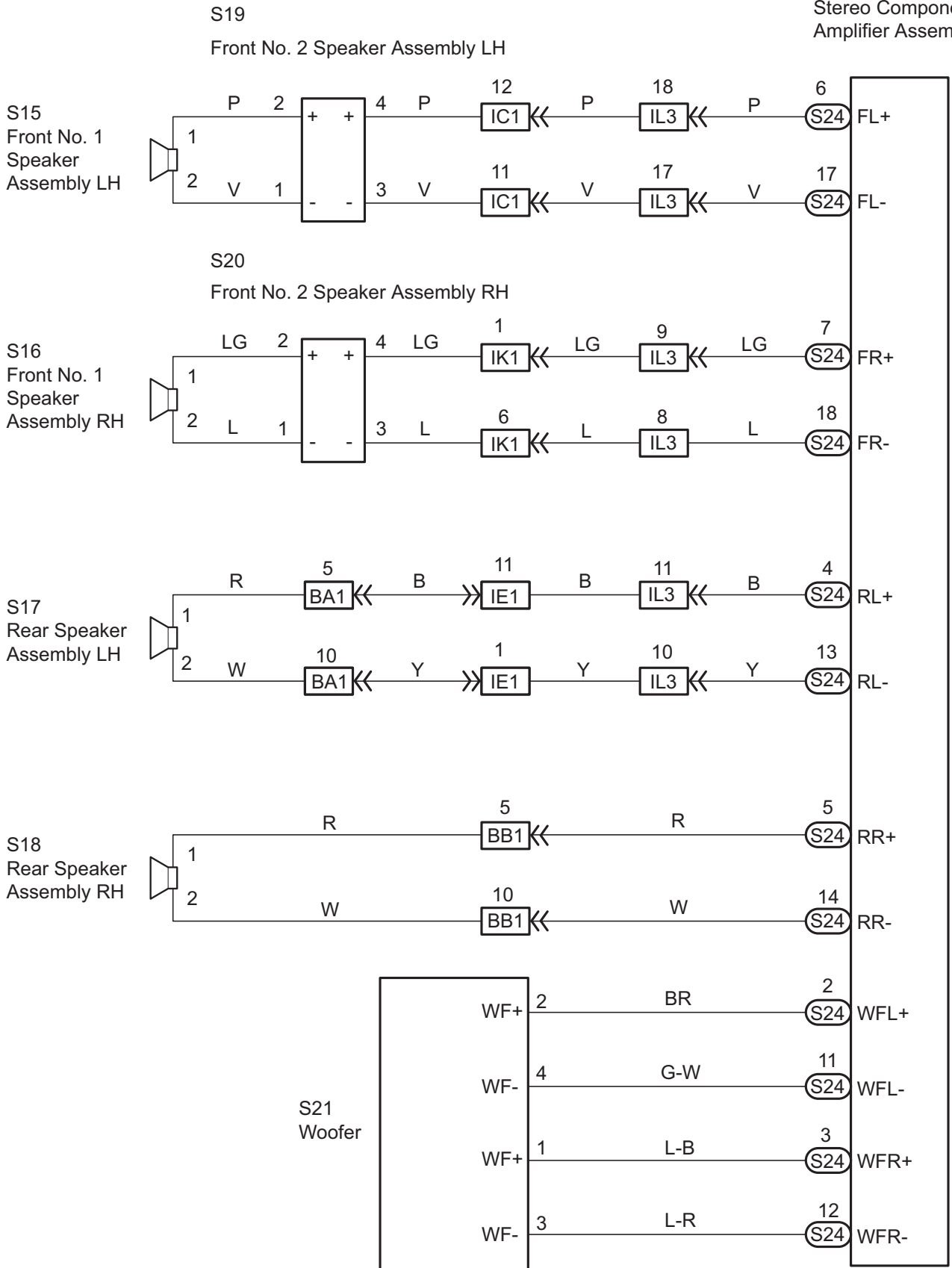


- *1 : w/ Door Lock Control
- *2 : w/o Door Lock Control
- *3 : Double Cab
- *4 : Access Cab

Separate AMP:

Stereo Component
Amplifier Assembly

AV



1 **SYSTEM CHECK**

AV

- (a) Check the system.
 - (1) Check whether the stereo component amplifier assembly is a built-in type or a separate type.

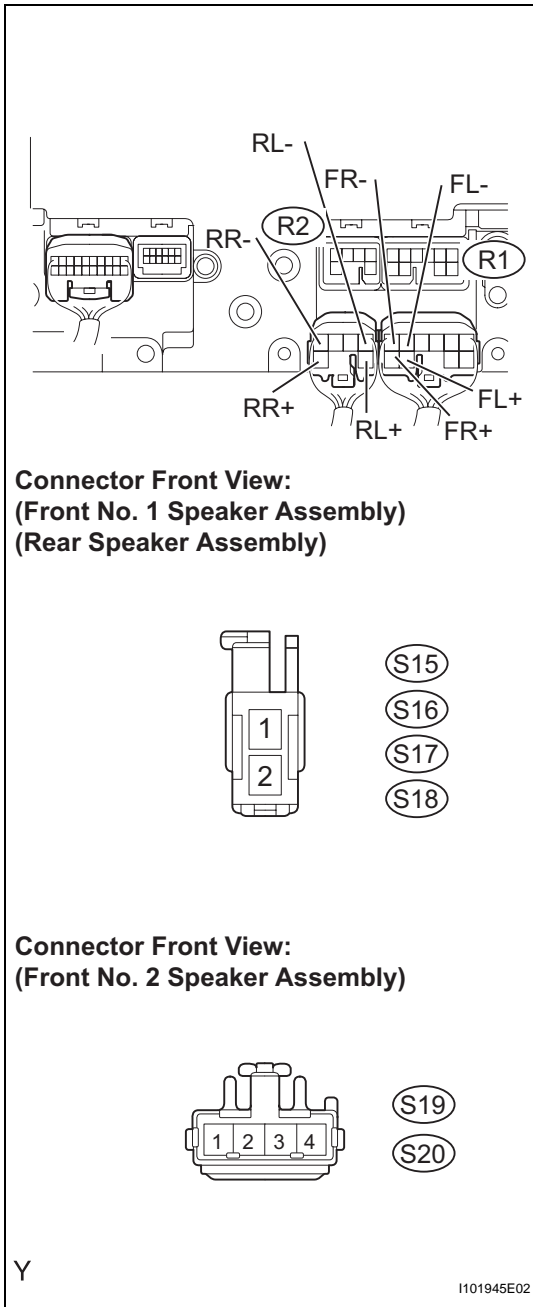
Amplifier Type	Proceed To
Built-in AMP	A
Separate AMP	B

A

B **Go to step 6**

2

CHECK HARNESS AND CONNECTOR (RADIO RECEIVER ASSEMBLY - SPEAKER ASSEMBLY)



- (a) Disconnect the R2 and R1 radio receiver assembly connectors.
- (b) Disconnect the speaker connectors.
- (c) Check the resistance.

Standard

Tester Connection	Specified Condition
FL+ (R1-2) - S19-4	Below 1Ω
FL- (R1-6) - S19-3	Below 1Ω
FR+ (R1-1) - S20-4	Below 1Ω
FR- (R1-5) - S20-3	Below 1Ω
S19-1 - S15-2	Below 1Ω
S19-2 - S15-1	Below 1Ω
S20-1 - S16-2	Below 1Ω
S20-2 - S16-1	Below 1Ω
RL+ (R2-2) - S17-1	Below 1Ω
RL- (R2-6) - S17-2	Below 1Ω
RR+ (R2-1) - S18-1	Below 1Ω
RR- (R2-3) - S18-2	Below 1Ω
FL+ (R1-2) - Body ground	10 kΩ or higher
FL- (R1-6) - Body ground	10 kΩ or higher
FR+ (R1-1) - Body ground	10 kΩ or higher
FR- (R1-5) - Body ground	10 kΩ or higher
RL+ (R2-2) - Body ground	10 kΩ or higher
RL- (R2-6) - Body ground	10 kΩ or higher
RR+ (R2-1) - Body ground	10 kΩ or higher
RR- (R2-3) - Body ground	10 kΩ or higher

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3

INSPECT FRONT NO. 1 SPEAKER ASSEMBLY

- (a) Measure the resistance between the terminals of the speaker.

NOTICE:

The speaker should not be removed for checking.

Standard:

Approximately 4 Ω

NG

REPLACE FRONT NO. 1 SPEAKER
ASSEMBLY

OK

AV

4

INSPECT FRONT NO. 2 SPEAKER ASSEMBLY

- (a) Check that the malfunction disappears when another speaker in good condition is installed.

OK:**The malfunction disappears.****HINT:**

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

NG

REPLACE FRONT NO. 2 SPEAKER
ASSEMBLY

OK

5

INSPECT REAR SPEAKER ASSEMBLY

- (a) Measure the resistance between the terminals of the speaker.

NOTICE:**The speaker should not be removed for checking.****Standard:**Approximately 4 Ω

NG

REPLACE REAR SPEAKER ASSEMBLY

OK

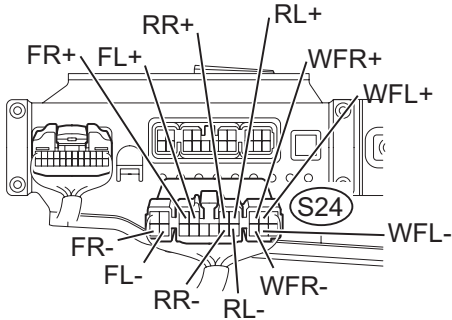
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

6 CHECK HARNESS AND CONNECTOR (STEREO COMPONENT AMPLIFIER ASSEMBLY - SPEAKER ASSEMBLY)

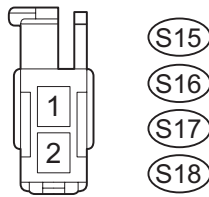
- (a) Disconnect the S24 connectors from the stereo component amplifier assembly and speakers.
- (b) Measure the resistance.

Standard

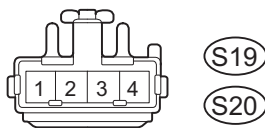
Tester Connection	Specified Condition
FL+ (S24-6) - S19-4	Below 1Ω
FL- (S24-17) - S19-3	Below 1Ω
FR+ (S24-7) - S20-4	Below 1Ω
FR- (S24-18) - S20-3	Below 1Ω
S19-1 - S15-2	Below 1Ω
S19-2 - S15-1	Below 1Ω
S20-1 - S16-2	Below 1Ω
S20-2 - S16-1	Below 1Ω
RL+ (S24-4) - S17-1	Below 1Ω
RL- (S24-13) - S17-2	Below 1Ω
RR+ (S24-5) - S18-1	Below 1Ω
RR- (S24-14) - S18-2	Below 1Ω
FL+ (S24-6) - Body ground	10 kΩ or higher
FL- (S24-17) - Body ground	10 kΩ or higher
FR+ (S24-7) - Body ground	10 kΩ or higher
FR- (S24-18) - Body ground	10 kΩ or higher
RL+ (S24-4) - Body ground	10 kΩ or higher
RL- (S24-12) - Body ground	10 kΩ or higher
RR+ (S24-5) - Body ground	10 kΩ or higher
RR- (S24-14) - Body ground	10 kΩ or higher
WFL+ (S24-2) - Body ground	10 kΩ or higher
WFL- (S24-11) - Body ground	10 kΩ or higher
WFR+ (S24-3) - Body ground	10 kΩ or higher
WFR- (S24-12) - Body ground	10 kΩ or higher



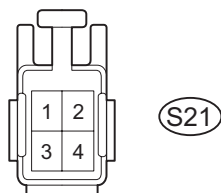
**Connector Front View:
(Front No. 1 Speaker Assembly)
(Rear Speaker Assembly)**



**Connector Front View:
(Front No. 2 Speaker Assembly)**



**Connector Front View:
(Woofer)**



NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

7 INSPECT FRONT NO. 1 SPEAKER ASSEMBLY

AV

- (a) Measure the resistance between the terminals of the speaker.

NOTICE:

The speaker should not be removed for checking.

Standard:

Approximately 4 Ω

NG

REPLACE FRONT NO. 1 SPEAKER ASSEMBLY

OK

8 INSPECT FRONT NO. 2 SPEAKER ASSEMBLY

- (a) Check that the malfunction disappears when another speaker in good condition is installed.

OK:

The malfunction disappears.

HINT:

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

NG

REPLACE FRONT NO. 2 SPEAKER ASSEMBLY

OK

9 INSPECT REAR SPEAKER ASSEMBLY

- (a) Measure the resistance between the terminals of the speaker.

NOTICE:

The speaker should not be removed for checking.

Standard:

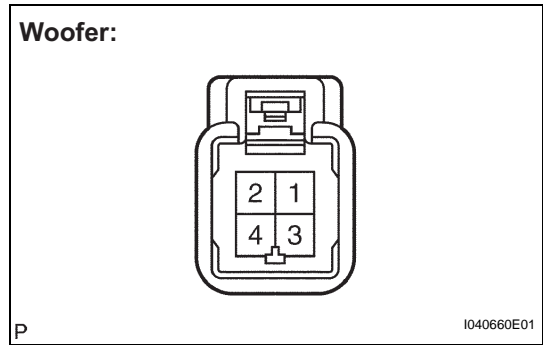
Approximately 4 Ω

NG

REPLACE REAR SPEAKER ASSEMBLY

OK

10 INSPECT NO. 1 SPEAKER ASSEMBLY WITH BOX



(a) Measure the resistance.

NOTICE:

The speaker should not be removed for checking. Standard

Tester Connection	Specified Condition
1 - 3	2 Ω
2 - 4	2 Ω

AV

NG

REPLACE NO. 1 SPEAKER ASSEMBLY WITH BOX

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE