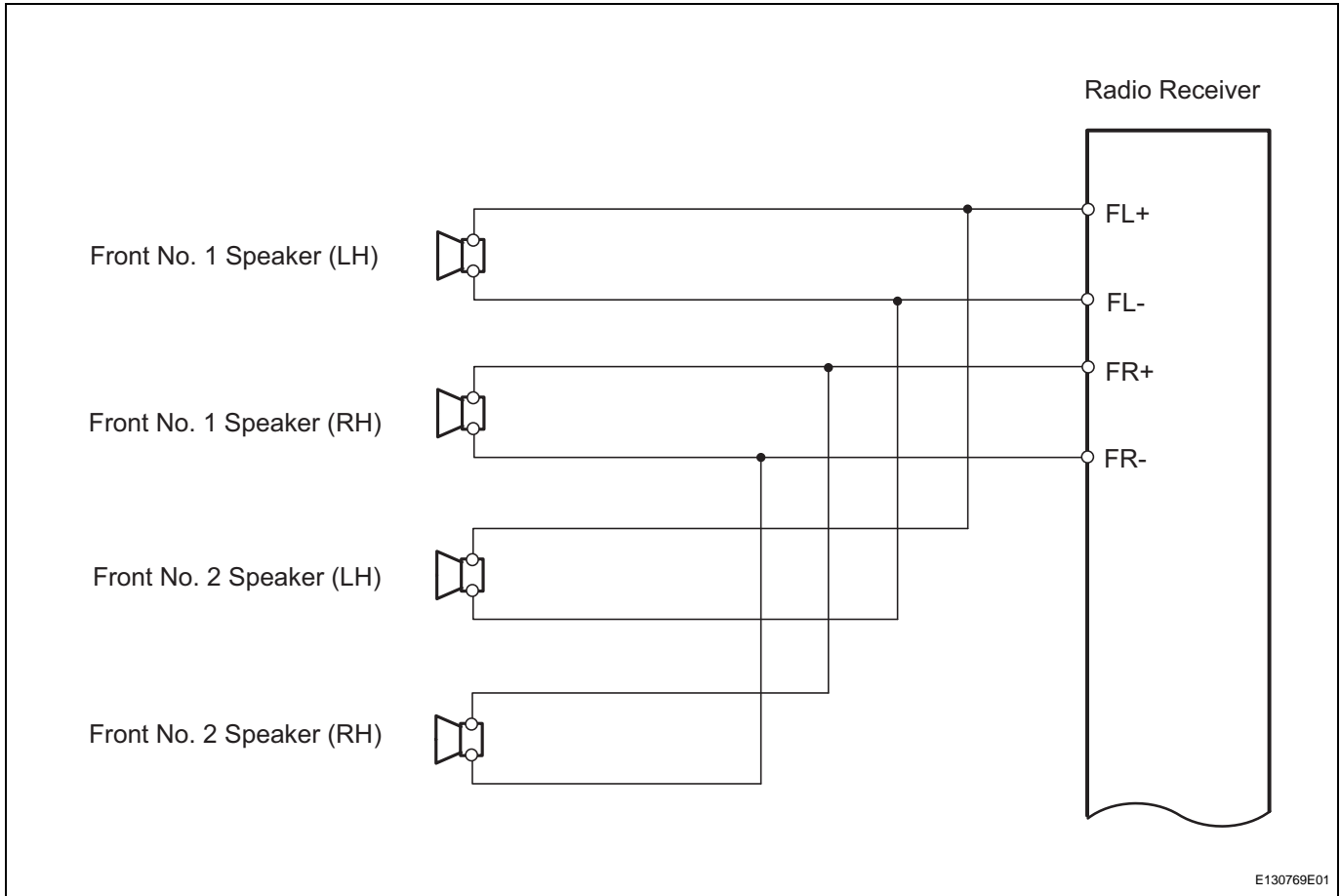


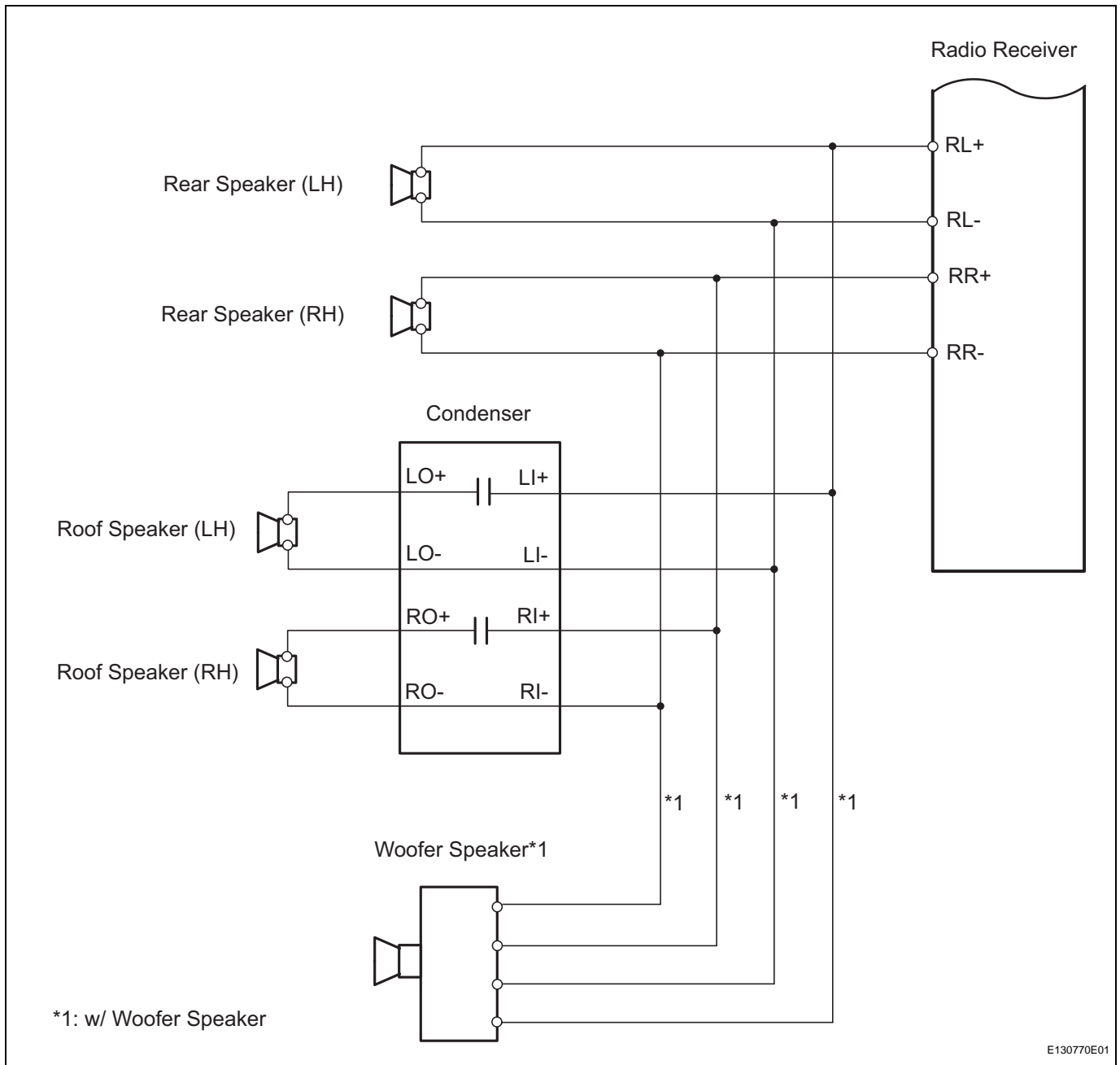
Speaker Circuit

DESCRIPTION

Sound signals that have been amplified by the stereo component amplifier are sent to the speakers from the radio receiver through this circuit. If there is a short in this circuit, the sound cannot be heard from the speakers even though there is no malfunction in the speakers.

WIRING DIAGRAM





AV

INSPECTION PROCEDURE

1	CHECK SPEAKER
----------	----------------------

(a) Check whether sound is emitted from each speaker.

Result

Result	Proceed to
Front No. 1 speakers have problems	A
Front No. 2 speakers have problems	B
Rear speakers have problems	C
Woofer speaker has problems (w/ woofer speaker)	D
Roof speakers have problems	E

- B** → Go to step 4
- C** → Go to step 6
- D** → Go to step 8
- E** → Go to step 10

A

2 INSPECT FRONT NO. 1 SPEAKERS

(a) Check the left and right front No. 1 speakers (See page AV-58).

OK:

Front No. 1 speakers are normal.

NG → REPLACE FRONT NO. 1 SPEAKER

OK

3 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - FRONT NO. 1 SPEAKER)

- (a) Disconnect the E41 receiver connector.
- (b) Disconnect the G4 and H4 front No. 1 speaker connectors.

(c) Measure the resistance.

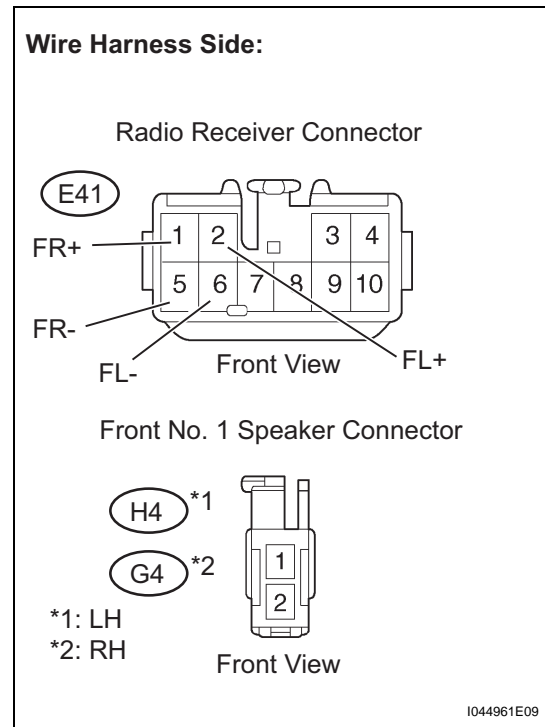
Standard resistance

Tester Connection	Specified Condition
E41-2 (FL+) - H4-1	Below 1 Ω
E41-6 (FL-) - H4-2	Below 1 Ω
E41-2 (FL+) or H4-1 - Body ground	10 kΩ or higher
E41-6 (FL-) or H4-2 - Body ground	10 kΩ or higher
E41-1 (FR+) - G4-1	Below 1 Ω
E41-5 (FR-) - G4-2	Below 1 Ω
E41-1 (FR+) or G4-1 - Body ground	10 kΩ or higher
E41-5 (FR-) or G4-2 - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the front No. 1 speaker connectors.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

AV



OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

4 INSPECT FRONT NO. 2 SPEAKERS

- (a) Check the left and right front No. 2 speakers (See page AV-61).

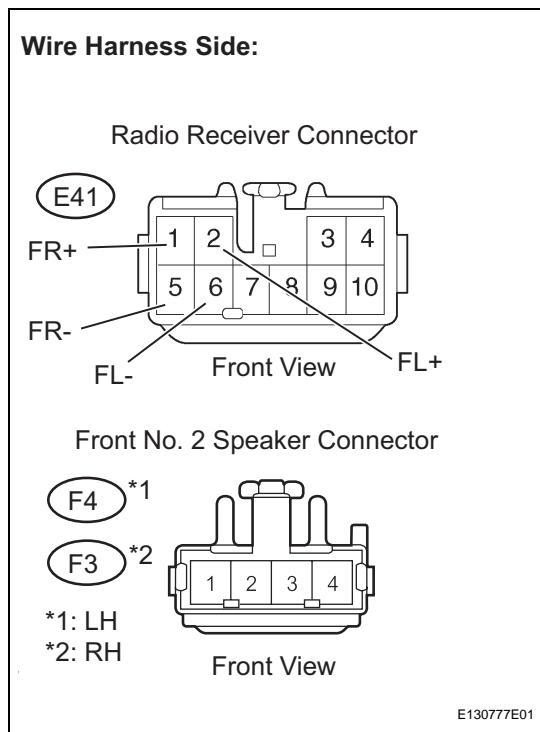
OK:

Front No. 2 speakers are normal.

NG → **REPLACE FRONT NO. 2 SPEAKER**

OK

5 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - FRONT NO. 2 SPEAKER)



- (a) Disconnect the E41 receiver connector.
- (b) Disconnect the F3 and F4 front No. 2 speaker connectors.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E41-2 (FL+) - F4-4	Below 1 Ω
E41-6 (FL-) - F4-3	Below 1 Ω
E41-2 (FL+) or F4-4 - Body ground	10 kΩ or higher
E41-6 (FL-) or F4-3 - Body ground	10 kΩ or higher
E41-1 (FR+) - F3-4	Below 1 Ω
E41-5 (FR-) - F3-3	Below 1 Ω
E41-1 (FR+) or F3-4 - Body ground	10 kΩ or higher
E41-5 (FR-) or F3-3 - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the front No. 2 speaker connectors.

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

6 INSPECT REAR SPEAKERS

- (a) Check the left and right rear speakers (See page AV-69).

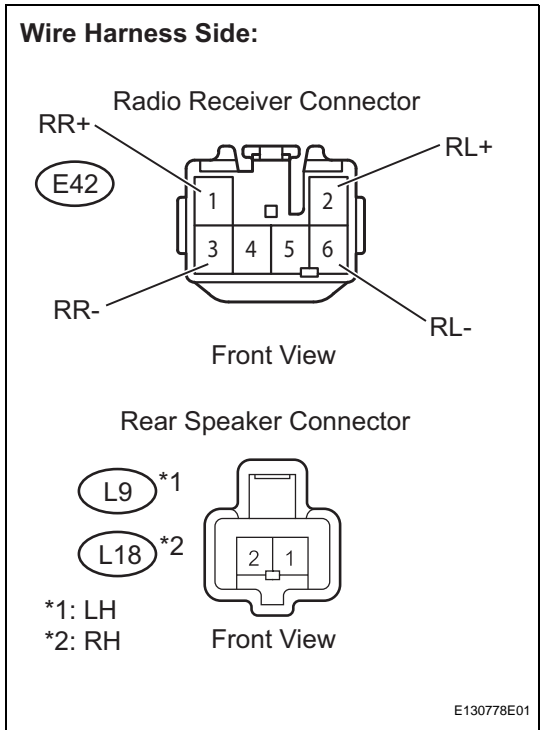
OK:

Rear speakers are normal.

NG → **REPLACE REAR SPEAKER**

OK

7 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - REAR SPEAKER)



- (a) Disconnect the E42 receiver connector.
- (b) Disconnect the L9 and L18 rear speaker connectors.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E42-2 (RL+) - L9-1	Below 1 Ω
E42-6 (RL-) - L9-2	Below 1 Ω
E42-2 (RL+) or L9-1 - Body ground	10 kΩ or higher
E42-6 (RL-) or L9-2 - Body ground	10 kΩ or higher
E42-1 (RR+) - L18-1	Below 1 Ω
E42-3 (RR-) - L18-2	Below 1 Ω
E42-1 (RR+) or L18-1 - Body ground	10 kΩ or higher
E42-3 (RR-) or L18-2 - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the rear speaker connectors.

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

AV **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

8 INSPECT WOOFER SPEAKER

- (a) Check the woofer speaker.

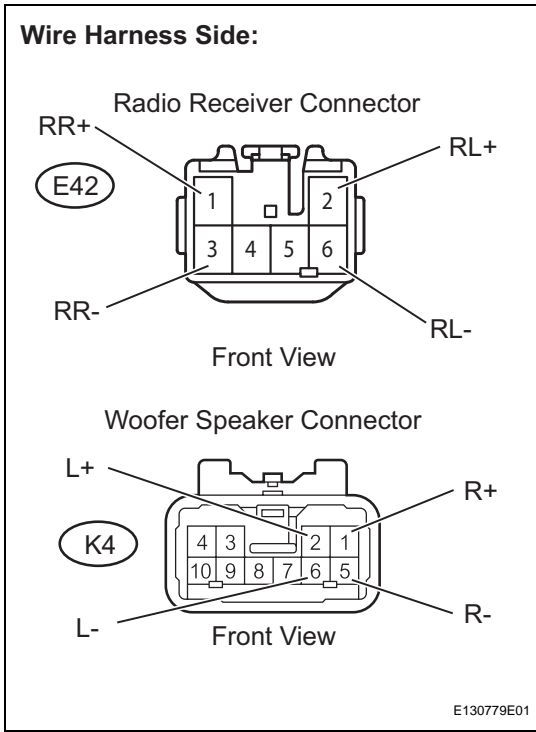
OK:

Woofer speaker is normal.

NG **REPLACE WOOFER SPEAKER**

OK

9 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - WOOFER SPEAKER)



- (a) Disconnect the E42 receiver connector.
- (b) Disconnect the K4 woofer speaker connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E42-2 (RL+) - K4-2 (L+)	Below 1 Ω
E42-6 (RL-) - K4-6 (L-)	Below 1 Ω
E42-2 (RL+) or K4-2 (L+) - Body ground	10 kΩ or higher
E42-6 (RL-) or K4-6 (L-) - Body ground	10 kΩ or higher
E42-1 (RR+) - K4-1 (R+)	Below 1 Ω
E42-3 (RR-) - K4-5 (R-)	Below 1 Ω
E42-1 (RR+) or K4-1 (R+) - Body ground	10 kΩ or higher
E42-3 (RR-) or K4-5 (R-) - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the woofer speaker connector.

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

AV

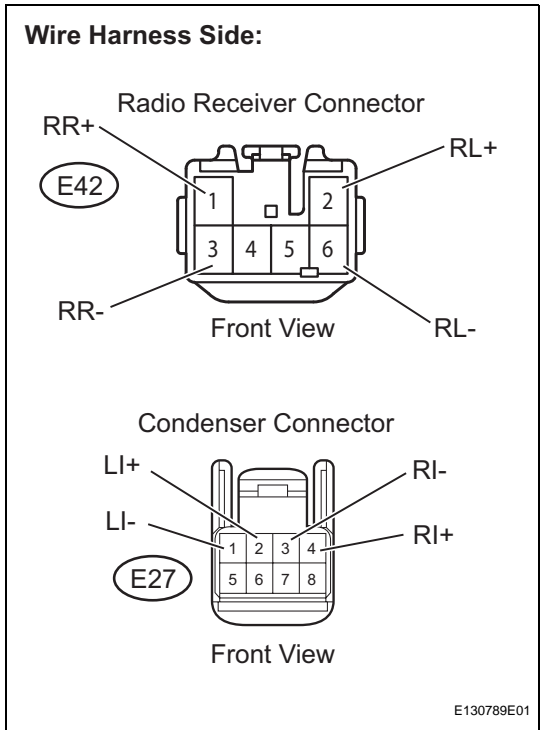
10 INSPECT ROOF SPEAKERS

- (a) Check the left and right roof speakers (See page AV-82).
- OK:**
Roof speakers are normal.

NG **REPLACE ROOF SPEAKER**

OK

11 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - CONDENSER)



- (a) Disconnect the E42 receiver connector.
- (b) Disconnect the E27 condenser connector.
- (c) Measure the resistance.

Standard resistance

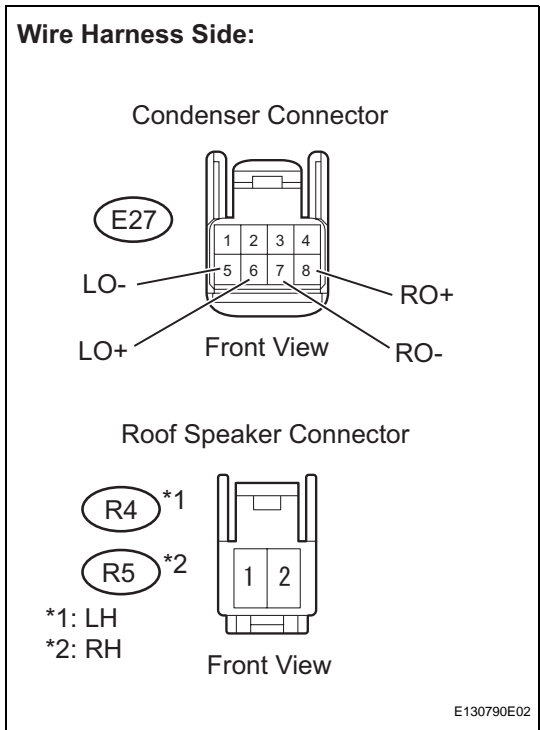
Tester Connection	Specified Condition
E42-2 (RL+) - E27-2 (LI+)	Below 1 Ω
E42-6 (RL-) - E27-1 (LI-)	Below 1 Ω
E42-2 (RL+) or E27-2 (LI+) - Body ground	10 kΩ or higher
E42-6 (RL-) or E27-1 (LI-) - Body ground	10 kΩ or higher
E42-1 (RR+) - E27-4 (RI+)	Below 1 Ω
E42-3 (RR-) - E27-3 (RI-)	Below 1 Ω
E42-1 (RR+) or E27-4 (RI+) - Body ground	10 kΩ or higher
E42-3 (RR-) or E27-3 (RI-) - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the condenser connector.

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

12 CHECK HARNESS AND CONNECTOR (CONDENSER - ROOF SPEAKER)



- (a) Disconnect the E42 receiver connector.
- (b) Disconnect the E27 condenser connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E27-2 (LO+) - R4-1	Below 1 Ω
E27-5 (LO-) - R4-2	Below 1 Ω
E27-2 (LO+) or R4-1 - Body ground	10 kΩ or higher
E27-5 (LO-) or R4-2 - Body ground	10 kΩ or higher
E27-8 (RO+) - R5-1	Below 1 Ω
E27-7 (RO-) - R5-2	Below 1 Ω
E27-8 (RO+) or R5-1 - Body ground	10 kΩ or higher
E27-7 (RO-) or R5-2 - Body ground	10 kΩ or higher

- (d) Reconnect the receiver connector.
- (e) Reconnect the condenser connector.

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

13 REPLACE CONDENSER

- (a) Temporarily replace the condenser with a new or normally functioning one.
- (b) Check that the sound is normal.

OK:

Sound is normal.

NG

END

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE