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Model Year: 2010	Model: Prius	Doc ID: RM0000012CN05MX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Radio Broadcast cannot be Received or Poor Reception (2010 Prius)		

[Radio Broadcast cannot be Received or Poor Reception](#)

INSPECTION PROCEDURE

PROCEDURE

1.	CHECK RADIO RECEIVER ASSEMBLY
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(a) Check the radio automatic station search function.

(1) Check the radio automatic station search function by activating it.

Result:

RESULT	PROCEED TO
Automatic station search function stops on a station	A
Automatic station search function does not stop	B

B ▶ **CHECK OPTIONAL COMPONENTS**

A ▶ **REPLACE RADIO RECEIVER ASSEMBLY**

2.	CHECK OPTIONAL COMPONENTS
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(a) Check optional components (sunshade film, telephone antenna, etc.).

(1) Check if any optional components that may decrease reception capacity, such as sunshade film or a telephone antenna, are installed.

Result:

RESULT	PROCEED TO
Optional components are installed	A
Optional components are not installed	B

NOTICE:

Do not remove optional components without the permission of the customer.

B ▶ CHECK RADIO ANTENNA

A ▶ REMOVE OPTIONAL COMPONENTS AND CHECK AGAIN (SEE NOTICE ABOVE)

3.	CHECK RADIO ANTENNA
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(a) Preparation for check

(1) Remove the roof antenna pole sub-assembly from the amplifier antenna assembly.

(b) Check for noise.

(1) Turn the power switch on (ACC) with the radio receiver assembly connector connected.

(2) Turn the radio on and tune into AM mode.

(3) Place a screwdriver, thin wire, or other metal object on the amplifier antenna threaded installation portion for the roof antenna pole sub-assembly and check that noise can be heard from the speakers.

Result:

RESULT	PROCEED TO
Noise does not occur	A
Noise occurs	B

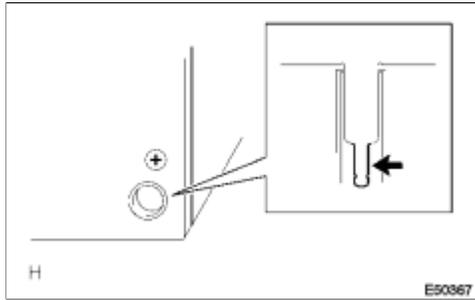
B ▶ REPLACE RADIO RECEIVER ASSEMBLY

A ▼

4.	CHECK RADIO RECEIVER ASSEMBLY
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(a) Preparation for check

(1) Remove the antenna plug from the radio receiver assembly.



(b) Check for noise.

- (1) Turn the power switch on (ACC) with the radio receiver assembly connector connected.
- (2) Turn the radio on and tune into AM mode.
- (3) Place a screwdriver, thin wire or other metal object on the radio receiver assembly antenna jack and check that noise can be heard from the speakers.

OK:

Noise can be heard from the speakers.

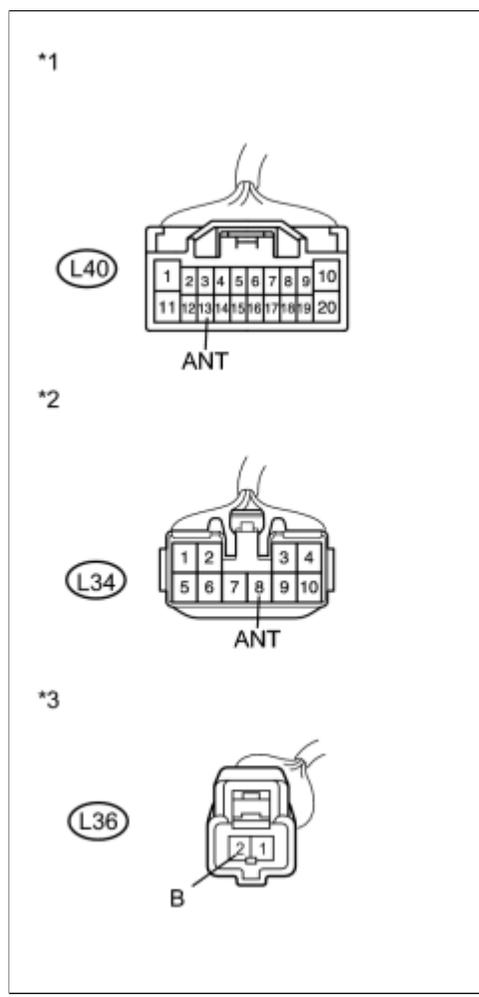
NG  **REPLACE RADIO RECEIVER ASSEMBLY**

OK



5.	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER ASSEMBLY - AMPLIFIER ANTENNA ASSEMBLY)
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- (a) Disconnect the radio receiver assembly and amplifier antenna assembly connectors.



(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

for 8 Speakers

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L40-13 (ANT) - L36-2 (B)	Always	Below 1 Ω
L40-13 (ANT) - Body ground	Always	10 kΩ or higher

except for 8 Speakers

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L34-8 (ANT) -L36-2 (B)	Always	Below 1 Ω
L34-8 (ANT) - Body ground	Always	10 kΩ or higher

Text in Illustration

*1	Front view of wire harness connector (to Radio Receiver Assembly*4)
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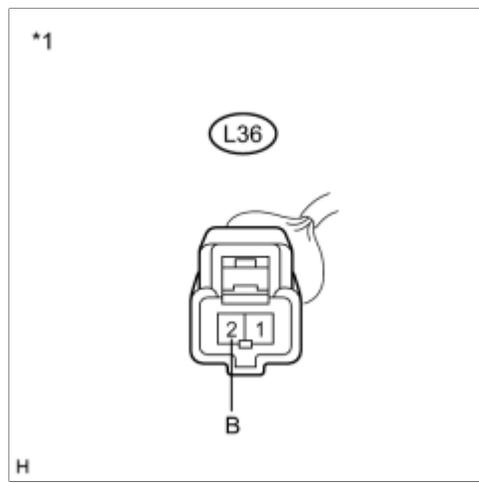
*2	Front view of wire harness connector (to Radio Receiver Assembly*5)
*3	Front view of wire harness connector (to Amplifier Antenna Assembly)

*4: for 8 Speakers
 *5: except for 8 Speakers

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


6. INSPECT RADIO RECEIVER ASSEMBLY



(a) Reconnect the radio receiver assembly connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L36-2 (B) - Body ground	Power switch on (IG) Radio switch on	8 V or higher

Text in Illustration

*1	Front view of wire harness connector (to Amplifier Antenna Assembly)
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NG  **REPLACE RADIO RECEIVER ASSEMBLY**

OK
▼

7.	CHECK ANTENNA CORD
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(a) Remove the antenna plug of the radio receiver assembly and antenna.

(b) Measure the resistance between the antenna and radio receiver assembly to check for an open circuit in the antenna cord.

Standard Resistance:
Below 1 Ω

(c) Measure the resistance between the antenna cord and body ground to check for a short circuit in the antenna cord.

Standard Resistance:
10 kΩ or higher

NG ► **REPLACE ANTENNA CORD**

OK
▼

8.	REPLACE AMPLIFIER ANTENNA ASSEMBLY
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(a) Replace the amplifier antenna assembly and check if radio broadcasts can be received normally.



OK:
Radio broadcasts can be received.

NG ► **REPLACE RADIO RECEIVER ASSEMBLY**

OK ► **NORMAL OPERATION**

