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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:

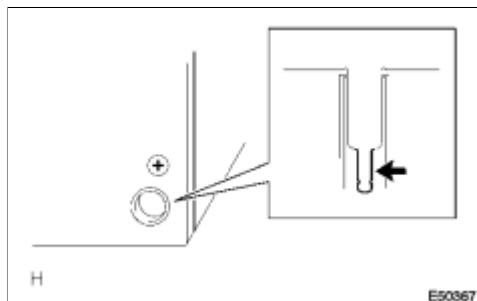
RESULT	PROCEED TO
Noise does not occur	A
Noise occurs	B

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.

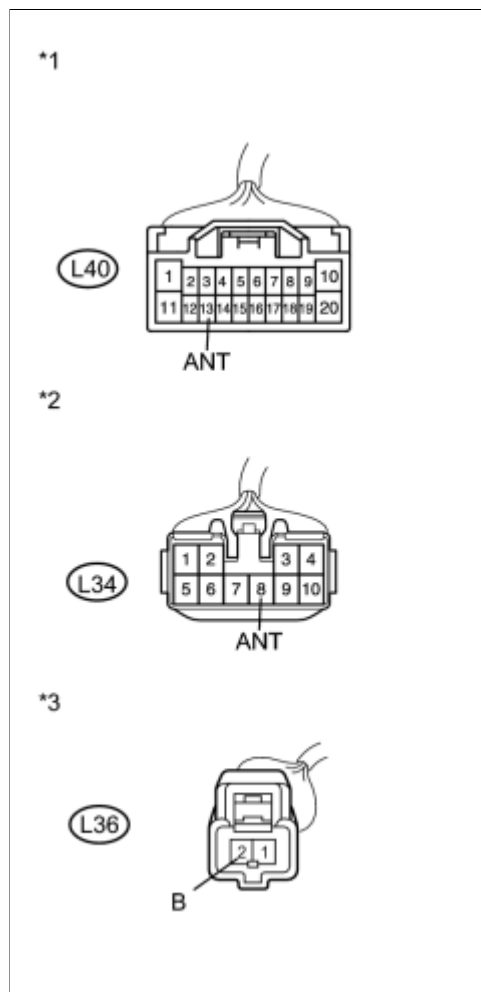
NG  **REPLACE RADIO RECEIVER ASSEMBLY**

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 k Ω 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 k Ω 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

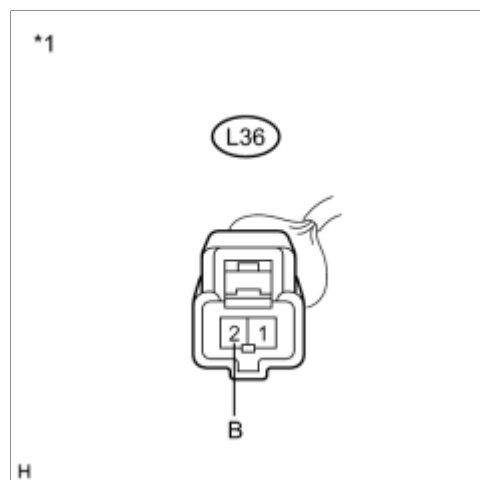
*5: except for 8 Speakers

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



6.	INSPECT RADIO RECEIVER ASSEMBLY
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(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**

- (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 k Ω or higher

NG **REPLACE ANTENNA CORD****OK****8. REPLACE AMPLIFIER ANTENNA ASSEMBLY**

- (a) Replace the amplifier antenna assembly and check if radio broadcasts can be received normally.

INFO

OK:
Radio broadcasts can be received.

NG **REPLACE RADIO RECEIVER ASSEMBLY****OK** **NORMAL OPERATION**