Component Procedures: Antenna

Table of Contents

Component Procedures: Antenna

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Antenna & Radio > Antenna	96210F2010MJB	Without Navigation	289.79	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F2500NKA	Korea Built	400.00	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F3500S3B	Us Built	327.85	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F2150S3B	With Traffic Management	400.00	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F2100MJB	Without Traffic Manage?	327.85	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F2700WAW	Korea Built	234.66	Order By Vehicle Applicati?
Antenna & Radio > Antenna > ?	96210F3700S3B	Us Built	276.79	Order By Vehicle Applicati?

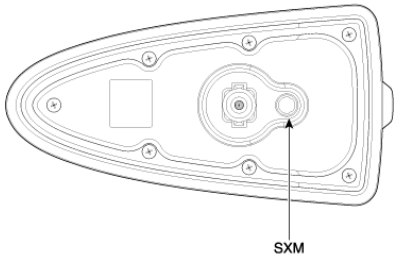
Labor

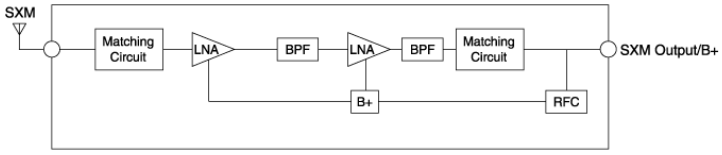
Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Antenna & Radio > Antenna Cable, R&R	B	3.5	0.0

AVN Antenna - Components and Components Location (Article 44760)

- Components

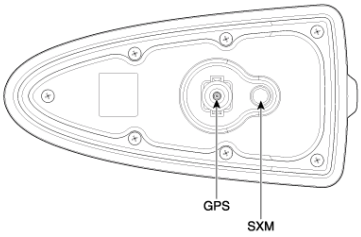
[SXM]

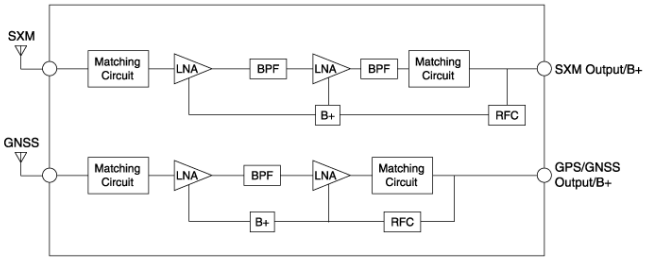




※ LNA (Low Noise Amplifier)
BPF (Band Pass Filter)
RFC (Radio Frequency Choke)

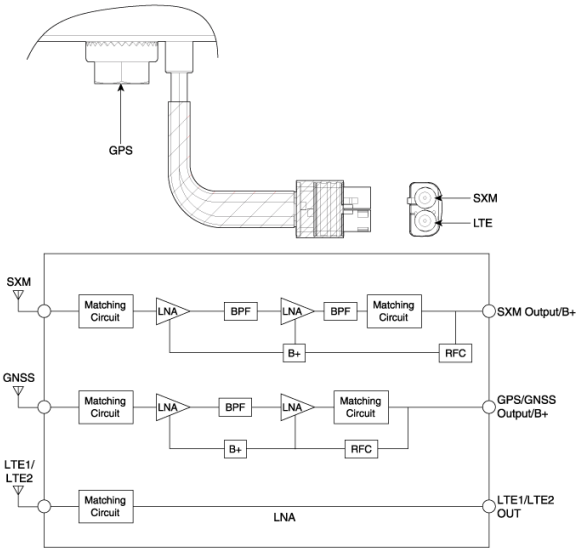
[SXM + GPS]





※ LNA (Low Noise Amplifier)
BPF (Band Pass Filter)
RFC (Radio Frequency Choke)

[SXM + GPS + LTE]



※ LNA (Low Noise Amplifier)
BPF (Band Pass Filter)
RFC (Radio Frequency Choke)

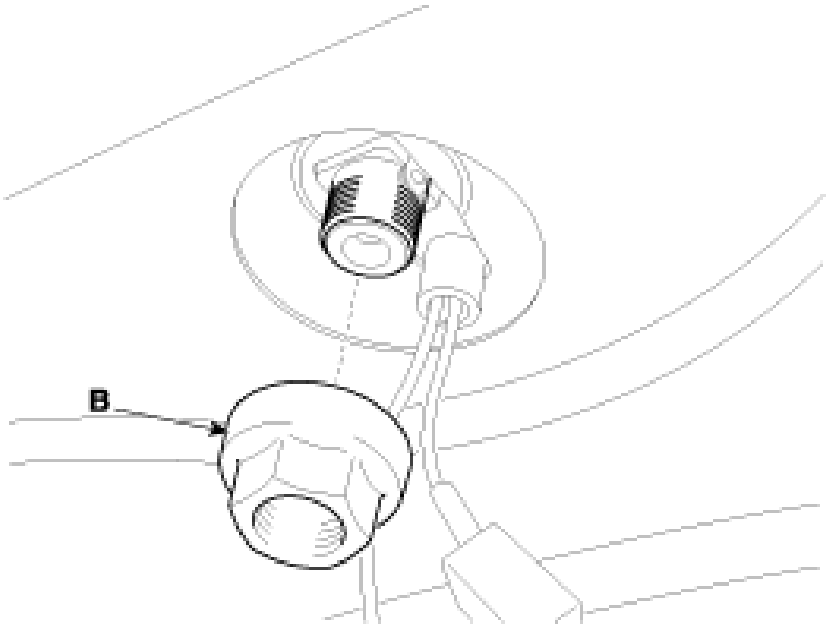
AVN Antenna - Repair Procedures (Article 44761)

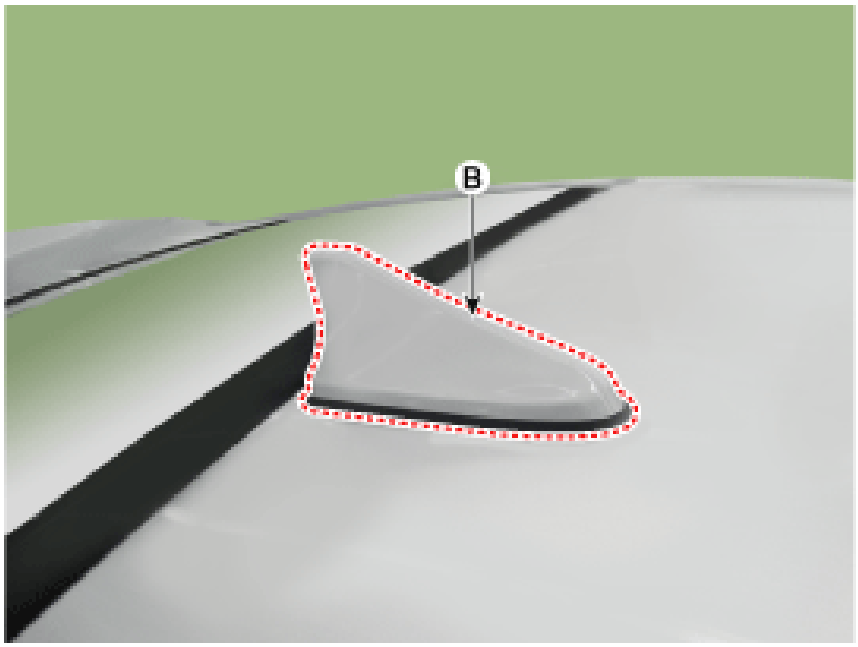
- Removal

Roof Antenna

- Disconnect the negative (-) battery terminal.
- Remove the roof trim.
- Disconnect the roof antenna connector (A).

- Remove the roof antenna (A) after loosening a nut (B).





- Installation

Roof Anenna

- Connect the roof antenna connectors.
- Install the roof trim assembly. Make sure that the cables and connectors are plugged in properly. Check the audio system .

Make sure that the cables and connectors are plugged in properly. Check the audio system .

NOTICE

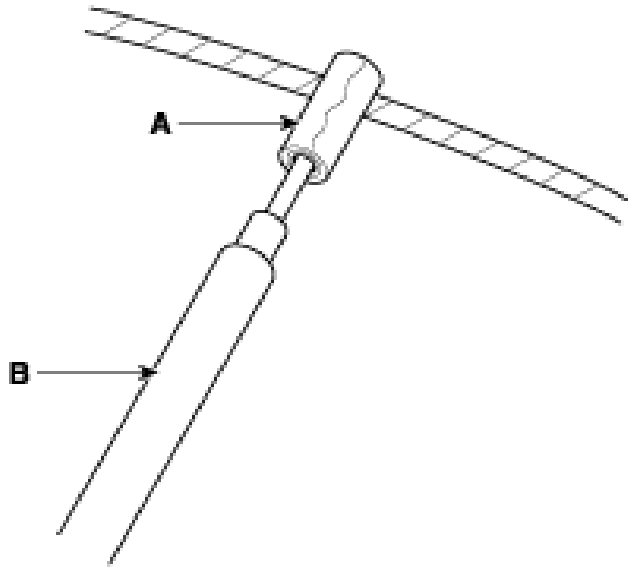
- Make sure that the cables and connectors are plugged in properly.
- Check the audio system .

Antenna - Repair Procedures (Audio) (Article 44739)

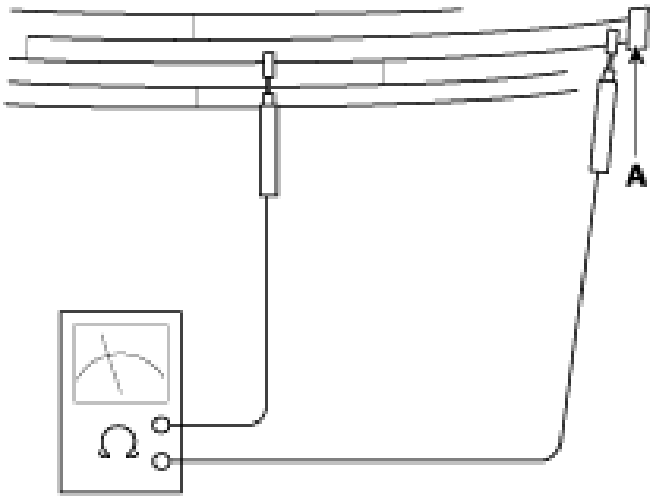
- Inspection

Glass Antenna Test

- Wrap aluminum foil (A) around the tip of the tester probe (B) as shown.



- Touch one tester probe to the glass antenna terminal (A) and move the other tester probe along the antenna wires to check that continuity exists.

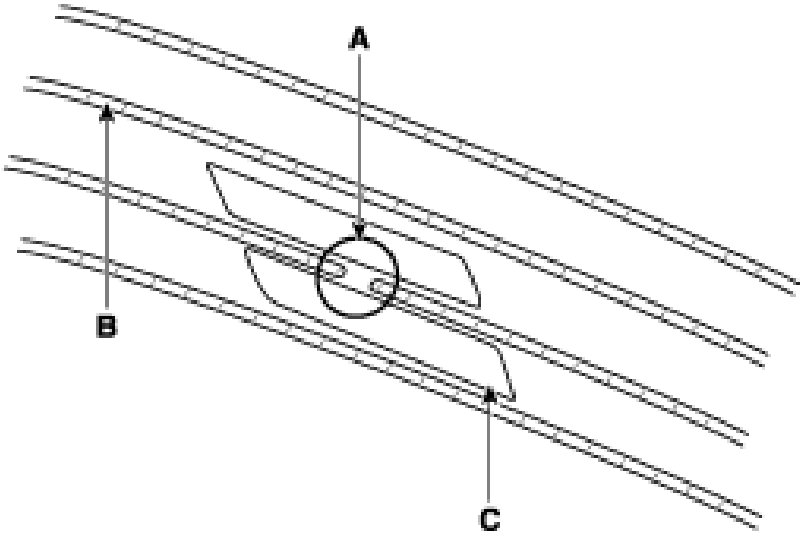


Glass Antenna Repair

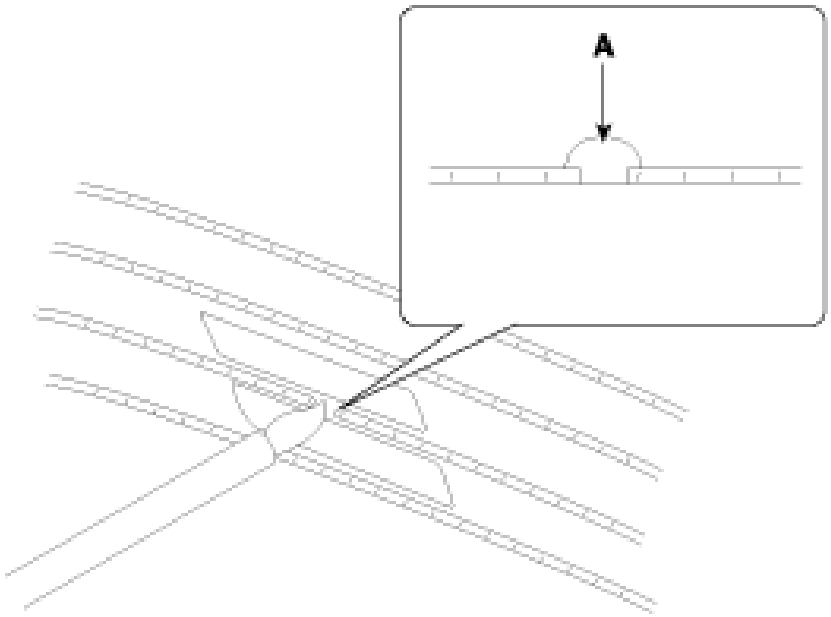
To make an effective repair, the broken section must be no longer than one inch.

NOTICE

- To make an effective repair, the broken section must be no longer than one inch.
- Lightly rub the area around the broken section (A) with fine steel wool, and then clean it with alcohol.



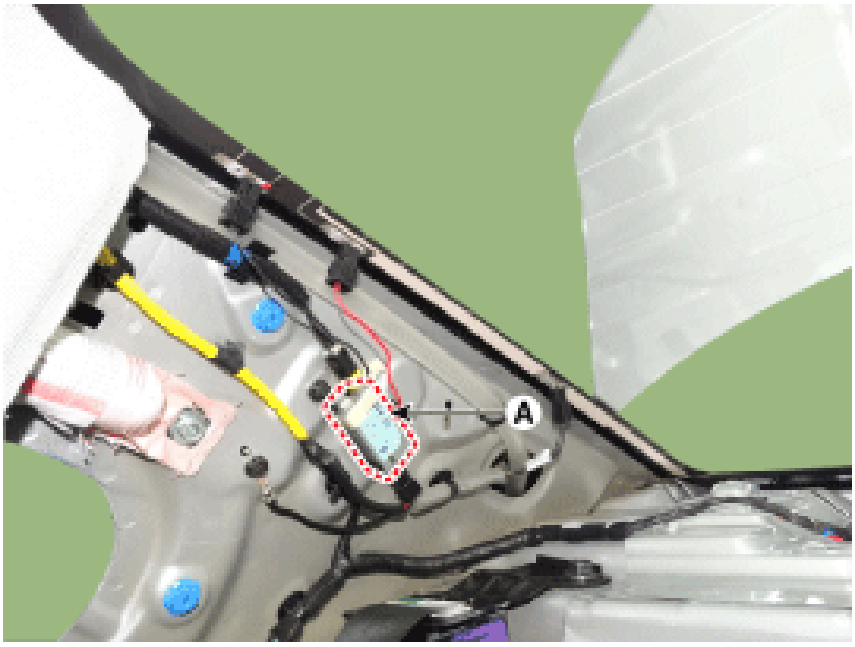
- Carefully mask above and below the broken portion of the glass antenna wire (B) with cellophane tape (C).
- Using a small brush, apply a heavy coat of silver conductive paint (A) extending about 1/8″on both sides of the break. Allow 30 minutes to dry. Thoroughly mix the paint before use.
Thoroughly mix the paint before use.
- Thoroughly mix the paint before use.



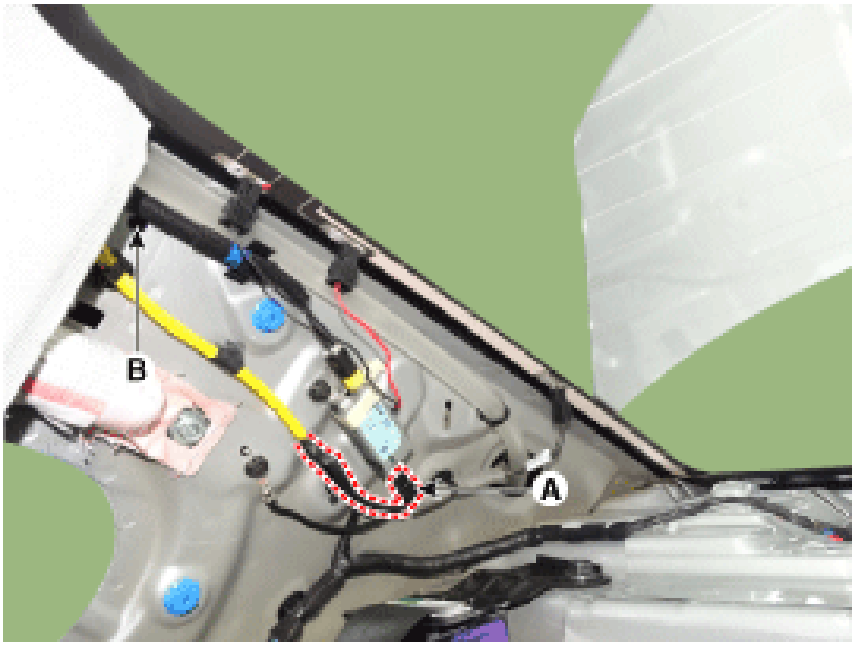
- Check for continuity in the repaired wire.
- Apply a second coat of paint in the same way. Let it dry three hours before removing the tape.

Glass Antenna Circuit Inspection

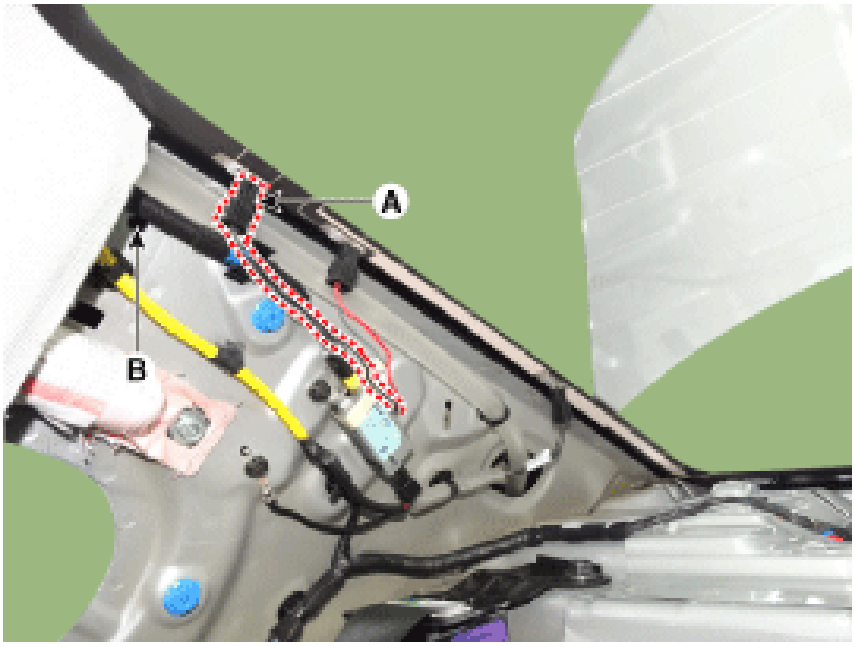
- Remove the rear pillar trim. (Refer to Body - "Rear Pillar Trim")
- Disconnect the antenna amp power connector from the glass antenna amp (A).



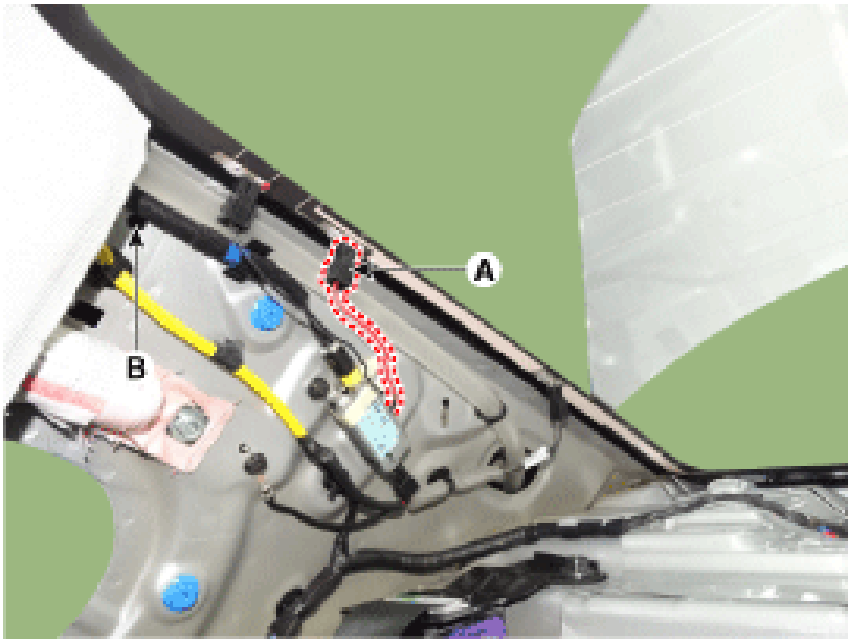
- Turn the radio ON. Measure the voltage between terminals of the antenna amp power connector (A) and body ground (B). OK : approximately 12V (ACC+)



- Check for radio antenna wire resistance between terminals of the antenna connector (A) and body ground (B). AM antenna (RH side rear pillar) Standard value : 125 kΩ - 165 kΩ Short : Approx. 0Ω Open : ∞ Ω FM1/FM2 antenna (RH side rear pillar) Standard value : 80 kΩ - 120 kΩ Short : Approx. 0Ω Open : ∞ Ω
- AM antenna (RH side rear pillar) Standard value : 125 kΩ - 165 kΩ Short : Approx. 0Ω Open : ∞ Ω



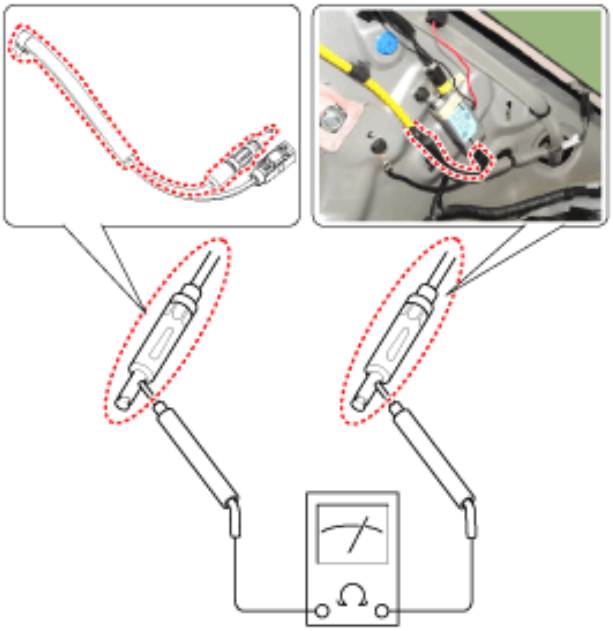
- FM1/FM2 antenna (RH side rear pillar) Standard value : 80 kΩ - 120 kΩ Short : Approx. 0Ω Open : ∞ Ω



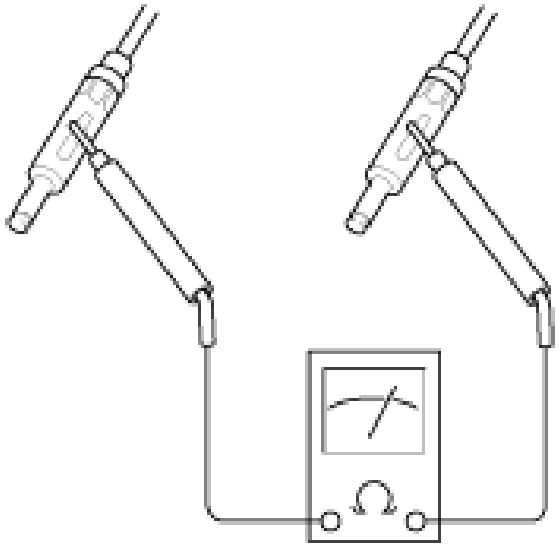
- Check the grid lines for continuity.
- When a poor radio reception is not repaired through the above inspection methods, replace the amp. If the radio reception is still poor, check the radio cable for short and radio head unit for failure.

Antenna Cable

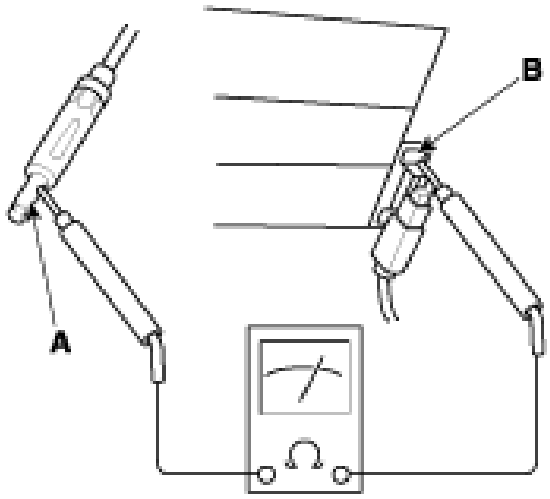
- Check for continuity between the center poles of antenna cable.



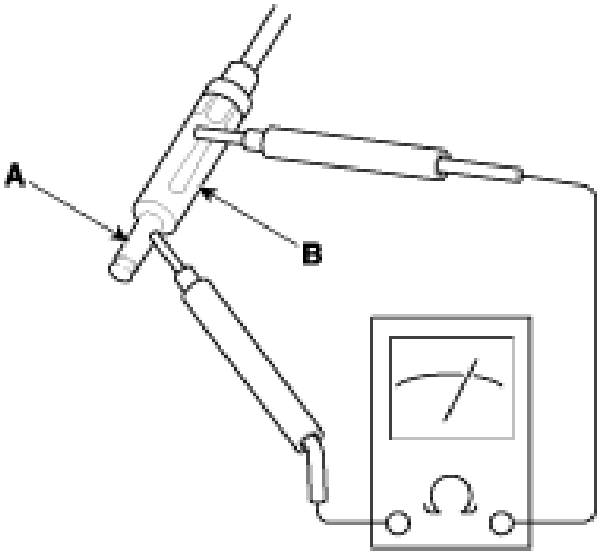
- Check for continuity between the outer poles of antenna cable. There should be continuity.



- If there is no continuity, replace the antenna cable.
- Check for continuity between the center pole (A) of antenna cable and terminal of glass antenna (B). There should be continuity.



- If there is no continuity, replace the antenna amplifier.
- Check for continuity between the center pole (A) and outer pole (B) of antenna cable. There should be no continuity.



- If there is continuity, replace the antenna cable.