

Subject: POOR AUXILIARY (AUX) JACK SOUND	Bulletin No: 09-030/10
	Last Issued: 06/23/2010

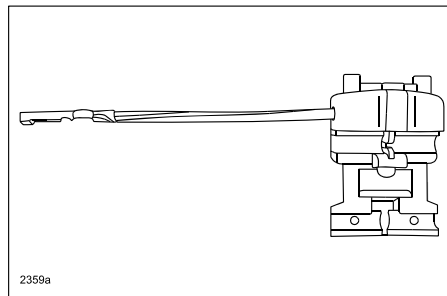
APPLICABLE MODEL(S)/VINS

2010 RX-8 with accessory satellite radio (NOT factory installed)

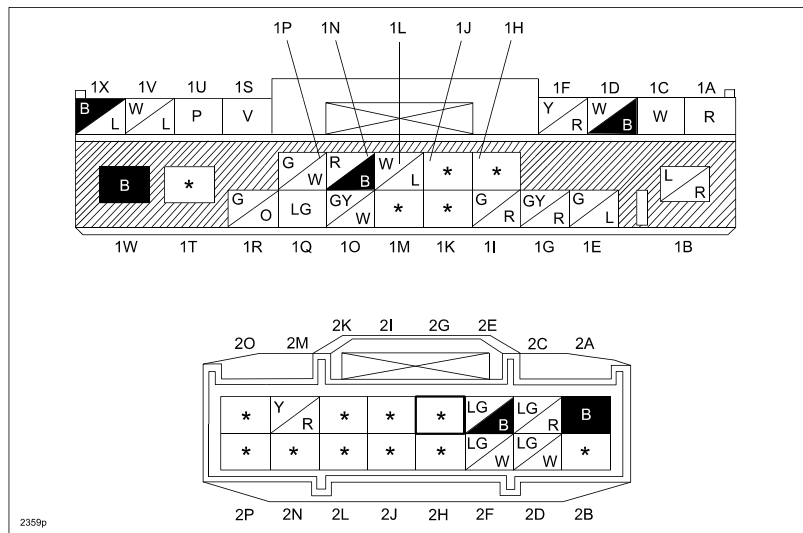
DESCRIPTION

Some vehicles with the accessory satellite radio might experience poor sound from the auxiliary jack. This is caused by a poor ground. To fix the problem, a signal ground wire will be added to an unpopulated cavity, providing a ground path for the accessory harness. This will be done using a 70 mm terminal ended wire placed into terminal 2G of connector 0920-201 (Audio Unit/Audio Unit Illumination), and connected to either LG/W ground wire (terminal 2F or 2D) of the same connector with an IDC.

70 mm terminal ended wire with IDC



Connector 0920-201 (Audio Unit/Audio Unit Illumination)

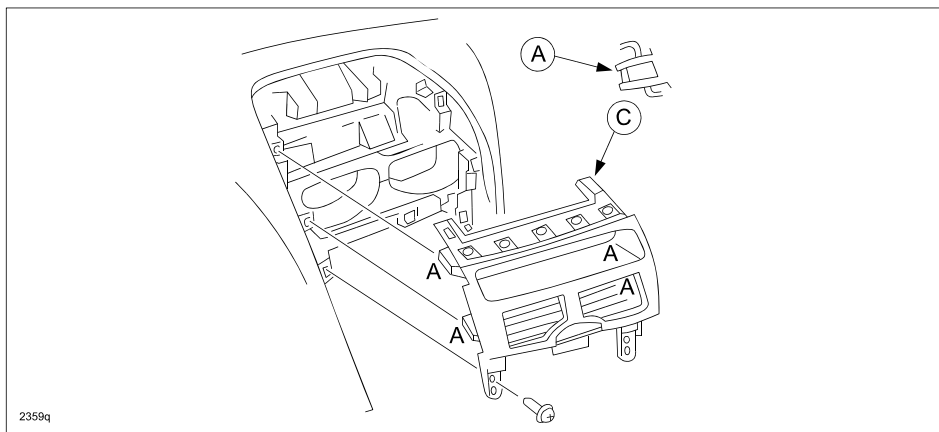


Customers having this concern should have their vehicle repaired using the following repair procedure.

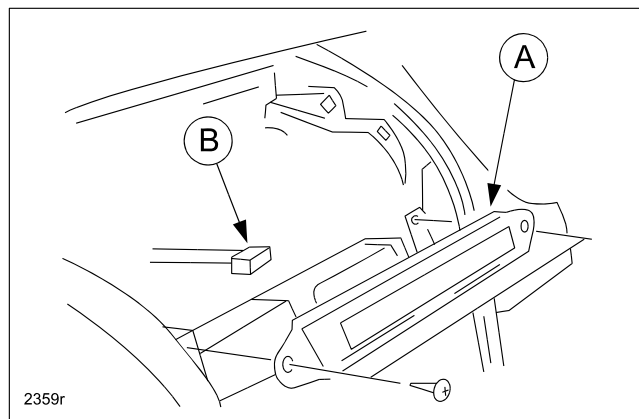
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REPAIR PROCEDURE

1. Verify customer concern.
2. Remove the center panel unit. Refer to MS3 online instructions or Workshop Manual section 09-20 CENTER PANEL UNIT REMOVAL/INSTALLATION.
3. Remove the speaker grille. Refer to MS3 online instructions or Workshop Manual section 09-17 SPEAKER GRILLE REMOVAL/INSTALLATION.
4. Remove the center panel vent (C) by removing the two screws, then pull the panel outward to disengage tabs A and disconnect the hazard switch connector.

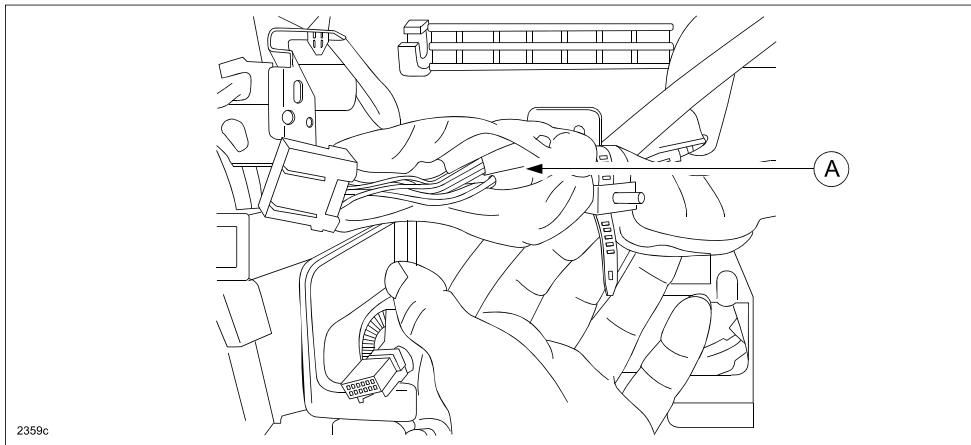


5. Remove the information display (A) by removing the two screws, then pull the display outward and disconnect the connector (B).

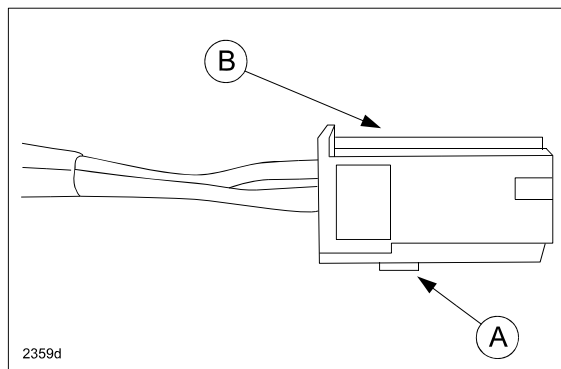


6. Locate the factory 16-pin connector and harness inserted into the accessory T-harness, then disconnect the factory harness from the accessory satellite harness at the T-connection.

7. Very carefully expose approximately 2 inches of the factory harness (A) to provide room for the repair.

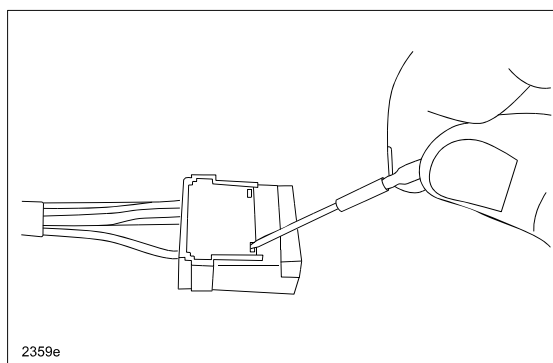


8. Gently pry up the secondary lock on the factory connector approximately 1 mm to prepare the connector to accept the terminal end of the signal ground jumper.
- a. Identify connector lock side (A) and secondary lock side (B). Secondary lock side is smooth and on the opposite side of the primary connector lock side.

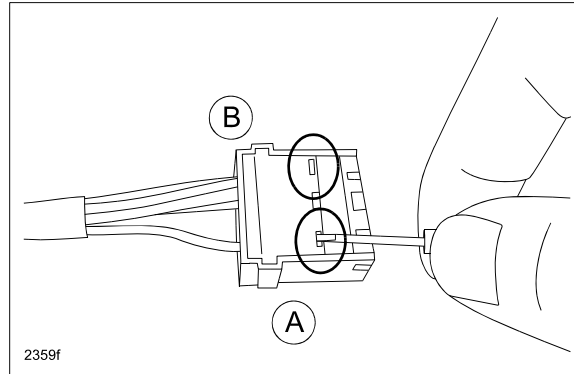


- b. Carefully insert small flat screw driver or pick tool in release points and gently lift.

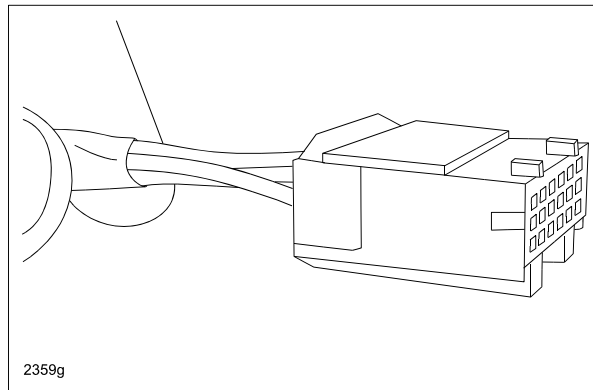
NOTE: secondary lock will only lift approximately 1 mm - lock will not come completely free from connector. See c and d for more details on secondary lock.



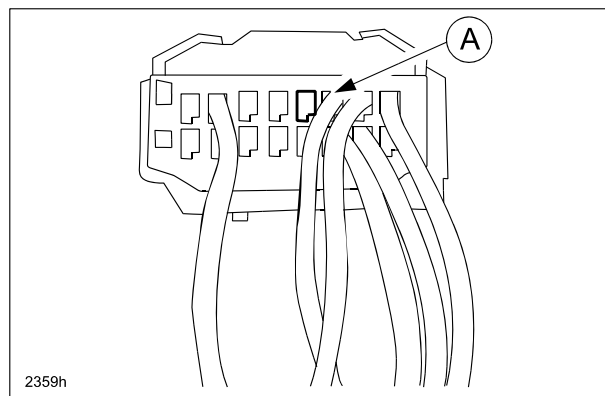
- c. Secondary lock will release easier by applying equal releasing pressure on both sides of the connector (identified as A and B).



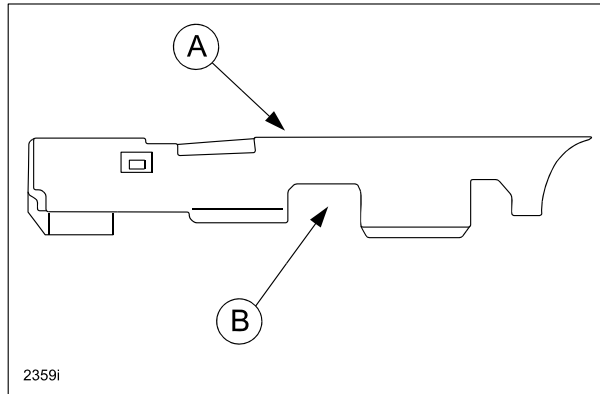
- d. Lock should be approximately 1 mm higher than connector when released enough to accept the terminal end.



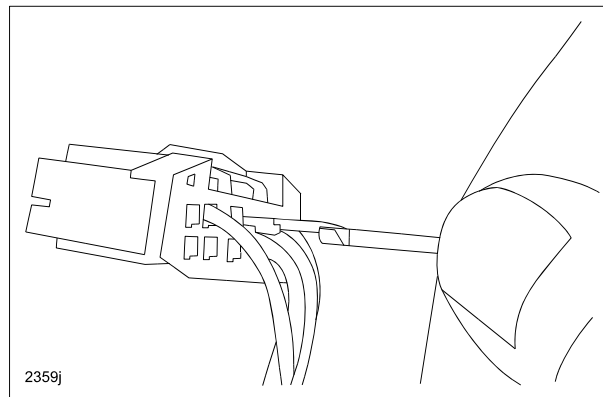
- 9. Populate the 16 pin factory connector with the terminal end of the signal ground jumper wire in vacant cavity "2G".
 - a. Locate the vacant cavity "2G." It is the 4th position from the right (A) with the connector lock up, next to the third wire which should be light green with a black stripe.



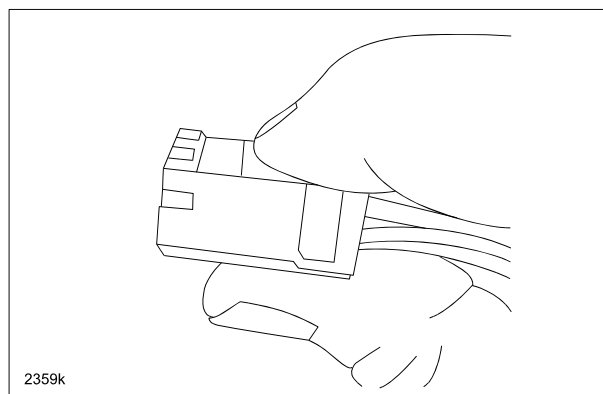
NOTE: The flat side of the terminal (A) should be up towards the connector lock, and the notched side (B) down towards the bottom row of wires.



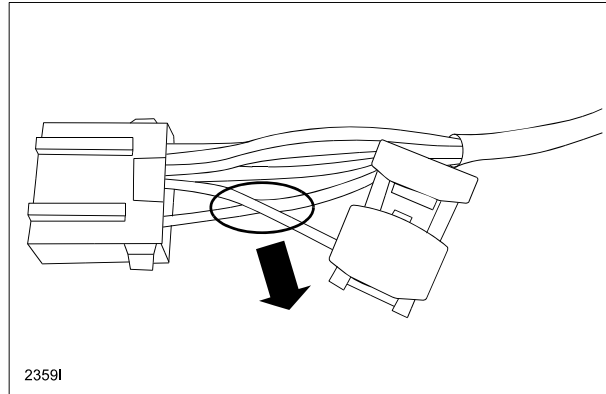
- b. Insert the single ground jumper wire in the connector with the flat side of the terminal up towards the connector lock, and the notched side down until fully seated. You should feel and hear the terminal seat in the connector.



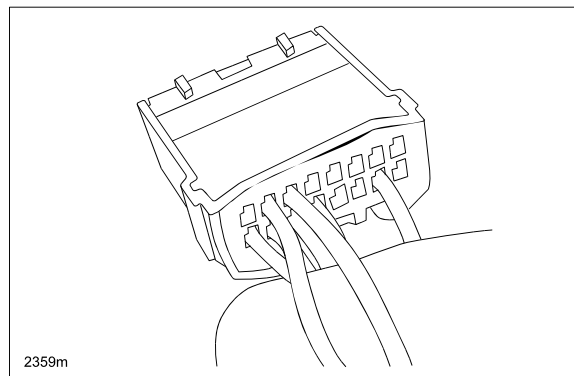
NOTE: If inserted properly, you will be able to return the secondary lock with your finger tips and feel the lock engage the terminals in the connector.



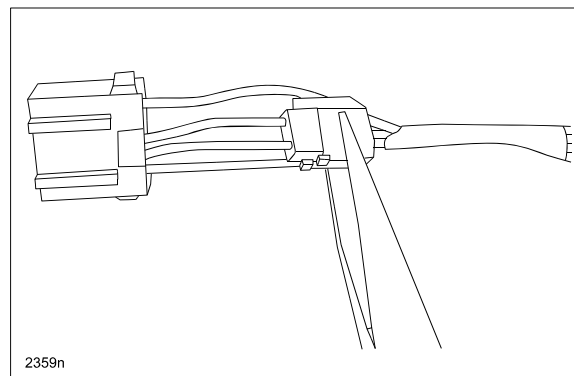
10. Confirm engagement of the single ground jumper wire by gently tugging the wire to ensure lock was complete, then attach the IDC to factory ground wire.
- If wire comes loose from a gentle tug, repeat steps 8 and 9.



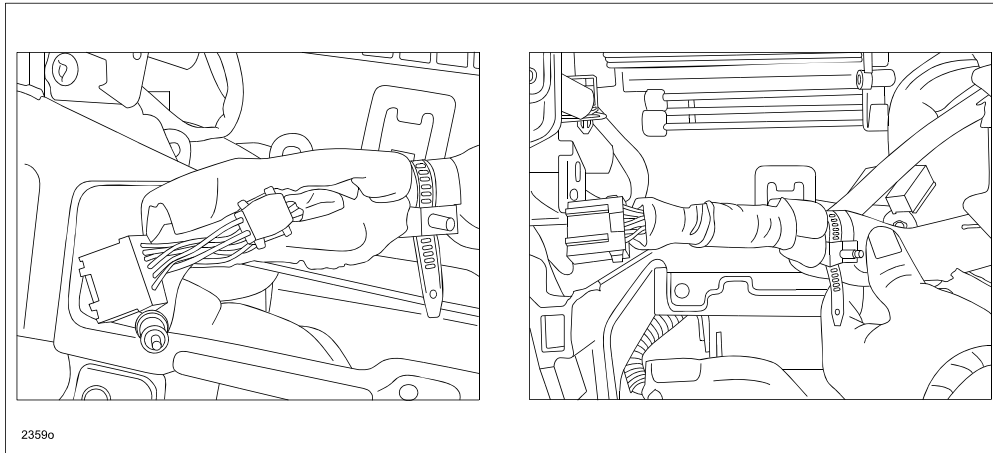
- Turn connector over and locate the ground wires. The ground wires will be light green with a white stripe. Either wire will supply the ground signal.



- Connect the jumper wire to one of the factory ground wires with the IDC.



11. Close the harness with electrical tape to prevent rattle or damage to the updated harness.



12. Verify repair.

PART(S) INFORMATION

Part Number	Description	Qty.
0000-81-K10	70 mm terminal ended wire with IDC	1

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	56
Damage Code	9V
Part Number Main Cause	0000-81-K10
Quantity	1
Operation Number / Labor Hours:	YY666XRX / 0.7 hrs