



Poor DAB Reception

Classification	Repair Bulletin	Section/Group	21 - Infotainment	Country/Region	Europe
Year	2013-2014	Model	Model S	Version	Premium Audio

Bulletin Classification: *This repair bulletin provides instructions and guidelines for a noted condition or a customer concern. The information provided can address a broad range of known or perceived issues with the operation of Tesla vehicles. This bulletin might not be VIN-specific. These instructions assume knowledge of motor vehicle and high voltage electricity repairs, and should only be executed by trained professionals. Tesla Motors assumes no liability for injury or property damage due to a failure to properly follow these instructions or repairs attempted by unqualified individuals.*

This Service Bulletin supersedes SB-14-21-004, dated 22-Apr-14. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Condition

During normal vehicle operation, some Model S components might produce electrical noise that interferes with DAB radio reception.

Correction

Install ferrite beads onto wires near the EPB module, defroster, and charge port.

NOTE: This procedure is for poor DAB reception. For DAB static, refer to SB-14-21-003, DAB Radio Static.

Required Part(s):	Part Number	Description	Quantity
	1038765-00-A	TESA ELECTRICAL TAPE	1
	1041667-00-A	URETHANE FOAM TAPE 1 ROLL 25.4MM X 0.9 M	1
		NOTE: One roll contains enough tape for over 10 vehicles	
	1038709-00-A	61 ROUND CABLE CORE ASSM - FERRITE LARGE	1
	1038706-00-A	61 ROUND CABLE CORE ASSM – FERRITE	5
	1039480-00-A	STD CABLE TIE - 5.8"	2

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.

Correction Description	Correction	Time
Vehicle Inspection Only; Ferrite Beads Not Required	S011421001	0.4
Install 6 Ferrite Beads To Improve DAB Reception	S021421001	0.9

Procedure

1. Remove the RH rear trunk trim panel (refer to Service Manual procedure 15245102).
2. Remove the tape from the lower electronic parking brake (EPB) harness (Figure 1).



Figure 1

3. On the lower EPB harness, wrap the 2 CAN wires together with cloth tape (Figures 2 and 3):
 - Dark Green/White wire in cavity 3
 - Dark Green wire in cavity 13

NOTE: Ensure that the cloth tape extends from the main harness all the way to the connector.

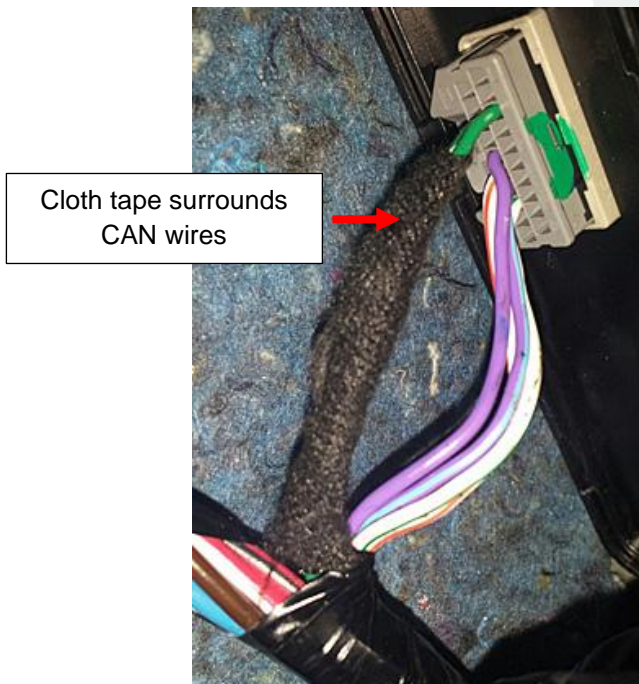


Figure 2

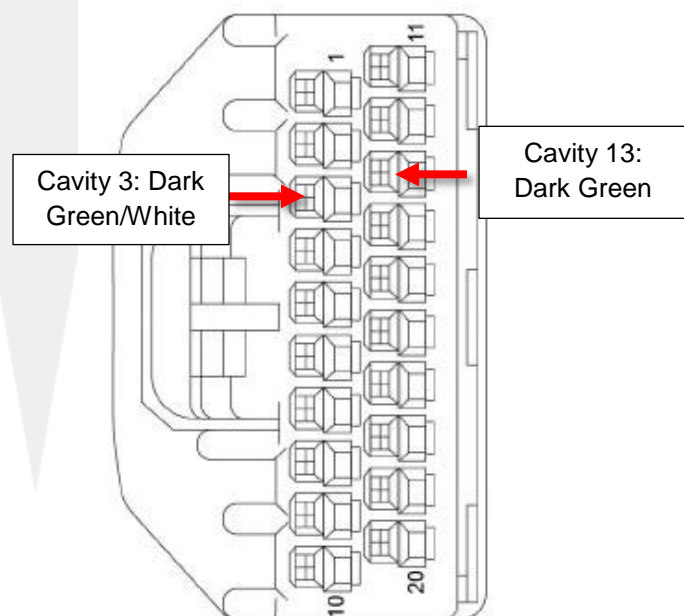


Figure 3

4. Install a small ferrite bead onto the wrapped CAN wires, as close to the connector as possible. (Figure 4).

⚠ CAUTION: Only clip the ferrite bead to the area that is covered in cloth tape.



Figure 4

5. Wrap foam tape around the outside of the ferrite clamp.

NOTE: This prevents the clamp from rattling against other surfaces in the vehicle.

6. Remove the liftgate RH liftgate trim panel (refer to Service Manual procedure 15111702).

7. Starting from the glass side of the wire, wrap cloth tape around approximately 2 in (51 mm) of the defrost wire (Figure 5).



Figure 5

- Clip a small ferrite bead onto the covered section of the defrost wire, as close to the harness connector as possible. (Figure 6).

⚠ CAUTION: Only clip the ferrite bead to the area that is covered in cloth tape.

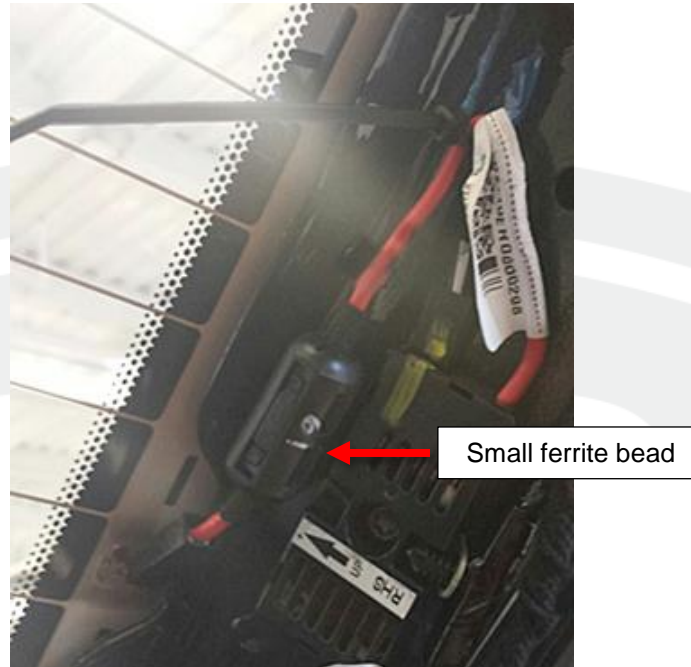


Figure 6

- Wrap foam tape around the outside of the ferrite clamp (Figure 7).

NOTE: This prevents the clamp from rattling against other surfaces in the vehicle.



Figure 7

10. Remove the LH rear trunk trim panel (refer to Service Manual procedure 15245102).
11. Release the clip that secures the wires that lead to the interior trunk light (Figure 8). Wrap foam tape around the clip and around the entire length of the wires. Do not resecure the clip to the body.



Figure 8

12. Wrap cloth tape around the harnesses near the charge port as shown (Figure 9).

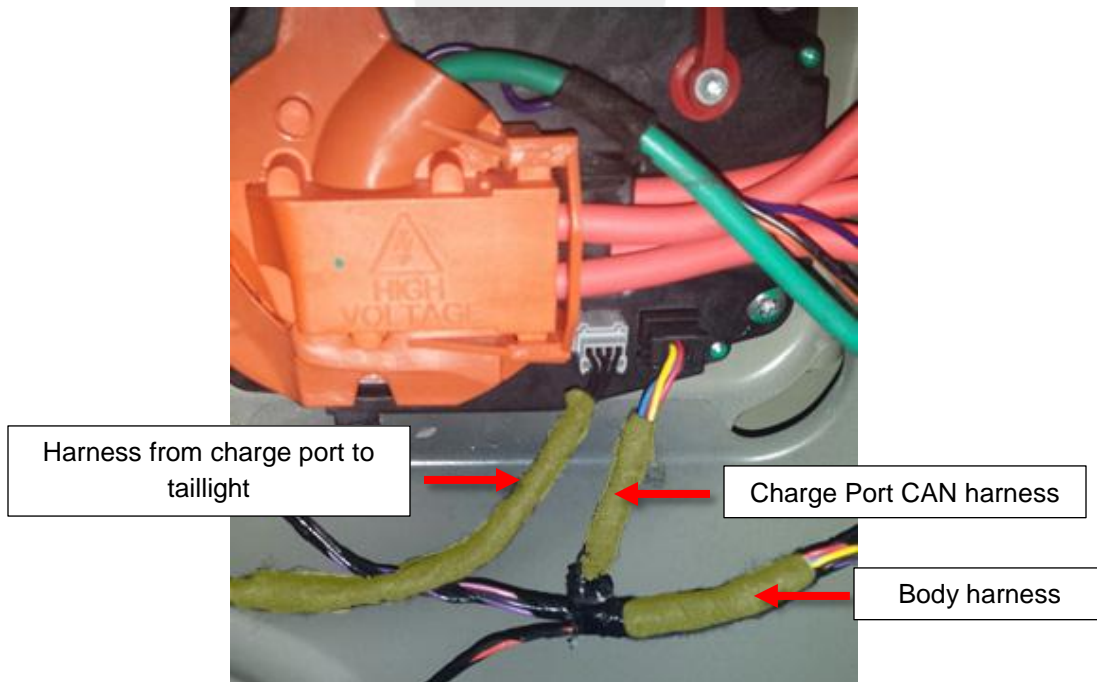


Figure 9 (Cloth tape highlighted in yellow)

13. Install a large ferrite bead onto the body harness as shown (Figure 10).

⚠ CAUTION: Only clip the ferrite bead to the area that is covered in cloth tape.



Figure 10

14. Wrap foam tape around the outside of the ferrite bead.

NOTE: This prevents the clamp from rattling against other surfaces in the vehicle.

15. Install 3 small ferrite beads as shown (Figure 11).

⚠ CAUTION: Only clip the ferrite beads to areas that are covered in cloth tape.

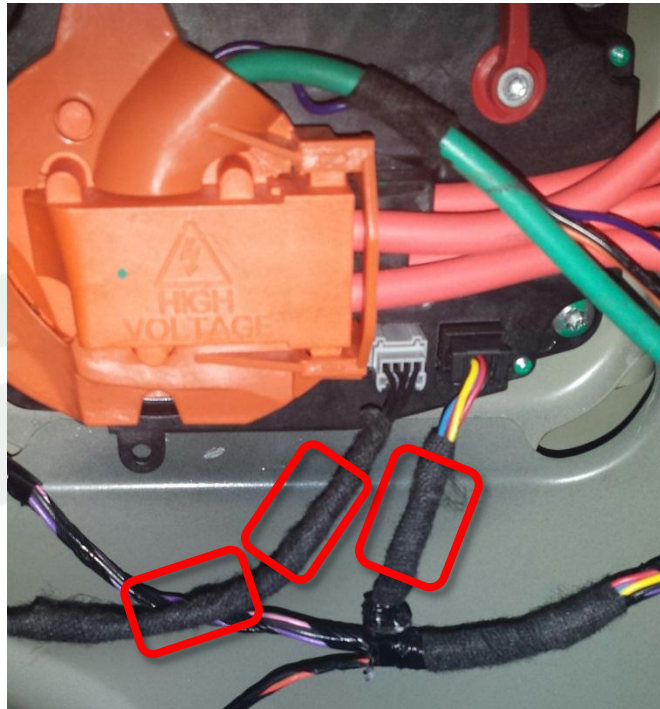


Figure 11

16. Wrap foam tape around the outside of the 3 ferrite beads that were installed in the previous step. Ensure that there is foam between the 2 ferrite beads that are clipped to the tail light harness.

NOTE: This prevents the clamp from rattling against other surfaces in the vehicle.

17. Identify the point where the front harness and body harness join together. Starting 4 in (100 mm) forward from this point and moving towards the rear of the vehicle, wrap cloth tape around both harnesses. At the point where the harnesses split, wrap cloth tape around the pilot harness all the way to the cable connector (Figure 12).

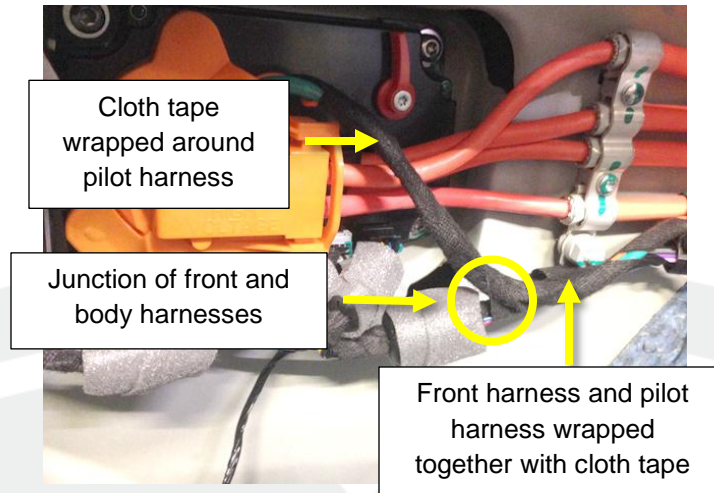


Figure 12

18. Install 2 cable ties as shown to secure the taillight harness and body harness together (Figure 13). Remove any excess tie.

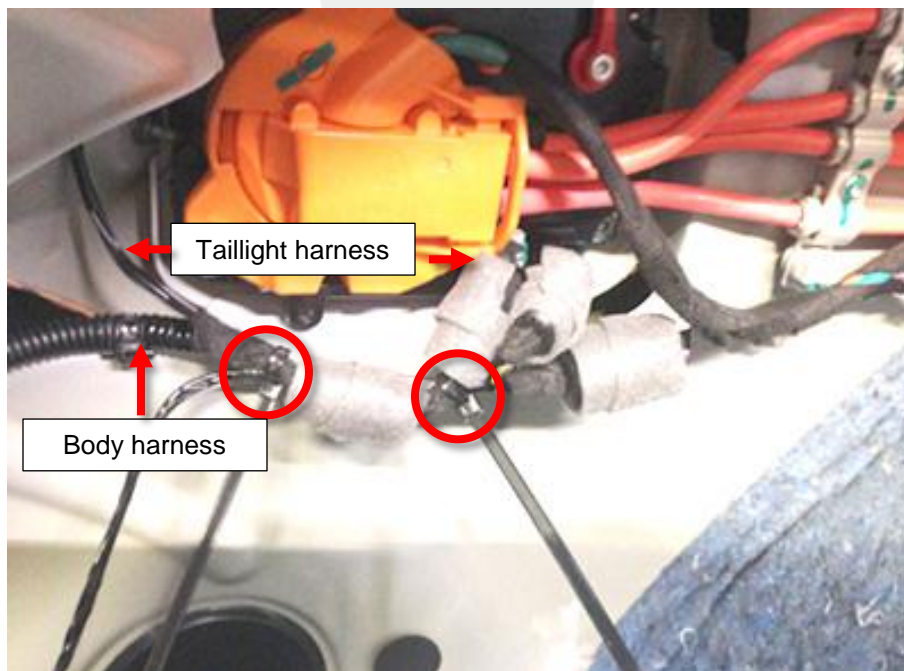


Figure 13

19. Reinstall all components that were removed for access.

Affected VIN(s) Affected European Model S vehicles with the Ultra High Fidelity Sound Package built through approximately April 29, 2014.

NOTE: This is a simplified summary of the affected VIN list. Refer to the VIN/Bulletin Tracker or Customer/Vehicle Profile to determine applicability of this bulletin for a particular vehicle.

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