



Resecure Rear Door Wiring Harness

Classification Campaign Bulletin **Section/Group** 17 - Electrical **Country/Region** United States

Year 2016 **Model** Model X **Version** All

Bulletin Classification: *This campaign bulletin addresses a known non-safety-related condition and provides recommended technical diagnosis and repair procedures. Apply this procedure to all vehicles in the affected VIN range listed. These instructions assume knowledge of motor vehicle and high voltage electrical component 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-16-17-001 R1, dated 26-Feb-16. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Condition

On some Model X vehicles, the rear door anti-pinch wiring harness might be loose. This could prevent the rear door from closing fully on the first request, requiring a second request to fully close the door.

Correction

Replace the rear upper door trim panel(s) if incorrect wire solder is found at the anti-pinch sensor Electronic Control Unit (ECU). Inspect for proper routing and securing of the wiring harnesses on trim panels, and resecure the wiring harnesses if necessary.

Correction Description	Correction	Time
SB-16-17-001 Not Applicable	S011617001	0.00
Vehicle Inspection Only; Anti-Pinch Sensor Rework Not Required	S021617001	0.10
Resecure Wiring Harnesses On LH and RH Rear Upper Door Trim Panels	S031617001	0.35
Resecure Wiring Harnesses On LH Upper Door Trim Panel And Replace RH Rear Upper Door Trim Panel Due To Excessive Anti-Pinch Sensor Solder	S041617001	0.25
Resecure Wiring Harnesses On RH Upper Door Trim Panel And Replace LH Rear Upper Door Trim Panel Due To Excessive Anti-Pinch Sensor Solder	S051617001	0.25
Replace LH and RH Rear Upper Door Trim Panels Due To Excessive Anti-Pinch Sensor Solder	S061617001	0.15

Required Part(s):	Part Number	Description	Quantity
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If necessary:

1080636-00-A	FWD wire harness routing tape	1 roll
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NOTE: Each roll of tape contains enough material for approximately 2 vehicles.

1051545-01-E	FALCON DOOR UPPER TRIM LH, PROV FOG	1
1051545-02-E	FALCON DOOR UPPER TRIM LH, PROV BLK	1
1051545-03-E	FALCON DOOR UPPER TRIM LH ALCAN FOG	1
1051545-04-E	FALCON DOOR UPPER TRIM LH, ALCAN BLACK	1
1051554-01-E	FALCON DOOR UPPER TRIM RH, PROV FOG	1
1051554-02-E	FALCON DOOR UPPER TRIM RH, PROV BLK	1
1051554-03-E	FALCON DOOR UPPER TRIM RH ALCAN FOG	1
1051554-04-E	FALCON DOOR UPPER TRIM RH ALCAN BLK	1

Shop supplies:

Alcohol wipes (1054788-00-A or equivalent)
3M adhesion promoter 4298UV (1024487-00-A)

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

Procedure

1. Carefully remove the LH and RH rear upper door trim panels (refer to Service Manual procedure 15132302).

⚠ CAUTION: Do not use excessive force when removing the trim panels to prevent separation of the wiring harness tape strips.

2. Inspect the LH and RH wiring harnesses:

- If the wiring harnesses are bundled together and secured with black polyester electrical tape (Figure 1), continue to step 3.
- If the wiring harnesses are separated (Figure 2) or are secured with duct tape or white textile tape (Figures 3 and 4), skip to step 4.



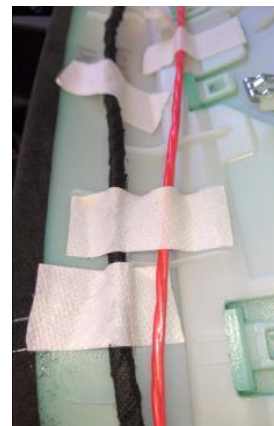
✓ Figure 1 (Harnesses bundled and secured with black polyester electrical tape)



✗ Figure 2 (Harnesses separated)



✗ Figure 3 (Harnesses secured with duct tape)



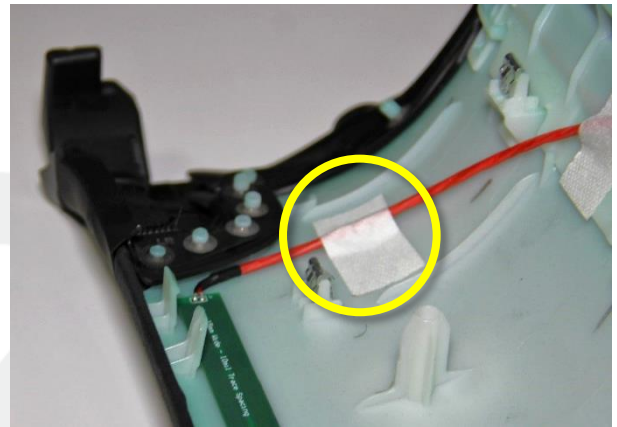
✗ Figure 4 (Harnesses secure with textile tape)

3. Inspect the LH and RH wiring harnesses near the anti-pinch sensor ECU printed circuit boards:

- If the harnesses are secured with black polyester electrical tape (Figure 5), reinstall the LH and RH upper door trim panels and discontinue this procedure.
- If the harnesses are not secured with black polyester electrical tape (Figure 6), continue this procedure.



✓ Figure 5



✗ Figure 6

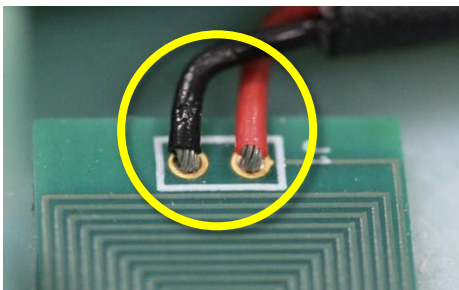
4. Resecure the LH wiring harnesses:

- a. Inspect the wire solder joint at the anti-pinch sensor printed circuit boards (Figure 7):

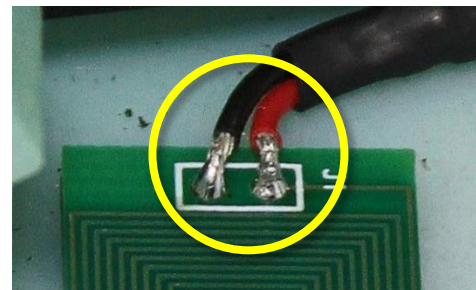


Figure 7 (LH rear door upper trim panel shown)

- If the wiring harness is attached to the printed circuit board with a small amount of solder and no exposed wires (Figure 8), continue this procedure.
- If the wiring harness is attached to the printed circuit board with excessive amounts of solder (Figure 9), discard and replace the rear door upper trim panel (refer to Service Manual procedure 15132302), and skip to step 5.



✓ Figure 8



✗ Figure 9

- b. Remove the tape that secures the wiring harness to the trim panel.
- c. Clean the surface where the tape will be applied (Figures 10–12) with an alcohol wipe. Allow the surface to dry before continuing.

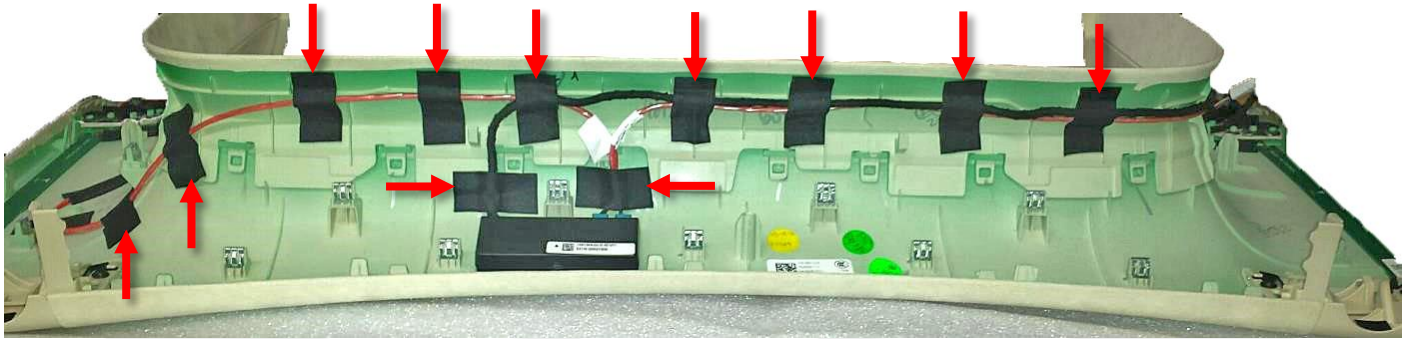


Figure 10 (Side view, LH rear upper door trim panel)

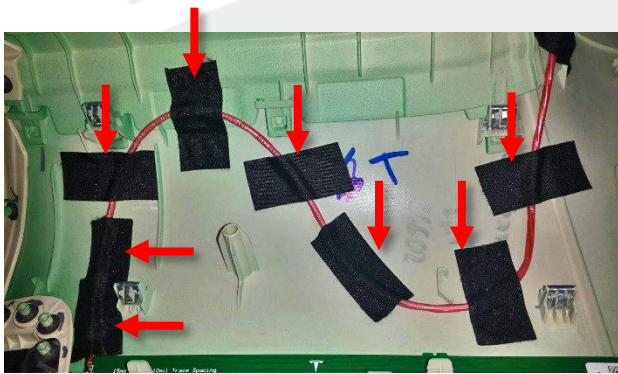


Figure 11 (Rear corner, LH rear upper door trim panel)

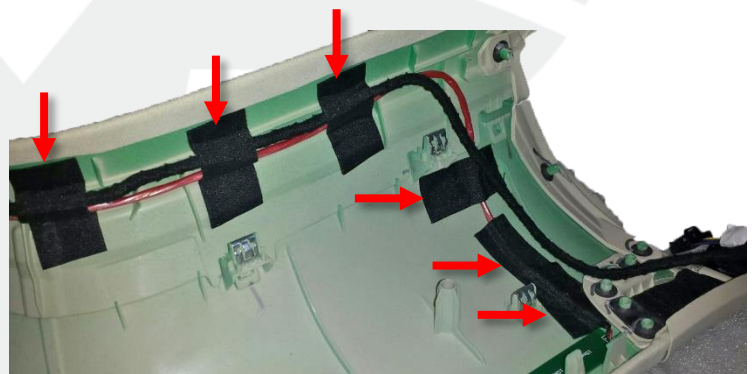


Figure 12 (Front corner, LH rear upper door trim panel)

- d. Apply adhesion promoter where the tape will be applied.

NOTE: Wait 60 seconds for the adhesion promoter to dry before continuing.

- e. Route the wiring harnesses as shown in Figures 10–12.

- f. Secure the wiring harnesses to the trim panel using the new black polyester electrical tape. Cut each tape strip approximately 7 cm in length. When applying the tape, center the harness so that there is at least 20 mm of tape on each side of the harness (Figure 13).

⚠ CAUTION: Make sure that the harness stays taut when securing it to the trim panel. If the harness has any slack, the closing motion of the door might accidentally trigger the anti-pinch sensor and prevent the door from closing.

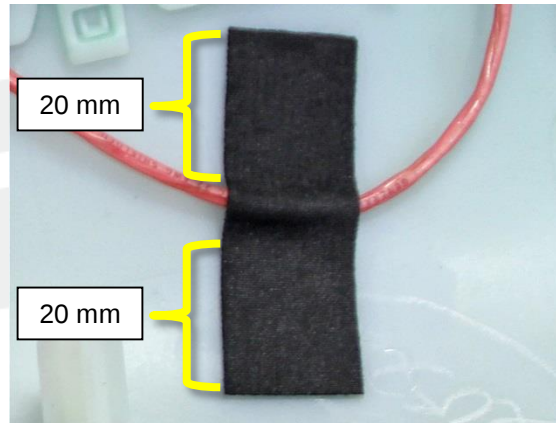


Figure 13

- g. Use a trim tool to apply pressure on both sides of the tape to ensure good adhesion to the trim panel (Figure 14).



Figure 14

5. Reinstall the LH rear upper door trim panel (refer to Service Manual procedure 15132302).
6. Close the LH rear door and verify that the door closes fully on the first try.

7. Resecure the RH wiring harness:

- a. Inspect the wire solder joint at the anti-pinch sensor printed circuit boards (Figure 7).
 - If the wires are soldered to the printed circuit board (Figure 8), continue this procedure.
 - If the wires are soldered to the printed circuit board with a visible amount of solder (Figure 9), discard and replace the rear door upper trim panel (refer to Service Manual procedure 15132302), and skip to step 9.
- b. Remove the tape that secures the wiring harness to the trim panel.
- c. Clean the surface where the tape will be applied (Figures 15–17) with an alcohol wipe. Allow the surface to dry before continuing.

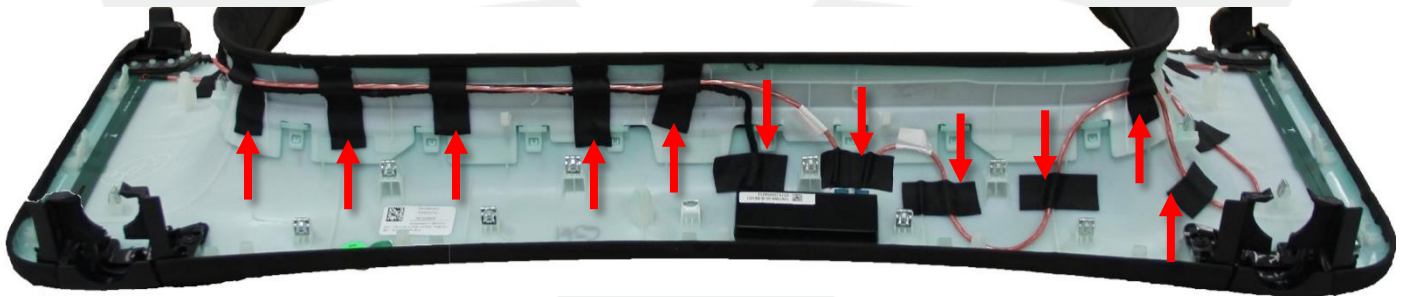


Figure 15 (Side view, RH rear upper door trim panel)

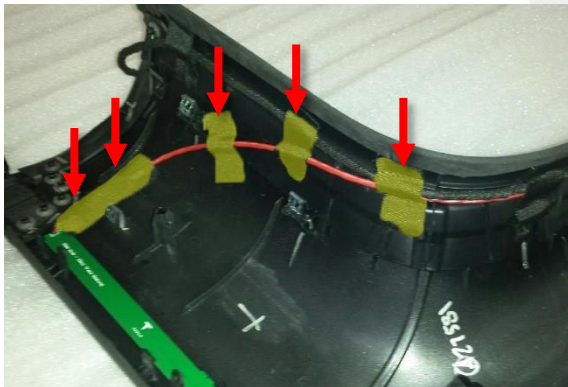


Figure 16 (Front corner, RH rear upper door trim panel; tape strips highlighted)

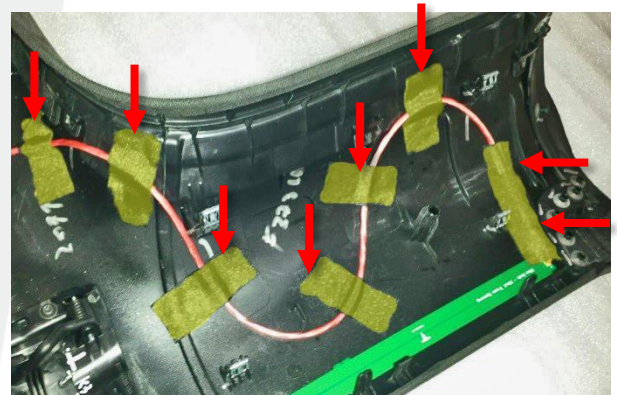


Figure 17 (Rear corner, RH rear upper door trim panel; tape strips highlighted)

- d. Apply adhesion promoter where the tape will be applied.

NOTE: Wait 60 seconds for the adhesion promoter to dry before continuing.

- e. Route the wiring harnesses as shown in Figures 15–17.
- f. Cut strips of tape long enough to have 20 mm of tape on each side of the harness (Figure 13)
- g. Secure the wiring harnesses to the trim panel using the new black polyester electrical tape.

⚠ CAUTION: Make sure that the harness stays taut when securing it to the trim panel. If the harness has any slack, the closing motion of the door might accidentally trigger the anti-pinch sensor and prevent the door from closing.

h. Use a trim tool to apply pressure on the tape to ensure good adhesion to the trim panel (Figure 14).

8. Carefully reinstall the rear upper door trim panels (refer to Service Manual procedure 15132302).

⚠ CAUTION: Using excessive force during trim panel reinstallation might loosen the wiring harness.

9. Cycle each rear door 5 times to verify for proper operation. Escalate a Toolbox session if any of the rear doors malfunction.

Affected VIN(s) Affected Model X vehicles built before approximately March 25, 2016.

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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