Tesla, Inc.
Service Bulletin

Relocate Liftgate Electrical Wiring Harness

Classification	Repair Bulletin	**Section/Group**	17 - Electrical	**Country/Region**	All
Year	2015 - 2018	**Model**	Model X	**Version**	All

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 electrical component repairs, and should only be executed by trained professionals. Tesla 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 Document supersedes SB-19-17-005, dated 12-Apr-19. 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, a pinched electrical wiring harness at the liftgate might create an obstruction alert, causing the power function of the liftgate not to operate. The liftgate can still be manually opened and closed. R1 changes the affected VIN dates.

Correction

Upon customer complaint, inspect the vehicle for symptoms related to the condition. If symptoms are present, relocate the liftgate electrical wiring harness or replace the liftgate electrical wiring harness, if damaged.

Correction Description	Correction	Time
SB-19-17-005 Not Applicable	S011917005	0.00
Inspect Vehicle, Liftgate Electrical Wiring Harness Not Pinched or Damaged	S021917005	0.05
Inspect Vehicle, Relocate Liftgate Electrical Wiring Harness	S031917005	0.20
Inspect Vehicle, Replace Liftgate Electrical Wiring Harness	S041917005	2.00

Required Part(s):	Part Number	Description	Quantity
	If necessary:		
	1032443-90-G	ASY,HRN,MDLX,ALL,LIFTGATE,PASSIVE SPOILER	1
	1037906-50-D,E	ASY, LIFT GATE TRIM-UPPER MX	1
	1020965-00-A	EDGE CLIP CABLE TIE, 1-3MM PANEL	1

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

Inspection

1. Remove the liftgate upper trim panel (refer to Service Manual procedure 15111002).

2. Inspect the liftgate electrical wiring harness and pinch strip for signs of pinching of the liftgate electrical wiring harness between the liftgate and the body (Figure 1).

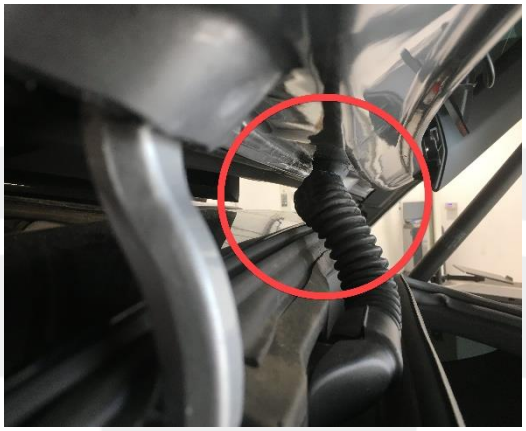

Figure 1

3. If signs of pinching are found, inspect for wiring damage that would warrant the replacement of the liftgate electrical wiring harness or pinch strip:

   a. Remove the boot from the liftgate grommet hole, and then pull the boot back past the pinch area to investigate possible wiring damage (Figure 2).

   NOTE: Take care not to damage the boot while removing it for inspection.

Figure 2

   b. If wiring damage is found, discontinue this procedure and repair the electrical harness. Refer to SI-17-17-002, Electrical Harness Repair.

c. If the wiring harness is found to be in good condition, reassemble the boot into the grommet hole (Figure 3) and continue to the next step.

NOTE: Ensure that the harness boot is properly seated in the liftgate opening; the sealing edges should be flush around the entire opening.

Figure 3

4. First visually inspect, then gently pull on the LH and RH legs of the liftgate electrical wiring harness from inside the liftgate opening to check for excess harness length, which might cause the boot and harness to be pushed into the pinch space between the body and liftgate (Figure 4). If excess slack in the harness is causing the liftgate electrical wiring harness and boot to be pushed into the pinch space, proceed with the “Relocate” procedure.

Figure 4

Relocate

1. Release the clips (x2) that attach the LH liftgate electrical wiring harness retainers to the LH side of the liftgate to allow for removal of excess slack in the harness (Figure 5).

   NOTE: Do not damage the harness retainer clips; they will be reused after excess harness slack has been removed.

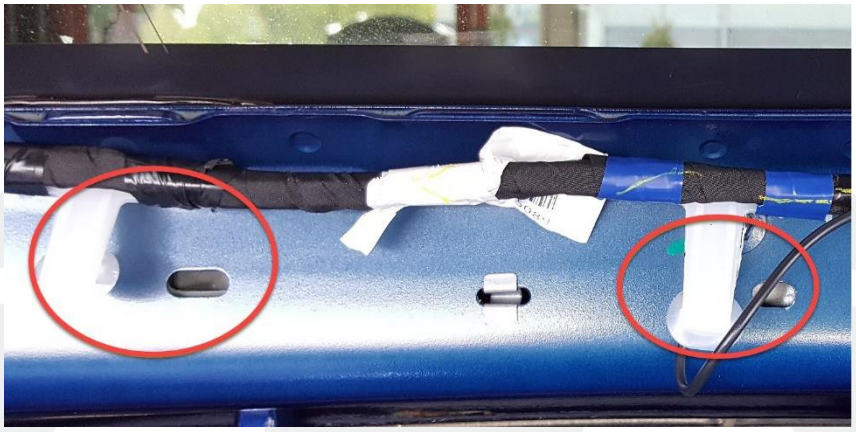

Figure 5

2. Pull the LH portion of the liftgate electrical wiring harness out from inside the liftgate panel to remove excess slack (Figure 6).

   NOTE: The amount of excess slack in the harness can vary. On average, approximately 20 mm of slack can be removed.

Figure 6

3. Install a harness panel edge clip (x1) to the LH portion of liftgate electrical wiring harness, and then secure it to the liftgate (Figure 7).

   NOTE: Remove the excess cable tie.

Figure 7

4. Pull the RH portion of the liftgate harness out from inside the liftgate panel to remove excess slack (Figure 8).

   NOTE: The amount of excess slack in the harness can vary. On average, approximately 20 mm of slack can be removed.

Figure 8

5. Install a harness panel edge clip (x1) to the RH portion of the liftgate electrical wiring harness, and then secure it to the liftgate (Figure 9).

   NOTE: Remove the excess cable tie.

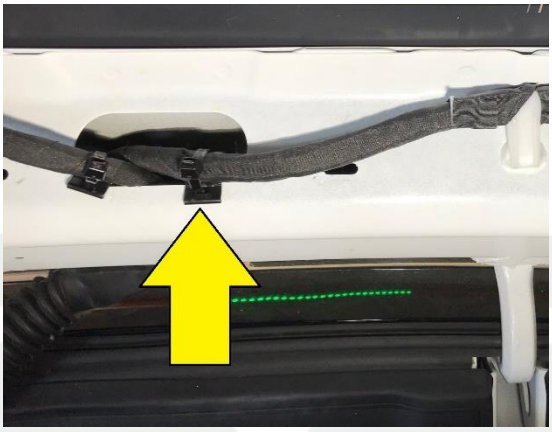

Figure 9

6. Carefully remove the tape that attaches the LH liftgate electrical wiring harness retainers to the harness, and then relocate the retainers to the desired new positions to remove excess slack.

7. Re-tape the retainers in the new location, and then reinstall the clips (x2) that attach the liftgate electrical wiring harness retainers to the liftgate (Figure 10).

Figure 10

8. Release the clip (x1) that attaches the RH liftgate electrical wiring harness retainer to the RH side of the liftgate to allow for removal of excess slack in the harness (Figure 11).

   NOTE: Do not damage the harness retainer clip; it will be reused after excess harness slack has been removed.

Figure 11

9. Carefully remove the tape that attaches the RH liftgate electrical wiring harness retainer to the harness, and then relocate the liftgate harness retainer to the desired new position to remove excess slack. (Figure 12).

Figure 12

11. Re-tape the retainer in the new location, and then reinstall the clip (x1) that attaches the liftgate harness retainer to the liftgate (Figure 13).

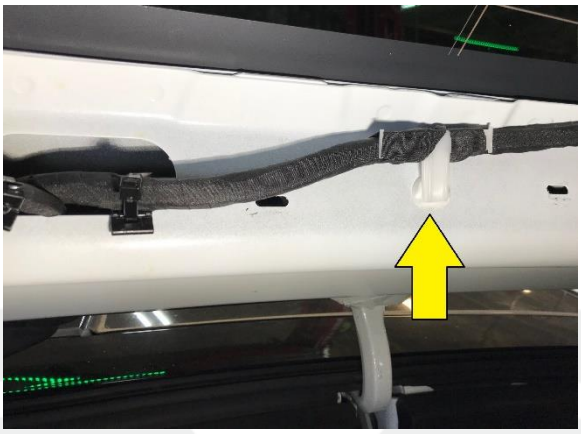

Figure 13

12. Close and open the vehicle liftgate and verify the following:
    - The liftgate electrical wiring harness remains securely in position (Figure 14).
    - There is enough slack in the harness loom to allow for liftgate movement.
    - The relocated harness does not rub against sharp edges, which could damage the harness.

Figure 14

13. Reinstall the upper liftgate trim panel (refer to Service Manual procedure 15111002).

Affected VIN(s)	Affected Model X vehicles built between approximately September 9, 2015 and April 5, 2018. **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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