 Tesla, Inc. Service Bulletin		<i>Inspect Trailer Relay</i>	
SB-22-17-001 January 11, 2022			
Classification		Section/Group	Mobile Service
Campaign Bulletin		17 - Electrical	Can Perform (where permitted)
Model Year	Model	Country/Region	Version
2017	Model X	Europe, Asia Pacific	All
<small>The model(s) and model year(s) listed are a general approximation 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.</small>			

Campaign Bulletin: 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 list.

Condition

Some Model X vehicles in Europe and the Asia Pacific might have an incorrect trailer relay installed, which can interfere with trailer lighting functionality.


Correction

Inspect the vehicle for the symptom related to the condition. If the symptom is present, replace the trailer relay with the correct part.

Correction Description	Correction	Time
SB-22-17-001 Not Applicable	S012217001	0.00
Inspect Trailer Relay; Replacement Not Needed	S022217001	0.05
Inspect Trailer Relay; Install New Relay (RHD)	S032217001	0.25
Inspect Trailer Relay; Install New Relay (LHD)	S042217001	0.30

	Part Number	Description	Quantity
Parts Required	1018693-00-B	BOLT&WASHER PN M5x16 PC98	2
If Necessary	1011602-00-A	RELAY,uISO,SPDT,12V,40A,PLUG-IN	1
<small>These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Catalog.</small>			
Special Tools	1103278-01-A	TOOL, TRAILER LIGHT TESTER	

Procedure

 **NOTE (RHD vehicles):** The trailer relay on RHD vehicles is in the RH footwell. Perform this procedure as written.

1. If a trailer hitch cover is installed, release the clips (x2) that attach the cover (Figure 1) to the vehicle, and then remove the cover from the vehicle.



Figure 1

2. Connect the trailer tester to the trailer connector (Figure 2).



 **NOTE:** If a trailer hitch is installed on the vehicle, removal may be necessary for access to the connector.



Figure 2

3. Turn on the vehicle headlights, and then check the “12V Continuous” or “+30” indicator on the trailer tester:
 - If the “12V Continuous” or “+30” indicator is on, the correct trailer relay is already installed on the vehicle. Disconnect the trailer tester, install the trailer hitch or cover if necessary, and then discontinue this procedure.
 - If the “12V Continuous” or “+30” indicator is off, the trailer relay needs replacement. Turn off the vehicle headlights and continue to step 4.

 **NOTE:** If the indicator lights up intermittently, replace the trailer relay.

4. Remove the RH footwell cover (refer to Service Manual procedure [14055402](#)).
5. Remove the RH lower A-Pillar trim (refer to Service Manual procedure [15182402](#)).

6. Release the clip at the top of the RH front carpet (Figure 3), and then fold the carpet toward the rear of the vehicle (Figure 4).



Figure 3 – LHD shown; RHD has pedals



Figure 4 – LHD shown; RHD has pedals

7. **LHD vehicles:** Release the clips (Figure 5) that attach the front passenger footwell bracket to the vehicle, and then remove the bracket from the vehicle.



Figure 5

8. **RHD vehicles:** Remove the clips that attach the electrical harness to the dead pedal (Figure 6).



Figure 6

9. **RHD vehicles:** Remove the nuts that attach the driver dead pedal to the vehicle (Figure 7), and then remove the pedal from the vehicle.



Figure 7

10. Carefully cut and discard the cable tie that attaches the trailer relay connector to the relay housing (Figure 8).

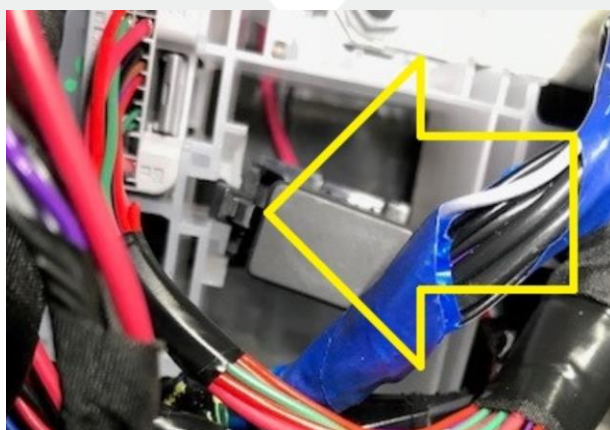


Figure 8

11. Pull the trailer relay connector out of the relay housing (Figure 9).

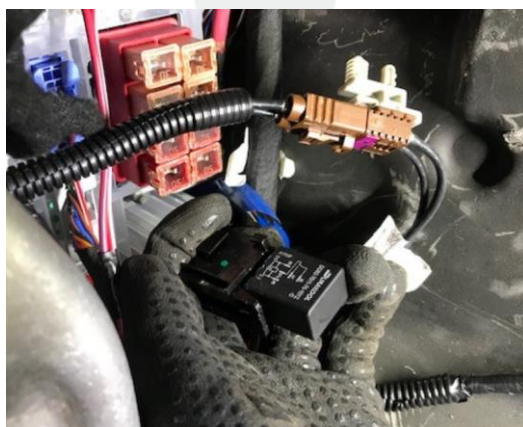


Figure 9

12. Disconnect and discard the old relay from the trailer relay connector, and then connect the new relay to the trailer relay connector.
13. Tuck the trailer relay connector back into the relay housing.

14. Loosely install a new cable tie to attach the trailer relay connector to the relay housing (Figure 10) and then tighten the cable tie, ensuring the trailer relay connector is secured inside of the relay housing (Figure 11).


 **NOTE:** Carefully cut off and discard the excess cable tie.



Figure 10



Figure 11

15. **RHD vehicles:** Position the driver dead pedal on the vehicle, and then attach the harness clips to the pedal (Figure 6).
16. **RHD vehicles:** Install the nuts that attach the driver dead pedal to the vehicle (Figure 7).
17. **LHD vehicles:** Position the front passenger footwell bracket on the vehicle, and then install the clips that attach the bracket to the vehicle (Figure 5).
18. Unfold the front passenger carpet (Figure 4), and then install the clip that attaches the carpet to the vehicle (Figure 3).
19. Install the RH lower A-Pillar trim (refer to Service Manual procedure [15182402](#)).
20. Install the RH footwell cover (refer to Service Manual procedure [14055402](#)).
21. Remove the cubby under the touchscreen, and then connect a laptop with Toolbox 2 to the vehicle.
22. In Toolbox, go to **Panels > Gateway and Center Display > Resets > ECU Resets**, select “BCCEN”, and then click **Reset**.
23. Turn on the vehicle headlights and then use the trailer tester (Figure 12) to check the following trailer light connections:

- 12V continuous or +30
- LH turn signal
- RH turn signal
- Brake light
- Rear fog light
- Reverse light
- LH side light
- RH side light



Figure 12

24. Disconnect the trailer tester from the trailer connector (Figure 2).
25. If previously removed, install the customer's tow hitch.

26. If previously removed, position the trailer hitch cover on the vehicle, and then install the clips (x2) that attach the cover to the vehicle (Figure 1).
27. Turn off the vehicle headlights.
28. Disconnect the laptop from the vehicle and reinstall the cubby.

