



# Kinked Rear HVAC Drain Hose

<b>Classification</b>	Campaign Bulletin	<b>Section/Group</b>	18 - Thermal Management	<b>Country/Region</b>	United States
<b>Year</b>	2016	<b>Model</b>	Model X	<b>Version</b>	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.*

## Condition

Some Model X vehicles might have a kinked or pinched rear HVAC drain hose. This condition can cause water to build up in the rear HVAC unit, resulting in a mild mildew smell, wet interior in the trunk, or low isolation in the rear PTC heater, possibly leading to a no-start condition.

## Correction

Inspect the rear HVAC drain hose for a cable tie. Install a cable tie if necessary. If water comes out of the drain hose after it is rerouted, inspect the rear PTC heater for signs of water and replace the PTC heater, if necessary.

Correction Description	Correction	Time
SB-16-18-001 Not Applicable	S011618001	0.00
Inspect Rear HVAC Drain Hose; No Additional Work Required	S021618001	0.30
Inspect Rear HVAC Drain Hose; Install Cable Tie	S031618001	0.30
Inspect Rear HVAC Drain Hose; Install Cable Tie And Replace Rear PTC Heater	S041618001	1.10
Inspect Rear HVAC Drain Hose; Install Cable Tie And Inspect Rear PTC Heater Fins	S051618001	1.15

Required Part(s):	Part Number	Description	Quantity
	1019619-00-A	CBL TIE,6MM SLOT,4.6,PA66HS,STUD MOUNT	1
	6001487	LABEL, TAMPER EVIDENT	1
	<b>If necessary:</b> 1035327-00-C	REAR PTC HEATER	1

**Shop supplies:**  
Alcohol wipes

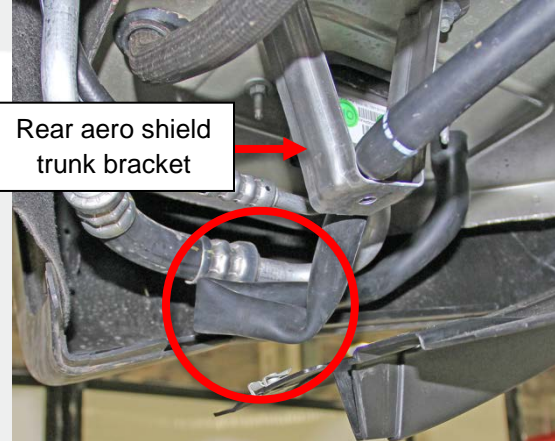
These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.

## Procedure

1. Remove the mid aero shield (refer to Service Manual procedure 12030502).
2. Inspect the rear HVAC drain hose:
  - If the rear HVAC drain hose is not kinked or pinched and is secured to the stud on the body by a cable tie following the path shown (Figure 1), reinstall the mid aero shield and discontinue this procedure.
  - If the rear HVAC drain hose is kinked or pinched (Figure 2), routed through the rear aero shield trunk bracket (Figure 2), or is not secured by a cable tie, continue this procedure.



✓ **Figure 1 (Drain hose correctly installed)**



✗ **Figure 2 (Drain hose kinked, routed incorrectly)**

3. Lower the vehicle.
4. Perform the vehicle electrical isolation procedure (refer to Service Manual procedure 17010000).

**⚠ WARNING:** Do not continue this procedure until the HV system has been disabled.

5. Raise the vehicle.
6. Ensure that the drain hose is routed following the path shown in Figure 1.

**⚠ CAUTION:** If the drain hose is kinked, water might have built up inside of the HVAC unit. Ensure that any trapped water does not leak onto any sensitive areas once the hose is rerouted.

**NOTE:** If water comes out from the drain hose, the PTC heater is inspected later in this procedure.

7. Release the barrel clip that secures the coolant hose to the stud on the body (Figure 3).



**Figure 3**

8. Install the cable tie on the rear HVAC drain hose approximately 150 mm from the outlet (Figure 4). Remove any excess tie.



**Figure 4**

9. Secure the cable tie to the stud on the body of the vehicle (Figure 5).

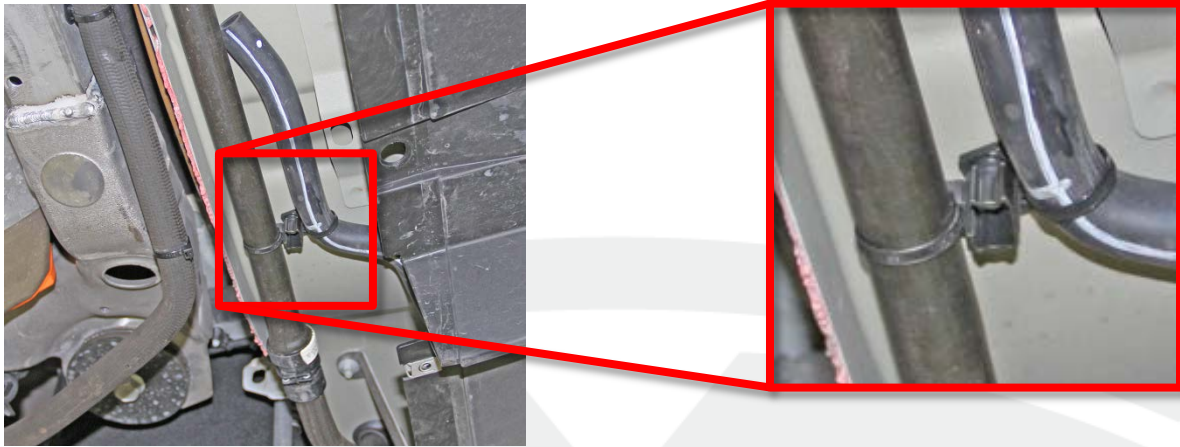
**⚠ CAUTION:** Ensure that the drain hose is not twisted or damaged.



**Figure 5**

10. Reinstall the barrel clip that secures the coolant hose to the stud on the body (Figure 6).

**NOTE:** The cable tie for the drain hose and the barrel clip for the coolant hose share the same stud.



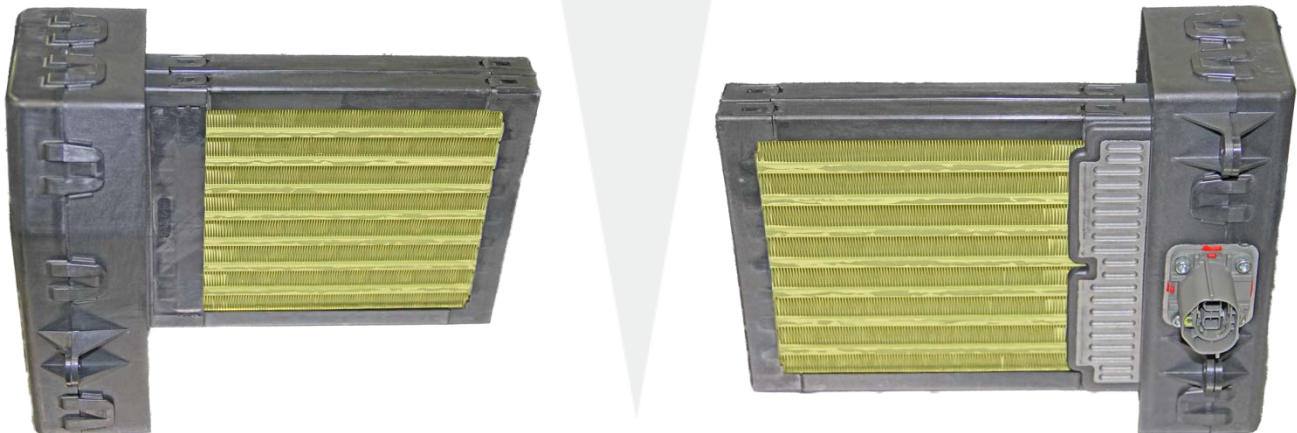
**Figure 6**

11. Reinstall the mid aero shield.

12. Lower the vehicle.

13. If any water came out of the drain hose after it was rerouted:

- a. Remove the rear PTC heater assembly (refer to Service Manual procedure 18106602).
- b. Inspect the fins on both sides of the rear PTC heater assembly (Figure 7):
  - If any water is visible on the fins, discard the rear PTC heater and replace it with a new one.
  - If the fins do not show any signs of water, reinstall the PTC heater.



**Figure 7 (Fins highlighted)**

14. Reinstall all components that were removed for access.

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**Affected VIN(s)** Affected Model X vehicles built before approximately December 24, 2015.

**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.

For feedback on the accuracy of this document, email [ServiceBulletinFeedback@teslamotors.com](mailto:ServiceBulletinFeedback@teslamotors.com).

