



Reroute HV Rapid Mate Ground Strap

Classification	Repair Bulletin	Section/Group	44 - High Voltage System	Country/Region	North America, Europe
Year	2012-2013	Model	Model S	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 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-14-44-006, dated 25-Aug-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

On some vehicles, the High Voltage (HV) Rapid Mate ground strap is routed between the HV cables. This prevents proper use of the Rapid Mate Seating Tool during reinstallation of the HV battery.

Correction

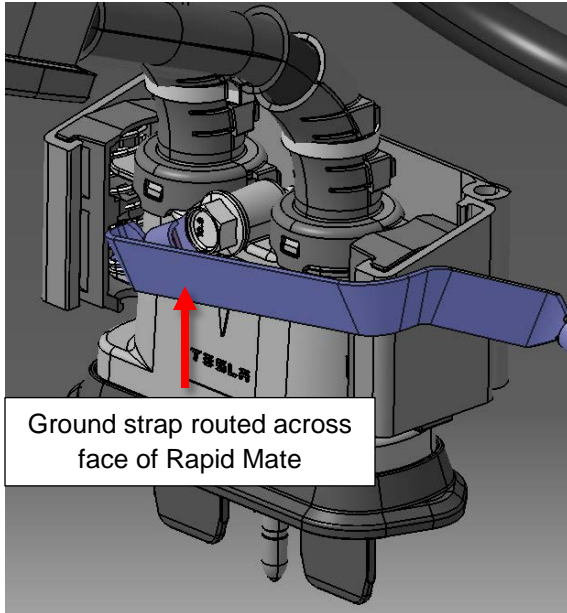
Perform this procedure the next time the rear subframe or HV battery is removed from the vehicle.

NOTE: The labor times in this bulletin assume that the rear subframe or HV battery has already been removed from the vehicle.

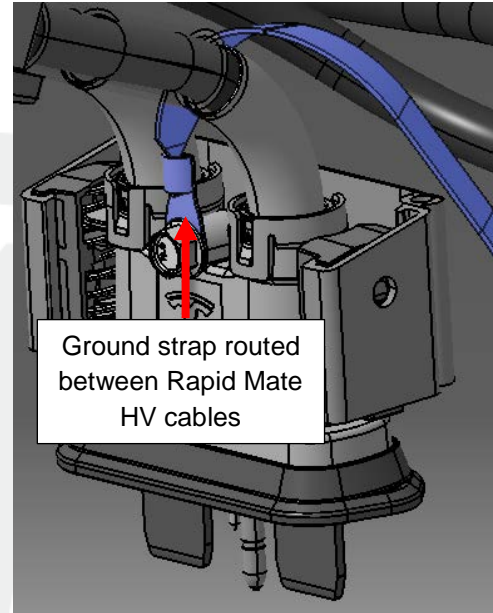
Correction Description	Correction	Time
Vehicle Inspection Only; Rapid Mate Ground Strap Already Routed Properly	S011444006	0.05
Reroute HV Rapid Mate Ground Strap	S021444006	0.05

Procedure

1. Inspect the HV Rapid Mate ground strap:
 - If the ground strap is routed across the face of the Rapid Mate connector (Figure 1), discontinue this procedure; no additional work is needed.
 - If the ground strap is routed between the HV cables (Figure 2), continue this procedure.



✓ Correct
Figure 1



✗ Incorrect
Figure 2

2. Release the nut that secures the ground strap to the body (Figure 3).

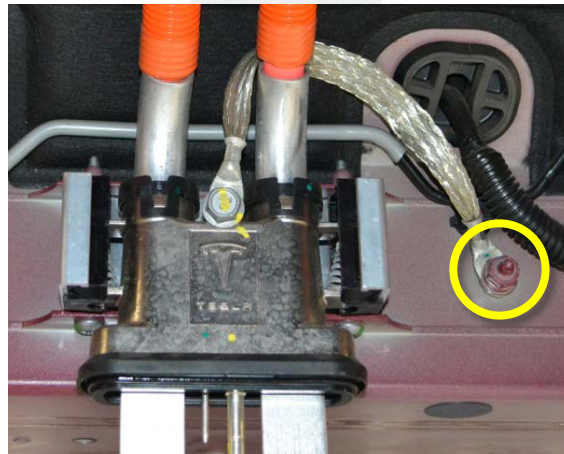


Figure 3

3. Pull the free end of the ground strap out from between the HV cables.
4. Loosen the bolt that secures the ground strap to the Rapid Mate, but do not fully release it.
5. Rotate the ground strap so that the eyelet points downward and to the left.

NOTE: The eyelet should extend from the bolt at approximately the 8 o'clock position (refer to Figure 1).

6. Retighten the bolt that secures the ground strap to the Rapid Mate (torque 9 Nm). Mark the fastener with a yellow paint pen.
7. Loop the ground strap over itself and across the face of the Rapid Mate (refer to Figure 1).

NOTE: Ensure that the eyelet extends from the bolt at approximately the 8 o'clock position.

8. Secure the ground strap to the body and fully tighten the bolt (torque 6 Nm) (Figure 4). Mark the fastener with a yellow paint pen.



Figure 4

Affected VIN(s) Affected Model S vehicles built before approximately July 23, 2013.

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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