

Changing From Exide to C&D 12V Battery

Classification	Repair Bulletin	Section/Group	17 - Electrical	Country/Region	All
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 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-13-17-008 R3, dated 24-Mar-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

Tesla currently has 2 12V battery suppliers for Model S. If an Exide battery is replaced with a C&D battery, several steps are needed to adapt the battery to the vehicle.

Correction

Install terminal adapters on the C&D battery. Remove the Exide-specific terminal adapter from the battery fuse box. Replace the battery. Use Toolbox to set the vehicle configuration.

Correction Description	Correction	Time
Replace Exide 12V Battery with C&D	S011317008	1.5

Required Part(s):	Part Number 1024463-00-A 1023696-00-A 1024078-00-A 1024082-00-A 1023921-00-B 1024079-00-A 1024085-00-A	Description 12V BATTERY ADAPTER,POSITIVE TERMINAL,12V BATTERY SCREW,10-32,FLANGED, SERRATED,3/8 LENGTH BOLT, 5/16, SQUARE HEAD, 3/4" LENGTH SAE ADAPTER,NEGATIVE TERMINAL,12V BATTERY SCREW,10-32,FLANGED,SERRATED, 1 LENGTH NUT, 5/16, FLANGED, SERRATED	Quantity 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1005103-00-D	12V BATTERY CLAMP STRAP	1

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

Procedure

I

- 1. Update the vehicle firmware.
 - 2. Remove the 12V auxiliary battery (refer to Service Manual procedure 17011002).
 - 3. Place the square-head bolt in the bottom cavity of the new positive adapter (Figure 1).

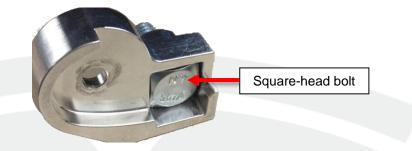


Figure 1 (Bottom of positive adapter)

NOTE: The C&D battery has a red case. The figures in this bulletin show a prototype battery that has a black case.

4. Use the shorter 10-32 bolt to attach the new positive adapter to the positive terminal of the new battery (torque 3.4 Nm) (Figure 2).



Figure 2

5. Use the longer 10-32 bolt to attach the negative adapter to the negative terminal of the new battery (torque 3.4 Nm) (Figure 3).



Figure 3 T ☰ ⊆ L 급 6. Remove and discard the nut that holds the existing positive adapter to the fuse box (Figure 4). Remove and discard the positive adapter (Figure 5).



Figure 4 (Shown installed on Exide battery)



- 7. Install the new battery, using the revised battery strap to secure it in place.
- 8. Place the fuse box on the battery. The stud on the battery strap passes through the hole in the fuse box.
- 9. Reinstall the existing mounting nut on the fuse box mounting stud (torque 6 Nm) (Figure 6).
- Install a new nut to secure the fuse box positive bus bar to the positive terminal of the battery (torque 12 Nm) (Figure 6).

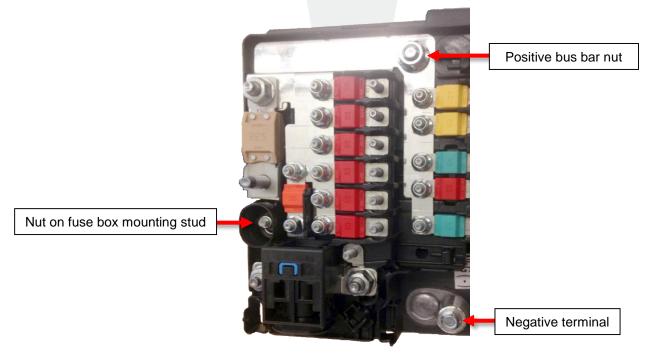


Figure 6 (Shown without harnesses)

- 11. Reinstall the body harness connector, fuse box cover, and the parts removed for access. Installation is the reverse of removal.
- 12. Use Toolbox to change the "12V Battery Type" configuration variable to **C & D**.

Affected VIN(s)	This information is for reference purposes only. This list is not intended to be the sole information source for updates.		
	Source for updates. 5YJSA1CN2DFP07482 - 5YJSA1CN2DFP07482 5YJSA1CG6DFP07521 5YJSA1CG6DFP07549 5YJSA1DPXDFP07651 5YJSA1D8DFP08278 5YJSA1AG6DFP08493 5YJSA1AG2DFP08927 5YJSA1CG6DFP09040 5YJSA1CG6DFP09088 5YJSA1CG6DFP09088 5YJSA1CG0DFP09088 5YJSA1CG0DFP09149 5YJSA1CG2DFP09170 - 5YJSA1CG0DFP09197 5YJSA1CG1DFP09208 - 5YJSA1CS0FP11403 5YJSA1DN6DFP11422 - 5YJSA1CN8DFP11438		
	5YJSA1CN8DFP11455 - 5YJSA1CG1DFP11475 5YJSA1CNXDFP11490 5YJSA1DN8DFP11518 - 5YJSA1DP9DFP11612		

For feedback on the accuracy of this document, email <u>ServiceBulletinFeedback@teslamotors.com</u>.