



Replace Charger – Model S and Model X Vehicles Sold In China

Classification	Campaign Bulletin	Section/Group	44 - High Voltage System	Country/Region	China
Year	2017, 2018	Model	Model S, Model X	Version	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 assumes no liability for injury or property damage due to a failure to properly follow these instructions or repairs attempted by unqualified individuals.*

Condition

On certain Model S and Model X vehicles sold in China, an issue with the High Voltage Interloop (HVIL) located inside the charger might result in the vehicle not being able to charge at the maximum possible amperage rate, resulting in longer time to charge the High Voltage (HV) battery.

Correction

Replace the charger with an updated component.

Correction Description	Correction	Time
SB-18-44-005 Not Applicable	S011844005	0.0
Replace Charger (Model S)	S021844005	1.1
Replace Charger (Model X)	S031844005	2.3

Required Part:	Part Number	Description	Quantity
	1035647-06-E	ASY,GEN3 CHRGR,72A,3PH,GB	1
This part number was current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.			
Special Tool(s):	1076927-00-A	HIOKI MODEL 3541 TESTER	
	1116814-00-A	KIT, DUMMY PLUG, GEN 3 CHARGER	
	1053600-00-C	LEAK TEST FIXTURE, -6 TO 50 PSI	
	1462900-00-A	KIT, GEN 3 CHARGER PURGE, MODEL S X	
	1065131-00-A	TOOL KIT, BATT COOLANT DRAIN AND FILL	

Procedure

1. Replace the charger (refer to Service Manual procedure 44103012).
2. Place the old charger on a suitable surface, such as a small cart (Figure 1).

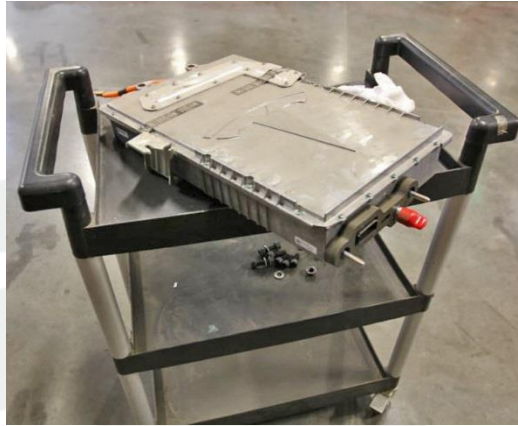


Figure 1

3. Connect the pressure test hose to the charger coolant inlet adapter (Figure 2).



Figure 2

4. Remove the plug from the charger coolant inlet, and then install the charger coolant inlet adapter onto the charger (Figure 3).



Figure 3

5. Connect the coolant cart hose to the charger coolant outlet adapter (Figure 4).



Figure 4

6. Remove the plug from the charger coolant outlet, and then install the charger coolant outlet adapter (Figure 5).

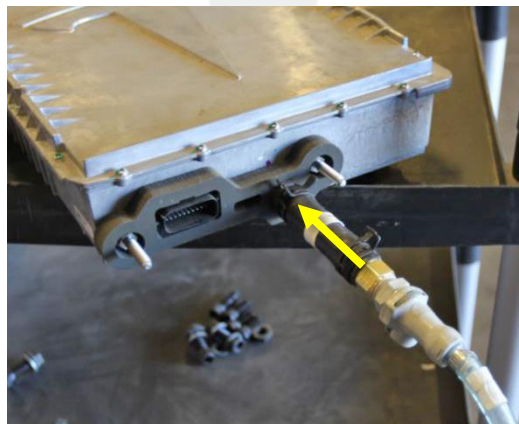


Figure 5

7. Tilt the charger slightly so that the coolant inlet is higher than the coolant outlet (Figure 6).

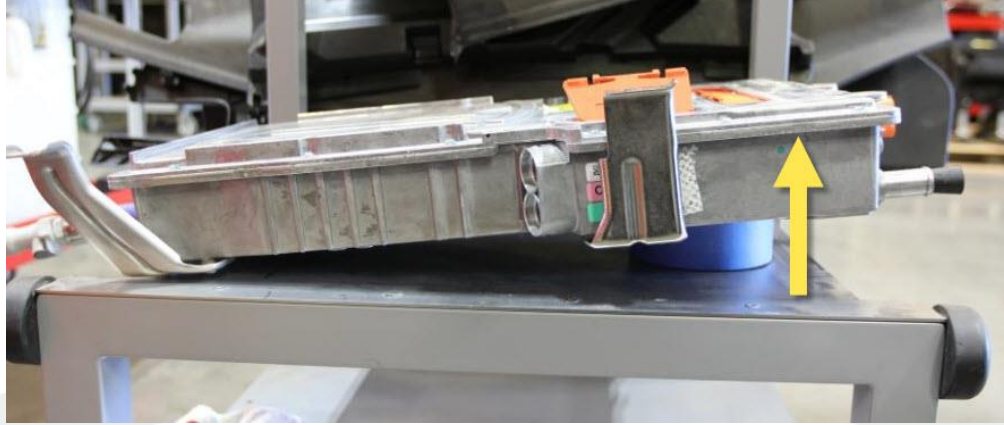


Figure 6

8. Figure 7 shows the air flow into the charger on the right, and coolant flow out of the charger on the left.

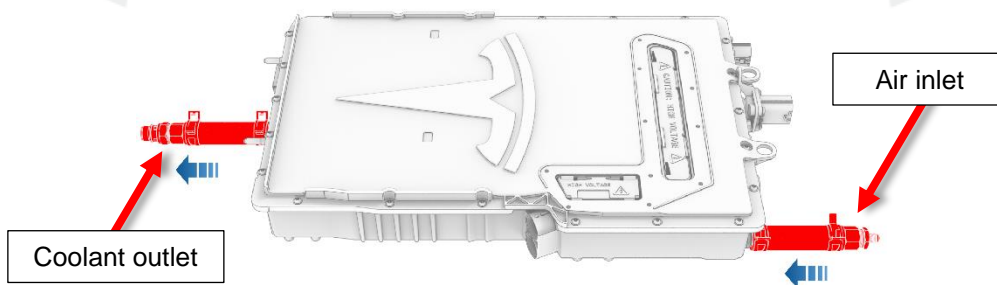


Figure 7

9. Make sure that the valves P1 and P2 are closed on the pressure regulator fixture (Figure 8).



Figure 8

10. Attach a compressed air line to the pressure test fixture (Figure 9).



Figure 9

11. Turn on the pressure gauge, open the regulator valve slowly (Figure 10), and then adjust the regulator valve to 30 psi (Figure 11).



Figure 10



Figure 11

12. Set the timer to 30 seconds (Figure 12).



Figure 12

13. Open the valve P2 slowly to drain the coolant from the charger (Figure 13), and then start the timer. Drain the coolant for at least 30 seconds, or until no coolant is coming out of the charger.



Figure 13

14. After 30 seconds, or when coolant is no longer draining, close both valves P1 and P2 (Figure 14).



Figure 14

15. Disconnect the pressure test adapter from the charger coolant inlet adapter.
16. Disconnect the coolant cart from the charger coolant outlet adapter hose.
17. Remove the coolant cart adapter and the pressure adapter from the charger, and then reinstall the plugs.
18. Follow the standard MRB process to return the charger.

Affected VIN(s) Affected Model S and Model X vehicles built between approximately September 20, 2017 and February 4, 2018 and sold in China.

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@tesla.com.