



# Replace Front Drive Unit to HVJB Harness

<b>Classification</b>	Campaign Bulletin	<b>Section/Group</b>	44 - High Voltage System	<b>Country/Region</b>	All
<b>Year</b>	2014	<b>Model</b>	Model S	<b>Version</b>	Dual Motor

**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 dual motor vehicles were manufactured with an HV harness assembly that does not have a High Voltage Interlock Loop (HVIL) switch.

## Correction

Replace the HV harness assembly with one that has an HVIL switch.

Required Part(s):	Part Number	Description	Quantity
	1050805-10-D	ASY, HV HARN, FR SDU, FUSED, MS, DM	1
	1021165-00-A	SCR,M6x1.0x20,PH,T30,ZnNi,PTCH	4
	1031108-00-A	P-80 EMULSION GREASE	As required

**If required:**

1011910-00-A	SCR,M6-1.0X10,SCKT PAN WSHR HD,TORX,SST	3
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**Shop supplies:**

String or fishing line

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

<b>Special Tool(s):</b>	1051629-00-B	CAP,CONN,ROSNBRGR,H4Z001-000/52 (Qty. 2)
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Correction Description	Correction	Time
Vehicle Inspection Only; HV Harness Replacement Not Required	S011544003	0.10
Replace Dual Motor HV Harness	S021544003	1.55

## Procedure

1. Release the 2<sup>nd</sup> row seat base frame (refer to Service Manual procedure 13023002).

**NOTE:** The 2nd row seat base frame does not need to be removed from the vehicle.

2. Visually inspect the inboard side of the HV cable fuse bracket:

- If there is an HVIL switch (Figure 1) connected to a 12V HVIL connector (Figure 2), no additional work is required. Reinstall the 2<sup>nd</sup> row seat base frame and discontinue this procedure.
- If the fuse does not have an HVIL switch, continue this procedure.

**NOTE:** If the vehicle does not have a 12V HVIL connector, contact Service Engineering.

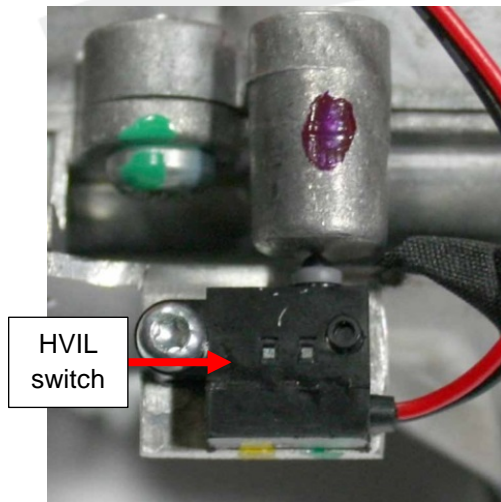


Figure 1

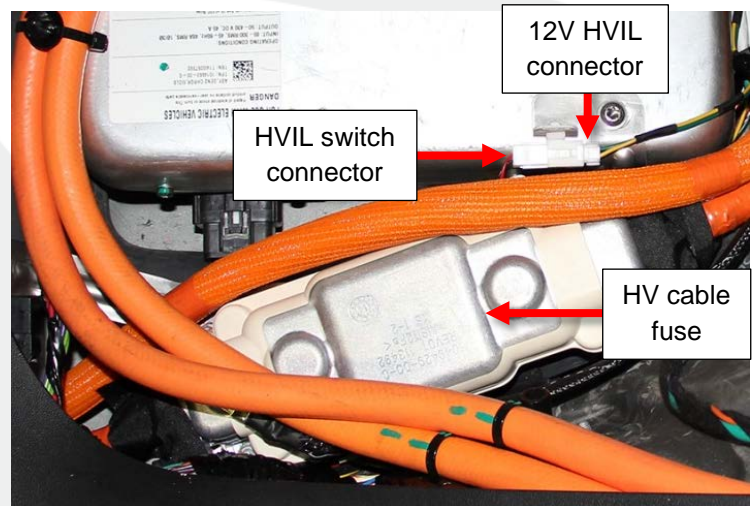


Figure 2

3. Replace the HV harness that connects the front drive unit to the high voltage junction box (HVJB) (refer to Service Manual procedure 44500802).

**⚠ WARNING:** There is no HVIL switch on the harness. Only technicians who have been trained in High Voltage Awareness are permitted to perform this procedure. Proper personal protective equipment (PPE) and insulating HV gloves with a minimum rating of class 00 (500V) must be worn any time a high voltage cable is handled. Refer to service bulletin SB-13-92-003, "High Voltage Awareness Care Points" for additional safety information.

4. Discard the old HV harness.

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### Affected VIN(s)

5YJSA1H26EFP54661  
5YJSA1H28EFP54662  
5YJSA1H2XEFP54663  
5YJSA1H29EFP54685  
5YJSA1H24EFP54710  
5YJSA1H29EFP55044  
5YJSA1H22EFP55046  
5YJSA1H20EFP55076  
5YJSA1H22EFP55077  
5YJSA1H25EFP55087

5YJSA1H29EFP55108  
5YJSA1H20EFP55109  
5YJSA1H20EFP55112  
5YJSA1H22EFP55113  
5YJSA1H24EFP55114  
5YJSA1H20EFP55126  
5YJSA1H26EFP55129  
5YJSA1H21EFP55135  
5YJSA1H23EFP55136  
5YJSA1H25EFP55137

5YJSA1H27EFP55138  
5YJSA1H29EFP55139  
5YJSA1H25EFP55140  
5YJSA1H20EFP55143  
5YJSA1H24EFP55436  
5YJSA1H20EFP57068  
5YJSA1H27EFP62655  
5YJSA1H29EFP62690  
5YJSA1H26EFP62968  
5YJSA1H22EFP63129

5YJSA1H2XEFP63525  
5YJSA1H23EFP63527

5YJSA1H29EFP63709  
5YJSA1H28EFP63734

5YJSA1H20EFP63906

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