



**Tesla, Inc.**  
Service Bulletin

## *Replace Front Drive Unit, Model S*

**SB-20-39-002**

September 8, 2020

Classification		Section/Group	Mobile Service
Model Year	Model	Country/Region	Version
Campaign Bulletin		39 - Front Drive Unit	Cannot Perform
2020	Model S	United States	All

The model(s) and model year(s) listed are a general approximation 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.

Campaign Bulletin: 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 list.

### Condition

The front drive unit contains an inverter that did not go through internal reliability testing.

### Correction

Replace the front drive unit.

Correction Description	Correction	Time
SB-20-39-002 Not Applicable	S012039002	0.00
Replace Front Drive Unit	S022039002	7.2

	Part Number	Description	Quantity
<b>Parts Required</b>	1478000-00-D	ASY, DRIVE UNIT, RAVEN, MS	1
	6001487	LABEL, TAMPER EVIDENT	1
	1039097-00-A	BOLT PF 4x9 PC88 ECOFIX SEAL	11
	1014689-00-A	MOLYKOTE M-77 PASTE	1
	1020296-00-B	WASHER SAFETY M24x39	2
	1022543-00-B	BLT,HEX,M6-1.00X30 + PATCH	4
	1004373-00-A	SCR,M6-1.0X18,BH,STL 8.8,ZNC,W/PATCH	4
	2007090-00-C	NUT HF M10x1.25 PC10 PTP COLORED	1
	1138547-00-A	BATTERY BOLTS, SERVICE REPAIR KIT, SX	1
	1037743-00-A	BOLT PF M6x40 PC109 ECOFIX	2
	1004356-00-B	NUT HFPT M14-2.00 [10] ZnNi-W	2
	1024770-00-A	O-RING, HNBR 15.22 x 2.48	1
	1024762-00-A	O-RING, HNBR 10.92 x 2.47	1
	2007059-00-B	NUT HFPT M10x1.50 [10]-ZnNi	2

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the [Parts Catalog](#).

<b>Special Tools</b>	1130279-00-A	Lifting Sling, Drive Unit
	1066521-00-A	Powertrain Table
	1096075-00-A	Hydraulic Hub Puller
	1498673-00-A	Axle Remover Cable Kit
	1122937-00-A	Cooling Hose Service Plug Kit
	1081765-01-B	Transmission Jack
	1076921-00-A	Fluke 1587 Insulation Multimeter
	1020566-00-E	HV Battery Lift Table
	1028149-00-A	HV Rapidmate Install Tool
	1026526-00-C	HV Battery Alignment Rods
	1054170-00-A	Alignment Torque Tools Kit
	1090880-00-A or 1090880-01-A	Steering Wheel Holder (Hunter or Beissbarth)

**Shop Supplies** HV glove kit

## Procedure

Replace the 2<sup>nd</sup> generation front drive unit (refer to Service Manual procedure [39013102](#)).