



## Updates to Increase Top Speed

<b>Classification</b>	Repair Bulletin	<b>Section/Group</b>	40 - Rear Drive Unit	<b>Country/Region</b>	All
<b>Year</b>	2014-2015	<b>Model</b>	Model S	<b>Version</b>	85, P85D

**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-15-40-001, dated 19-May-15. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

### Condition

Some vehicles do not have the drive unit sensor or bootloader necessary to exceed 125 or 130 mph (200 or 210 km/h).

### Correction

Upon customer complaint, check the part number of the motor speed sensor on the rear drive unit and replace the sensor, if necessary. Perform a drive unit bootloader update.

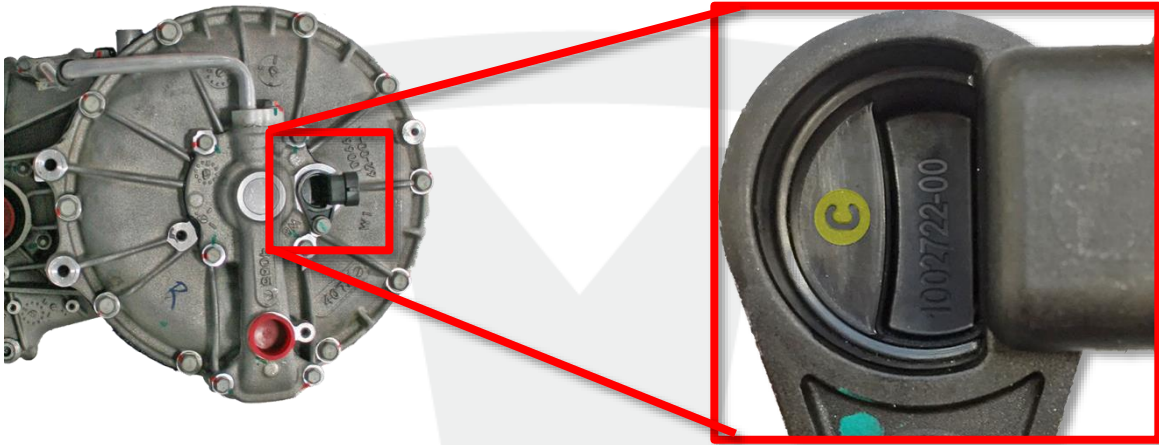
**NOTE:** There are several possible causes of reduced top speed. Perform this procedure only if directed to this bulletin by Toolbox diagnosis.

Required Part(s):	Part Number	Description	Quantity
	<b>If necessary:</b> 1002722-00-C	SENSOR ENCODER	1
	<b>Shop supplies:</b> Silicone lubricant (1010251-00-A or equivalent)		
	These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.		

Correction Description	Correction	Time
SB-15-40-001 Not applicable	S011540001	0.00
Inspect Motor Speed Sensor, Update Drive Unit Bootloader	S021540001	0.50
Replace Motor Speed Sensor, Update Drive Unit Bootloader	S031540001	0.55

## Procedure

1. Remove the mid aero shield (refer to Service Manual procedure 12030502).
2. Use a mirror or borescope to check the part number on the rear drive unit motor speed sensor (Figure 1).
  - If the part number is 1002722-00-B, replace the speed sensor with revision C or later (refer to Service Manual procedure 40102002), then continue to step 3.
  - If the part number is 1002722-00-C or later, continue to step 3.



**Figure 1 (Revision level highlighted)**

3. Connect a laptop with Toolbox 2.0 or later to the vehicle.
4. In Toolbox, select **Panels > Firmware > Drive Inverter (DI) Bootloader Update**, then follow the instructions.

**NOTE:** Do not press the brake pedal while the bootloader is being updated or the firmware is being redeployed.

**NOTE:** If the DI Bootloader Update panel is unavailable, contact Service Engineering.

5. Reinstall the components that were removed for access.

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**Affected VIN(s)** Affected Model S 85 and P85D vehicles built between approximately September 23, 2014 and February 21, 2015.

**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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