

## Anti-lock Braking System (ABS) software update and inspection

**Service Category** Service

**Section** Function Group 511

**Technician Skill Level** A

**Market** North America

### Applicability

**VOLVO**

Years	Models
2019-2023	VN

### Introduction

For certain Volvo Trucks configurations an updated adaptive cruise software has been developed. The new software will be delivered as an updated PAR file to the ABS Module and will help reduce heat load on steer axle’s brake assemblies during an adaptive cruise control braking event. Follow the instructions below to visually inspect the brake rotors on the steer axle for excessive heat damage and update the ABS software.

### Production Change Information

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	Emission Level	Starting Build Date	Ending Build Date
Volvo	D11, D13	EM-USA17, EM-USA21	07-November-2018	11-January-2023

### Warranty Information

<b>This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.</b>		
Claim Type (used only when uploading from the Dealer Bus. Sys.)		<b>B</b>
Main Labor Code	Description	Hours
9000-06-09-01	Miscellaneous, Inspection	0.3
1700-22-03-11	Campaign, Programing	0.3
<b>If applicable</b>		
5110-03-02-02	Rotor and Hub Assembly, Disc Brake, Replacement (front). X2	2.6
<b>Causal Part</b>	<b>22936956</b>	
<b>SCC Authorization Code</b>	<b>S2936</b>	
<b>Expiration Date</b>	<b>February 28, 2024</b>	

## Anti-lock Braking System (ABS) software update and inspection

### Parts Information

The below parts are only required if the inspection of the brake assembly shows excessive heat damage.

Part Numbers	Part Names	Quantity
24121370	Rotor Kit	(If applicable) 2
23649811	Pad Kit	(If applicable) 1
23873072	Gasket, hub cap	(If applicable) 2
85103823	Seal	(If applicable) 2
Varies	Approved Gear Oil	As needed
992475	Hex screws	(If applicable) 12

#### Important Part Note

Replaced parts may be required for return to TMAC. Tag all parts with the following: VIN, mileage, hours, and repair date.

### Required Tools & Equipment

- None

### Calibration Information

- See programming procedure below.

### Inspection Procedure

1. Secure truck for service.
2. Place the gear lever in neutral.
3. Install wheel chocks.
4. Perform a visual inspection of the driver and passenger side, steer axle's brake rotors. Check for excessive heat damage resulting in cracked or broken rotors, see examples below.

#### Note!

The wheels do not have to be removed to perform this visual inspection.

#### Note!

Heat checking marks are normal and do not require replacement.

## Anti-lock Braking System (ABS) software update and inspection



(Example of failed rotors)

- A. If a damaged rotor is found during the inspection, replaced the brake assemblies in accordance with step 5 and proceed to the Programing Procedure.
- B. If no damage is found during the inspection, proceed to the Programing Procedure below.

### Repair Procedure

5. Replace steer axle rotors, pads, caliper mounting bolts, and seals with new ones, following the manufacture's repair instructions.

[Service Manual](#)

### Programing Procedure

6. Connect to the vehicle using PTT.
7. Run operation **5931-07-03-20** under the Calibrate tab to update the control unit.

Note!
If you are experiencing issues running operation <b>5931-07-03-20</b> reference <b>CBR- 2042</b> on how to set up Vendor Configuration Programing (VCP).

8. Remove wheel chocks.
9. Release vehicle back to service.