


VOLVO CARS SERVICE AND PARTS BUSINESS	
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# Technical Journal

TITLE:  
**Electronic Park Brake, Not possible to get brake caliper into service position**

REF NO: <b>TJ 27500</b>	ISSUING DEPARTMENT: <b>Technical Service</b>	CAR MARKET: <b>United States and Canada</b>
PARTNER: <b>3 US 7510 Volvo Cars North America</b>		ISSUE DATE: YEAR      MONTH      DAY <b>2013          07          30</b>
FUNC GROUP: <b>5127</b>	FUNC DESC: <b>Brake caliper</b>	<b>Page 1 of 4</b>

“Right first time in Time”

**Attachment**

File Name	File Size
TJ 27500 - 1.jpg	0.0220 MB

**Vehicle Type**

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2008-9999		0000001-9999999	200720-999952
134							2011-9999		0000001-9999999	201020-999952
135							2008-9999		0000001-9999999	200720-999952
136							2008-9999		0000001-9999999	200720-999952
156							2010-9999		0000001-9999999	200835-999952

**CSC Customer Symptom Codes**

Code	Description
PK	Parking brake/No/reduced/incorrect function
WS	Parking brake/Difficult to operate

**DTC Diagnostic Trouble Codes**

Rows beginning with \* are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.



## Text

**NOTE! This Technical Journal supersedes the previous TJ 27500 dated 5/6/2013.**

PBM = Parking Brake Module

### \* DESCRIPTION:

During maintenance service/replacing rear brake pads on vehicles equipped with an Electric Parking Brake (EPB), it is required to retract the rear caliper brake pistons by a special service command in VIDA.

However it may happen that the brake pistons do not retract completely or at all, making it impossible to remove the rear brake pads from the caliper.

The condition could be caused by:

1. An electrical failure or a communication error between VIDA, the PBM and caliper actuator.
2. A seized piston, probably due to excess wear on the brake pads causing the piston to have an unsuitable angle to fit the caliper housing, which is causing a wedging / racking condition.

Note: The PBM unit shuts off electrical current to the caliper actuators if the electrical draw is above 1A for more than 5 seconds.

### PRODUCT MODIFICATION:

\* Analysis is ongoing

### MATERIAL RETURN:

None required

### VEHICLE REPORT:

Yes, include how the problem was solved, and the condition of the brake pistons.

Use concern area "Vehicle Report" and sub concern area "Support not Needed" and Function group 5127.

### \* SERVICE:

If the actuators do not respond from VIDA command (there is no sound from actuator), then try the following:

- *Release the electric parking brakes by using the special release tool PN 3513014 (see picture), which will override the PBM control unit.*
- *If the special tool is not available: close all doors, lock the car, wait at least one minute, unlock the car, open one door and try again with VIDA activation,*
- *Repeat the above if necessary.*



If the actuator starts to retract the caliper pistons, but stops before the pistons are fully retracted, try the following:

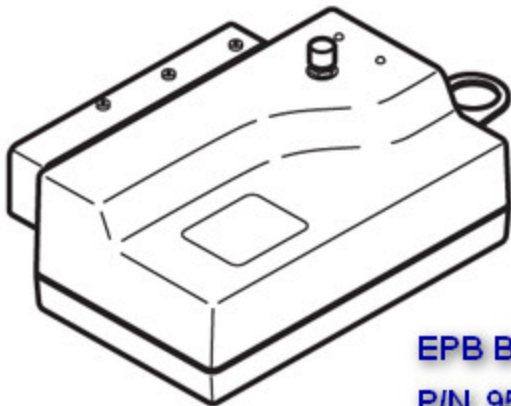
- *Blow the caliper/actuator clean using high pressure air.*
- *Remove the actuator from the caliper housing by loosening the two screws.*
- *Check if the caliper activation shaft has been rewound. If necessary manually screw the activation shaft back counterclockwise by using a suitable torx screw driver*
- *Reinstall the actuator to the caliper.*
- *Push the piston into caliper housing all the way once the activation shaft is fully returned.*

**Volvo Standard Times Guide (VSTG) OPERATION NUMBER:**

96380-2 Troubleshooting parking brake                      0.2hrs

**To view TJ attachment continue to next page. This TJ has 1 attachment.**

TJ 27500



EPB Box

P/N 9513014

