



Technical Journal

TITLE:

Parking brake (EPB), Not possible to get brake caliper in service position

REF NO: TJ 27500.6.0	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada	
PARTNER: 3 US 7510 Volvo Car USA		ISSUE DATE: 2016-07-08	STATUS DATE: 2016-07-14
FUNC GROUP: 5127	FUNC DESC: Brake caliper	Page 1 of 4	

“Right first time in Time”

Attachment

File Name	File Size
TJ 27500.MP4	2.6553 MB
TJ 27500 - 1.jpg	0.0220 MB
TJ 27500 - 2.jpg	0.0302 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2008-2016		0000001-0200260	200720-201614
134							2011-9999		0000001-9999999	201020-999952
135							2008-9999		0000001-0377263	200720-999952
136							2008-2016		0000001-0274097	200720-201619
137							2016-9999		0000019-9999999	201524-999952
138							2016-9999	36	0000122-9999999	201345-999952
155							2015-9999		0000001-9999999	201348-999952
156							2010-9999		0000001-9999999	200835-999952
157							2015-9999		0000022-9999999	201450-999952

CSC Customer Symptom Codes

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



VST Operation Number

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
PBM	C200577	Intermittent
PBM	C200677	Intermittent
PBM	C200671	Intermittent
PBM	C200571	Intermittent

Rows beginning with * are modified

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

Text

DESCRIPTION:

* This journal is re-written in its entirety.

If the vehicle is equipped with electrical parking brake (EPB) it is required to retract the rear caliper brake pistons by a special service command in VIDA when replacing the rear brake pads.

It may happen that the brake pistons does not retract at all, or does not retract completely, which make it impossible to remove the rear brake pads from the caliper due to one of the following reasons:

- An electrical failure or a communication error between VIDA and PBM and caliper actuator.
- 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 causing a wedging / racking condition.

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

Note: Vehicles with EPB can be identified with VDN code NE02.

PBM= Parking Brake Module

EPB= Electronic Parking Brake

DTC=Diagnostic Trouble Code

SERVICE:

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

- Release the EPB by using the tool PN 9513014 (see picture #1), which override PBM control unit.
- If the tool is not available, try to close all doors, lock the car, wait at least one minute, unlock the car and open one door and try again with VIDA activation, repeat if necessary.
- Fault trace any DTC's according to VIDA (including wires/terminals etc)



If the actuator start to retract the caliper pistons, but stops before the pistons are fully retracted, then try this:

- Blow clean the caliper/actuator with high pressure air.
- Remove the actuator from caliper housing by loosening the two screws.
- Check the caliper to see if the activation shaft has been rewinded, if necessary manually screw back the activation shaft clockwise by using a suitable torx screw drive (refer to video file #2).
- Reinstall the actuator to the caliper.
- Push the piston into caliper housing all the way once the activation shaft is fully returned. Note: if needed use special tool 9995782 (refer to picture #2).

Note: Replacing the rear brake pads before they are totally worn down will reduce the risk for having a seized caliper piston.

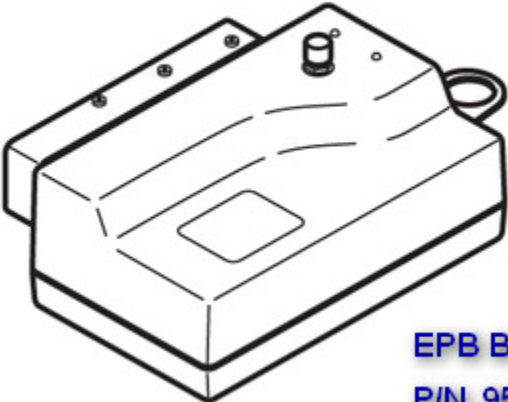
VEHICLE REPORT:

No.

To view TJ attachments continue to next page. This TJ has two attachments and one video posted separately.



TJ 27500



EPB Box
P/N 9513014

