

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

No: TJ 27500.6.0
Func Group: 5127
Func Description: Brake caliper
Partner: 3 US 7510 Volvo Cars North America
Issue Date: July 08, 2016

Vehicle Type

Type	Model Year	Plant	Chasis 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

Customer Symptom Codes (CSC)

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

Diagnostic Trouble Codes (DTC)

Code	Description	Fault Type
PBM	C200577	Intermittent
PBM	C200677	Intermittent
PBM	C200671	Intermittent
PBM	C200571	Intermittent

Description:

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 piston does not retract at all or does not retract completely, which makes 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 causes a wedging/racking condition.

NOTE

The PBM unit shuts 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 actuator does not respond from VIDA command (there is no sound from actuator), then try this:

- Release the EPB by using the tool PN 9513014 , which overrides 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 DTCs according to VIDA (including wires/terminals etc.).

If the actuator starts 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 rewound, if necessary manually screw back the activation shaft clockwise by using a suitable torx screw drive (refer to the TJ for video).
- 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 image on right).

NOTE

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

