

Uncontrolled Copy

ID # CBR-2447

Version 2

Title

Electronically Controlled Suspension (ECS) Calibration for Liftable Axles - VN (4) - PR (4)

Abstract

Electronically Controlled Suspension (ECS) calibration using Premium Tech Tool (PTT) is required to correct discrepancies between the cluster load indicator and actual scale values, ensuring proper functionality of liftable axles and preventing unintended axle behavior.

Content

Published 9 July 2025

Valid For

Volvo Chassis - VN (4)

Mack Chassis - PR (4)

Model Year 2025 to current

Summary:

It may be possible for the cluster load indicator value to appear higher than their scale values. While this may be a nuisance for drivers, it can also affect the intended behavior of trucks equipped with liftable axles controlled by the ECS system.

Recommended Action:

If this issue is observed, perform ECS calibrations using Premium Tech Tool (PTT) following the steps below for optimal accuracy:

1. Ensure the vehicle is bobtail and parked on level ground before calibration.
2. Perform the rear calibration first by selecting **Level Sensor Calibration** in PTT.
3. Set the vehicle to drive level using the dash-mounted switch.

 Live UI form the front calibration last by selecting **Load Sensor Calibration** in PTT.

After completing these steps, the displayed load indicator values should more closely align with actual scale values.

Additional Information:

Liftable axle(s) are designed to shift weight from the front end in cases of an axle overload. If the ECS detects an overloaded front end, the liftable axle(s) may lower or fail to lift. Recalibrating the ECS may be necessary if, for example, a bobtail truck does not lift the liftable axle in automatic mode.

Tags

volvo	vn4	vn 4	weight	load	mack
pr4	pr 4				

Categories *

- Make and Model > Volvo > All-New VNL - VN (4)
- Make and Model > Mack Americas > PR (4) - Pioneer
- Vehicle System > Suspension and Steering