



Published: 15 May 2025

Suspension-Safe Basic Operating Manual



Version 250515-2-1

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1 Introduction

The Suspension-Safe system is designed to alert the driver if the suspension is raised above the configured ride height and therefore presents an increased risk of bridge strike.

An alert box is positioned on the front bulkhead offside front pillar at a height to be within the drivers mirror eye line.

Alerts include an Amber strobe and a voice sounder which emits a spoken warning. (May vary dependent on contract and requirements)

2 System Description

The system is powered independently by a 12V battery on the trailer which is trickle charged when the 24N is connected and supplying power. A voltage meter for this battery can be seen on the alert box on the front of the trailer.

The system is armed when a pressured red airline is coupled. It is unaffected by the ISO 7638 (EBS) coupling.

A sensor arrangement is fitted to the mid axle.

3 Logic

If the red line is connected and the sensor(s) detect that the suspension is raised above a ride height threshold for 5 seconds or more consecutively, the system triggers both the strobe and alert sounder. As the battery is independent of EBS power, this will always trigger provided the battery has sufficient power and the red airline is coupled correctly.



Note:

In the event that the suspension is being manually raised above ride height for the purpose of loading or unloading, the connection of a powered Anderson lead (to power a lifting deck or tail-lift) will disable this system. Disconnection of the Anderson lead will re-enable the system.

4 Remedial action

If the alert is active, the driver **must** take action to reduce suspension height. The driver must not assume that it will reset to ride height automatically. Suspension control buttons are located externally on the nearside and internally inside the rear closure. The driver must lower the suspension until the alert stops. A reset-to-ride button is placed next the suspension raise/lower buttons which, when pressed, should return suspension to the correct ride height.

5 Important

If the alert is active, the trailer meets the minimum conditions to move and the suspension is raised above a safe ride height. **Do not continue transit** when the alert system is active.