



Prevent rollaways

Parking Brake Safety System, Manufactured by TVG

Recently developed, the new generation TVG Parking Brake Safety System is a significant step forward in parking safety. An industry first, this patent pending system measures the force applied when applying the parking brake. Compared to existing systems where the driver is subjected to a repetitive automated reminder, this new system will only ever voice a reminder if the parking brake is not fully applied - so it is possible you may never hear the reminder!

How it works

The system comprises of two parts; an electronic control module and a mechanical sensor. The electronic module is the brains and monitors both the driver door and handbrake lever. The mechanical sensor measures the amount of force applied on the parking brake cable assembly. There will be zero force when the parking brake is off and actual force when the parking brake is correctly applied. The mechanical sensor has been set to change state to signal 'brake on' only when there is sufficient force applied to the parking brake system, ensuring the parking brake is fully applied, even if parked on an incline or decline.

Operation example:

1. The driver arrives at their destination, parks the vehicle and should have applied the parking brake before exiting.
2. The electronic module detects the door opening and immediately checks the status of the mechanical sensor. The mechanical sensor will be outputting a reading that the electronic module will reference against a known amount of force required to hold the vehicle firm when parked.
3. If the electronic sensor detects the force applied to the parking brake has not reached the threshold, then an immediate audible alert will sound prompting the driver to fully apply the parking brake to a point where the force exceeds the minimum threshold. The alert will then stop sounding.



Benefits include:

- ✓ Driver friendly system - only sounds when parking brake isn't fully applied
- ✓ Clear audible warnings, loud enough to be heard above surrounding noise
- ✓ Improves the safety of your drivers, on-site workforce and members of the public
- ✓ Compatible with most major vehicle manufacturer makes and models
- ✓ Saves costs by preventing expensive vehicle and property damage along with associated downtime, administration and insurance claims

Developed in
partnership with
Royal Mail



Royal Mail has trialled the safety system on four Peugeot Partners for nearly one year with no recorded incidents on these vehicles, feedback from the operators/drivers has been positive and is viewed as a leap forward in safety when compared to the current parking brake warning systems. The system has been stress tested and bench trialled to 500,000 operations, after which the system performance was unchanged from new.



thevehiclegroup.com



0345 0 60 50 40



info@thevehiclegroup.com

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