



Driver Manual

Making a trucker's life easier



**My name is Chuck!
I will advise you on how
to handle the following
situations correctly
and with ease:**



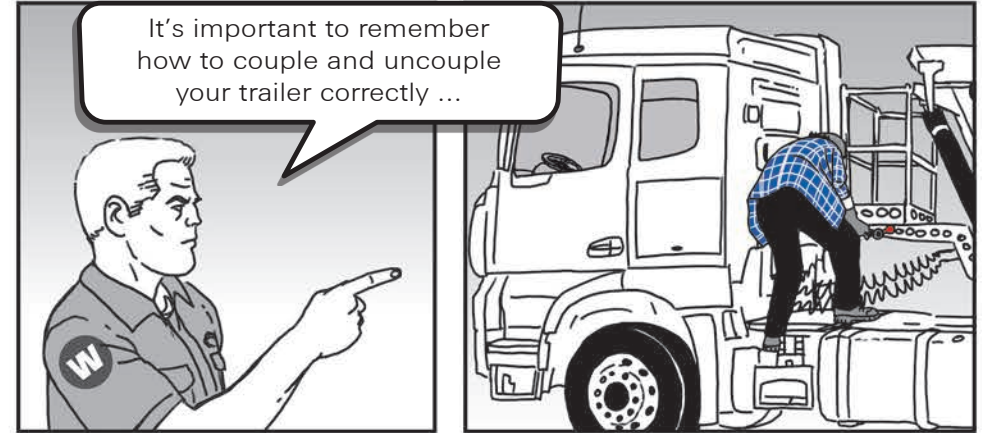
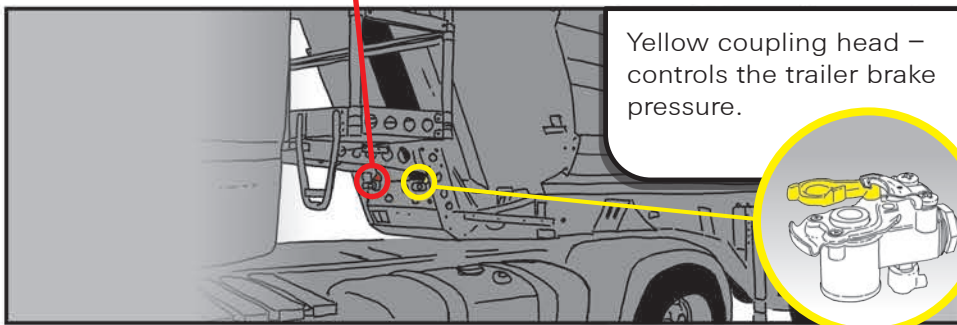
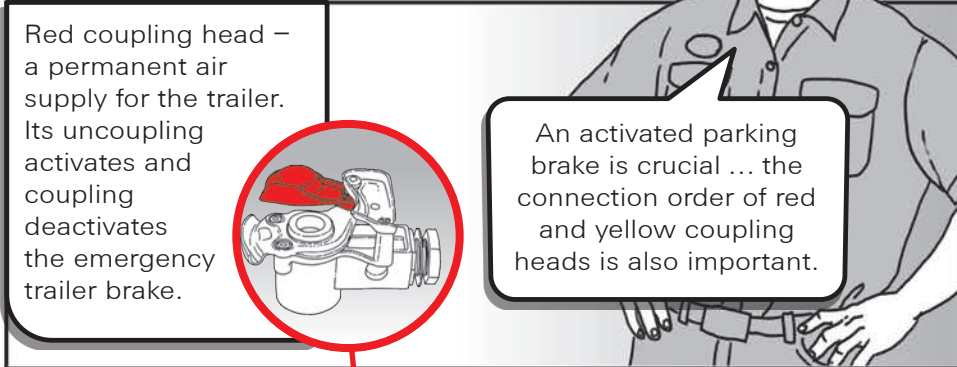
- 1** Correct coupling and uncoupling the trailer to avoid an accident
- 2** Managing a hill-start, or a slippery slope (Traction Help function)
- 3** Managing the challenges of small roundabouts and sharp turns (OptiTurn function)
- 4** Avoiding trailer overloading (Axle Load indication)
- 5** Avoiding the risk of loading dock damage due to trailer bounce (Bounce Control function)
- 6** Recognizing electronically controlled & conventional air suspension
- 7** Conventional air suspension – trailer height correction (TASC/RSV function)
- 8** Electronically controlled air suspension – trailer height correction (ECAS/eTASC function)
- 9** Storing the most common trailer height levels in memory (Memory Level function)
- 10** Changing the trailer height from the truck cabin (remote control devices)
- 11** Ensuring your trailer is parked securely (Immobilizer activation)
- 12** Coupling a truck to a parked trailer with an activated immobilizer (Immobilizer deactivation)

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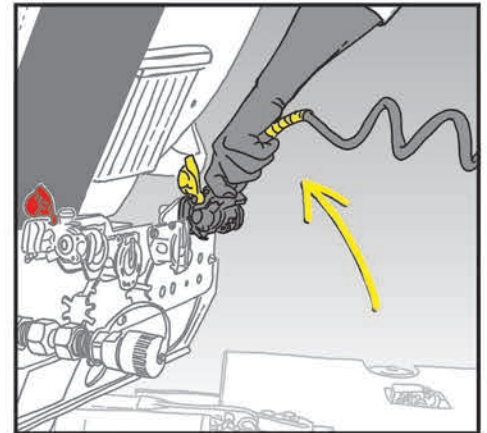
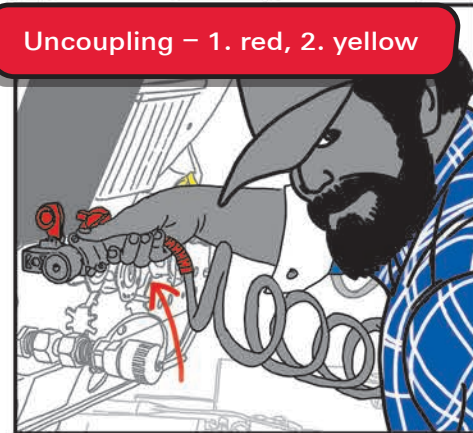
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1

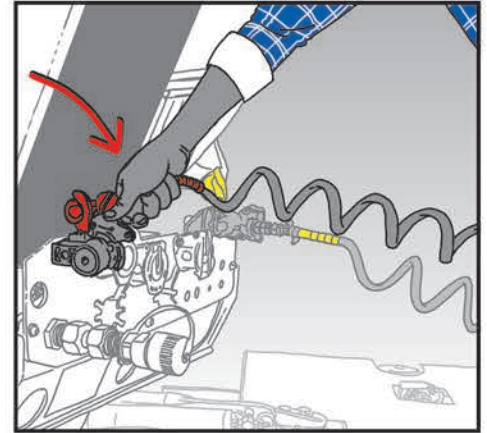
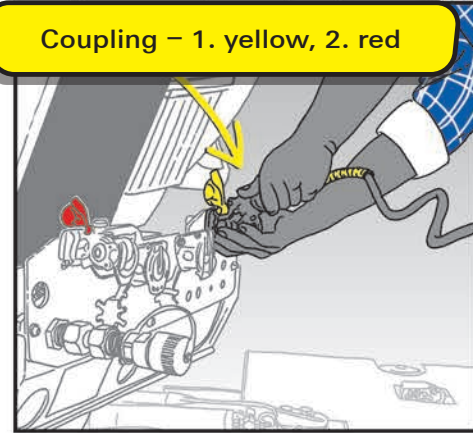
Correct coupling and uncoupling the trailer to avoid an accident



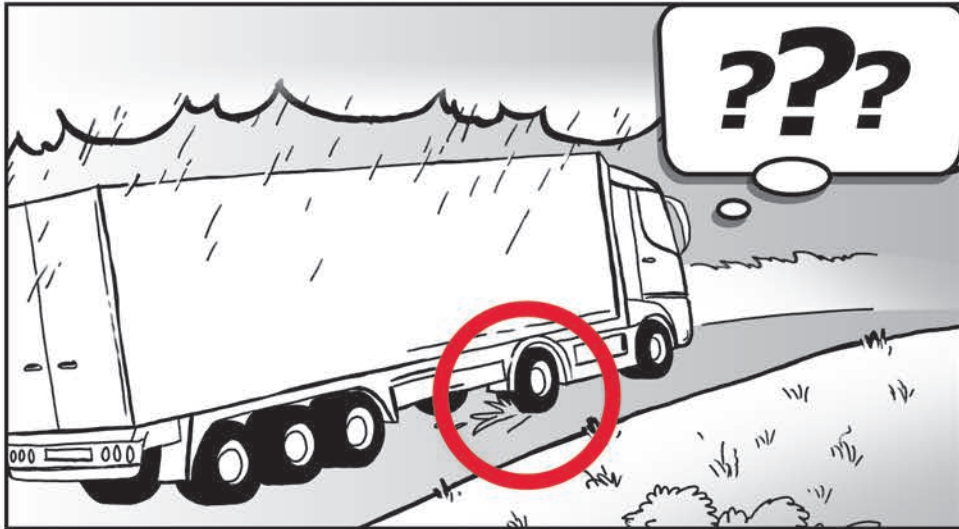
Uncoupling – 1. red, 2. yellow



Coupling – 1. yellow, 2. red



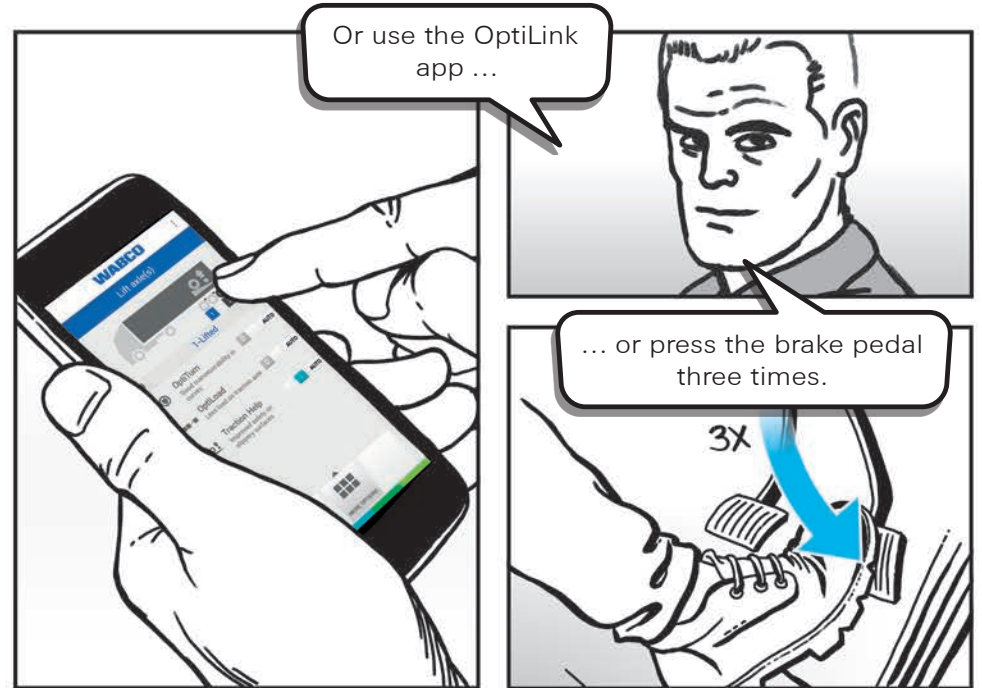
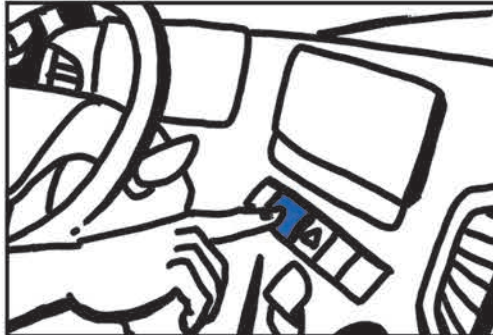
2 Managing a hill-start, or a slippery slope (Traction Help function)



Traction Help can assist – it's activated in several ways ...

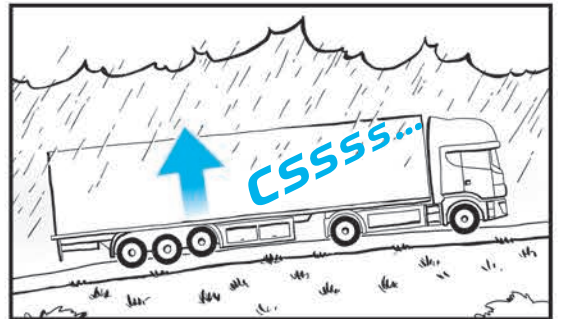


Push the 'Traction' button,

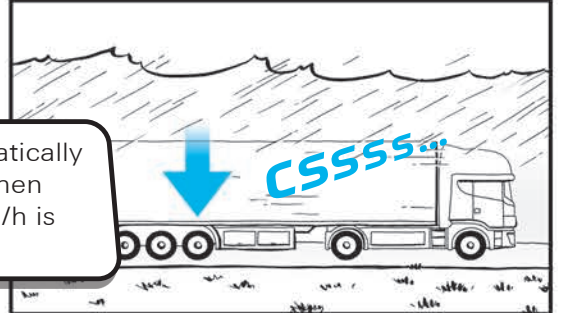


Two things to remember ...

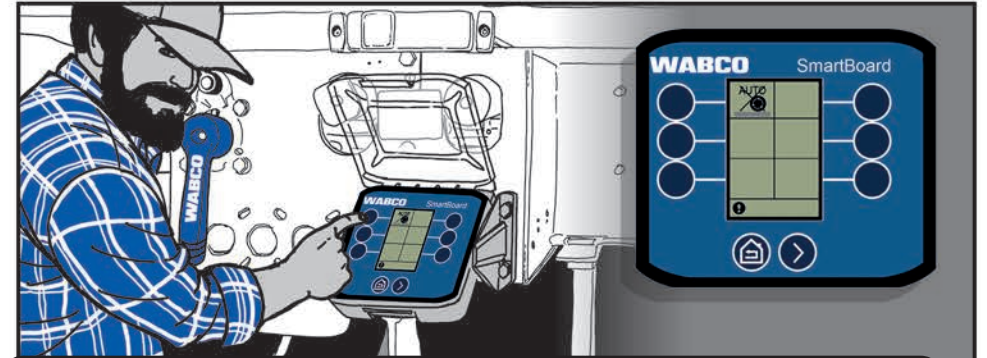
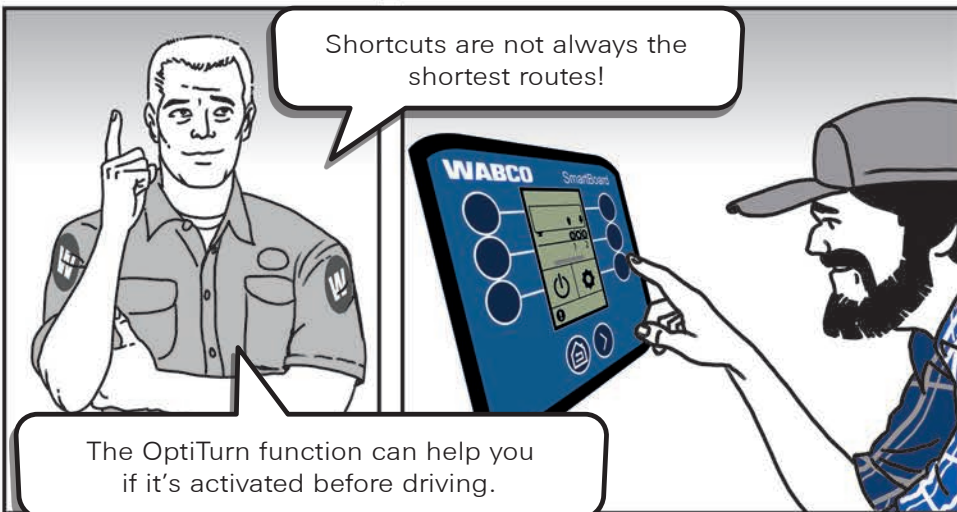
Traction Help won't be effective if the trailer is overloaded!



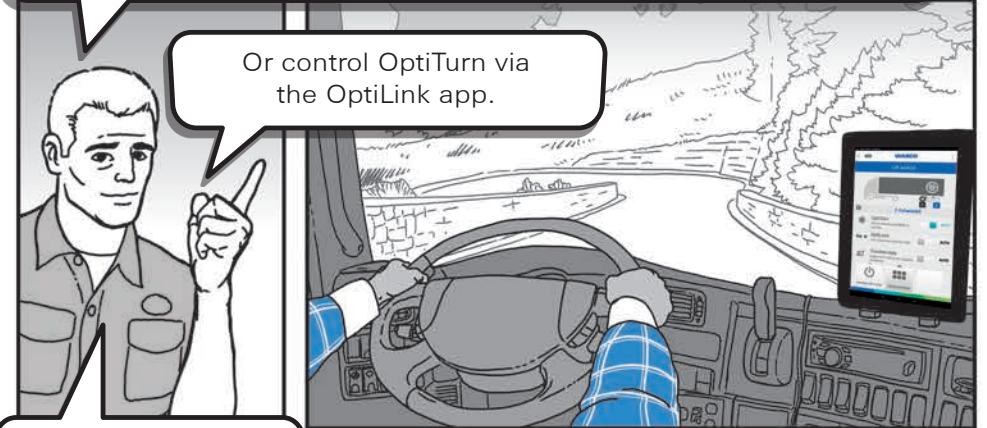
The lift axle automatically lowers again when a speed of 30km/h is reached.



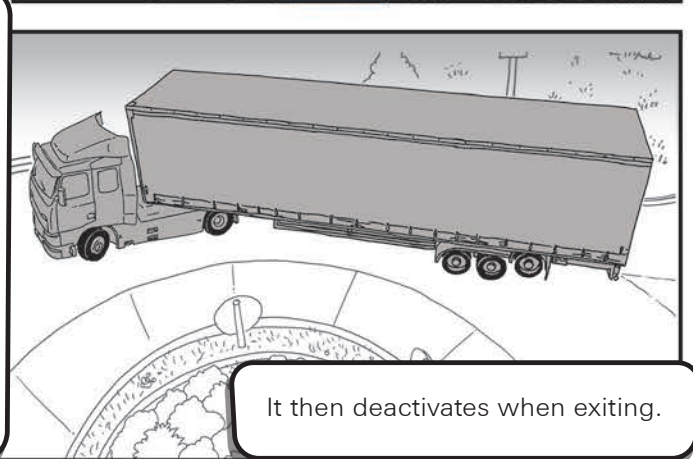
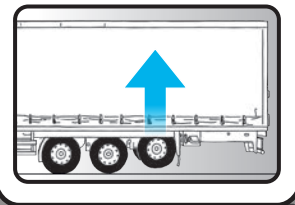
3 Managing the challenges of small roundabouts and sharp turns (OptiTurn function)



The AUTO function for OptiTurn must be activated in SmartBoard. If it's not, as you see here, simply push the button to change it.



The OptiTurn function is activated automatically when entering a roundabout or sharp turn ...

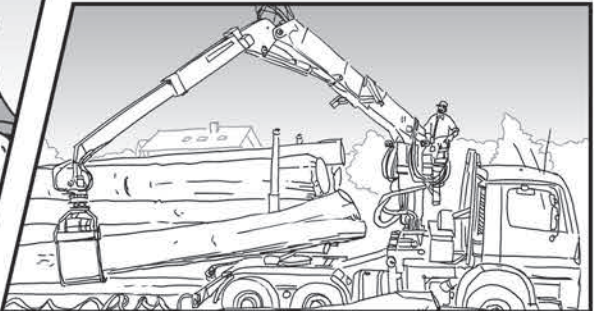


It then deactivates when exiting.

4

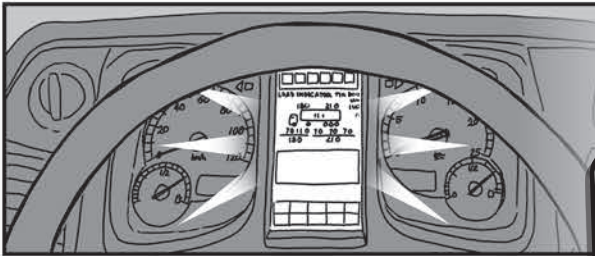
Avoiding trailer overloading (Axle Load indication)

Controlled loading helps boost safety as well as saving operational costs.



First, release the brake! It's necessary for getting the correct loading values.

If you remain in the cabin, it's recommended that the hand brake is moved to the control position – it's safer as a single hand brake release.

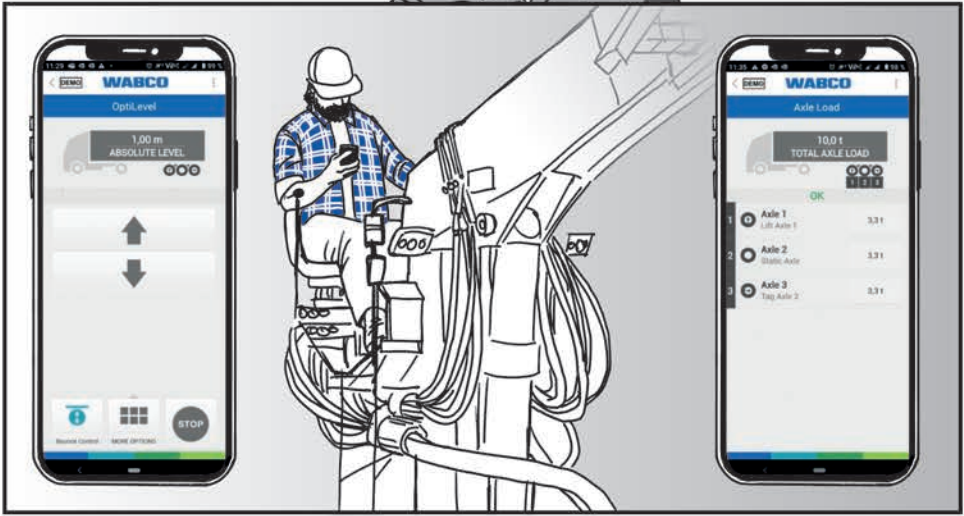


Wait a moment and then check loading values on the dashboard.

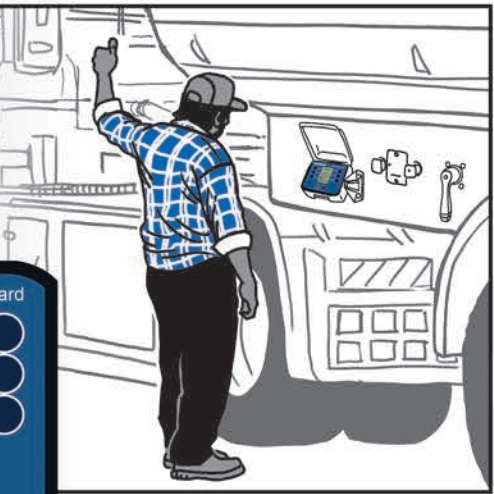
You can use also OptiLink app to release the brake by Bounce Control activation



... and check the loading values there.



Or use a SmartBoard to activate Bounce Control first

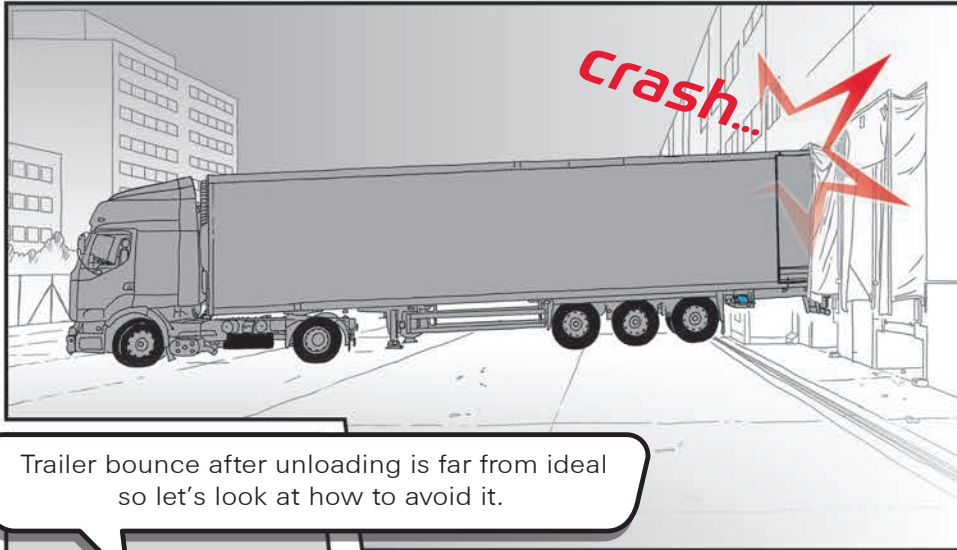


... and check the values.



5

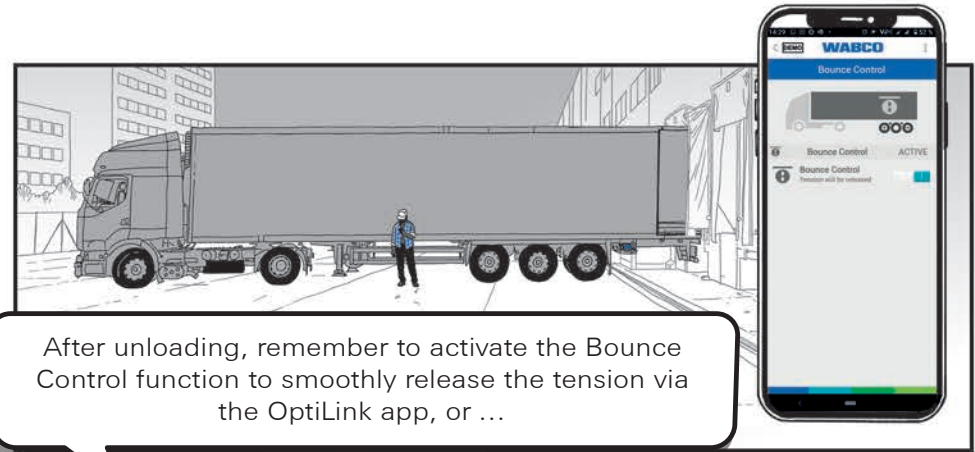
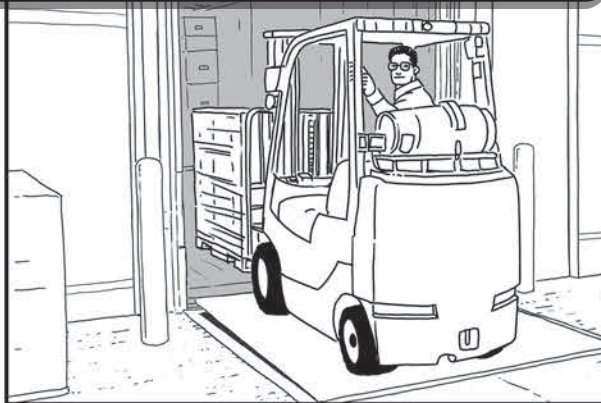
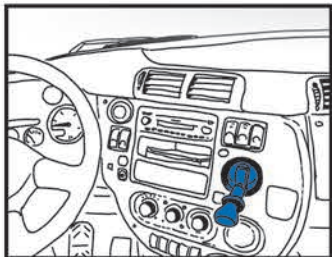
Avoiding the risk of loading dock damage due to trailer bounce (Bounce Control function)



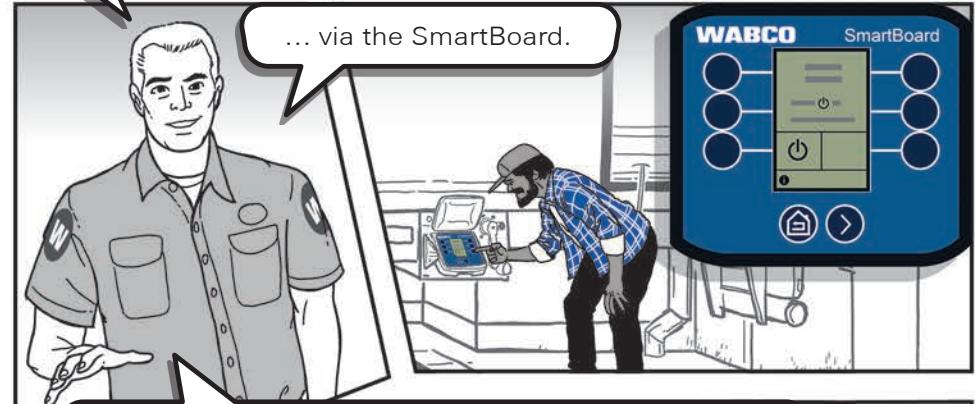
Trailer bounce after unloading is far from ideal so let's look at how to avoid it.



During unloading, the parking brake is activated so tension is created in the suspension system. This causes the trailer to bounce when the brake is released.



After unloading, remember to activate the Bounce Control function to smoothly release the tension via the OptiLink app, or ...



... via the SmartBoard.

Now, simply release the parking brake and go! Bounce Control will be automatically deactivated.



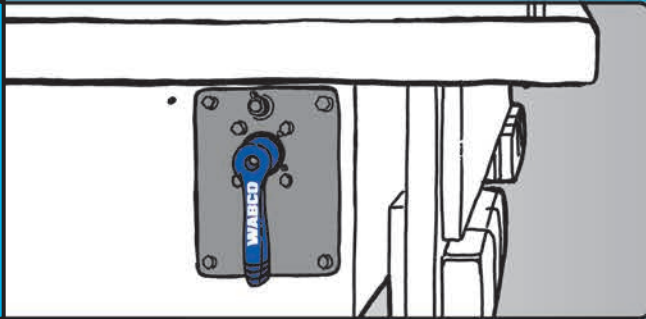
Recognizing electronically controlled & conventional air suspension



Check which device you have.

Devices used with Electronically Controlled Air Suspension

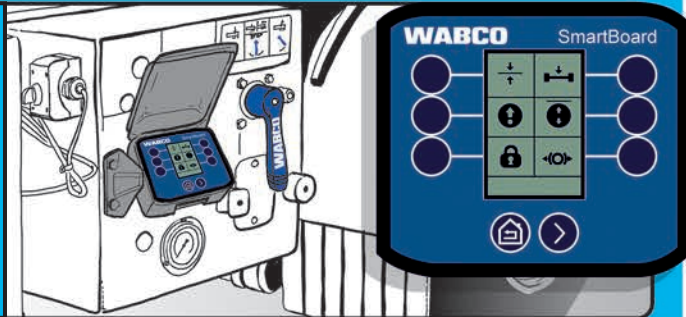
This is eTASC which I call 'WABCO Blue lever'.



This is an ECAS box which may or may not have a WABCO Blue lever.

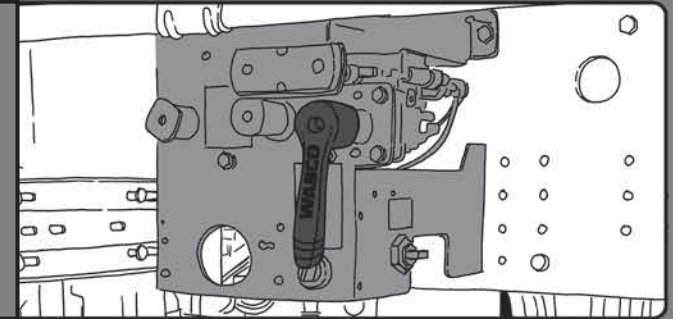


Here is a SmartBoard together with a WABCO Blue lever. They can stand-alone too.

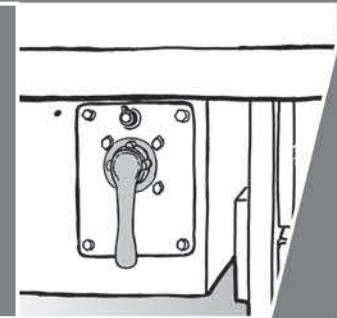


Devices used with conventional air suspension

This is TASC which I call 'WABCO Black lever'.



This is a Rotary Slide Valve or simply Aluminum lever.



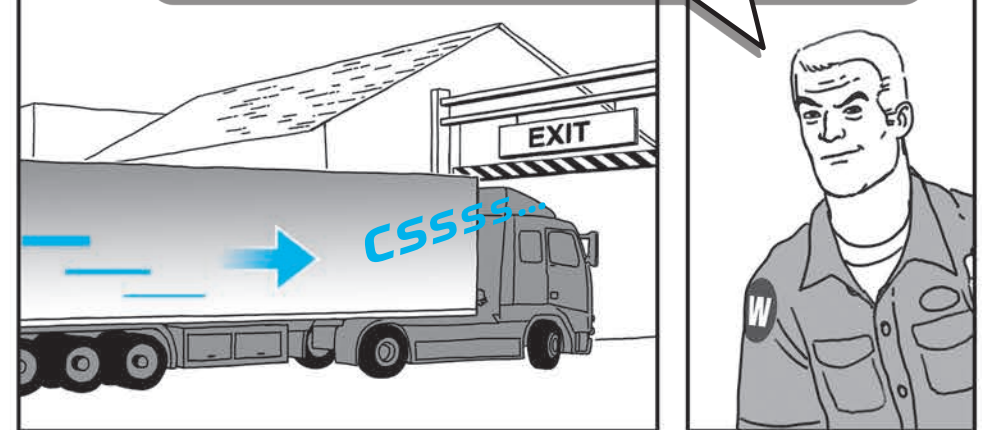
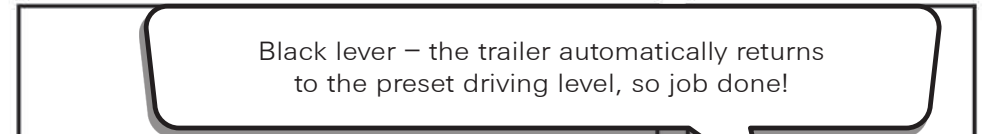
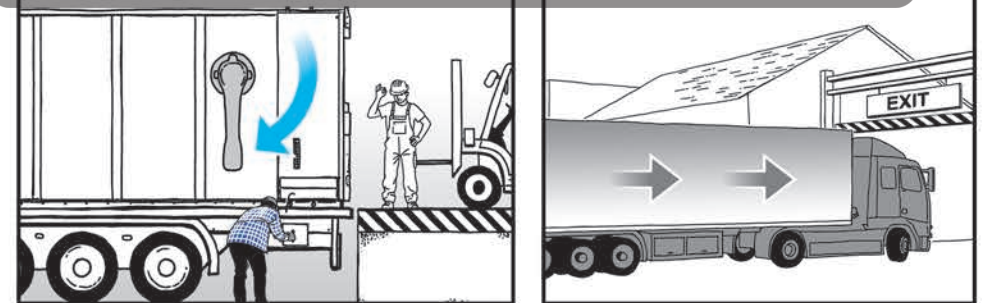
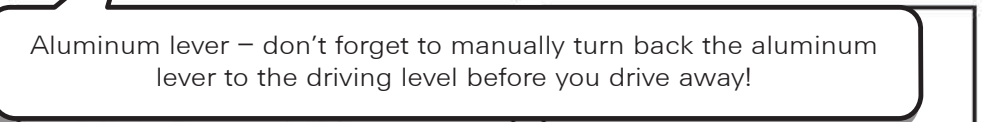
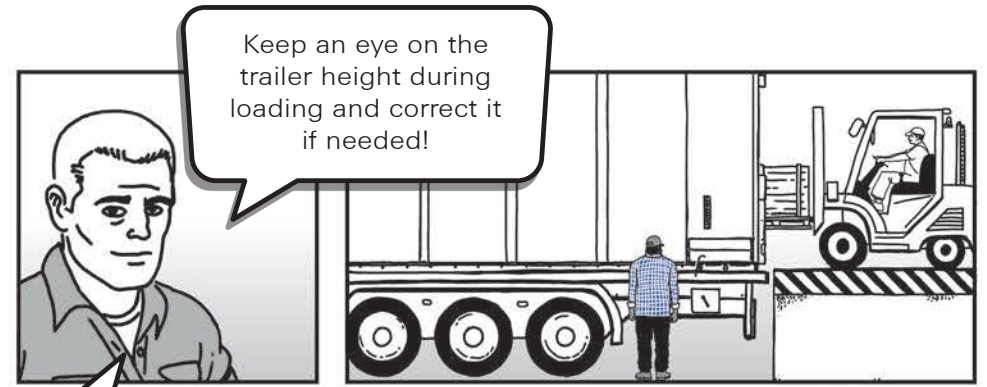
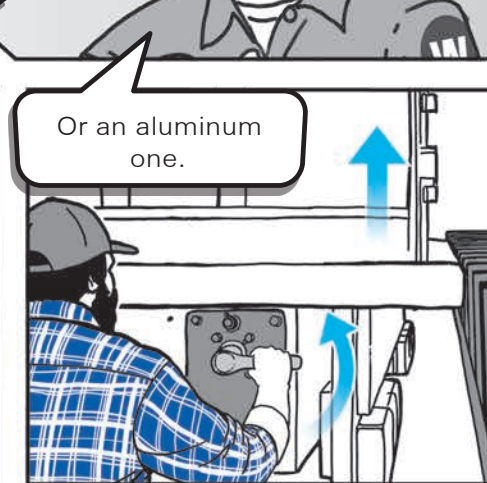
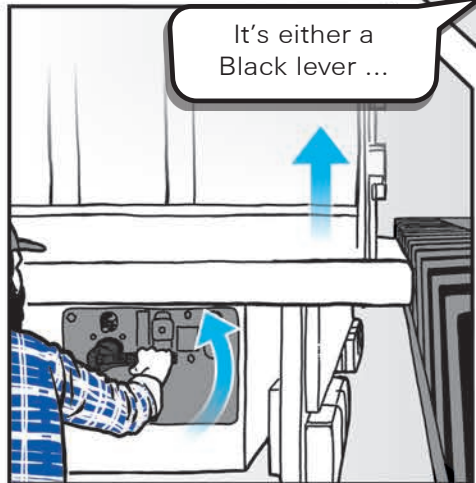
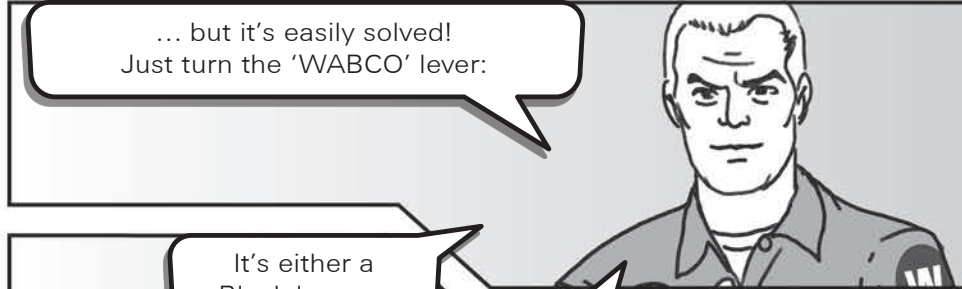
But you will not find this icon there!



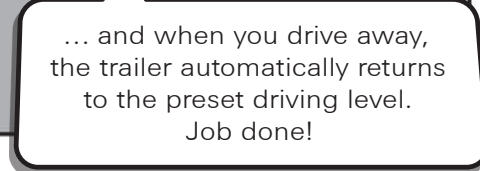
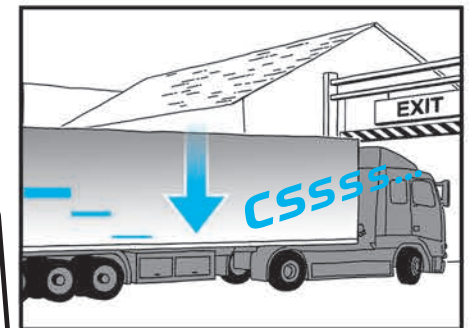
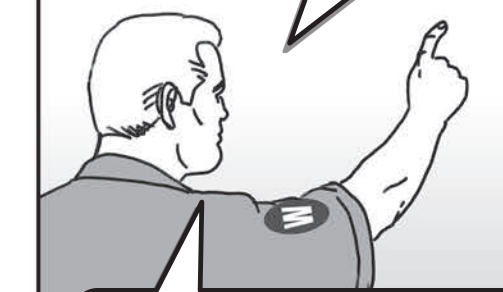
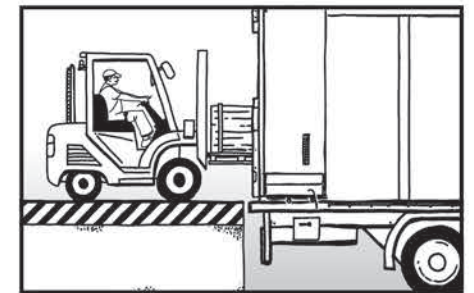
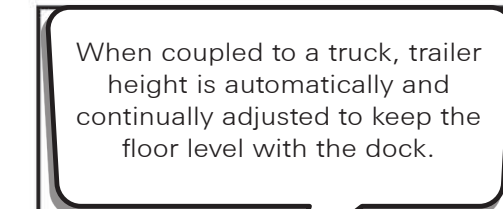
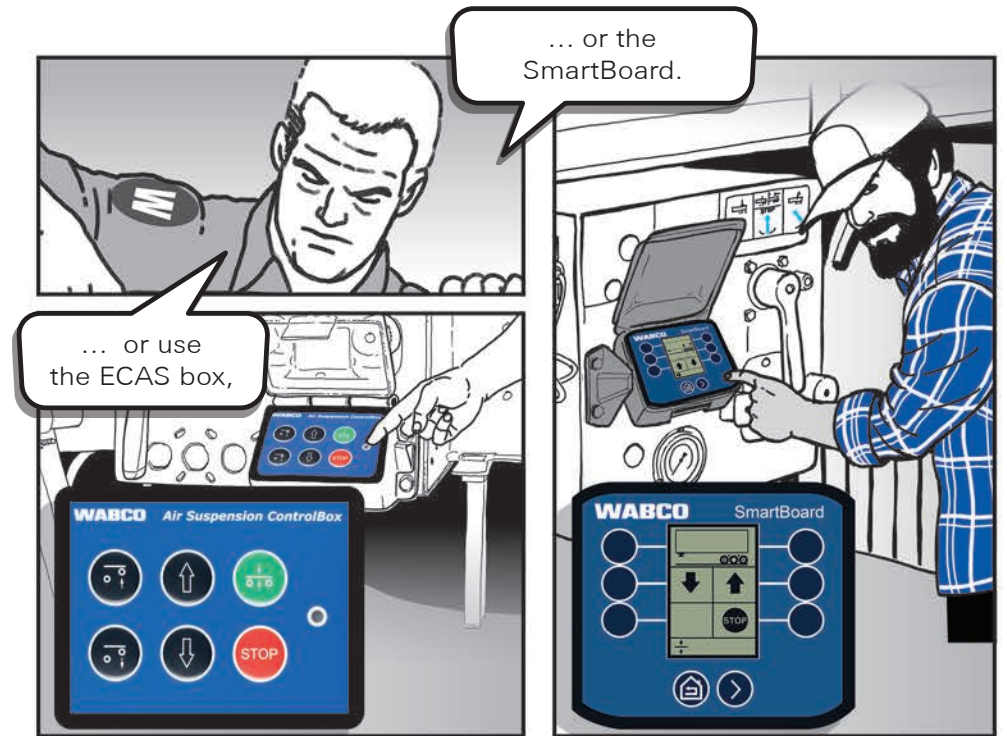
Remember! SmartBoard can also be used with conventional air suspension.



7 Conventional air suspension – trailer height correction (TASC/RSV function)



8 Electronically controlled air suspension – trailer height correction (ECAS/eTASC function)

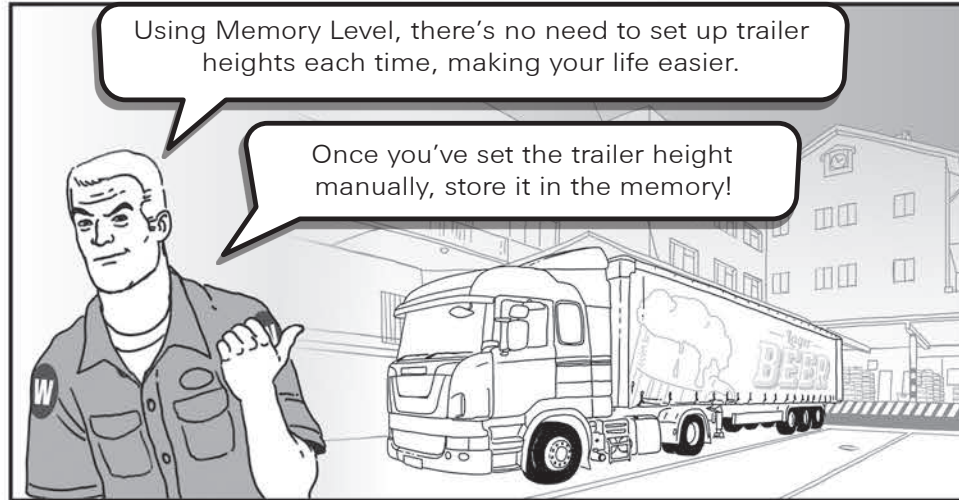


9

Storing the most common trailer height levels in memory (Memory Level function)

Using Memory Level, there's no need to set up trailer heights each time, making your life easier.

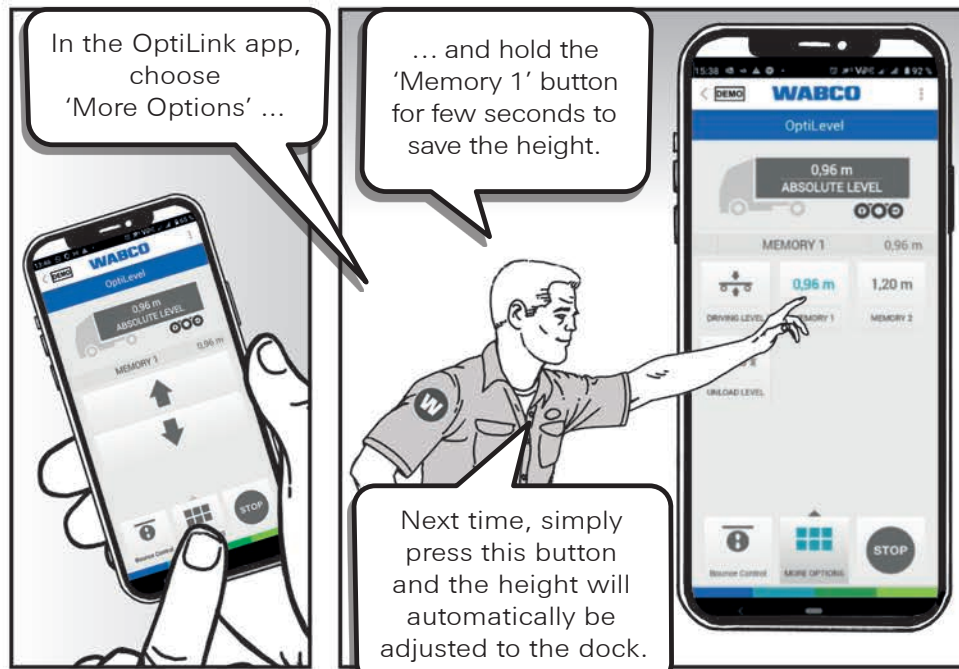
Once you've set the trailer height manually, store it in the memory!



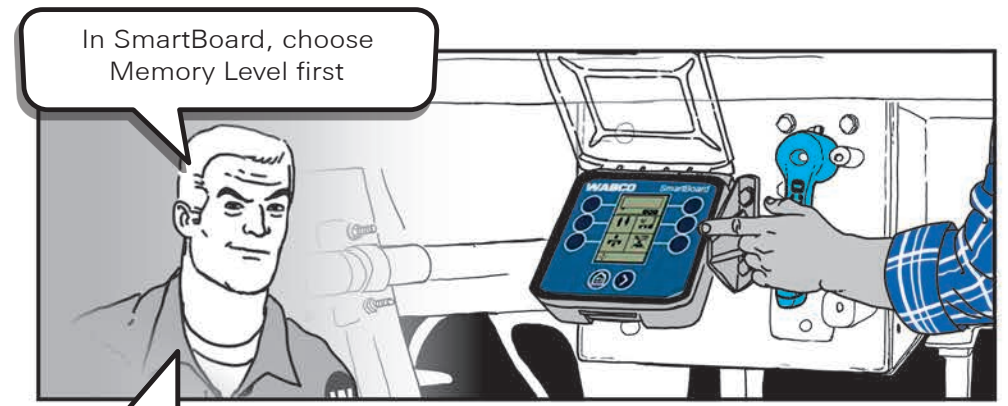
In the OptiLink app, choose 'More Options' ...

... and hold the 'Memory 1' button for few seconds to save the height.

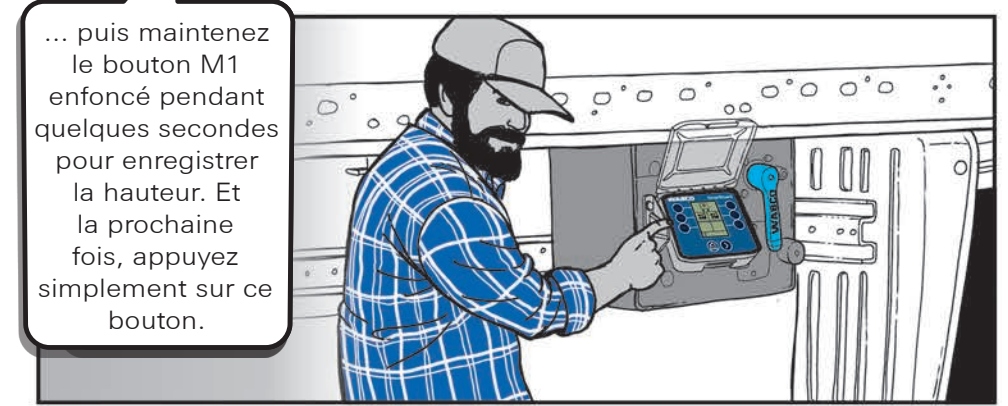
Next time, simply press this button and the height will automatically be adjusted to the dock.



In SmartBoard, choose Memory Level first

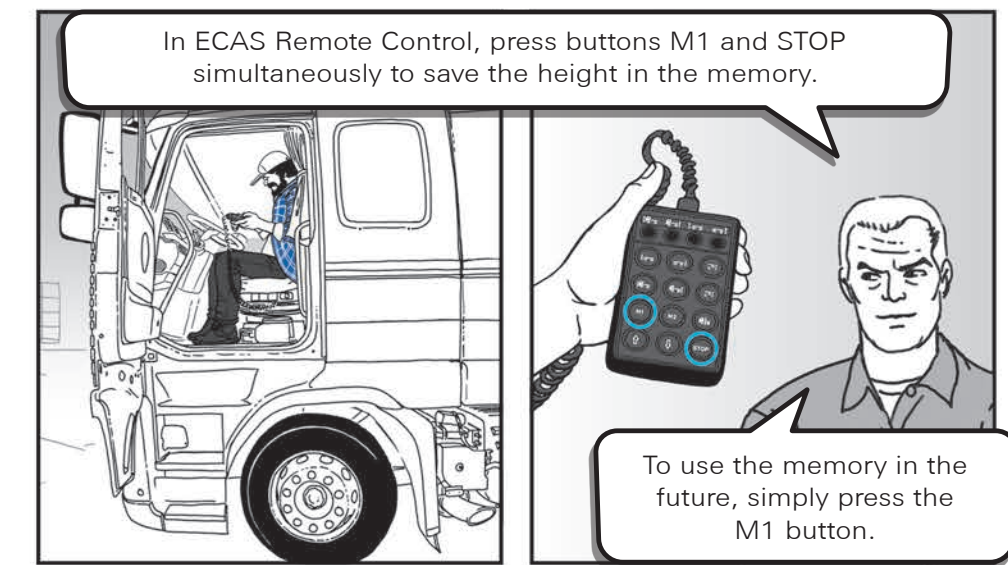


... puis maintenez le bouton M1 enfoncé pendant quelques secondes pour enregistrer la hauteur. Et la prochaine fois, appuyez simplement sur ce bouton.

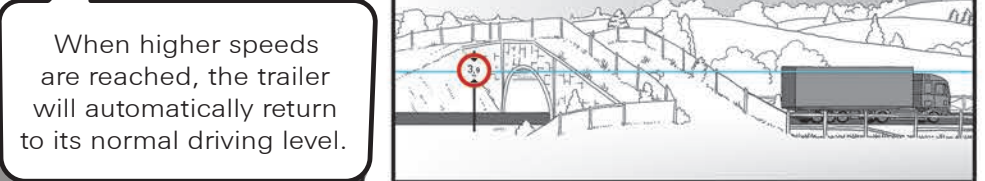
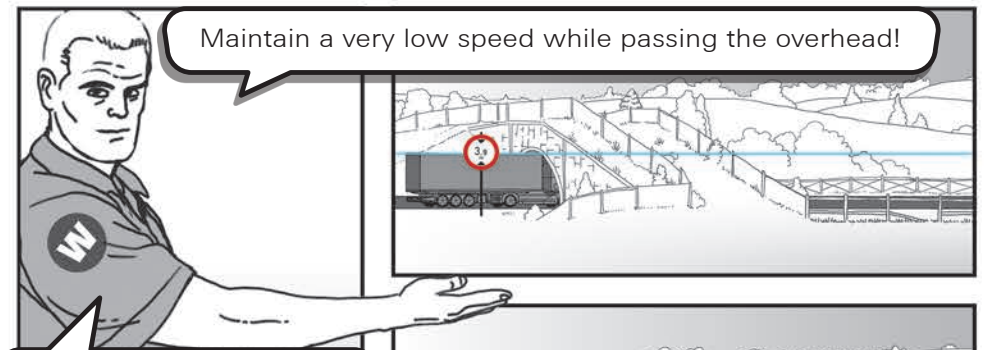
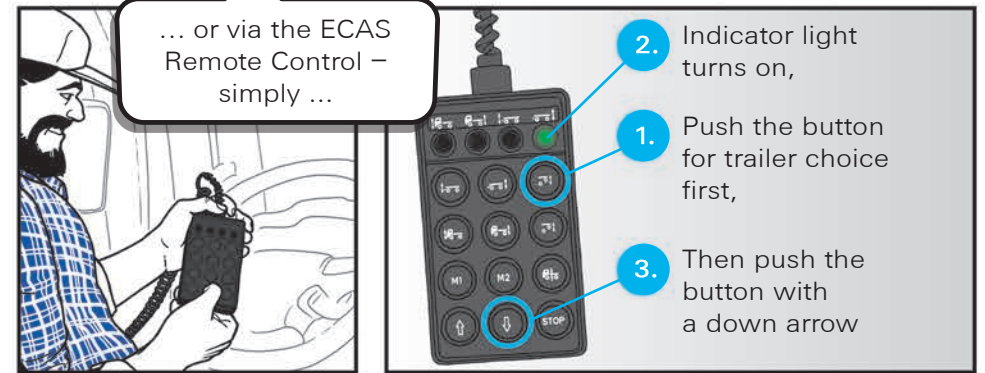
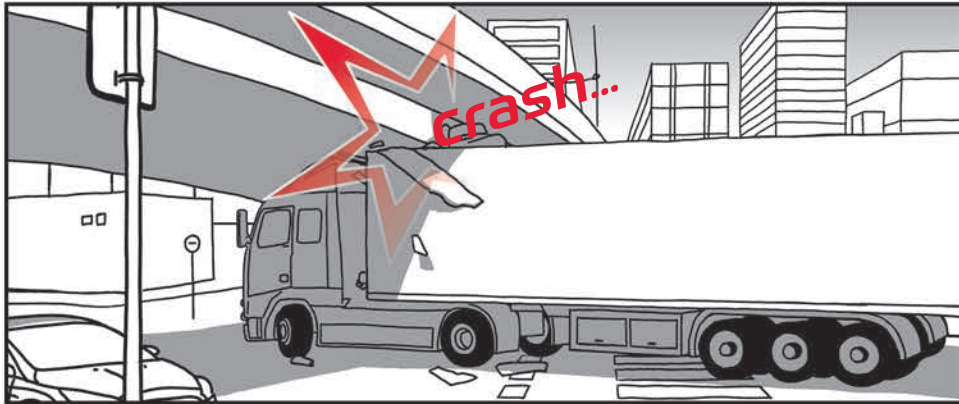


In ECAS Remote Control, press buttons M1 and STOP simultaneously to save the height in the memory.

To use the memory in the future, simply press the M1 button.

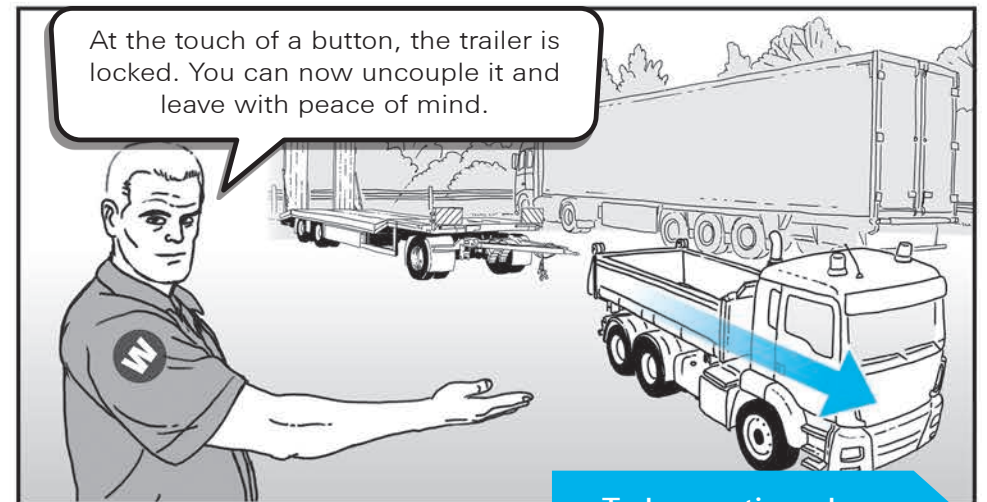
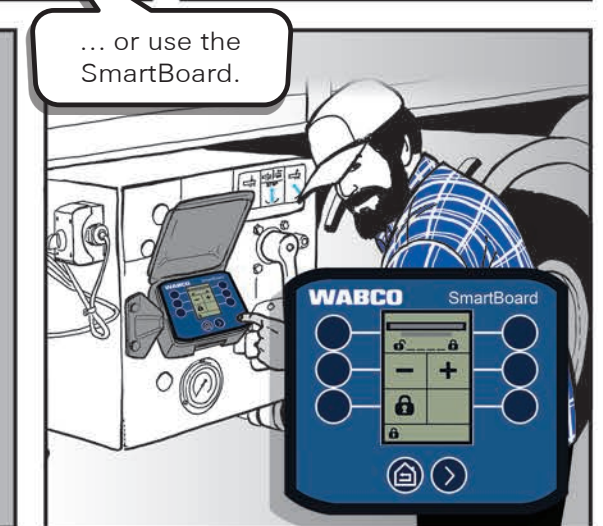
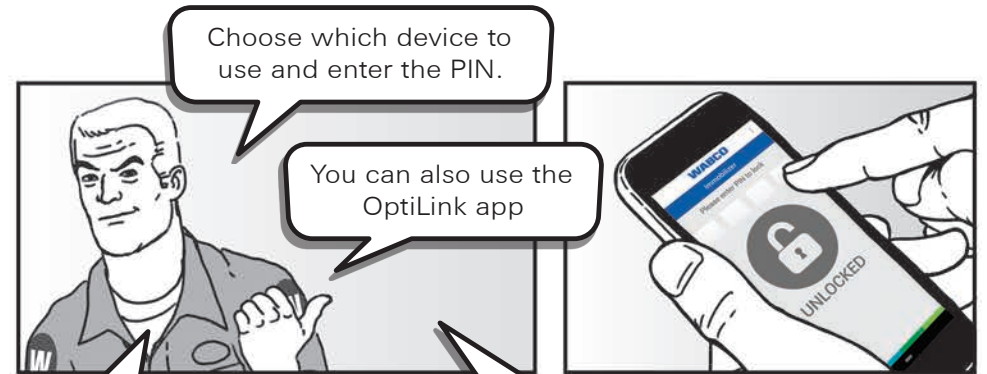
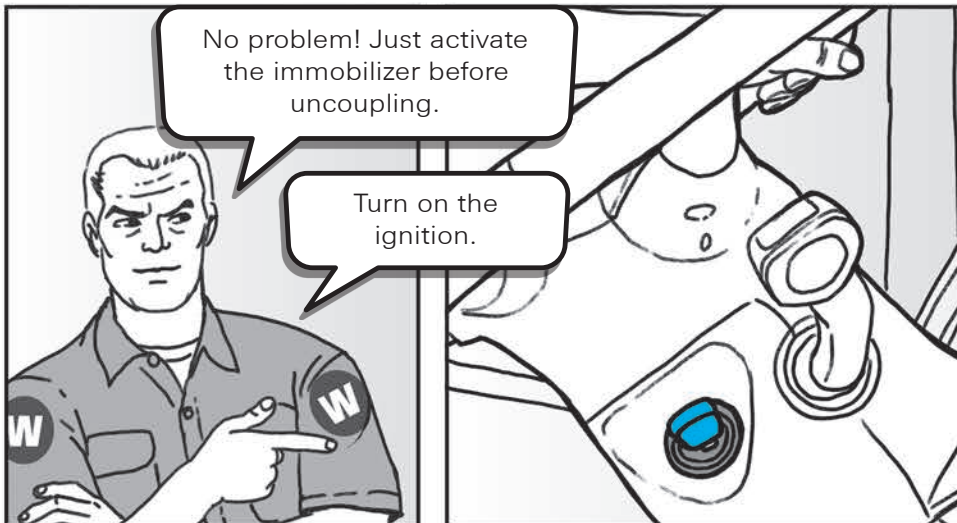
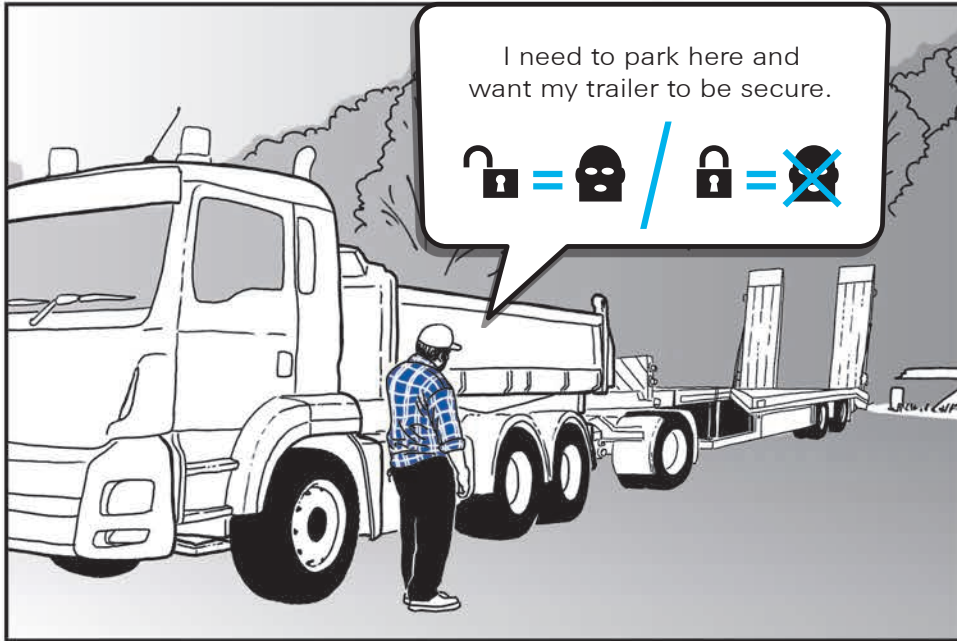


Changing the trailer height from the truck cabin (remote control devices)



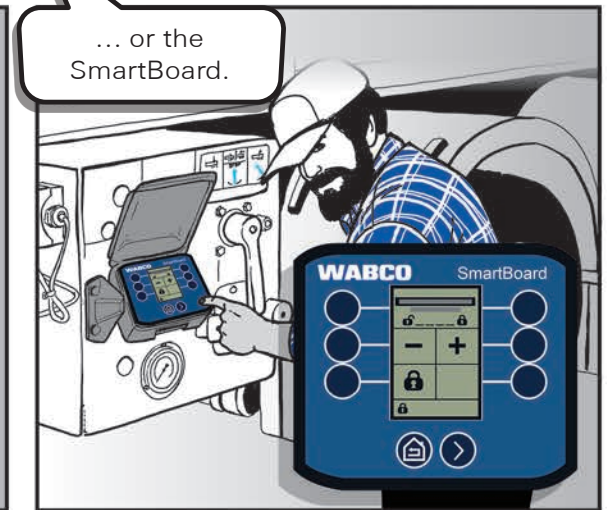
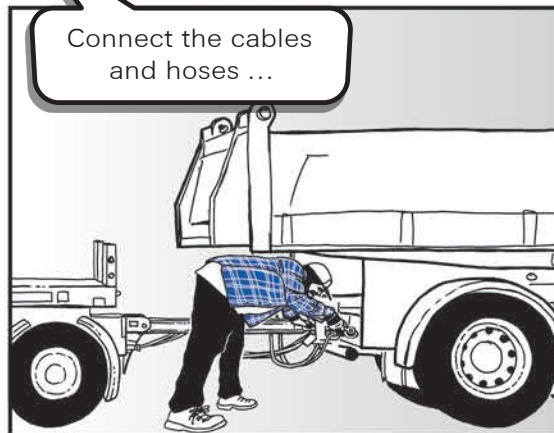
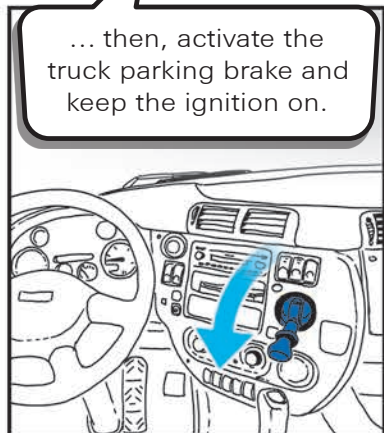
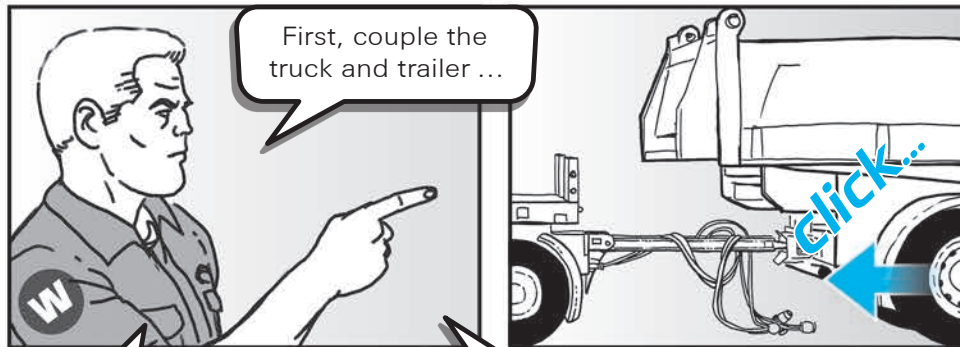
11

Ensuring your trailer is parked securely (Immobilizer activation)



To be continued ...

Coupling a truck to a parked trailer with an activated immobilizer (Immobilizer deactivation)



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ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

With some 165,000 employees worldwide, ZF reported sales of €43.8 billion in fiscal 2022. The company operates 168 production locations in 32 countries.

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