



The Trailer Company.



Operating manual TrailerConnect® beSmart App

App version status 3.1.2

S.KI

Take the time to read this...

This manual is an annexe to the semitrailer tipper operating manual. It provides information on the functions of the TrailerConnect® **beSmart** app and contains important information on its use.



The semitrailer tipper operating manual and the safety instructions it contains must be observed.

The information in this manual must be carefully read and complied with, particularly the safety instructions.

Ensure that the manual is always on hand in the utility vehicle, also when it is loaned, leased or sold.

Schmitz Cargobull products are subject to continuous development. Consequently, the descriptions in this manual may vary in text and illustration due to technical further development.

For any questions that cannot be answered by reading this manual, contact the Schmitz Cargobull service centre or Schmitz Cargobull customer service:

Schmitz Cargobull AG

Siemensstraße 50

48341 Altenberge, Germany

In the event of a breakdown, Schmitz Cargobull Euroservice can be contacted at:



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1 Introduction

1.1 Vehicle identification

The vehicle identification number is stamped into the vehicle frame. Legibility of the vehicle identification number must be ensured at all times, avoid damage.

In addition, the vehicle identification number can also be read-out on the "Vehicle" name plate.

Fig. 1: "Vehicle" name plate

- 1 Type
- 2 Approval number
- 3 Vehicle identification number
- 4 Country code
- 5 Permissible total weight
- 6 Permissible coupling point load
- 7 Permissible axle load (1st axle)
- 8 Permissible axle load (2nd axle)
- 9 Permissible axle load (3rd axle)
- 10 Length
- 11 Width
- 12 Minimum b dimension (distance between the centre point of the towing hitch and the rear of the vehicle)
- 13 Maximum b dimension (distance between the centre point of the towing hitch and the rear of the vehicle)
- 14 QR code (chassis number)

The "Brake data" name plate contains information on the brake system.

Fig. 2: "Brake data" name plate

CAUTION!

Ensure legibility

Legibility of the plates must be ensured at all times.

- ▷ Illegible or lost plates must be replaced without delay.
- ▷ Replacement can be obtained through the Schmitz Cargobull Spare Parts Centre by specifying the vehicle identification number.

1.2 Means of representation

This manual includes various warnings with the following meaning:

CAUTION!

Failure to comply with the instructions indicated in this manner can result in injury.

WARNING!

Failure to comply with the instructions indicated in this manner can result in death or severe injury.

DANGER!

Failure to comply with the instructions indicated in this manner results in death or severe injury.

Operating instructions

CAUTION!

Failure to comply with the instructions indicated in this manner can result in material damage impair function.



Texts with this symbol provide tips or additional information for operation.

Instructions

- ▷ Texts with this symbol identify an activity that must be carried out.
- ✓ Texts with this symbol identify prerequisites that apply for subsequent actions.
- 1. Texts with numbering identify actions that must be performed in the specified order.
 - ▶ Texts with this symbol describe the intermediate result of the previously executed action step.
- 2. The numbering is continued until the end of the action instruction.
- ▶ Texts with this symbol describe the expected result of the instruction.

Directions

Directions in this manual always refer to the direction of travel. Therefore "on the left chassis frame" means the "left side of the vehicle viewed in the direction of travel". "To the front" means "in the direction of travel", "to the rear" means "opposite to the direction of travel".

Special equipment*

Texts marked with an asterisk* identify special equipment. For this reason, texts and illustrations in this manual may show equipment that differs from that of your vehicle.

1.3 Vehicle overview

This operating manual applies for the Schmitz Cargobull Smart Trailers with telematics listed below.

S.KI 18 7.2

Two-axle semitrailer rear tipper with a loading length of approx. 7.2 m.

S.KI 24 7.2

Three-axle semitrailer rear tipper with a loading length of approx. 7.2 m.

S.KI 24 8.2

Three-axle semitrailer rear tipper with a loading length of approx. 8.2 m.

S.KI 24 9.6

Three-axle semitrailer rear tipper with a loading length of approx. 9.6 m.

S.KI 24 10.5

Three-axle semitrailer rear tipper with a loading length of approx. 10.5 m.



In this operating manual, the semitrailer is also referred to as trailer, vehicle or utility vehicle.

2 Function notes

The TrailerConnect® **beSmart** app is an application software that can be used to continuously monitor the status of the trailer with a mobile end device. The app functions depend on the trailer equipment. The functionality is independent of the equipment and brand of the tractor.

The communication between the mobile end device and the trailer takes place via Wi-Fi.

The trailer telematics acts as an interface for wireless communication with a mobile end device, on which the TrailerConnect® **beSmart** app is installed.

The TrailerConnect® **beSmart** app can be installed on compatible mobile end devices with ANDROID or iOS operating system.



Schmitz Cargobull recommends carrying a mobile end device with installed TrailerConnect® **beSmart** app along with the vehicle to enable use of all trailer functions.

2.1 Connection with the TrailerConnect® beSmart app

When the mobile end device is successfully paired with the trailer, the TrailerConnect® **beSmart** app automatically connects with the trailer when the mobile end device is within the network range.

The TrailerConnect® **beSmart** app constantly maintains the Wi-Fi connection as long as the mobile end device is in the network range. The Wi-Fi connection can be actively disconnected.

2.1.1 Connection range

The signal strength of the control unit depends on many factors. The range of the TrailerConnect® **beSmart** app depends on the strength of the Wi-Fi signal.

At greater distances or if the position in the surroundings of the vehicle or in the tractor driver cab is unfavourable, there can be connection failures due to shielding.



The semitrailer provides two Wi-Fi networks, the "Telematics" network (control unit at the rear of the vehicle) and the "Wi-Fi repeater" (on the front wall). To prevent connection failures while driving, Schmitz Cargobull recommends connection with the "Wi-Fi repeater" network.

2.1.2 App permissions

The TrailerConnect® **beSmart** app requests the following permissions:

- Device location (mandatory)
- Taking pictures and videos
- Sending notifications



The "Location access" is essential for successful connection between the mobile end device and the control unit on the trailer.

2.2 Function overview of the TrailerConnect® beSmart app

Depending on the vehicle equipment, the following app functions are available for the semitrailer tipper:



EBS



Tyres



Brake pads*



Weighing system*

2.2.1 EBS



Fig. 3: "EBS" icon



Aggregate load

- Display and monitoring of the current aggregate load of the trailer.



Total mileage

- Display of the mileage of the trailer in kilometres.

More information: [Aggregate load display and total odometer reading ► 21]

2.2.2 Tyres



Fig. 4: "Tyres" icon

Continuous display and monitoring of the tyre inflation pressure and tyre temperature on the trailer. The status is shown for each tyre.

More information: [Tyre inflation pressure and temperature monitoring ► 23]

2.2.3 Brake pads*



Fig. 5: "Brake pads" icon

Continuous monitoring of the brake pads on the trailer.

More information: [Brake pad wear indicator* ► 24]

2.2.4 Weighing system*



Fig. 6: "Weighing system" icon

The app-controlled weighing system that is integrated in the semitrailer enables the recording and documentation of the load condition of the trailer.

The Schmitz Cargobull weighing system is not a calibrated scale. Weighing deviations of up to 1% are possible. The weighing system serves as an overload protection for the driver, loader and forwarder.

The weighing system enables optimal loading of the semitrailer. Maximum loading increases the efficiency and cost-effectiveness. With optimal loading, the driver, loader and forwarder are protected against legal penalties and wear on the vehicle is reduced.

The TrailerConnect® **beSmart** app is a prerequisite for using the weighing system. When the TrailerConnect® **beSmart** app is installed on the mobile end device, the weighing system can be controlled and the load of the semitrailer can be monitored.

The telematics transmit the weighing data directly to the TrailerConnect® portal for further processing or forwarding to third parties.



A mobile end device is required to operate the weighing system.

More information: [Operation of the weighing system* ► 26]

Tractor equipment for using the weighing system

To use the weighing system, the following equipment is required on the semitrailer tractor:

- Auxiliary drive
- Hydraulic system
- Power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15)

3 Operation

3.1 Use



DANGER!

Risk of accident due to use of the mobile end device in road traffic

Use of mobile end devices in road traffic can lead to serious accidents.

- ▷ Observe the legal regulations for the use of mobile end devices in road traffic.
- ▷ Before departure, fasten the mobile end device safely in a holder designed for this purpose. It must not interfere with the view on the road and access to operating elements of the tractor.

CAUTION!

Functional restrictions due to outdated app version

Outdated versions of the TrailerConnect® **beSmart** app can cause functional restrictions.

- ▷ Keep the app up-to-date. Available updates will be displayed by the mobile end device.



Not all mobile end devices support simultaneous connection to the telematics and the mobile data network. While the TrailerConnect® **beSmart** app is active, other apps might not be able to access the Internet.

The TrailerConnect® **beSmart** app offers a series of comfort functions, but does not replace the previous systems or user interfaces.

The TrailerConnect® **beSmart** app functions independently of the TrailerConnect® portal. For this reason, the app can be used without restrictions even without logging into the TrailerConnect® portal.

3.2 Installing the software



Fig. 7: "TrailerConnect® **beSmart** app" icon



The TrailerConnect® **beSmart** app is available free of charge.



The TrailerConnect® **beSmart** app is optimised for mobile end devices with a screen diagonal between 4 inches and 6 inches, as well as for a screen resolution greater than 200 dpi.

Prerequisites for installation of the TrailerConnect® **beSmart** app on a mobile end device:

- Mobile ANDROID device with ANDROID version 5.0 or higher.
- Mobile IOS device with IOS version 10.0 or higher.

3.2.1 Installation on a mobile end device with ANDROID operating system

- ✓ Use of a mobile ANDROID device with ANDROID version 5.0 or higher.
- 1. Select "Play Store" on the mobile ANDROID device.
 - The Google "Play Store" will be opened.
- 2. Enter **beSmart** in the search field and start the search.

- 3. Select **beSmart** Schmitz Cargobull AG.
 - Basic information on the TrailerConnect® **beSmart** app will be shown.
- 4. Tap on the "Download" button.
 - The TrailerConnect® **beSmart** app will be installed on the mobile end device. After successful installation, the app icon will appear in the list of installed apps.

3.2.2 Installation on a mobile end device with IOS operating system

- ✓ Use of a mobile IOS device with IOS version 10.0 or higher.
- 1. Select "App Store" on the mobile IOS device.
 - The Apple "App Store" will be opened.
- 2. Enter **beSmart** in the search field and start the search.
- 3. Select **beSmart** Schmitz Cargobull AG.
 - Basic information on the TrailerConnect® **beSmart** app will be shown.
- 4. Tap on the "Download" button.
 - The TrailerConnect® **beSmart** app will be installed on the mobile end device. After successful installation, the app icon will appear in the list of installed apps.

3.3 Basic navigation

3.3.1 Home screen

Layout of the home screen

When starting the TrailerConnect® **beSmart** app, the home screen will be opened.

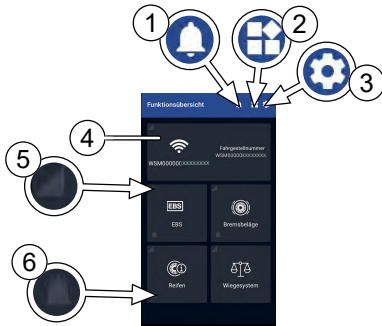


Fig. 8: Home screen

- 1 Alarm dashboard
- 2 App function selection
- 3 Settings
- 4 "Wi-Fi connection" button
- 5 "Sub-screen" icon
- 6 "Alarm ON/OFF" icon

Alarm dashboard



Fig. 9: "Alarm dashboard" button

By tapping the "Alarm dashboard" button, the "Alarm dashboard" screen will be opened.



Fig. 10: "Alarm dashboard" screen

- 1 "Trailer vehicle identification number"
- 2 "Occurred errors" display
- 3 "Confirm error elimination" button

CAUTION!

Clearing errors from the alarm dashboard

By pressing the "Confirm error elimination" button, the error will be removed from the alarm dashboard.

- ▷ First eliminate the error, then press the button on the alarm dashboard.
- ▷ Press the button only when the error has been eliminated on the vehicle.

App function selection



Fig. 11: "Function overview" button

By tapping the "Function overview" button, the "Function overview" screen will be opened.



Fig. 12: "Function overview" screen

- 1 Button selected
- 2 Button deselected
- 3 Save the selection

On the "Function overview" screen, buttons can be displayed or hidden.

CAUTION!

Selecting app functions based on the vehicle equipment

If app functions are selected that do not correspond to the vehicle equipment, it can cause malfunctions in the app.

- Select and use the app function selection based on the vehicle equipment.



The "App function selection" screen is only available when a connection to the trailer is established.

Settings



Fig. 13: "Settings" button

By tapping the "Settings" button, the "Settings" screen will be opened.

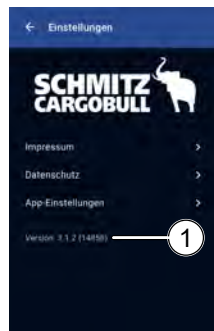


Fig. 14: "Settings" screen

- 1 App version display

"Wi-Fi connection" button



"Wi-Fi connection" button when no connection is established to the trailer

- "No connection" display.



"Wi-Fi connection" button when a connection is established to the trailer

- The connected network is shown under the "Wi-Fi" icon.
- The chassis number of the connected trailer is also shown on the home screen.

By tapping the "Wi-Fi connection" button, the "Connections" screen will be opened.



Fig. 15: "Connections" screen

- 1 "Wi-Fi" button
- 2 "QR code" button
- 3 "Trailer connection interrupted" notification
- 4 "Known trailer connections" display

More information: [Pairing with the trailer ▶ 17]

"Sub-screen" icon

Buttons with sub-screens are marked with the "Sub-screen" icon at the top left corner of the button.



Fig. 16: "Sub-screen" icon

By tapping a button marked with the "Sub-screen" icon, the associated screen will be opened.

More information: [Sub-screens ▶ 16]

"Alarm ON/OFF" icon

Buttons with alarm functions are marked with the "Alarm" icon at the bottom left corner of the button.



"Alarm activated" icon



"Alarm deactivated" icon

More information: [Alarms ▶ 33]

3.3.2 Sub-screens

When a sub-screen is opened, the "Back" button can be used to go back to the higher-level page.

The sub-screen that is opened is shown at the top edge of the screen.

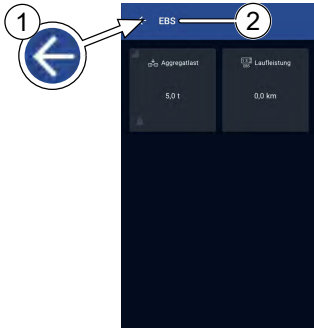


Fig. 17: Sub-screen (example)

- 1 "Back to higher-level screen" button
- 2 Screen designation

3.4 Pairing with the trailer

CAUTION!

No simultaneous use on different mobile end devices

An active Wi-Fi connection to the trailer can only be established on a mobile end device. Simultaneous use on multiple end devices is not possible.

- ▷ Make sure that no other mobile end device has access to the trailer's network.

An identifier is assigned to the trailer at the factory. The identifier corresponds to the vehicle identification number of the trailer.



The Wi-Fi password for logging into the TrailerConnect® **beSmart** app is vehicle-related. The password can be found on the sticker in the Service and Maintenance guide as well as in the TrailerConnect® portal. The password cannot be changed.

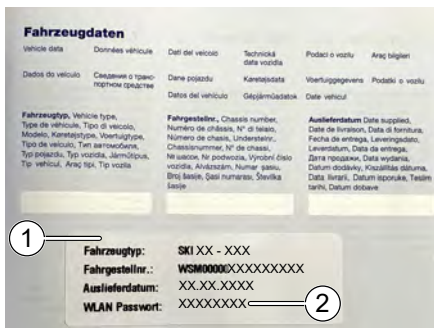


Fig. 18: Service and maintenance guide

- 1 Vehicle-related sticker in the Service and Maintenance guide
- 2 Wi-Fi password for logging into the beSmart app

3.4.1 Pairing procedure



Fig. 19: "Wi-Fi connection" button

By tapping the "Wi-Fi connection" button, the "Connections" screen will be opened.



Fig. 20: "Connections" screen

- 1 "Wi-Fi" button
- 2 "QR code" button
- 3 "Trailer connection interrupted" notification
- 4 "Known trailer connections" display

The communication between the mobile end device and the trailer takes place via Wi-Fi. There is a choice between two connection options:

- Wi-Fi connection by selecting the network
- Wi-Fi connection via QR code

CAUTION!

Ensure power supply

The Wi-Fi connection is dependent on the power supply.

- ▷ Before the pairing procedure, switch on the tractor's ignition with the trailer hitched on.

CAUTION!

Location access required

The TrailerConnect® **beSmart** app requires permission to access the location of the mobile end device.

- ▷ Allow access to the device location when using the TrailerConnect® **beSmart** app for the first time.



After establishing the power supply (ignition on), the telematics need about 60 to 180 seconds for the boot procedure. Then the trailer's Wi-Fi network can be accessed.

Establishing a Wi-Fi connection by selecting the network



Fig. 21: "Wi-Fi" button

After tapping the "Wi-Fi" button, the settings of the mobile end device will be opened.

CAUTION!

Checking the Wi-Fi connection

There can be several vehicles equipped with telematics in the surrounding area. The mobile end device remembers devices that were already connected, and automatically reconnects as soon as the mobile end device is near the trailer.

- ▷ Select and verify the Wi-Fi connection based on the network identifier.

The trailer provides two Wi-Fi networks, the "Telematics control unit" network (at the rear of the vehicle) and the "Wi-Fi repeater" (on the front wall). To prevent connection failures while driving, Schmitz Cargobull recommends connection with the "Wi-Fi repeater" network.

■ "Telematics control unit" network:

17-digit chassis number_CTU

(e.g.: WSM00000XXXXXXXXXX_CTU)

■ "Wi-Fi repeater" network:

17-digit chassis number

(e.g.: WSM00000XXXXXXXXXX)



Fig. 22: Exemplary representation of the network selection

- 1 "Wi-Fi repeater" network
 - 2 "Telematics" network
 - 3 A different trailer's network is within the range of the mobile end device
- ✓ All of the connection lines between the trailer and tractor are connected, the power supply to the trailer is established, Wi-Fi is activated on the mobile end device.
1. Open the TrailerConnect® **beSmart** app.
 2. Open the "Connections" screen by tapping the "Wi-Fi connection" button.
 3. Tap the "Wi-Fi network" icon.

- The TrailerConnect® beSmart app opens the settings for the mobile end device for selection of the Wi-Fi network. A list with the available network connections will be shown.
4. **CAUTION! When multiple networks are shown, select the desired vehicle-related connection.** Select the network based on the chassis number.
 - The window for entering the Wi-Fi password will be opened.
 5. Enter the Wi-Fi password.
 - The connection between the TrailerConnect® **beSmart** app and the trailer will be established.

CAUTION!

Connection problems and connection failures

Different causes can interfere with the connection between the TrailerConnect® **beSmart** app and the trailer or lead to connection failures.

- Observe the instructions under [Connection problems ➤ 35].

Establishing a Wi-Fi connection via QR code manufacturer



Fig. 23: "QR code" button

After tapping the "QR code", the QR code scanner will be opened.

CAUTION!

Entering a password is mandatory to establish a Wi-Fi connection via QR code

Entering the password is mandatory to establish the Wi-Fi connection via QR code, even if the mobile end device was already connected to the trailer in the past.

- Keep the password at hand to connect to the trailer.



The QR code is printed on the "Vehicle" name plate.



When connecting via QR code, the mobile end device is automatically connected to the "Wi-Fi repeater" network.

- ✓ All of the connection lines between the trailer and tractor are connected, the power supply to the trailer is established, Wi-Fi is activated on the mobile end device.
1. Open the TrailerConnect® **beSmart** app.
 2. Open the "Connections" screen by tapping the "Wi-Fi connection" button.
 3. Tap the "QR code" icon.
 - The TrailerConnect® **beSmart** app will open the window for scanning the QR code (QR code scanner).
 4. Point the camera of the mobile end device onto the QR code on the "Vehicle" name plate.

- ▶ When the QR code is detected, a window will be opened to enter the Wi-Fi password.
5. Enter the Wi-Fi password.
- ▶ The connection between the TrailerConnect® beSmart app and the trailer is established.

CAUTION!

Connection problems and connection failures

Different causes can interfere with the connection between the TrailerConnect® **beSmart** app and the trailer or lead to connection failures.

- ▷ Observe the instructions under [Connection problems ▶ 35].

3.5 Aggregate load display and total odometer reading



Fig. 24: "EBS" icon

By tapping the "EBS" button, the "EBS" screen will be opened.



Fig. 25: "EBS" screen

- 1 "Aggregate load" button
- 2 "Mileage" display

3.5.1 Display and monitoring of the aggregate load



Fig. 26: "Aggregate load" icon

By tapping the "Aggregate load" button, the "Aggregate load" screen will be opened.



Fig. 27: "Aggregate load" screen

- 1 "Current aggregate load" display
- 2 "Maximum aggregate load" setting
- 3 "Aggregate load alarm" switch

Setting the maximum aggregate load

In the TrailerConnect® **beSmart** app, a maximum value can be defined manually for the maximum aggregate load.

- ✓ The mobile end device has an active connection to the trailer control unit.
1. Open the TrailerConnect® **beSmart** app.
 2. Open the "EBS" screen by tapping the "EBS" icon.
 3. Open the "Aggregate load" screen by tapping the "Aggregate load" icon.
 4. Set the maximum aggregate load by entering (tapping the numerical display) or by moving the slider.
- The maximum aggregate load is defined.

Alarm settings for the aggregate load

When the alarm is activated, the TrailerConnect® **beSmart** app sends a signal when the maximum aggregate load is exceeded. More information: [Alarms ► 33]

3.5.2 Total odometer reading display



Fig. 28: "Odometer reading" icon

On the "EBS" screen, the mileage of the trailer is shown and continuously refreshed under the "Odometer reading" icon.



Fig. 29: "Odometer reading" display

- 1 Mileage in km

3.6 Tyre inflation pressure and temperature monitoring



Fig. 30: "Tyres" icon

By tapping the "Tyres" icon, the "Tyres" screen will be opened.



Fig. 31: "Tyres" screen

- 1 "Tyre on 1st axle, left" button
- 2 "Tyre on 2nd axle, left" button
- 3 "Tyre on 3rd axle, left" button
- 4 "Tyre on 1st axle, right" button
- 5 "Tyre on 2nd axle, right" button
- 6 "Tyre on 3rd axle, right" button

By tapping one of the buttons on the "Tyres" screen, the "Tyre status" screen for the selected tyre will be opened.

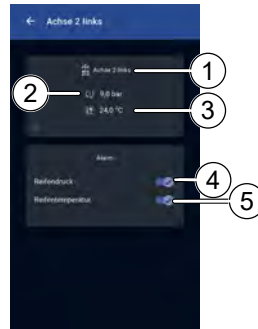


Fig. 32: "Tyre status" screen (exemplary representation)

- 1 Wheel designation
- 2 Tyre pressure in bar
- 3 Tyre temperature in °C
- 4 "Tyre pressure alarm" switch
- 5 "Tyre temperature alarm" switch

Alarm settings for the tyres

When the alarm is activated, the TrailerConnect® **beSmart** app sends a signal when the pre-set limit values are exceeded or undercut. The alarm indicates which specific tyre caused the alarm. The alarm can be switched on and off separately for each wheel. More information: [Alarms ▶ 33]

3.7 Brake pad wear indicator*



Fig. 33: "Brake pads" icon

The display on the "Brake pads" screen varies depending on the vehicle equipment:

- Brake pad wear indicator via CTU
- Brake pad wear indicator via EBS

3.7.1 Brake pad wear indicator via CTU*

By tapping the "Brake pads" icon, the "Brake pads" screen will be opened.



Fig. 34: "Brake pads" screen

- 1 "Brake pads overall status" button
- 2 "Brake pad on 1st axle, left" button
- 3 "Brake pad on 2nd axle, left" button
- 4 "Brake pad on 3rd axle, left" button
- 5 "Brake pad on 1st axle, right" button
- 6 "Brake pad on 2nd axle, right" button
- 7 "Brake pad on 3rd axle, right" button

By tapping the "Overall status" button, the "Brake pads overall status" screen will be opened.

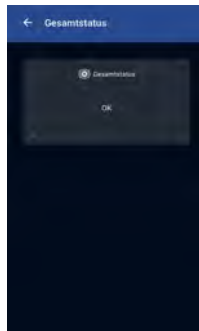


Fig. 35: "Brake pads overall status" screen

By tapping one of the axle-related buttons, the "Brake pad status" screen for the selected brake pad will be opened.



Fig. 36: "Brake pad status" screen (exemplary representation)

3.7.2 Brake pad wear indicator via EBS*

By tapping the "Brake pads" icon, the "Brake pads" screen will be opened.



Fig. 37: "Brake pads" screen

1 "Brake pads overall status" button

By tapping the "Overall status" button, the "Brake pads overall status" screen will be opened.



Fig. 38: "Brake pads overall status" screen

1 "Brake pads alarm" switch

3.7.3 Alarm settings for brake pads

When the alarm is activated, the TrailerConnect® **beSmart** app sends a signal when the wear limit is reached.



The alarm is only issued after departure, not when the vehicle is at a standstill.

More information: [Alarms ► 33]

3.8 Operation of the weighing system*



Fig. 39: "Weighing system" icon



A mobile end device is required to operate the weighing system.

The weighing system is controlled solely with the TrailerConnect® **beSmart** app.

By tapping the "Weighing system" icon, the "Weighing system" screen will be opened.

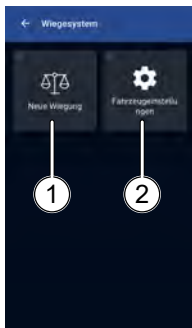


Fig. 40: "Weighing system" screen

- 1 "New weighing" button
- 2 "Vehicle settings" button

3.8.1 App-controlled vehicle functions

CAUTION!

Risk of injury due to automatically activated functions

Automatically activated functions on the trailer can startle or endanger people in the immediate surroundings.

- ▷ Keep people out of the danger zone before and during the weighing procedure.

CAUTION!

Minimum pressure in the reservoir tank ≥ 5 bar

The weighing system requires a pressure of ≥ 5 bar in the reservoir tank.

During the weighing procedure, the following functions of the semitrailer will be automatically controlled by the TrailerConnect® **beSmart** app:

■ **Controlling the weighing level**

The level of the air springs of the semitrailer will be automatically slightly lowered and then immediately raised again (weighing level = driving level).

■ **Lowering the lift axles***

All of the lift axles will be lowered (if equipped).

■ **Releasing the service brake**

The service brake of the semitrailer will be released. The tractor will remain braked during the process.

3.8.2 Vehicle settings for the weighing system

Before the first weighing procedure or when changing the tractor, the vehicle weights must be set in the TrailerConnect® **beSmart** app to detect possible overloading of the overall tractor/trailer combination. The set vehicle weights are used to calculate the maximum possible payload for the semitrailer. The more precise the entered data, the more accurate the calculated maximum payload weight.

When the vehicle weights have been saved, they remain stored in the trailer's telematics.

- ▷ Adjust and save the weights that were pre-set at the factory before the first weighing procedure.

CAUTION!

Overloading due to imprecise vehicle weights

The possible payload weight is calculated based on the entered vehicle weights. Reliable calculation of the payload weight depends on the entries for the vehicle weights.

- ▷ Take account of changes to the vehicle weights and update them in the TrailerConnect® **beSmart** app.
- ▷ Check the vehicle settings before the weighing procedure and correct if necessary.



Schmitz Cargobull recommends weighing of the semitrailer and tractor (with full tank) and to enter the weighing results in the TrailerConnect® **beSmart** app.



Fig. 41: "Vehicle settings" icon

By tapping the "Vehicle settings" icon, the "Vehicle settings" screen will be opened.



Fig. 42: "Vehicle settings for weighing system" screen

- 1 Tare weight of the semitrailer tractor in kg
- 2 Tare weight of the semitrailer in kg
- 3 Maximum permissible total weight of the vehicle combination in kg
- 4 "Accept changes" button

Saving/updating the vehicle settings

- ✓ The mobile end device has an active connection to the semitrailer control unit.
1. Start the TrailerConnect® **beSmart** app.
 2. Open the "Weighing system" screen by tapping the "Weighing system" icon.
 - ▶ The "Weighing system" screen will be opened.
 3. Tap the "Vehicle settings" icon.
 - ▶ The "Vehicle settings" screen will be opened.
 4. Enter the tare weight of the semitrailer tractor.

5. Enter the tare weight of the trailer.
 6. Enter the maximum permissible total weight of the vehicle combination.
 7. Confirm the entry using the "Accept changes" button.
- The weight settings for the vehicle combination were permanently saved. The maximum possible payload will be calculated based on the entered weights.



If the tare weight of the semitrailer is changed in the TrailerConnect® **beSmart** app when the ignition is switched on, a cyclic air sound can be heard.



The vehicle settings stored in the TrailerConnect® **beSmart** app are maintained, even if a different mobile end device is used.

3.8.3 Prerequisites for reliable weighing

To achieve reliable weighing, the following prerequisites must be met:

- The semitrailer is hitched up.
- All of the connection lines between the tractor and the semitrailer are connected.
- The power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) is established.
- The ignition of the tractor is switched on.
- The vehicle combination is parked on a level, even and load-bearing surface.
- The tipping trough is completely lowered.
- The vehicle weights of the tractor and semitrailer as well as the maximum permissible total weight of the vehicle combination are entered and saved in the TrailerConnect® **beSmart** app.
- The mobile end device has an active connection to the "Wi-Fi repeater" network of the semitrailer (more information [Establishing a Wi-Fi connection by selecting the network ► 18]).



Reliable weighing can only be achieved when all of the prerequisites for the weighing procedure are met.



The operational readiness of the weighing system is indicated by a cyclic air sound (test run of the weighing system control unit) when switching on the ignition. The power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) is established.

3.8.4 Performing the weighing procedure



Fig. 43: "New weighing" icon

By tapping the "New weighing" button, the "New weighing" screen will be opened.



Fig. 44: "New weighing" screen

- 1 "Current payload weight" display
- 2 "Maximum possible payload" display
- 3 "Start weighing" button
- 4 "Edit vehicle settings" button
- 5 "Vehicle settings" control display

⚠ CAUTION!

Risk of injury due to automatically activated functions

Automatically activated functions on the trailer can startle or endanger people in the immediate surroundings.

- ▷ Keep people out of the danger zone before and during the weighing procedure.

CAUTION!

The weighing procedure will not start

If the display does not automatically jump to the automatic query after starting the weighing procedure, the screen is frozen. The weighing procedure cannot be performed.

- ▷ Exit the app.
- ▷ Inspect the semitrailer and eliminate the fault [The weighing procedure will not start ▶ 36].

- ✓ All of the prerequisites for reliable weighing are met, PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) is energised.
1. Start the TrailerConnect® **beSmart** app.
 2. Open the "Weighing system" screen by tapping the "Weighing system" icon.
 - ▶ The "Weighing system" screen will be opened.
 3. Tap the "New weighing" icon.
 - ▶ The "New weighing" screen will be opened.
 4. Check the vehicle settings and correct if necessary.
 5. **CAUTION! Keep people out of the danger area.** Tap the "Start weighing" button.
 - ▶ The weighing procedure will be initiated. The app-controlled vehicle functions will be automatically executed. **CAUTION! If the weighing procedure is not started, exit the TrailerConnect® beSmart app and inspect the semitrailer and eliminate the fault.**

6. When prompted by the TrailerConnect® **beSmart** app, lift the tipping trough by approx. 1° using the tipper control valve.
 - The tipping procedure stops automatically when the tipping angle required for the weighing procedure is reached.
7. When prompted by the TrailerConnect® **beSmart** app, move the tipper control valve to the "STOP" position.
8. Close the "Move tipper control valve to neutral position" screen display by clicking on the "Confirm" button.
 - The preparations for the weighing procedure are successfully completed.
 - The weighing procedure will be performed. The loaded weight will be shown in the TrailerConnect® **beSmart** app.

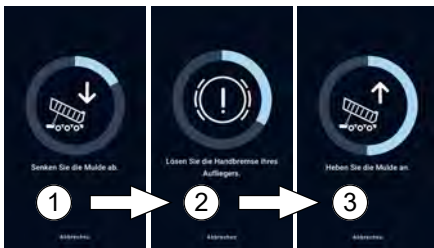


Fig. 45: Automatic query from the TrailerConnect® **beSmart** app

- 1 Lower the tipping trough
- 2 Release the service brake (app-controlled vehicle functions)
- 3 Lift the tipping trough



Fig. 46: "Move tipper control valve to neutral position" screen display

- 1 "Confirm" button, that the tipper control valve was moved to the "STOP" position.



Fig. 47: "Preparation successfully completed" screen display



Fig. 48: "Weighing results" screen display

- 1 "Loaded weight" display

Overload indicator

CAUTION!

Material damage due to exceeding the maximum permissible payload weight

Driving with an overloaded semitrailer can cause damage to the vehicle and stiff penalties in case of vehicle inspection.

- ▷ Start driving only when the semitrailer is correctly loaded.

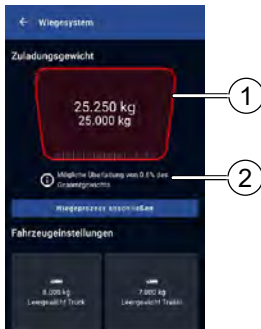


Fig. 49: Exemplary representation of the overload indicator

- 1 Red border in case of overload
- 2 Display of the overload in %

If the calculated maximum payload weight of the semitrailer is exceeded, this is visually indicated in the TrailerConnect® *beSmart* app.

3.8.5 Stopping the weighing procedure

⚠ CAUTION!

Risk of accident when driving with tipped trough

Driving with a tipped trough can lead to accidents due to getting stuck on underpasses or cause material damage to the vehicle.

- ▷ Lower the tipping trough completely before departure.
- ▷ It is forbidden to drive with a tipped trough.

CAUTION!

Material damage due to loading when the trough is tipped

Loading procedures when the trough is tipped can cause damage to the tipping cylinder and other components. It is forbidden to load the semitrailer when the trough is tipped.

- ▷ Perform the loading procedure only when the tipping trough is completely lowered.



The weighing results are automatically transmitted to the TrailerConnect® portal after finishing the weighing procedure.

1. Tap the "Stop weighing" button in the TrailerConnect® **beSmart** app.
 ➤ The weighing results are transmitted to the TrailerConnect® portal.
2. When prompted by the TrailerConnect® **beSmart** app, completely lower the tipping trough using the tipper control valve.
3. Hold the tipper control valve in the "LOWER" position for another 5-10 seconds to ensure complete resting of the tipping trough on the vehicle frame.
4. Move the tipper control valve to the "STOP" position.
5. Close the "Completely lower the tipping trough" screen display by tapping the "Confirm" button.
6. Exit the "Weighing system" screen in the TrailerConnect® **beSmart** app.
7. Carry out a departure inspection.



Fig. 51: "Completely lower the tipping trough" screen display

- 1 "Confirm" button, that the trough was completely lowered.

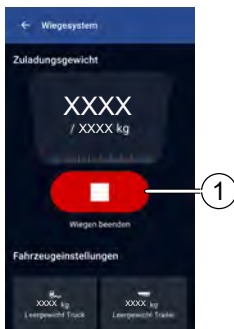


Fig. 50: Stopping the weighing procedure

- 1 "Stop weighing" button

4 Alarms

4.1 Alarm settings



When the alarm is activated, the TrailerConnect® **beSmart** app sends a visual alarm message, even when the app is running in the background or the mobile end device is locked (depending on the device settings).

When the alarm is activated, various functions of the TrailerConnect® **beSmart** app send alarm messages when the defined or pre-set limit values are not maintained or a wear dimension is reached.

4.1.1 Alarm functions

In the TrailerConnect® **beSmart** app, alarms can be activated on the corresponding screens for the following functions:

EBS

- Aggregate load exceeded



Brakes

- Wear dimension of the brake pads reached



Tyres

- Tyre inflation pressure is too low
- Tyre inflation pressure is too high
- Tyre internal temperature is too high

4.1.2 Activating/deactivating alarms

The alarm can be activated or deactivated for the individual functions on the corresponding screens.

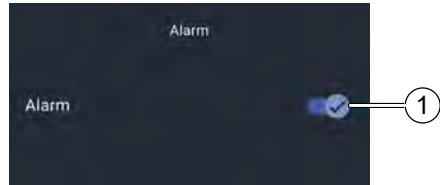


Fig. 52: Alarm settings (illustrated with activated alarm)

1 "Alarm ON/OFF" switch

✓ The mobile end device has an active connection to the trailer control unit.

1. Start the TrailerConnect® **beSmart** app.
2. Select the desired screen.
3. Activate/deactivate the "Alarm ON/OFF" switch.

► The alarm is activated/deactivated for the selected function.

More information: [Layout of the home screen ► 13]

4.1.3 Display of alarms



Fig. 53: Alarm icon

For the alarms to be displayed in the TrailerConnect® **beSmart** app, the alarms must be activated. In the default setting of the TrailerConnect® **beSmart** app, all alarms are activated.

When the trailer sends an alarm, it is displayed in the TrailerConnect® **beSmart** app. There is no acoustic alarm.



Fig. 54: Example of an alarm display

- 1 Display for alarm switched on
- 2 Alarm icon in the button
- 3 Notification window for alarm message

Any existing alarms are listed on the alarm dashboard.

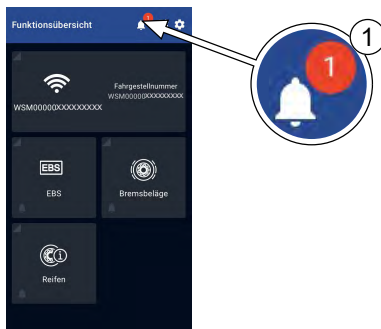


Fig. 55: Home screen

- 1 Existing messages on the alarm dashboard

More information: [Alarm dashboard ► 13]

5 Error messages

5.1 Connection problems

The following causes prevent connection between the TrailerConnect® **beSmart** app and the trailer:

- Wi-Fi is deactivated on the mobile end device.
- The mobile end device has an active Wi-Fi connection to a different network.
- The TrailerConnect® **beSmart** app does not have permission to access the device location of the mobile end device.
- The mobile end device is outside of the network range.
- The password was not correctly entered.
- A different mobile end device is already connected to the trailer's network.
- The power supply to the trailer is interrupted.

5.1.1 Connection failure

When the connection between the trailer and the TrailerConnect® **beSmart** app is interrupted, this is shown in the app.



Fig. 56: "Connection failure" display

- 1 "Trailer connection interrupted" notification
 - ▷ The mobile end device is outside of the network range.
 - ▶ Reduce the distance between the mobile end device and the trailer.
 - ▷ The TrailerConnect® **beSmart** app is connected to the "Telematics" network.
 - ▶ Establish a Wi-Fi connection to the "Wi-Fi repeater" network.
 - ▷ The power supply to the trailer is interrupted.
 - ▶ Establish a 24 V power supply for the trailer.

5.2 The weighing procedure will not start

If the weighing procedure cannot be started, it can be caused by different factors.

In addition to damage to components that are relevant to the weighing system, one of the most common causes is that PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) is not being energised.



The operational readiness of the weighing system is indicated by a cyclic air sound (test run of the weighing system control unit) when switching on the ignition. The power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) is established.

- ▷ Check the tractor equipment.
 - ▶ Establish the power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15).

CAUTION!

Weighing system emergency function

If there is no power supply on PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15), the weighing procedure can be performed by using the emergency function.

- ▷ Switch on the rear fog light - the weighing procedure can be performed.
- ▷ Switch the rear fog light off after the weighing procedure of before departure.

If components that are relevant to the weighing system are damaged, the weighing procedure cannot be started. The "Start weighing" button is highlighted grey.



Fig. 57: Exemplary representation of a weighing system error display

- 1 "Start weighing" button highlighted grey
- 2 "Error display" window



Errors detected by the system are shown in a window with a red border in the TrailerConnect® **beSmart** app.

5.2.1 Inspections on the semitrailer

If the weighing process cannot be started in the app, the following inspections must be performed on the semitrailer:

- Is the tipping trough completely lowered?
- Is the trailer supplied with 24 V of power?
- Is PIN 9 of the 15-pin socket ISO 12098 (terminal 30 or terminal 15) energised?
- Is EBS system supplied with power?
- Is the supply pressure ≥ 5 bar?
- Are all of the plug connections connected to the control unit?

- Are the plug connections for all sensors connected?
- Is the wiring harness intact?
- ▷ Eliminate any detected defects.

If the weighing procedures still cannot be started, contact the Schmitz Cargobull Telematics troubleshooting service.

5.3 Troubleshooting service

Cargobull Telematics GmbH

Wilhelm-Schickard-Str. 4

D 48149 Münster

Freecall number: 00800 08 250 867

Phone: +49 (0) 2558 81-1818 (fault hotline)

Phone: +49 (0) 2558 81-5880 (service technology)

Email: helpdesk.trailerconnect@cargobull.com

www.trailerconnect.de

Office hours:

Monday to Friday 8:00 a.m. to 5:00 p.m.

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