



OPERATING INSTRUCTIONS

for Credo touch screen controller



Credo cab controls

When used according to these instructions, the Trailparts™ Credo™ Braking system meets the requirement of:

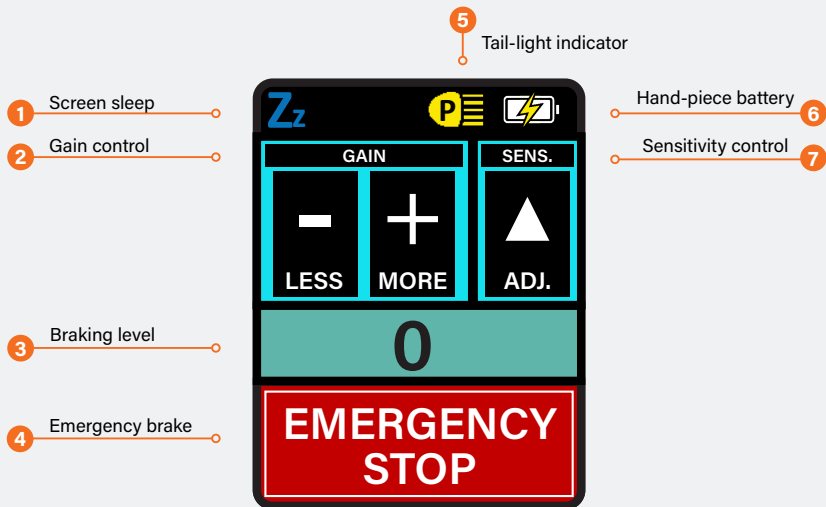
For NZ: Brake Rule 32014; trailers up to 3500kg GVM

For AU: ADR 38/05, VSB1, and VIB6; trailers up to 4500kg GVM

To operate:

- The In-cab controller must be connected at all times and located within easy reach of the driver.
- The vehicle park or head-lights must be switched on when towing the trailer. This energizes the trailer side of the system and also will allow the trailer batteries to charge.
- Check the plug and socket of the trailer and tow vehicle are securely connected and that the trailer lighting functions all work correctly. A faulty or intermittent lighting connection could mean the brakes do not operate correctly.
- Ensure the break away cable is securely fastened to the vehicle.
- Test the emergency brake is working. First adjust the gain control setting to read 75%. Depress emergency stop button fully, and begin to pull forwards while still holding the button down. The trailer brakes should lock the wheels.
- Do not use the emergency stop feature or breakaway function as a parking brake.





Credo cab controls

1 Screen Sleep Button

Press and hold for 5 seconds. Unit will beep 6 times and display sleep menu. When put to sleep while plugged into power, tap screen to wake. If put to sleep while unplugged, unit will need to be plugged into power again to wake up.

2 Gain Control - Adjusting Gain Control:

Press either button once to show current gain setting.

The plus button will increase the maximum brake percentage, and the minus button will decrease it. This should be set so the vehicle will brake to a halt without the trailer wheels locking up. An effective benchmark is to perform a brisk stop on a straight flat stretch of road from 30 kph. The vehicle trailer combination should halt without the trailer wheels locking. Increase or decrease the gain setting until the trailer is braking at just under the lock up level. Ensure conditions are safe around you before carrying out this procedure.

3 Braking Level

This number displays braking level during braking and gain and sensitivity settings.

4 Emergency Brake

When activated, this will apply the trailer brakes at 75% of the current gain setting. This can be used to control trailer sway situations and stop the vehicle combination in an emergency.

5 Tail-light Indicator

Confirms tail-lights are on. Shows red X if tail-lights not detected.

6 Hand-piece Battery

Status of hand-piece batteries.

7 Sensitivity Control

Press once to show current setting.

Controls determine how quickly and aggressively the brakes will activate, with 1 being least and 5 the most aggressive. Pressing this advances the setting from 1 up to 5 and then back to 1. Setting this to 3 provides mid-range braking. Decrease setting to 2 or 1 if brakes come on too suddenly. Increase setting if braking action seems too slow.

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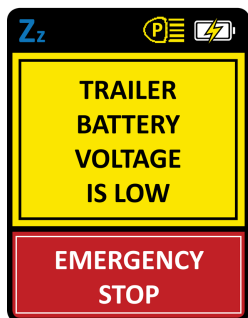
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Credo screen controls and warnings



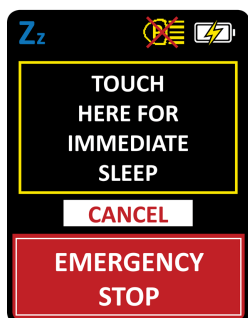
Headlights warning or EC on older controllers

Will flash on screen with 4 beeps if headlights are not on the trailer or there is a loss of communication between the trailer and cab modules. In the event of communication loss, providing the headlamps are on and the lighting connection between the tow vehicle and the trailer is not faulty the brakes will continue to operate at the last setting. This should however be investigated as soon as it is safe to stop.



Low trailer battery warning or EB on older controllers

Will flash and beep 4 times each time the brakes or emergency brake are applied if the trailer battery voltage has dropped to an unsafe level, which would result in the brakes not operating correctly. This screen will also display if the trailer battery is disconnected.



Sleep menu

Press and hold 'Zz' in the top left corner of the screen for 5 seconds. Credo unit will beep 6 times and display sleep menu shown to the left. Press the indicated area of the screen to put the unit into sleep mode or press cancel to return to the home screen.

When put to sleep while plugged into power, tap screen to wake. If put to sleep while unplugged, unit will need to be plugged into power again to wake up.

Note: Trailer module is compatible with 12 or 24 volt. Cab unit is compatible with standard vehicle USB ports or 12 or 24 power sockets providing a 12-24 volt USB adapter is used.

Serial Number Locations

Incab Controller:

For serial numbers 1-2700 the serial number is located on the grey base of the controller or at the bottom of the black plate on the back if it is a touch screen controller.

Serial numbers 2701- when the touch screen controller is first connected to power the serial number is shown on the 4th screen that displays on start up.

Trailer Mount Controller:

Either engraved/stamped into the alloy base plate or etched into the front face of the trailer mount controller.

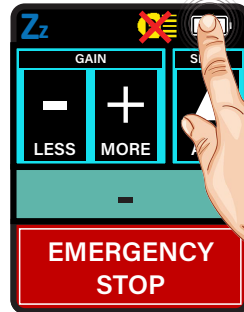


Recoding of Touch-Screen In-cab Controller

- 1 Power up In-cab controller on the USB cable and leave plugged in for the duration of coding the controller.
- 2 Wait till the screen displays the gain and sensitivity control buttons.
- 3 Press and hold the battery symbol for 5 seconds ignoring the screen flashing any messages.
- 4 The In-cab controller will do a single beep and display 2 buttons 'SET' and 'ESC', and a 4 digit number. This number is the number serial number of the matching trailer mounted controller.
- 5 Change the number by tapping each digit to increment the digit by one. To reach 0 increment the digit till it reaches 9 and then the next tap brings it back to 0. (Tip: tap lower on the numbers to avoid bumping ESC or SET).



Refer to step 2



Refer to step 3



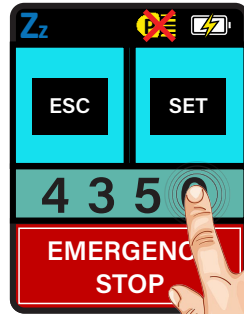
Refer to step 4

6 Once you have the serial number of your trailer mounted controller showing press 'SET' to lock the In-cab controller to that serial number.

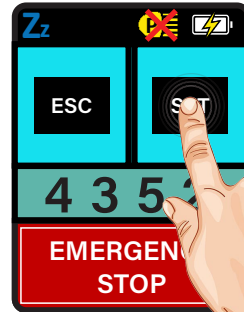
7 The In-cab controller will after a pause emit 3 beeps and return to the normal operation screen.

8 Connect the trailer to vehicle and turn on the headlights – check the head light symbol loses the red cross to prove it is connected to the trailer and functioning as normal.

9 If red cross doesn't go away, unplug In-cab controller and select immediate sleep if this screen appears. Leave unplugged for approx 5 seconds. Plug in the In-cab controller and if the serial number on the fourth start up screen does not match the number on the trailer, start recoding process again.



Refer to step 5



Refer to step 6



Fourth start up screen



Refer to step 8

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Troubleshooting

Fault

In-cab controller shows 'Low Trailer Battery' warning (old style In-cab Controller shows Eb Error)

Or

No tail lights / tail lights go out when brakes are applied.

Possible Causes

- Battery is excessively discharged.
- Bad connection between trailer mounted brake controller and battery.
- Blown battery fuse.
- Poor connection on battery terminals.

Repairs/Checks

- Check battery is over 12.5V when disconnected. If lower replace the battery.
- Check if battery is charging by disconnecting the battery leads, connect to vehicle and switch lights on. Then check for 14V on the end of the battery leads. A measurement of 14V means the charger is working – if no voltage then a replacement or repaired controller is required.
- Check leads, fuse holder and any connections between the battery and controller for poor / corroded connections. Any high resistance joins will cause excessive voltage drop to the controller under braking resulting in the 'Low Battery' error.

In-cab controller shows 'Please Drive with Your Headlights On' message, even though the headlights are on

(old style In-cab shows Ec Error).

- Serial number mismatch between Controller and Trailer.
- Faulty trailer plug
- In-cab controller cannot communicate with the trailer mounted controller due to interference
- Incorrect wiring by-passes controller.
- Poor connection on battery terminals.

- Obtain serial number: Refer to page 5
If they do not match then follow instructions on page 6/7.
- Check trailer plug pins are not corroded or crushed in, and either spread the pins, remove corrosion or replace the plug.
- Check the controller to In-cab connection by taking the in-cab unit back to beside the trailer mounted controller, if still error is still present controller needs to be replaced or repaired.
- Check the vehicle connection goes to only the trailer mounted controller and all tail and marker lights from the controller lights output.

Fault

Brakes randomly come on and lock up.

Possible Causes

- Faulty Break-away switch.
- Faulty Break-away wiring.
- In-cab controller has 'emergency stop' button pressed.

Repairs/Checks

- Check breakaway switch and wiring for a short circuit. Replace any faulty components or wiring.
- Make sure In-cab controller is securely mounted on vent holder and emergency stop button not inadvertently pressed.

Braking output on In-cab controller stays at '-' on the screen when brakes are applied.

- Faulty trailer plug / vehicle connection.
- Incorrect wiring bypasses controller.

- Check and repair trailer plug and vehicle socket and associated wiring - replace any faulty parts.
- Check vehicle connection goes directly to the controller and does not bypass the controller.

In-cab Controller shows '0' or higher numbers when brakes applied but no braking happens.

- On electric drums - Faulty wiring or magnets.
- On hydraulic actuator driven brakes - Faulty wiring or isolator if fitted

- On electrics check wiring and drum magnets for faulty connections. Normal magnet resistance is 5 Ohms. 2 Magnets together is 2.5Ohms and 4 is 1.25 Ohms.
- On Hydraulic the Blue signal wire should be checked for voltage when the emergency stop being is pressed. If there is some voltage and there is no brakes then call for assistance.

Maintenance and checks

- Check battery is keeping well charged. A well charged battery should be at or above 13 volts. This is particularly important if the trailer is left parked for extended periods of time. If the trailer is not used for extended periods the battery should be removed every 2 months and charged to ensure it does not become damaged. This can happen if the battery charge drops below 10.5 volts.
- Check the trailer plug and vehicle socket to ensure they are not damaged and they give a sound electrical connection. An intermittent or faulty connection could mean the brakes do not function correctly.
- If fitted with a hydraulic actuator make sure the fluid level remains sufficient. The fluid should be changed in line with general trailer service intervals.
- If fitted with electric drums make sure they are kept properly adjusted and that the magnets and linings are not excessively worn and are replaced in line with general trailer service intervals.

Warranty Terms and Conditions

LIMITED 18 MONTH WARRANTY CONDITIONS

Trailequip Ltd warrants that the mechanical and electrical components of the TRAILPARTS/CREDO products as listed below will be free of defects in material and workmanship for a period of eighteen months from the original date of purchase.

Whilst we take every effort to ensure compatibility with all known vehicles we cannot guarantee 100% compatibility for all vehicles.

To obtain any warranty service, you must provide Trailequip Ltd with proof of purchase, such as a copy of your tax invoice or purchase receipt, which will include a purchase date and the serial number of your product. This warranty does not cover the removal or re-fitting of the product.

TRAILPARTS/CREDO will, at its discretion, repair, replace or refund the purchase price of a defective product or component, provided you return the defective product or component during the warranty period, freight charges prepaid, to Trailequip Ltd or to an authorized TRAILPARTS/CREDO dealer or stockist. Attach your name, address, email address, telephone number, a description of the problem, and a copy of the tax invoice or purchase receipt listing the date of purchase and the TRAILPARTS/CREDO serial number of the defective product.

This warranty does not apply if the product has been damaged by misuse, overloading, impact, modification, improper installation. This warranty is void if any TRAILPARTS/CREDO serial number has been removed, altered, or defaced.

Please contact the below for warranty service or support:

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