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Nuestro producto está homologado internacionalmente para ser instalado en vehículos industriales.  
ISO 9001:2008 TÜV Rheinland nº reg. 01100028004  
Certificado de la Unidad de Certificación del Automóvil UCA  
Homologación según Reglamento CEPE / ONU R10 y marcado CE  
Empresa inscrita en el registro de fabricantes de vehículos del Ministerio de Industria según RD 750/2010



PLASTECHNIC®

## pesaje a bordo

LECC 8.0 Pro

MANUAL DE USUARIO 



## on-board weighing system

LECC 8.0 Pro

USER MANUAL 

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## SAFETY INSTRUCTIONS.

Please, read carefully following safety instructions. Not following them might be dangerous or illegal.

- For a correct installation, please follow the instructions in this manual.
- The electronic Load Control Reader must be installed by qualified personnel.
- Warning! Humidity may damage the device. Keep it away from humidity.
- To ensure a correct weight value is calibrated, place the vehicle on a flat area, with all the axles down and the brakes off.
- The device instantly records the suspension pressure in real time. The amount of time the weight takes to be displayed depends exclusively on the speed of the vehicle reaching the correct height while loading.
- Once the device is adjusted, it is advised to keep a copy of F.A1 and F.A2 data.
- Always use the device with the vehicle immobilized.

## FAILURE WARNING

The device is able to detect possible anomalies in the installation or operation, displaying the following error messages on the screen:

ERROR	DESCRIPTION	POSSIBLE CAUSES AND SOLUTIONS
<b>ERROR - 1 - AXLE X</b> - SEE MANUAL -	The display is not detecting the sensor or sensors from the axle number X (1 o 2).	<p>Wire is unplugged or damaged. Check that the wire is plugged from both sides. Check that wire is not damaged. Replace the wire when needed.</p> <p>The sensor or sensors from the axle is damaged. Contact the Technical Service Department.</p>
<b>ERROR - 2 - AXLE X</b> - SEE MANUAL -	The display detects a very low pressure at the sensor or sensors of axle number X (1 o 2).	<p>Low pressure at the suspension circuit. Check the installation. The cable that leads the air signal to the sensor can be clamped. The pressure detected by the sensor is close to 0 Bars. Check it.</p> <p>The sensor or sensors from the axle is damaged. Contact the Technical Service Department.</p>
<b>ERROR - 3 - AXLE X</b> - SEE MANUAL -	The display detects a very high pressure at the sensor or sensors of axle number X (1 or 2).	<p>The pressure at the suspension circuit is very high. Check the installation. Verify that the air signal comes from the air bag and not from the air receiver tank of the suspension. The pressure detected by the sensor is close to 10 Bars. Check it.</p> <p>The sensor or sensors from the axle is damaged. Contact the Technical Service Department .</p>

In case you are not able to solve the fault you can contact our technical service : Tel. +34 663 910 260 / +34 646 570 327

## WARRANTY

Limited Warranty:

For 2 years against any manufacturing defects. If the device requires warranty service, please return it to the retailer where you purchased it.

Conditions:

The warranty is only valid if the original receipt, clearly showing and identifying the date of purchase, is presented for repair or replacement.

The warranty does not cover defects caused by misuse, incorrect installation or accident.

Model:	Manufacturing Number:	Distributor Information:
Type: LECC8.0 PRO	Date of sale:	

## TECHNICAL DATA

### DISPLAY TECHNICAL DATA:

Dimensions: 175x52x40 mm. Adaptable to standard DIN.

Colour: ABS Black

Display: 3.7" TFT with 240x960 resolution and extended temperature range -20°C to +70°C

Supply: 24 Vcc.

Consumption: approximately 100 mA.

Accuracy of measurement: Standard  $\pm 0.5\%$  FS, maximum  $\pm 0.8\%$  FS.

Steps: 20 Kg.

Bluetooth.

### SENSOR BOX TECHNICAL DATA:

Dimensions: 91x166x56 mm.

Colour: ABS Black.

Range: 0 - 10 Bar.

Protection class : IP65.

### OPTIONS

RS232 Serial Output. (Printer, PC, GPS or any other device with that communications standard.

## VIEWER DESCRIPTION



ON / OFF



ENTER AND ADVANCE IN THE EQUIPMENT SETTINGS



ACCEPT SETTING

ENTER SPECIAL MENUS (PRINTER/FLEET MANAGEMENT)



EXIT THE MENU OR SETTINGS WITHOUT SAVING CHANGES



SWITCH BETWEEN NET, GROSS, AND DIFFERENCE DISPLAY MODES  
INCREASE THE SETTING VALUE



SWITCH BETWEEN NET, GROSS, AND DIFFERENCE DISPLAY MODES  
DECREASE THE SETTING VALUE

# APPLICATION ANDROID & iOS Plastecnic

Our Plastecnic app for ARTICULATED, RIGID VEHICLES AND ROAD TRAINS can be downloaded for free from the Google Play and App Store:

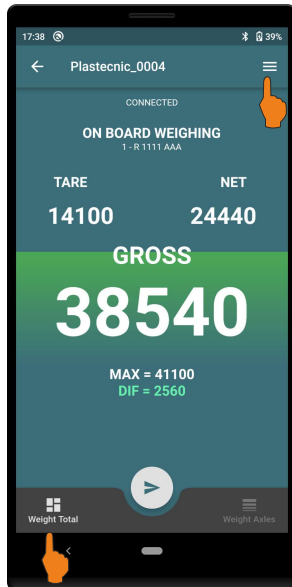
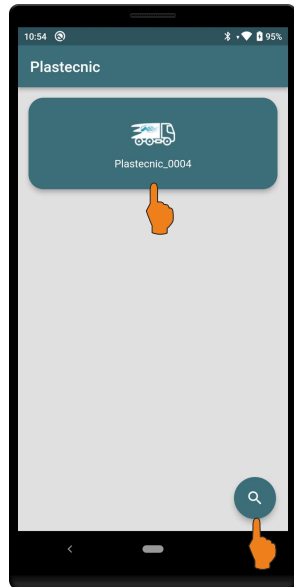


Once the application is opened, search for the device "Plastecnic\_xxxx" and click on it.

The mobile phone will then be connected to the Load Reader and we will have access to the rest of the application in the Total Weight, Axle Weight tabs and the drop-down menu.

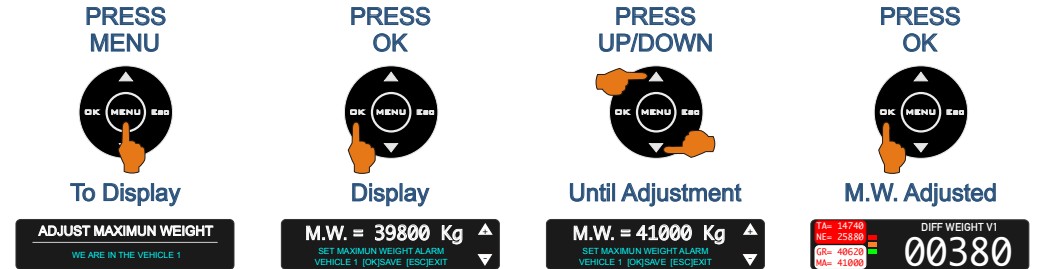
The Total Weight tab displays the tare, net, gross weight, and the difference from the target maximum gross weight.

The Axle Weight tab shows the weight per axle and the differences from the target maximum weights on each axle.



## MAXIMUM WEIGHT SETTING

The device can alert us when a target weight has been reached or exceeded with an audible alarm, as well as a load status indicator. To adjust this weight, proceed as follows:



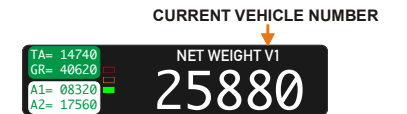
For example, with the maximum weight set to 41000 kilos, the device will beep when that target weight is reached or exceeded. The load indicator works as follows:



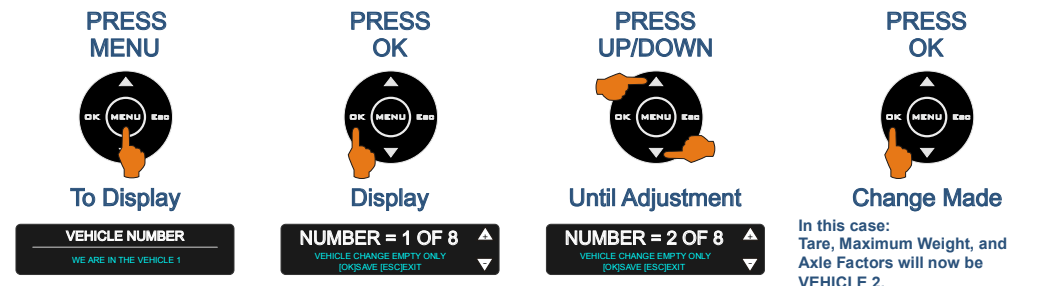
## CHANGE OF VEHICLE

The device is capable of storing tare, maximum weight, and factor values for up to eight different vehicles in memory. This function is designed, for example, for equipment located on a tractor unit that regularly works with more than one semitrailer. This allows:

- TRUCK + SEMITRAILER 1 => VEHICLE 1
- TRUCK + SEMITRAILER 2 => VEHICLE 2
- .....
- TRUCK + SEMITRAILER 8 => VEHICLE 8



Let's assume we've programmed the system for trailer 1 and then switch trailers. We can switch vehicles on the display and then perform the corresponding programming without losing the settings made on vehicle 1. Once both vehicles are programmed, their values are stored in separate locations. When we switch back to trailer 1, we'll simply switch vehicles on the display, and it will retrieve the previously stored data. This process can be performed for up to 8 trailers.



We perform the following operations:

E.g. :

$$WL1 - WE1 \Rightarrow WA1 = \underline{\hspace{2cm}} \text{ Kg} \quad 18.020 - 9.700 = 8.320 \Rightarrow WA1$$

$$WL2 - WE2 \Rightarrow NET = \underline{\hspace{2cm}} \text{ Kg} \quad 40.620 - 14.740 = 25.880 \Rightarrow NET$$


$$NET - WA1 \Rightarrow WA2 = \underline{\hspace{2cm}} \text{ Kg} \quad 25.880 - 8.320 = 17.560 \Rightarrow WA2$$

Place the vehicle in a FLAT AREA, with ALL THE AXLES DOWN and BRAKES OFF.


Turn the device on:

### ADJUSTMENT OF THE WEIGHT ON THE TRUCK (W.A1)


**PRESS MENU**



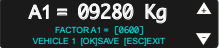
To Display




**PRESS OK**



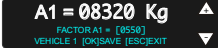
Display




**PRESS UP/DOWN**




Until Adjustment



**PRESS OK**




Axle 1 Adjusted




### ADJUSTMENT OF THE WEIGHT ON THE SEMITRAILER (W.A2)


**PRESS MENU**



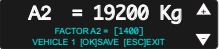
To Display




**PRESS OK**



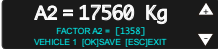
Display




**PRESS UP/DOWN**




Until Adjustment



**PRESS OK**



Axle 2 Adjusted



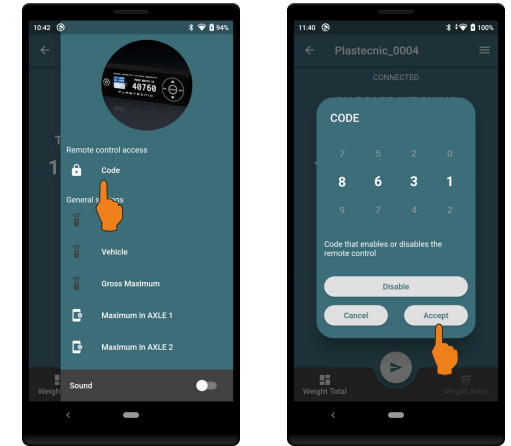
THE DEVICE IS NOW ADJUSTED AND READY TO USE..

In the following loading processes, a fine adjustment may be necessary, which we will make on the AXLE Factor 2, to eliminate small differences.

## APPLICATION ANDROID & iOS Plastecnic

Using a unique code, the application allows secure access to all settings of the version 8.0 PRO charge reader.

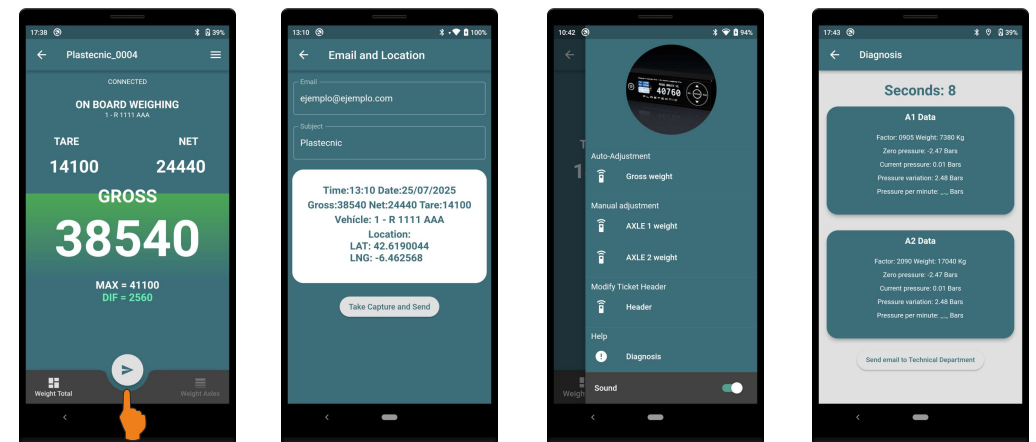
You can find your verification code in the last 4 digits of your device's serial number.



By pressing a floating button on the main screen, you can send the information received from the charge reader to any email address.

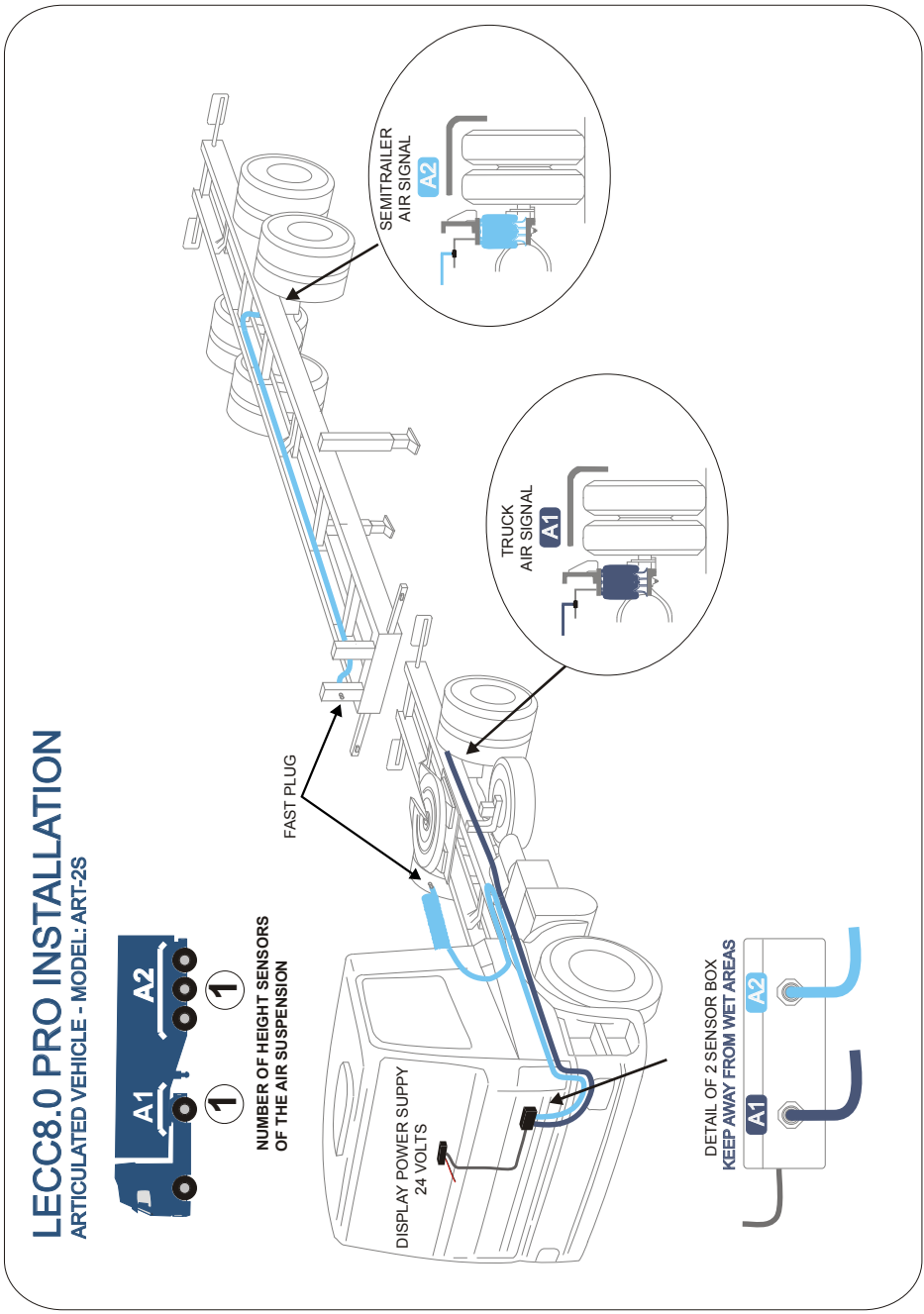
Any problems that may arise during installation or programming will be reflected in a new diagnostic function, allowing for faster resolution.

The captured data can also be easily sent by email to our technical department for evaluation.



Visit our web: [www.mvplastecnic.com](http://www.mvplastecnic.com) for more information.

## 2 SENSORS SYSTEM INSTALLATION



LECC8.0 PRO INSTALLATION  
ARTICULATED VEHICLE - MODEL: ART-2S

NUMBER OF HEIGHT SENSORS  
OF THE AIR SUSPENSION

DETAIL OF 2 SENSOR BOX  
KEEP AWAY FROM WET AREAS

## MANUAL ADJUSTMENT

### Step 1. WEIGH THE EMPTY VEHICLE

Weigh the tractor unit up to the support feet.  
Take note on the user manual.

WE1 = \_\_\_\_\_ Kg      E.g. : **09700**



Weigh the entire vehicle.  
Take note on the user manual.

WE2 = \_\_\_\_\_ Kg      E.g. : **14740**



Place the vehicle in a **FLAT AREA**, with **ALL THE AXLES DOWN** and **BRAKES OFF**. (We recommend to have half fuel tank)

Turn the device on:

<p><b>PRESS MENU</b></p> <p><b>To Display</b></p>	<p><b>PRESS OK</b></p> <p><b>Display</b></p>	<p><b>PRESS UP/DOWN</b></p> <p><b>Until Adjustment</b></p>	<p><b>PRESS OK</b></p> <p><b>Tare Adjusted</b></p>								
<div style="background-color: #333; color: white; padding: 5px; font-size: 0.8em;"> <b>ADJUST TARE WEIGHT</b>  <small>WE ARE IN THE VEHICLE 1</small> </div>	<div style="background-color: #333; color: white; padding: 5px; font-size: 0.8em;"> <b>TARE = 14000 Kg</b> ▲▼  <small>ADJUST ONLY WITH EMPTY VEHICLE VEHICLE 1 [OK]SAVE [ESC]EXIT</small> </div>	<div style="background-color: #333; color: white; padding: 5px; font-size: 0.8em;"> <b>TARE = 14740 Kg</b> ▲▼  <small>ADJUST ONLY WITH EMPTY VEHICLE VEHICLE 1 [OK]SAVE [ESC]EXIT</small> </div>	<div style="background-color: #333; color: white; padding: 5px; font-size: 0.8em;"> <table border="0"> <tr> <td style="font-size: 0.7em;">TARE= 14740</td> <td style="font-size: 0.7em;">GROSS WEIGHT V1</td> </tr> <tr> <td style="font-size: 0.7em;">NE= 00000</td> <td></td> </tr> <tr> <td style="font-size: 0.7em;">A1= 00000</td> <td style="font-size: 0.7em;"><b>14740</b></td> </tr> <tr> <td style="font-size: 0.7em;">A2= 00000</td> <td></td> </tr> </table> </div>	TARE= 14740	GROSS WEIGHT V1	NE= 00000		A1= 00000	<b>14740</b>	A2= 00000	
TARE= 14740	GROSS WEIGHT V1										
NE= 00000											
A1= 00000	<b>14740</b>										
A2= 00000											

### Step 2. WEIGH THE LOADED VEHICLE

Weigh the tractor unit up to the support feet.  
Take note on the user manual.

WL1 = \_\_\_\_\_ Kg      E.g. : **18020**



Weigh the entire vehicle.  
Take note on the user manual.

WL2 = \_\_\_\_\_ Kg      E.g. : **40620**



### STEP 2. WEIGH THE LOADED VEHICLE

E.g.:



Place the vehicle in a FLAT AREA, with ALL THE AXLES DOWN and BRAKES OFF.  
Turn the device on:

<p><b>PRESS MENU</b></p> <p><b>To Display</b></p>	<p><b>PRESS OK</b></p> <p><b>Display</b></p>	<p><b>PRESS UP/DOWN</b></p> <p><b>Until Adjustment</b></p>	<p><b>PRESS OK</b></p> <p><b>Adjusted Weight</b></p>
<p><b>-AUTO- DEVICE ADJUSTMENT</b> WE ARE IN THE VEHICLE 1</p>	<p><b>GROSS = 38820 Kg</b> ▲ LOAD PROCESS 1 VEHICLE 1 [OK]SAVE [ESC]EXIT ▼</p>	<p><b>GROSS = 40620 Kg</b> ▲ LOAD PROCESS 1 VEHICLE 1 [OK]SAVE [ESC]EXIT ▼</p>	<p>TA= 14740 GROSS WEIGHT V1 NE= 25540 AL= 98020 A2= 17560 <b>40620</b></p>

Once these two steps are completed, the third step may not be required, as the equipment can correctly measure the weight in subsequent loading processes. If there are significant discrepancies, we would move on to Step 3, where we would re-enter the total gross vehicle weight.

### STEP 3. WEIGH THE LOADED VEHICLE

E.g.:

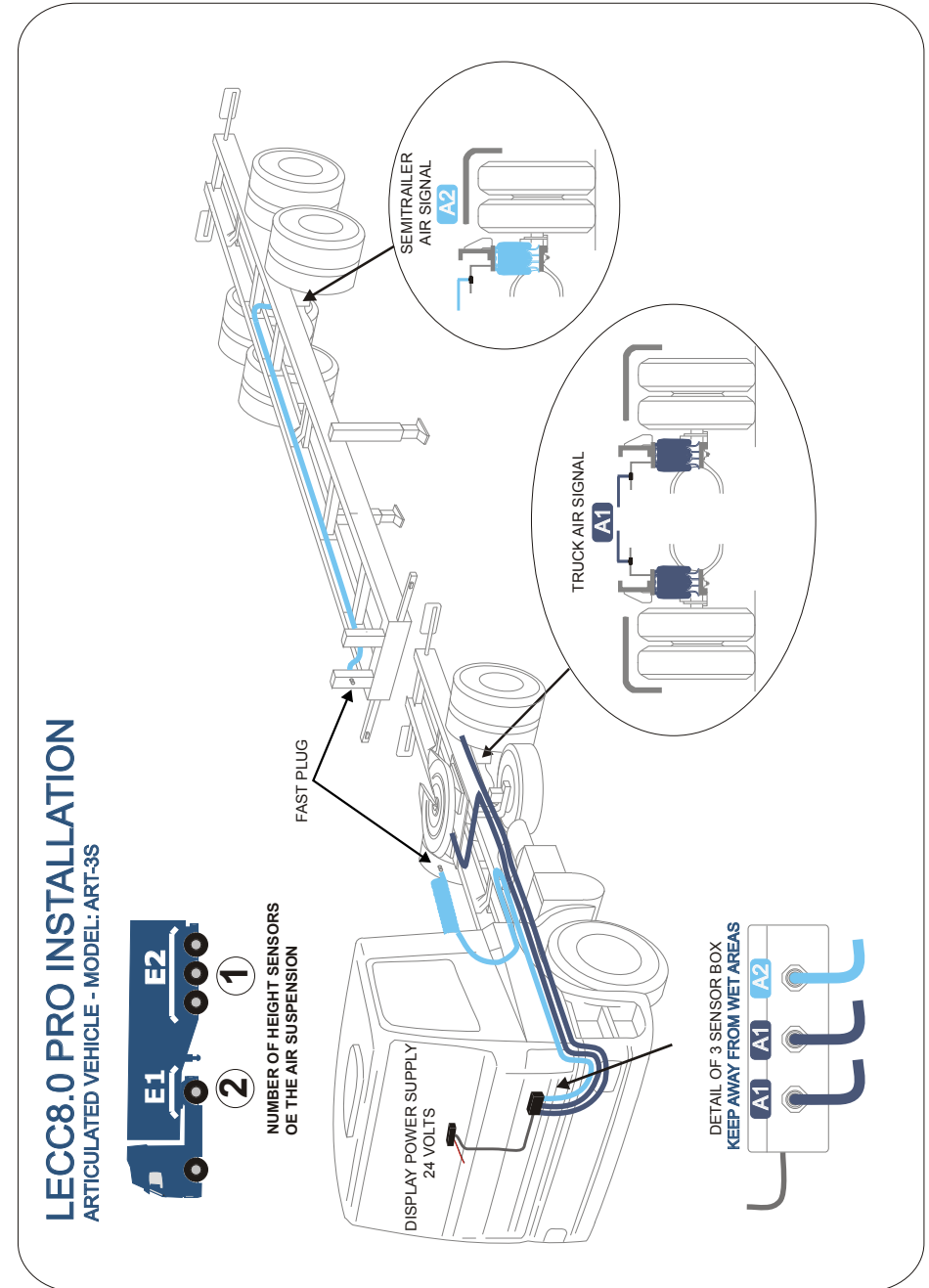


Place the vehicle in a FLAT AREA, with ALL THE AXLES DOWN and BRAKES OFF.  
Turn the device on:

<p><b>PRESS MENU</b></p> <p><b>To Display</b></p>	<p><b>PRESS OK</b></p> <p><b>Display</b></p>	<p><b>PRESS UP/DOWN</b></p> <p><b>Until Adjustment</b></p>	<p><b>PRESS OK</b></p> <p><b>Adjusted Weight</b></p>
<p><b>-AUTO- DEVICE ADJUSTMENT</b> WE ARE IN THE VEHICLE 1</p>	<p><b>GROSS = 41420 Kg</b> ▲ LOAD PROCESS 2 [MENU] REBOOT VEHICLE 1 [OK]SAVE [ESC]EXIT ▼</p>	<p><b>GROSS = 40280 Kg</b> ▲ LOAD PROCESS 2 [MENU] REBOOT VEHICLE 1 [OK]SAVE [ESC]EXIT ▼</p>	<p>TA= 14740 GROSS WEIGHT V1 NE= 25540 AL= 98020 A2= 17560 <b>40280</b></p>

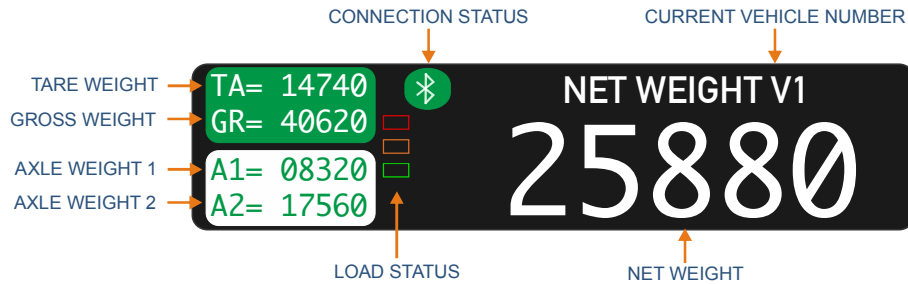
If the screen displays **-COMPATIBLE PROCESS-** the device is programmed and ready for use.  
If the display shows **-INCOMPATIBLE PROCESS-** the device could not calculate the factors because the loading processes are too similar in distribution or the weight difference is too small. We recommend that you perform the next loading process unevenly so that the device can perform the calculations, or **RESTART THE PROCESS BY PRESSING THE MENU KEY (Load Process 1).**

### 3 SENSORS SYSTEM INSTALLATION

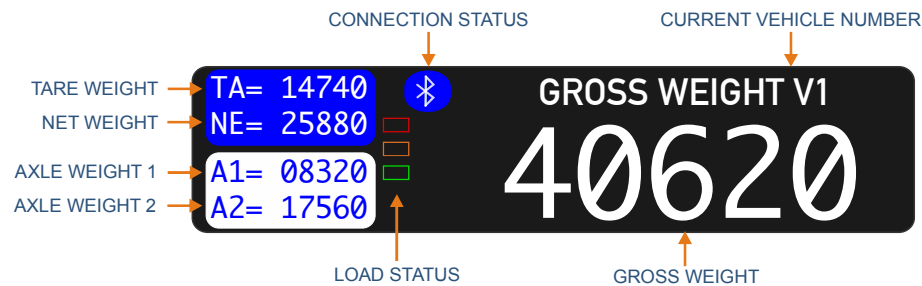


## DISPLAY OPTIONS

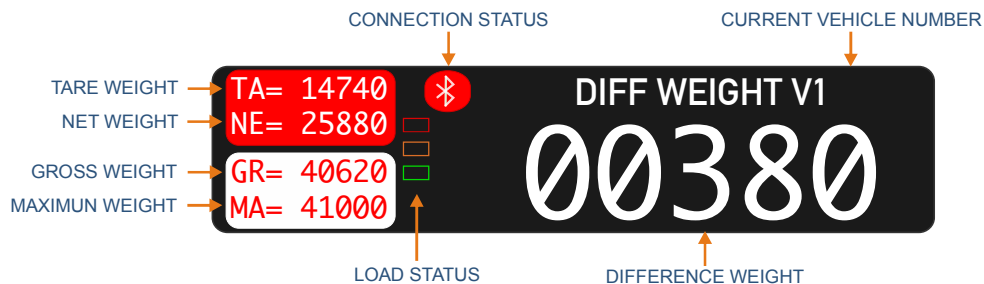
### Display Option 1: NET



### Display Option 2: GROSS



### Display Option 3: DIFFERENCE TO MAXIMUM VEHICLE WEIGHT



PRESS UP/DOWN



To switch between the different displays, use the up and down buttons. The device will memorize the display with which it turns off, meaning the display with which it turns on will be the one with which it turns on.

## AUTO-ADJUSTMENT

What we call E1 and E2 (see installation) can correspond to one or more axles of the vehicle, depending on the suspension structure.

With the same net weight, the vehicle can carry more or less load on the axles depending on their distribution.



Thus, we have two measurement points on articulated vehicles, and we need to know how much weight each can support. The processes and calculations required to determine these weights are what we call equipment adjustment.

In automatic adjustment, the mathematical operations are performed by the display itself, making it the simplest method.

### STEP 1. WEIGH THE EMPTY VEHICLE

E.g.:



Place the vehicle in a FLAT AREA, with ALL THE AXLES DOWN and BRAKES OFF. (We recommend to have half fuel tank)

Turn the device on:

