LABA7 Motorcycle Scales LITE

User Manual

Lithuania 2026

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1.   Introduction

Dear Customer,

Thank you for purchasing this product.

To ensure safe operation, you must observe these operating instructions!

Read the entire operating instructions before using the product for the first time. Observe all operating instructions and safety instructions!

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2. Safety Information

- Make sure to read and understand the whole user manual before using the scales.
- Do not operate near an open flame or heat source.
- Place on a flat and level surface.
- Do not place in a highly corrosive or humid environment.
- Do not use the device or any of its components if they have been damaged.
- Do not perform any maintenance while the device is powered on.
- Do not use leaking batteries.
- Do not exceed the technical specifications of the device.
- Use only AA type batteries, do not mix it with other types.
- Do not mix new and used batteries.
- Do not attempt to recharge non-rechargeable batteries.
- Before charging rechargeable batteries - remove it from the device.
- Remove the batteries if the device is stored unused for a longer period of time.
- Do not short the power supply terminals.
- Remove and safely dispose exhausted batteries.

3.   Highlights

Congratulations on your purchase of the LABA7 Car Scales!

- Bluetooth 5.1 LE connectivity.
- iOS/Android compatible.
- Lightweight billet aluminum construction.
- 3 load sensors per pad.
- 2D or 3D visualization of the center of mass.
- 3 points of easy leveling.

4.   Technical Specifications

- Power 3xAA batteries per pad (4.5V).
- Minimum weight per pad: 1kg.
- Maximum weight per pad: 600kg.
- Working temperature (+10°C to +30°C) *device works in wider temperature range; however, the same accuracy is not guaranteed.
- Bluetooth range: up to 100m.
- 1 pad weight: 4.5kg.
- General size: 450x450x450mm (triangle).
- Measuring pad size: 250x250x250mm (triangle) (billet aluminum 15mm plate).
- Resolution: 10g.
- Accuracy: ±0.1% FS (C3).

5. Know Your Scales

5.1. Overview

The overview of the LABA7 Motorcycle Scales LITE is presented in the image below:
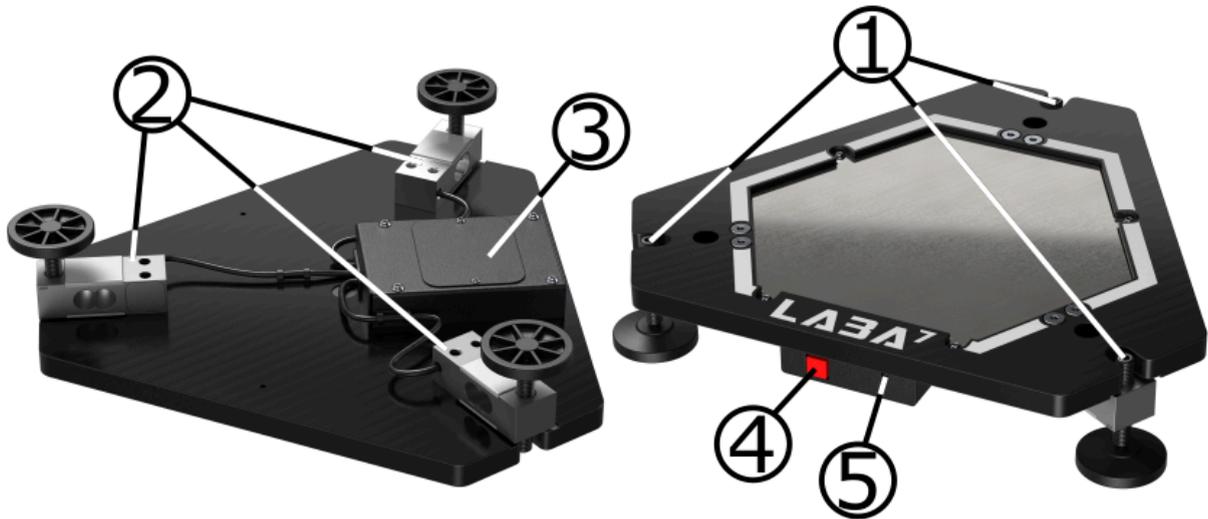
Fig. 1.

1. Leveling feet no. 1-3.
2. Load cell no. 1-3.
3. Battery compartment.
4. Power ON/OFF button.
5. LED indicator.

LED indication

The scale pads have built in LED indicator, its placement is shown in the picture above (No. 5).

- Led is OFF - scale pads are in sleep mode or turned off.
- LED is blinking rapidly every 1 second – Scales in connection mode, waiting for the application to connect.
- LED pulses smoothly – scales are connected to the application, and weighing is in progress.

6. Accessories

6.1. Laser leveling set
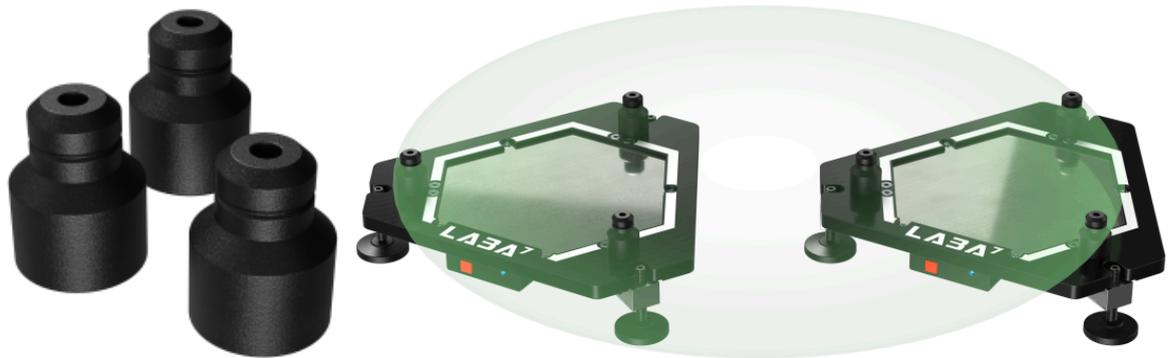

Fig. 3.

Leveling figures are used during laser leveling, which is described in paragraph 9.1.

One set includes 6 leveling figures and a laser.

7. Preparation for use

7.1. Assembling the scales

LABA7 scale pads require very little assembly after unpacking. The user only needs to install the leveling feet, which are shown in the paragraph 5.1 (no. 1). It has to be screwed in from the bottom side of the pad.

8. First launch

After scale pads are fully assembled, and batteries are installed, user must download the app named "LABA7 Car Scales" from the App store or Google play store and link every pad to the app.

⚠️ ATTENTION: Bluetooth and location services must be turned on.

1. Place every pad on the ground.

2. Turn on the app.

3. Turn on all the pads with the button located near battery compartment. Blue light should blink rapidly, it means that the pad is in connection mode.
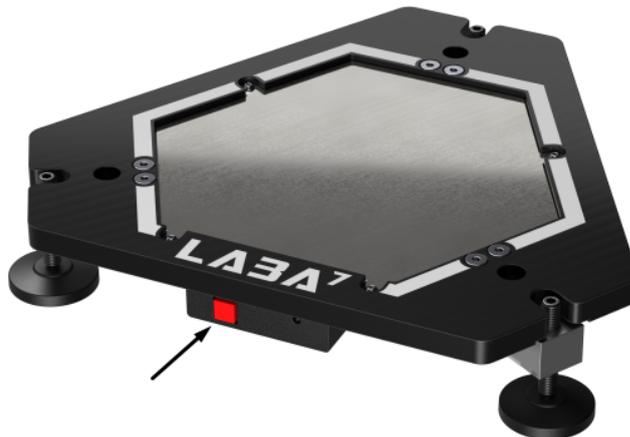
Fig. 5.

4. After scales are turned on/setup mechanically, we need to assign them in the app. Go to the settings menu by pressing ≡ icon in the bottom right corner. Then, press "SETUP DEVICES".

5. Every wheel has its own pad: Front and Rear.

Fig. 6.

6. Press on Front, the list opens with all visible pads. Press on the corresponding scale pad name. After the signal strength icon near the pad address turns green it means it is successfully connected. Remember that this pad will always have to be under front wheel.

7. Do the same with remaining pad.

9.   Weighing a Motorcycle

There are two types of weighing a motorcycle. Weighing just the total weight of the motorcycle, or weighing-out motorcycle corner weight.

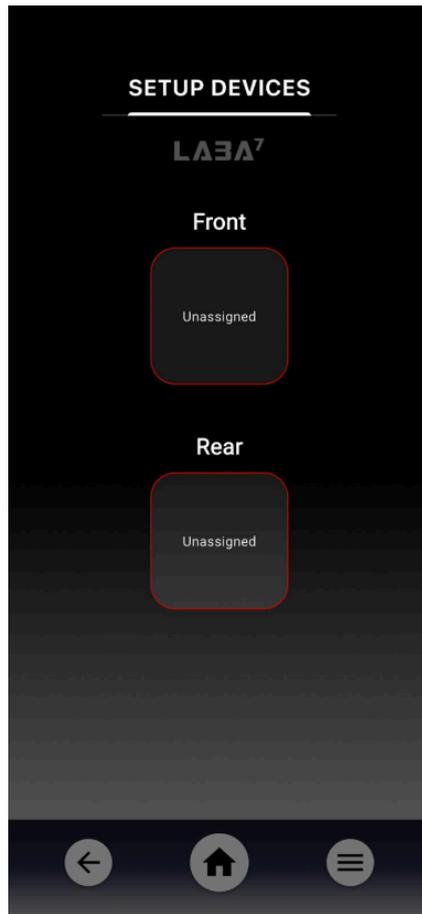## 9.1.   Weighing out corner weight - Laser leveling

If the user needs to scale out motorcycle corners, he must use laser leveling. To level the scale pads with the laser, user has to complete following steps:

- Slide the pads under the wheels. The center of the wheel must be as close as possible to the center of the scale pad.

- Put the leveling figures on the scale pads as shown in picture below.

Fig. 9.

- Put the laser in front of the motorcycle. Adjust it to the point that the laser is pointing at the upper part of the leveling figures, as shown in the picture above.

- Adjust the pad so the laser points to the same spot on every leveling pin. Adjusting is done by turning 3 leveling feet with an allen key.

- Do the same for remaining pad.

⚠️ ATTENTION: Laser leveling is necessary to correctly scale out the motorcycle corner weight.

9.2. Measuring distances between wheels and axles

To measure the mass center of the motorcycle, measure distances between front and rear wheel.

Wheel distance measurements are done by measuring distance from the middle of the front wheel to the middle of the rear wheel. (check the picture below).

Enter the measured value into the axle section in the app.
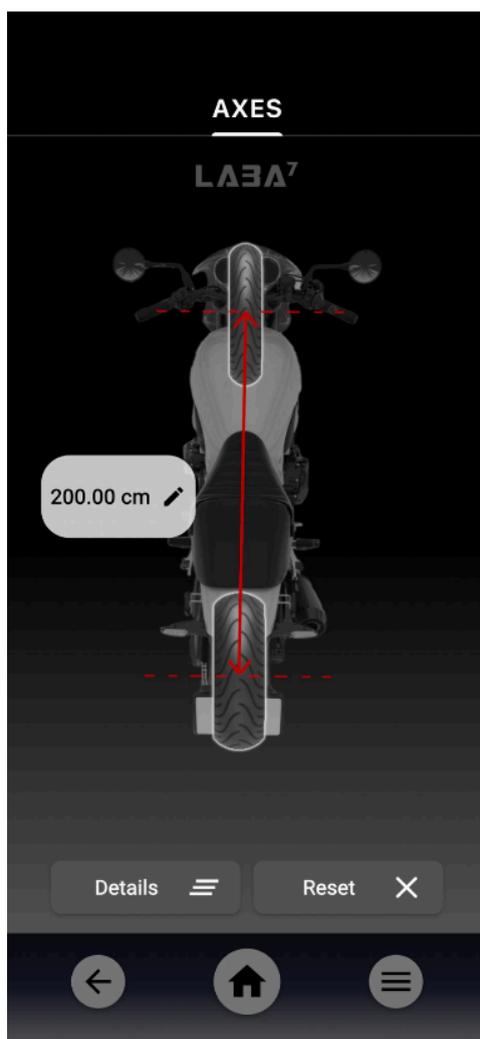
Fig. 10.

9.3. Putting the motorcycle onto the scales

To put the motorcycle onto the scale pads, the motorcycle needs to be lifted, and the pads need to be slid under the wheels. Then, the motorcycle must be slowly lowered onto the pads. The motorcycle can be lifted by lifting all wheels together at a time, or every wheel one by one.

10. LABA7 Scale Software

All the control and output of the scales work via LABA7 car scales app on your phone.

Fig. 11.

- Tap and swipe to move through the app.

- App has visual and text output modes.

- App works with Android and iOS platforms.

- Every pad shows its battery status in the app.

- App shows measurements like diagonal weight, mass offset.

10.1. Visual and text modes in the app

The app is able to represent the data in two forms: Visual and Text. To switch between the modes, swipe left/right.

Fig. 12.

10.2. Setup devices
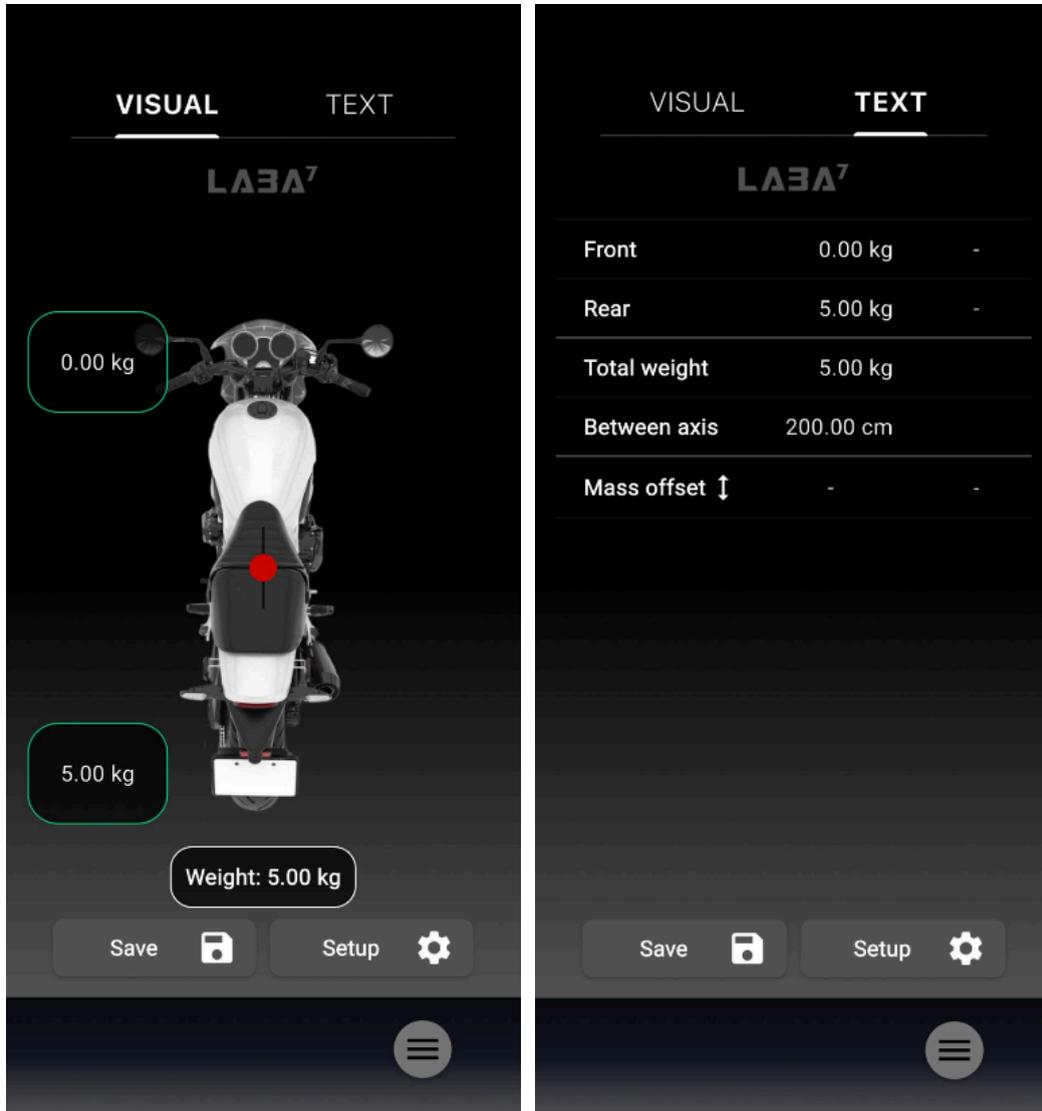
1. In the app, go to settings menu and select "Setup devices" .

2. Every wheel has its own pad: Front and Rear.

3. Press on "Front", the list opens with all visible LABA7 pads. Press on the corresponding one. After the signal strength icon near the pads address turns green `Laba7 FR    AFD474F3 📶`, it means it is successfully connected. Remember that this pad will always have to be under front wheel.

4. Do the same with every other pad.

Bluetooth loading time can take up to 10s.

10.3. Setup

To get the most accurate results from the LABA7 motorcycle scales and its app, the user can enter basic motorcycle parameters and identification details. These include axle distance measurements and general motorcycle information such as make, model, and registration number.

To access the motorcycle setup screen, press the `Setup ⚙` button located at the bottom of the app.

- In axes parameters, user has to measure distances from front and rear wheels. The measurement has to be taken from the middle of the wheel. In the app there is a visual instruction from which points to measure. After measurements are taken, press `0.00 cm ✏` and enter the distance.
- After pressing on `Details ≡` , the user can enter general identification information about the vehicle. Press on the corresponding fields to enter:
  - Make.
  - Model.
  - Registration.

10.4. Navigation

- Press to get back to the home screen.

- Press to get back to the previous screen.

- To open the settings menu, press in the lower right corner of the app.

10.5. Tare

After opening tare settings, both of the pads and weight on them is shown. If there is no weight on them, but the app does not show 0kg, press [Tare Now] button in the middle bottom of the app. If both of the pad values went to 0, press 🏠 .

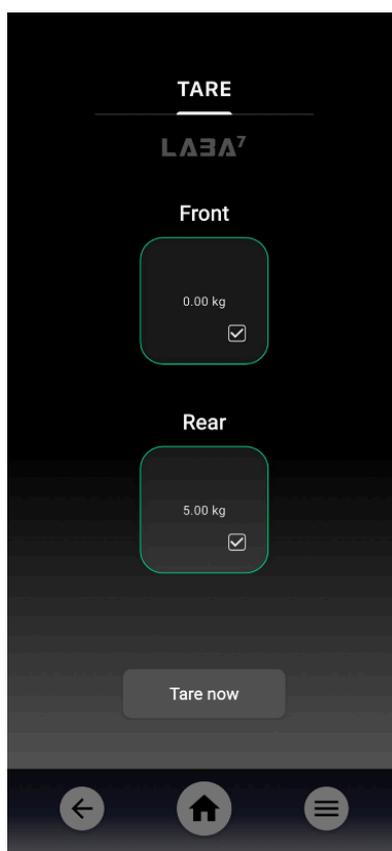Fig. 14.

Each scale can be tarred individually. Click on the corresponding checkbox in order to select or deselect the scale to be tarred.

10.6. Options

Accessing the Options menu – All configurable system settings are available in the Options menu. To access this menu, open the main application menu ☰ and select "Options". From there, the user can configure the parameters detailed below.

Unit system – Defines the measurement standard used by the application. The user can select between **Metric** and **Imperial** units.

Driver side – Specifies the vehicle steering wheel position. The user can select either **Left-hand drive** by selecting "Left" or **Right-hand drive** by selecting "Right", depending on the vehicle.

Background image – Allows the user to change the car image displayed on the main screen. To select a new image, press [icon] next to "Background image" and choose the desired file. We recommend using a **327 × 652 PNG image with a transparent background** for optimal display quality.

Fuel density – Specifies the density of the fuel used in the vehicle.

Vehicle mode – Defines the type of vehicle being used. The user can select either **Car** or **Motorcycle**, which adjusts the interface and calculations to match the selected vehicle type.

Company logo – Allows the user to upload an image that will be displayed in generated reports. To select a new image, press [icon] next to "Company logo" and choose the desired file.

Company details – Allows the user to enter information that will be displayed at the bottom of reports.

Weight drift – Determines how weight measurements are displayed. The user can select "Show raw" to view unadjusted values or "Compensate" to apply automatic corrections for measurement drift.

LABA7 logo – Determines whether the LABA7 logo is displayed in generated reports. The user can select "Show" to include the logo or "Hide" to remove it.

Local gravity – Allows the user to enter the local gravitational acceleration value. This setting is used to ensure accurate calculations that depend on gravitational forces.

10.7. Calibration

For the best accuracy over time, the user is allowed to calibrate the scales by himself. To do it, some object with exact known weight is needed (more than 20kg). This feature is for experienced users only, the user takes the responsibility for proper calibration of the scales.

1. In settings menu, press calibration. The warning message will pop up. If the user wants to proceed further, press **continue**.

2. Press on the desired pad.

3. Press [Tare Now].

4. Put the object on the pad with the exact known weight.

5. Enter this weight in the app.

6. Press [Calibrate].

7. Do the same with remaining pad.

10.8. Reports

The app is able to save reports of every motorcycle user has done measurements with. To do this, press [Save] which is in the lower left side of the app. Enter the name and comment (if needed), and press "save" button. The reports can be found in the settings [☰], then "saved reports".
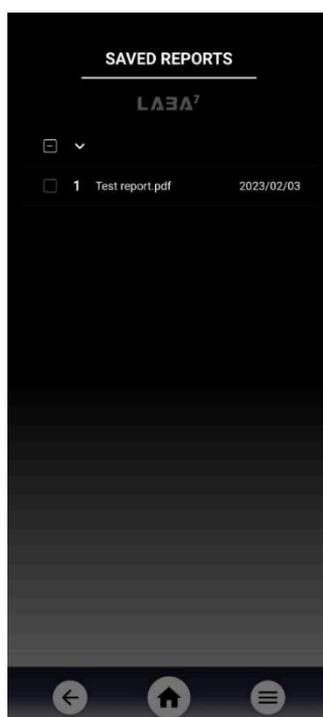

Fig. 15.

The app gives the user possibility to share and delete saved reports. To do this, go to saved reports; after selecting one or more reports, share [◁] and delete [☐] icons appear.

10.9. Calculations and measurements
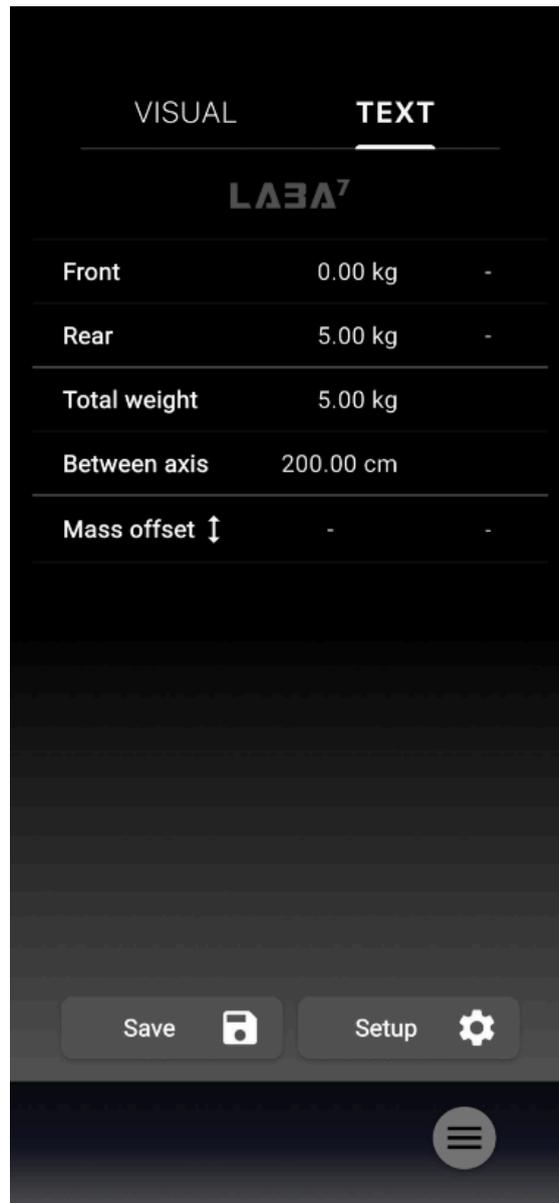
Fig. 16.

LABA7 scale app is able to represent measurements received from the pads. Front – represents how much weight is on front axle.

1. Rear – represents how much weight is on the rear.

2. Total weight represents the total weight of the motorcycle. It is Front and Rear weights summed up.

3. Between axis represents distance between front and rear axles.

4. Mass offset ↕ represents how much the mass center deviates from the center of the car in the vertical axis.

11. Troubleshooting

11.1. Possible problems and solutions

Problem	Possible solution
App does not see one or more of the pads.	Go to the settings, setup devices, check if all of the pads are linked and lights in green color. MAC address of each pad should be shown.
App does not see any of the pads.	Check if the Bluetooth is enabled on the phone.
Some of the pads does not connect to the app.	Check if the batteries are ok.
The pad does not turn on.	Check if the batteries are full and if they are installed correctly.
App does not see one or more of the pads.	Check if the pads are active. Blue light should be flashing
Some of the pads is not seen during device setup.	Check if the pads are active. If not, press the white button. Blue light flashing indicates that the pad is on.
App does not connect to one or more pads, although they are visible.	Restart the app and the scales pads.
App does not connect to any of the pads.	Check if location services on the phone are turned on.

11.2. Malfunctions

Malfunction	Possible solution
Although no weight is put onto the pad, the app shows some weight on it.	Navigate to "Settings" menu and select "Tare". After press "Tare now" button.
After performing zero tare, the pads do not display zeros.	Go to the settings, calibrate and complete steps from paragraph 10.7.
App shows incorrect weight on the pad.	Go to the settings, calibrate and complete steps from paragraph 10.7.
The weight values on the app are stuck at some specific value.	Restart the app and scales.
After performing zero tare, the pads do not display zeros.	Check if the pad is powered on.

12. Maintenance

Changing the batteries

When the voltage of the batteries is getting low, the user gets a notification about low battery in the app near the scale pad, indicating which battery is getting low. The battery compartment placement is shown in paragraph 5.1 (nr. 3). Unscrew 2 screws holding the battery compartment lid, open it. Install the batteries by following polarity instructions printed on the battery compartment, put the lid back again.

Cleaning the threads of leveling feet

Once in a while, LABA7 recommends cleaning the threads of the leveling bolts from dirt and dust, so the bolts will turn smoothly, and the threads itself will not get damaged. To do this, simply unscrew them and clean with wipe or blow the dust and dirt with compressed air.

13. Additional information

This section provides additional information related to conformity with the relevant Union harmonisation legislation:

- This equipment complies with the Radio Equipment Directive 2014/53/EU. It incorporates a Bluetooth Low Energy (Bluetooth 5.1 LE) radio interface for wireless communication with the mobile application. The radio operates in the 2.4 GHz ISM band (2400–2483.5 MHz).
- The crossed-out wheeled bin symbol with a solid bar shown on this equipment indicates that it must not be disposed of as unsorted municipal waste at the end of its life. It must be collected separately and sent for recycling in accordance with applicable WEEE regulations. For information on the return, collection and recycling of this product, please contact the manufacturer or your local supplier.
- LABA7 complies with the applicable obligations of the REACH Regulation (EC) No 1907/2006. If any component of this equipment contains a substance of very high concern (SVHC) in a concentration above 0.1 % w/w, information in accordance with REACH Article 33 will be provided on request.

14. Warranty information

LABA7 Motorcycle scales LITE are covered for 1 year of manufacturer warranty starting from the date of purchase and it covers any manufacturer-related failures during that period.

WHAT IS NOT COVERED

ALTERATION, MISUSE, OR ACCIDENT DAMAGE

Examples are:
- Failure to operate the device in accordance with the Owner's manual.
- Collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking your Scales.
- Alteration of your scales, including software programming or other components.
- Damage caused by improper maintenance or failure to follow the recommended maintenance schedule.

The repair of damages that are caused because parts or services used were not those prescribed in this manual's recommended maintenance schedule is not covered under warranty. It is the owner's responsibility to maintain the scales as more fully set forth in and in accordance with the maintenance schedules outlined in this manual.

MODIFICATIONS

Damage or performance problems resulting from modifications to your scales are not covered under warranty.

Examples of modifications:
- Altering any mechanical parts or software programming.

The manufacturer is not responsible for any damages to the device during the transportation. During accepting the shipment, please inspect the package for any visual damage. If the package is damaged, do not accept it.

15. Contact

If you have further questions about the product or need help with the installation, our technical staff will be happy to help you. Contact information can be found on our website www.laba7.com.

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LABA7

EU Declaration of Conformity

Date of Issue 6th May 2025 Vilnius, Declaration Number 2025-05-06/02

Name of the manufacturer:	LTD "LABA7"
Address of the manufacturer:	Giluzio str. 15, LT-06239, Vilnius, Lithuania
Contacts of the manufacturer:	info@laba7.com
Object of the declaration:	Motorcycle scales LITE
Identification code of the object:	SCL2-00012
Description of the object:	Motorcycle scales LITE are specifically designed and suitable for motorcycles. Number of pads – 2. Each weigh pad is equipped with three load sensors to ensure highly precise weighing results. Weight scale pads are made from low-deflection billet aluminum and steel. Main specifications: 600 kg load per pad (total 1200 kg); accuracy ±0.1% FS (C3); 3-point levelling; 2D or 3D visualisations in app; operable via Android or iOS app; dimensions are 320x360x70 mm; weight per pad is 4.5 kg; powered by 3xAA batteries per pad.
Object of the declaration described above is in conformity with the relevant Union harmonisation legislation:	– Radio Equipment (RED) Directive (2014/53/EU) – Restricts hazardous substances in electrical and electronic components (RoHS) Directive 2011/65/EU
References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:	– ETSI EN 301 489-1:2019 – ETSI EN 301 489-17:2020
Additional information:	This declaration certifies compliance with the above-mentioned directives. This declaration of conformity is issued under the sole responsibility of the manufacturer. The technical documentation for the object of declaration is available from the manufacturer at the address above.
Name and title of the manufacturers' representative:	Andrius Liškus CEO
Signature of the manufacturers' representative:	