

SCRAMBLER RS OWNER'S MANUAL

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SCRAMBLER RS OWNER'S MANUAL





Technical Data

OLIEDS Sport Motor 85Nm 36V

12-speed gearbox, 12-speed digital

Track width 80cm

Wheelbase 146cm

Length with wheels 220cm

Length without wheels 180cm

Front ground clearance 20cm

Height without wheels 60cm

Height with wheels 80cm

Used weight 30kg

Total load capacity (rider + luggage + bicycle) 120kg

Shock absorbers 190mm

Wheels 27.5 Boost front, 110/15PP rear

Hydraulic brakes: Front 203mm, Rear 180mm (x2)

THANKSGIVING



Thank you for choosing the Scrambler RS.
We hope you'll enjoy
our handbike for a long time.
Before using the Scrambler RS, please take the time to
read this manual entirely.

COMPLIANCE



The manufacturer declares under his own responsibility that the velocipede called Scrambler is delivered in compliance with the current regulations of the Highway Code and harmonized with the EPAC EN15194 regulation.



WARNING 25kmH!



By installing a speed limiter, an e-bike exceeding the 25 km/h limit becomes equivalent to a moped. As such, if used in public places, it requires approval and registration from the Civil Motorization Department, is subject to road tax and insurance coverage, must have a license plate, cannot ride on cycle paths, and the driver is required to hold a license and wear a helmet. Furthermore, riding a motorized bicycle considered equivalent to a moped without complying with the aforementioned provisions will result in administrative seizure of the vehicle and fines that vary depending on the violation committed. HandbikeGarage declines all responsibility for any damage caused to pedal-assisted bicycles fitted with any tuning device designed to increase their speed, as well as for direct or indirect damage to persons or property.

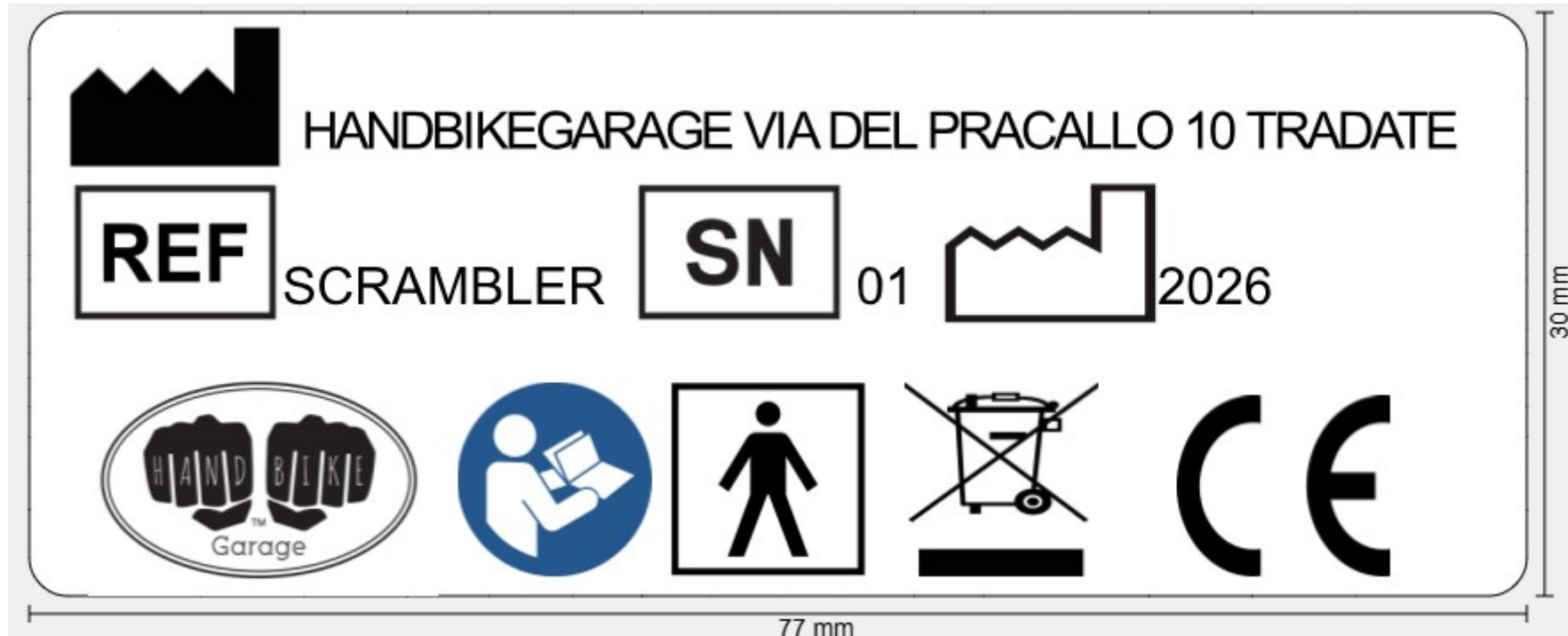
HandbikeGarage declines all responsibility for any anomalies caused by anti-tuning defenses that engine manufacturers may activate.

Please note that modifying the handbike voids the manufacturer's warranty.

LABEL AND SYMBOLS PRESENT ON THE DEVICE



Warning! Removing the label will automatically void the item and warranty.



LABEL AND SYMBOLS PRESENT ON THE DEVICE



MANUFACTURER'S ADDRESS



YEAR OF PRODUCTION



MODEL NAME



NUMERO DI SERIE



Disposal in accordance with WEEE Directive 2012/19/EC



European Standards Compliance Mark



Refer to the instructions

SYMBOLS



GENERAL DANGER BE CAREFUL



CRUSHING HAZARD!



READ THE INSTRUCTIONS CAREFULLY



DO NOT CARRY WEIGHTS, ATTACH ACCESSORIES OR TOW WEIGHTS

MANUFACTURER DATA



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ASSISTANCE



Routine service can be performed at authorized specialized centers, while for service on parts manufactured by us, requesting our support is mandatory. Tampering with the product, in addition to voiding the warranty, will no longer entitle you to support interventions from the manufacturer, who will invalidate the item by declaring it No longer usable.



Warranty



The legal warranty lasts 2 years on all components excluding parts subject to wear. Tampering with any part immediately voids the warranty.



Warranty



La garanzia decade immediatamente nei seguenti casi:

Guasti dovuti a incidenti, urti, cadute, uso improprio o mancata manutenzione.

Riparazioni, smontaggi o modifiche eseguite senza previa autorizzazione o con componenti non idonei.

Guasti derivanti da condizioni di conservazione inadeguate o cause non imputabili al produttore.

Modifiche atte a modificare le prestazioni originali.



Intended use.



This velocipede is intended for use on dedicated marked tracks, with stable, compact terrain, with suitable climatic conditions, brightly lit, away from heavy traffic.



Not recommended use



Use is not recommended in situations including but not limited to: Heavy traffic areas, pedestrian areas, downhill, excessive slopes, unmanageable inclines, landslides or flooded terrain, excessive speed, children, use after improper repairs, use of unauthorized accessories, any unauthorized modifications or customizations.



Recommendations for use*



Use according to the Highway Code. Always wear appropriate clothing and protective gear. Do not immerse in water. Before use, check that the bike is in good general condition, as well as the condition of the brakes and pedal-assist system. Make sure there are no impediments to steering and that all parts of the wheels are intact. Do not push in reverse without ensuring the cables at the handlebars are free, otherwise they could get stuck. Make sure the chain and the entire drivetrain are free and functional even when idling. Make sure there are no parts in contact with your body that could cause skin lesions. The standard cushion is not anti-decubitus; if necessary, replace it with a suitable cushion for your safety. Do not lift the handbike by the rear wheels. Avoid getting caught in obstacles with the rear wheels, and do not attempt to free yourself from tipping or stuck situations by leveraging them.

Always ride with someone. Do not wash with pressure washers or the battery. Before inserting the battery, make sure it is dry and intact in its housing. The battery is not shockproof. Store the handbike in a dry place, protected from the elements.

Do not leave the battery in cold, humid environments. Protect it from impacts and flammable substances. If you plan to store the battery for extended periods, ensure it is charged between 30% and 60%.

During the ride, avoid sudden steering actions, as this could cause the bike to tip over. Climbing slopes or inclines must be handled with skill and at a suitable speed, as this could cause the bike to tip over. Before using the Scrambler handbike over long distances, familiarize yourself with the bike in a place near your home. Adjust your speed to the situation and gain experience riding, cornering, and braking.

The Manufacturer is not responsible for any damage to the bicycle, or to persons or property resulting from improper use of the Scrambler.

RESPONSIBILITY



The manufacturer is not responsible for any damage to the bicycle and/or to people or property resulting from non-recommended or irresponsible use. It is your responsibility to ensure that the bicycle complies with applicable regulations before use.





The aluminum frame consists of a main frame connecting the other components such as the wheel axle, fork, backrest, and battery. The pedaling system, including the electric assist, is installed on the front fork. At the rear, an axle supports the wheels and their braking system. This axle is connected to the main frame via levers and suspension to reduce unsprung weight, increasing comfort and ride dynamics. The legs are supported by adjustable brackets, secured with Velcro straps. The backrest is adjustable in angle and depth. The seat and backrest cushions are made of expanded foam and covered with water-repellent coated fabric. Other components such as brakes, wheels, and transmission are derived from commercial bicycle systems.



Attention! The cushion is NOT anti-decubitus.

Maintenance and Checks before use



Before each use, it is mandatory to check and maintain the following:

Wheels:

Make sure the wheels are intact and securely attached to the frame. Check the condition of the tires and the tire pressure.

Brakes:

Check the integrity and effectiveness of the braking system. Check the wear of the pads and brake disc.

Drivetrain:

Make sure the drivetrain is intact and clean. Do not apply excessive grease. Check that the front chainring is fully secured. Check the wear of the chain and gears, which should be replaced periodically. Check that the control cable is intact.

Maintenance and Checks before use



Steering:

Make sure the steering is free and free of play. Make sure the centering rubber is in good condition and replace it if it shows cracks or other signs of wear.

Leg Supports:

Check that the leg brackets and Velcro straps are in excellent condition, and that the fastening clamps are not loose or cracked. Whenever you adjust the position of the brackets, make sure the clamp direction is as described in the relevant section of this manual.

Pedal Assist:

Before turning on the motor, check that the electrical connections are not worn and are free of kinks or strains. The clamps must be securely connected and show no signs of wear. It is important that the pedaling sensor is intact and that the magnet is in the correct position. Turn on and test the system for a few meters. Do not use if the system is noisy or its functionality is impaired.

Maintenance and Checks before use



Batteries:

Make sure the battery is intact, securely connected, and clean. If it was discharged and then recharged more quickly than usual, it is likely damaged. In this case, do not use the bicycle and seek assistance. If you plan to store the bicycle for an extended period, make sure the battery is properly stored in a dry place, away from excessively cold or hot temperatures, and with a charge level between 30% and 60%.

Suspensions:

The suspension must be securely connected to the frame and must not leak. And it must be thoroughly clean. Refer to the relevant section of this manual.

Cleaning, storage and handling.



Caution! Do not wash with direct water jets. Use suitable detergents. Some metal parts may rust; in this case, it's best to remove the dirt. You can apply a thin layer of grease or special wax to prevent rust. Avoid using abrasive substances or tools.

Store your bicycle in a dry place, away from excessively cold or hot temperatures. To avoid twisting the housing and hoses, it's best to slide the chain off the front chainring. Take care of your Scrambler!

To move the handbike a few meters, it's best to push it forward. If you need to move it backward, always lift the wheel or slide the chain off the front chainring. This little trick prevents the pedals from rotating and damaging the hoses and hoses. Use this trick when loading your bicycle in a car as well, as it prevents the cranks from scraping the ceiling. Loading a bicycle rack is not recommended. If this method of transport is the only option, remove the batteries and cover the handbike with a special weather cover.

Wheels

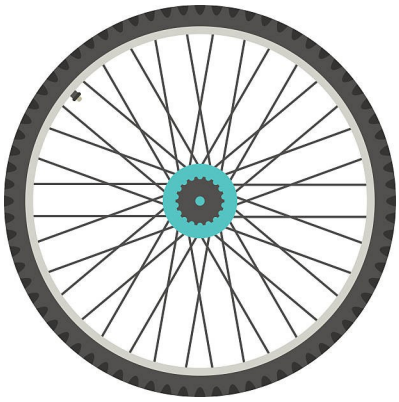


It is not permitted to place weights and/or attach accessories to the rear axle!

RECOMMENDED TIRE SIZES
To verify actual compatibility,
it is advisable to consult the technical data sheet for the tire you wish to use.

	internal rim width 25mm	internal rim width 30mm	internal rim width 35mm
FRONT	2,20" - 2,40" 55mm – 62mm	2,20" - 2,60" 55mm – 66mm	2,30" - 2,60" 58mm – 66mm millimetri
REAR	2,20" - 2,40" 55mm – 62mm	2,20" - 2,60" 55mm – 66mm	2,30" - 2,80" 58mm – 71mm millimetri

Front Wheel



The front wheel has a 148 mm Boost hub with a thru-axle. The diameter is 27.5 inches. The tire size may vary in width. Use suitable tires, consulting the manufacturer's specifications. Do not use tires wider than 2.6 inches.

Disassembly:

To remove the front wheel, unscrew and remove the thru-axle. Then release the chain from the sprocket and remove the wheel from the fork.

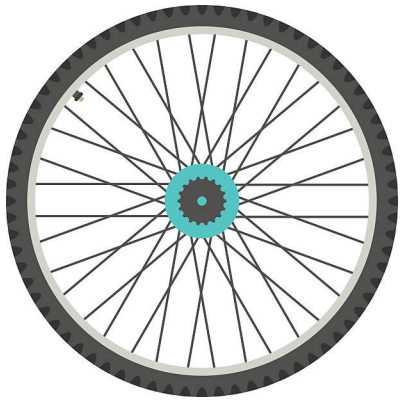
Assembly:

To assemble the wheel, first fit the chain, then slide the wheel into place, making sure to correctly insert the brake disc into the caliper. Then insert the axle and tighten the nut completely.

Rear Wheels



It is not permitted to place weights and/or attach accessories to the rear axle!



The rear wheels are wheels with a 100 or 110 mm hub modified with a screw-on thru-axle.

The diameter is 27.5 inches. The tire size may vary in width. Use suitable tires, consulting the manufacturer's specifications. Do not use tires wider than 2.8 inches.

Disassembly:

To remove the rear wheel, you must unscrew and remove the thru-axle. Then, free the wheel from the brake caliper and remove it. Caution: Dirt could jam the axle in the wheel. Before completely unscrewing, make sure the axle is free. If it is not, the wheel could be pulled along with the disc brake rotor still in the caliper. To free the hub from the axle, tap it gently around the hub. This means tapping it by hand or with a suitable object to avoid damaging the wheel.

Assembly:

To assemble the wheel, you must position the wheel, correctly inserting the brake disc into its caliper. Then insert the pin, making sure it is positioned without any effort. Screw in the first few turns by hand and tighten completely.

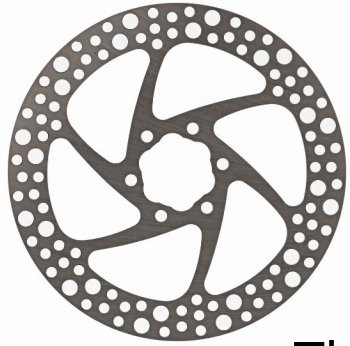


Brake



WARNING! INAPPROPRIATE MANOEUVRES COULD ROLLING THE BRAKE CABLES AND HOSES OVER THE CRANKS, DAMAGED THEM! The parking brake consists of an elastic band or Velcro, located on the handlebar grips. When you need to lock the handbike, use the elastic band or Velcro to hold the lever down.

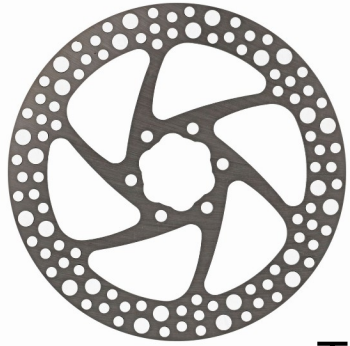
IMPORTANT! Brake levers and hoses are moving parts, which causes unpredictable wear. Check the integrity of the hoses before use. If any damage occurs, take them to a specialized repair center for repair.



Front Brake



The front brake is a 203 mm disc brake with a hydraulic system. Before use, make sure the system is functional and undamaged. If repairs are necessary, you can go to a bicycle repair center and request assistance. If repairs are not possible, you will need to replace the entire system by purchasing a right-hand rear bicycle kit with a minimum hose length of 1700 mm. It is recommended to purchase a quality kit that is suitable for the type of use of the handbike. Poorly manufactured products could endanger your safety and that of others.



Rear Brake



It is not permitted to place weights and/or attach accessories to the rear axle!



The rear brake is equipped with two 180 mm hydraulic discs. Before use, make sure the system is functional and undamaged. If repairs are necessary, you can visit a bicycle repair center and request assistance. We recommend using quality spare parts, suitable for the intended use of the handbike. Poorly manufactured parts could endanger your safety and that of others.

Shifter and Transmission

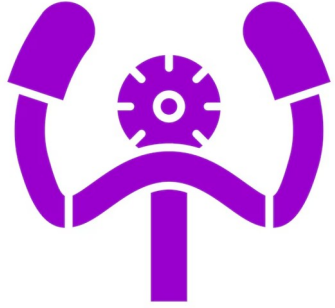


WARNING! While riding, the gear shift cable moves near the grips. Over time, these oscillations damage the control wiring. Periodic replacement of the cable and housing will therefore be necessary. If you are unable to repair or replace the cable yourself, simply visit a cyclist and ask them to perform the repair as on a normal bicycle.

The front derailleur is a bicycle's rear gear shifting system. It varies depending on the model and year of manufacture. Refer to the manufacturer's manuals.



Do not place fingers or other objects near the chain and transmission. Before performing any work, turn off the engine and disconnect the battery.



Steering

The steering system features a structure similar to that of a bicycle. The headset is a common 1 1/8" ahead replacement. A 40x30mm female-female 8Ma anti-vibration rubber seal ensures the headset returns to center.



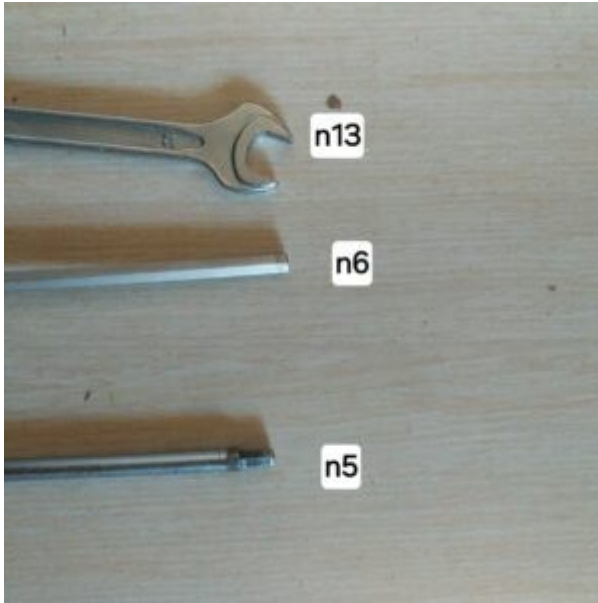
To adjust the steering drift, loosen the screw with a 13mm hex wrench, adjust the steering, and tighten the screw. Make sure the screws are tight and the rubber seal is intact. Periodically check the steering seal for wear and replace it with a new one if necessary.



Steering Play Adjustment



If you notice any fork wobble or unusual noises, the steering play adjustment is probably necessary.



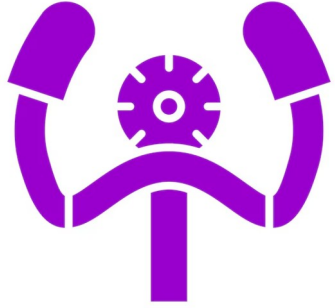
The tools needed are an N13 wrench, an N6 Allen key and an N5



Steering Play Adjustment



using the n. 13 key and the N6 Allen key loosen the retaining bolt



Steering Play Adjustment



Using the No. 5 Allen wrench, tighten or loosen the adjustment screw as needed to eliminate the steering play.

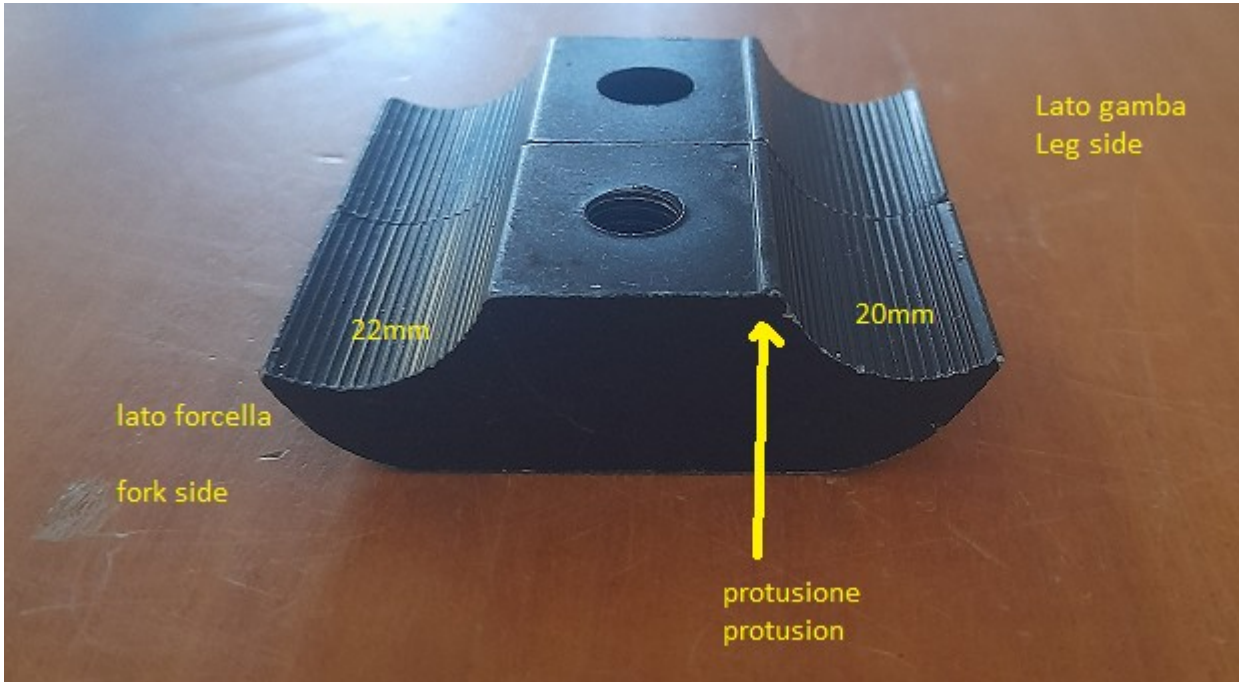
Once you've verified that the play has disappeared and the steering is free, tighten the previously loosened retaining bolt.

Leg Supports



WARNING!
MAKE SURE THE LEG SUPPORTS ARE INTACT AND SECURELY ATTACHED.

Adjusting the leg supports is highly subjective. Once you've found the position that's best for you, you can remove the excess tubing.



Make sure the leg support tubes do not damage your skin. The pressure of the tube clamps could damage the paint.

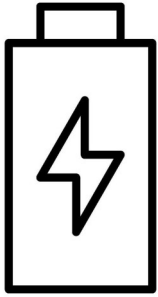
IMPORTANT! The clamps that hold the leg supports have different diameters; 20mm on the leg support side and 22mm on the fork side. If you completely disassemble the system, make sure you reposition the clamp correctly, otherwise the support will not hold properly.

Pedal Assist



Velocipedes are vehicles with two or more wheels that are powered exclusively by muscle power, by means of pedals or similar devices, operated by the rider on the vehicle. Pedal-assisted bicycles equipped with an auxiliary electric motor with a maximum continuous nominal power of 0.25 kW are also considered velocipedes. The power is progressively reduced and finally cut off when the vehicle reaches 25 km/h, or sooner if the rider stops pedaling.

Pedal assistance is provided by a 250W 36V bottom bracket motor, as required by law. For user manuals, refer to the information provided by the specific manufacturer.



Battery



The batteries are lithium ion, so you must exercise due caution and follow the usual rules for storing, using, and transporting these items. Use only the charger supplied with the handbike. Do not open the battery case.



Never dispose of in household waste. Dispose of at an appropriate reclamation center.



Suspension

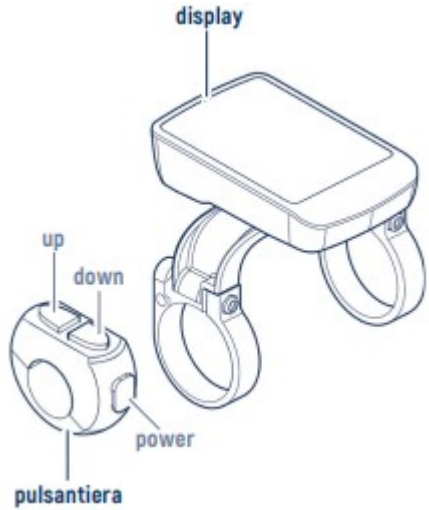


It is not permitted to place weights and/or attach accessories to the rear axle!

The rear suspension system is a semi-torsion bar. It features two 190 mm shock absorbers. To function properly, it needs to be calibrated to the rider. To adjust the weight, we recommend a 1.5 cm drop in the rider's body. Where available, the rebound can also be adjusted. We leave the rider free to choose their preferred setting.

Attention! The shock absorbers must be either free or both locked. Locking a single shock absorber could make the handbike unstable and cause the rear axle to twist and misalign.

N.B. For air suspension, a dedicated suspension pump is required. Do not use other inflation systems.



DISPLAY (Attached).



The display manual is included with this manual. If you did not receive it, you can download it from our website <https://handbikegarage.it/> in the download section, or contact us to receive a copy. Thank you.

Document review



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22/04/26

THIS VERSION REPLACES PREVIOUS DOCUMENTS