



Mosquito User Manual



**Read this manual carefully
BEFORE operating your scooter!**

Congratulations on your new fluid Mosquito Electric Scooter! And thank you for purchasing it at fluidfreeride.com or at one of our retail partners.

**Follow us on Instagram and tag us to be featured on our page!
[@fluidfreeride](https://www.instagram.com/fluidfreeride)**

DO NOT RETURN TO PLACE OF PURCHASE

Please contact us at
fluidfreeride.com/contact for any
assistance.



Check out our support library at
support.fluidfreeride.com for
common concerns.



PLEASE REGISTER YOUR SCOOTER

Get 12 months Warranty and
Lifetime Service from fluidfreeride
after registering your scooter. Scan
the QR code or head over to
fluidfreeride.com/register.



BEFORE YOU START

It is important to read through, understand, and adhere to all instructions and safety warnings before charging and operating this scooter.

Upon receiving and opening your box, please inspect the contents for signs of damage or loose screws from transport. If something doesn't look or feel right, please take a few pictures and contact your place of purchase immediately.

YOUR SCOOTER COMES WITH A LIMITED WARRANTY AGAINST MANUFACTURING DEFECTS AS DESCRIBED AT fluidfreeride.com/warranty. THIS LIMITED WARRANTY IS AVAILABLE TO THE ORIGINAL PURCHASER ONLY AND CERTAIN ACTIONS OR OMISSIONS MAY VOID THE LIMITED WARRANTY. IN CASE OF ANY ISSUES EXCEPT FROM THE LIMITED WARRANTY, THERE ARE NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, TITLE, MERCHANTABILITY OR NON-INFRINGEMENT, AND ALL OTHER WARRANTIES ARE EXPRESSLY DISCLAIMED.

Make sure you understand and adhere to all local laws, rules, ordinances, and regulations applicable to riding scooters. Riding an electric scooter comes with inherent risks and hazards. To minimize the risk of falling, being injured, or injuring others, make sure you understand how to safely operate and control this scooter. ALWAYS USE GOOD JUDGEMENT, COMMON SENSE AND PROTECTIVE GEAR.

LEITMOTIF SERVICES LLC (the operator of fluidfreeride.com), or any of its retail partners or affiliates (collectively, "Leitmotif Parties") shall not be liable for any financial losses, physical injuries or deaths, accidents, disputes, or other claims related to the purchase or operation of this scooter. TO THE MAXIMUM EXTENT PERMITTED BY LAW (i) NO LEITMOTIF PARTIES WILL BE LIABLE FOR ANY SPECIAL, EXEMPLARY, PUNITIVE, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES (INCLUDING LOSS OF USE, REVENUE, PROFIT, BUSINESS OPPORTUNITY OR GOODWILL) CAUSED BY THE USE OR MISUSE OF OUR PRODUCTS. THE USER AGREES TO ACCEPT FULL RESPONSIBILITY FOR ALL SUCH RISKS AND TO RELEASE LEITMOTIF SERVICES PARTIES THEREFROM; AND (ii) THE LEITMOTIF PARTIES' MAXIMUM LIABILITY FOR DAMAGES SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE SCOOTER.

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IMPORTANT SAFETY WARNINGS

- Always wear a helmet and protective safety equipment. Wear closed shoes without heels and ensure your laces are tied.
- Do not ride with more than one rider or exceed the weight limit of 120kg/265lbs in any other way.
- Keep the scooter away from children. It is not a toy. 16+ riders only.
- Check your scooter for any loose parts or screws, signs of damage or excessive wear before every ride. Stop operation immediately and contact fluidfreeride if something does not feel or look right.
- Always slow down when riding over bumps or on rough or wet road conditions.
- Only use your scooter in line with its intended purpose.
- Do not use your electric scooter in heavy rain, on surfaces covered by more than ½ inch of water. Do not submerge the scooter in liquid or let any liquid near the battery or electrical components.
- Do not lend your scooter to anybody unfamiliar with its operation. Ensure any new riders are familiar with the instructions and warnings in this manual and are wearing proper safety gear.
- Ride your scooter in smooth and flat grounds only. No off-roading.
- Do not use the scooter on excessive slopes >15%.
- The scooter may slip on slippery surfaces leading to subsequent injuries to the rider. Pay special attention crossing train tracks and when it is wet.
- You must follow all local traffic rules and regulations.
- Once riding in public space, you are subject to the risks faced by all traffic participants just like when you're riding a bike. Other traffic participants may not obey traffic regulations or ride carelessly.
- Always use caution, adapt your speed to road/traffic conditions and keep distance from other traffic participants.
- Watch out for pedestrians. Do not use your scooter in any way that could harm pedestrians. Slow down when you are passing them to avoid accidents.
- The scooter is not intended for use at elevations greater than 6,500 ft (2,000m) above sea level.

SAFETY CHECKLIST

General

- Your scooter should feel stable without much play or wobble.
- If something does not feel or look right, please contact fluidfreeride.

Wheels

- Check the main lateral wheel nuts for firmness regularly and after your first 50 miles of riding. Re-tighten if necessary.

Throttle

- Before riding, check if the throttle sits firmly on the handlebar and is returning to its original position when released.

Brakes

- Check the rear drum brake for proper tension and effectiveness regularly and prior to using the scooter for the first time.

Folding mechanism

- Check that the folding mechanism is locked into place and secured with the safety lever.
- Check that the height adjustment knob, the handle grip folding mechanism, and the quick release lever are in properly secured position.

CAUTION

Wear protective gear like helmet, gloves, knee, and elbow pads at all times during use.

MOSQUITO OVERVIEW

What’s in the Box



fluid Mosquito



Tools



UL charger

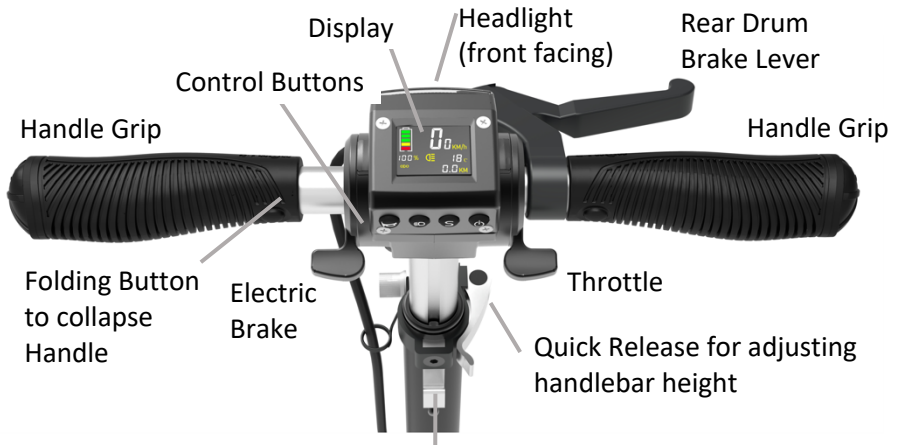
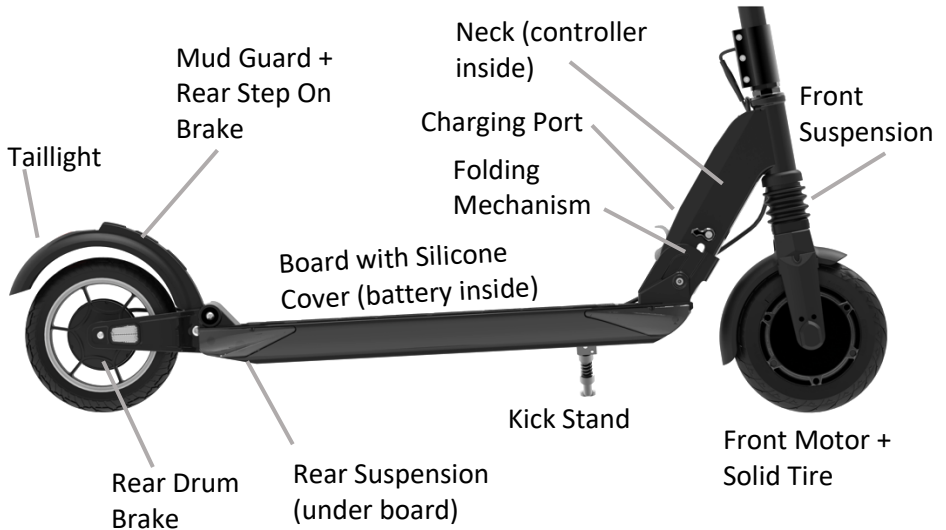


Manual

Technical Specifications

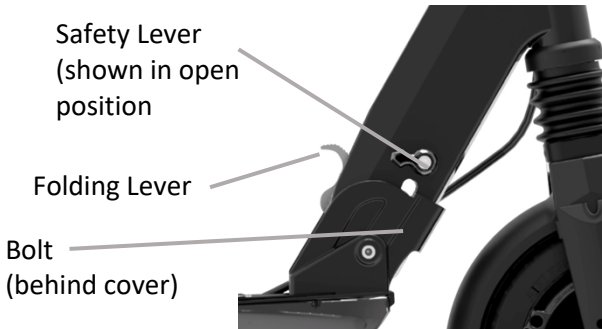
Motor	Brushless DC - 500W nominal / 700W peak
Battery	48V 9.6Ah Li-Ion
Top speed	25+ mph
Range	22 miles (165 lb rider, 15mph constant speed)
Brakes	rear drum + rear foot + regen throttle brake
Tire Size	8" x 2" (Solid)
Waterproof rating	IP x4
Scooter Weight	29 lbs
Weight Limit	265 lbs
Charger input/output	110-220V / DC 54.6V-2A
Dimensions – Opened	42.3x 15.0 x 44.6 inches
Dimensions – Folded	13.0 x 6.0 x 41.7 inches

Key Components



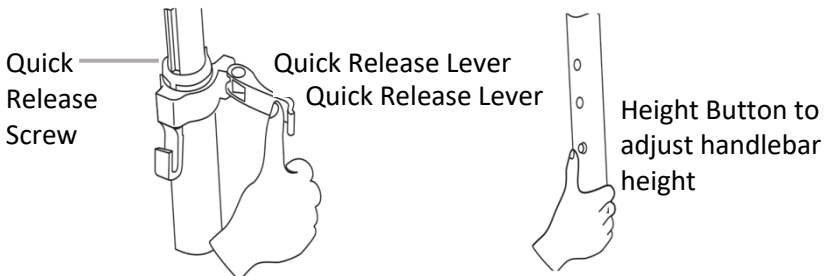
Folding Hook to clamp into rear mudguard for carrying your scooter
OK to hang a light bag while riding

UNFOLDING & FOLDING



Unfolding

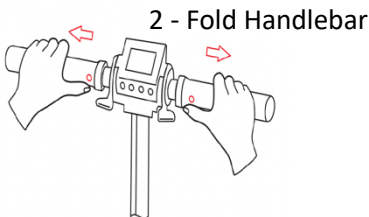
1. Press the rear mud guard to release the hook and move the stem upward into riding position.
2. You should hear a click when the bolt snaps into place.
3. Pull the safety lever outward and move it over the bolt so that the scooter cannot fold when accidentally pushing the folding lever.
4. Open the Quick Release Lever below the handlebar and pull the handlebar upwards. It will lock into the first height setting.
5. To increase handlebar height, press in the height button and move the handlebar higher.



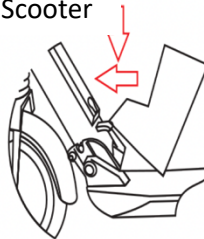
6. Close the quick release lever and ensure it sits tight. Adjust tightness with the quick release screw if necessary.
7. Move the handle grips into upward position. They will snap into place.

Folding

1. Start with lowering the handlebar height to a minimum. Open the quick release lever, then press the height button while pushing the handlebar downward.
2. Press the buttons on the handle grips, move the grips outward and fold grips downwards.
(Steps 1 & 2 are optional and can be omitted for fast folding)

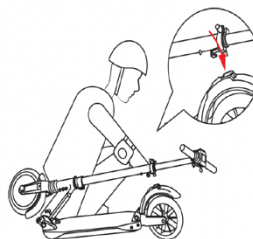


4 - Fold Scooter



3. Open the safety lever next to the main folding lever (pull outwards and move so it is pointing towards the deck).
4. Press the main folding lever with your foot while slightly pushing the front stem forward to alleviate pressure on the folding mechanism.
5. Move the front stem downwards and latch the folding hook into the rear mudguard.

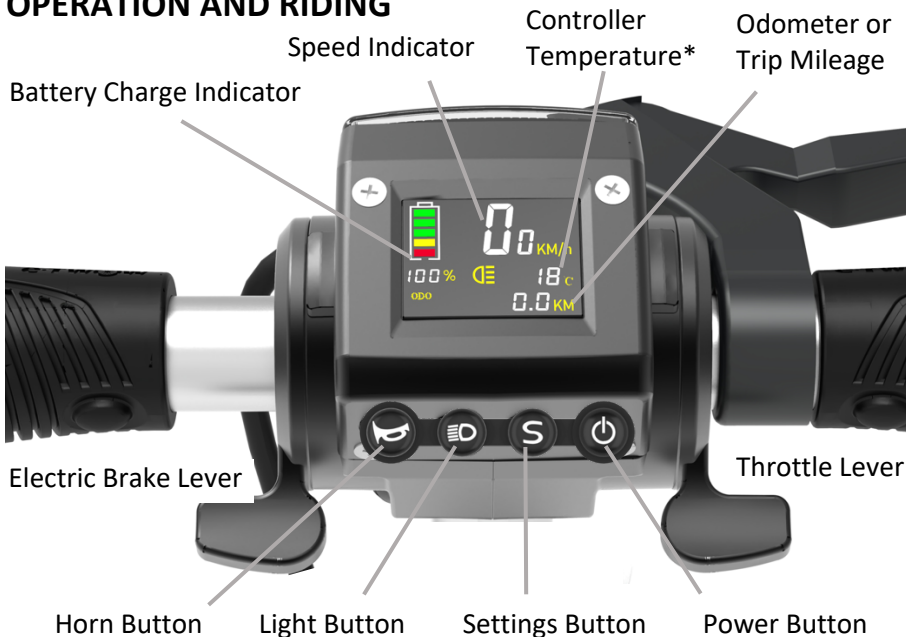
You can now pick up the scooter and carry it in one hand.



We recommend the handle strap accessory that will facilitate carrying the scooter in one hand as it is positioned to perfectly balance the weight of your scooter.



OPERATION AND RIDING



**Controller temperature may show lower than room temperature when turning your scooter, it will show accurate temperature once riding your scooter.*

Basic Controls

Press the **power button** for 3 seconds, the scooter will turn on and the display lights up. While the display is starting up, you will see current battery voltage displayed in the bottom right corner.

Press the power button again for 3 seconds to turn off your scooter.

Press the **horn button** to sound a horn sound while the scooter is turned on. Hold the button to sound multiple horn sounds.

Press the **light button** to turn on the head- and taillights. If lights are off, the taillight will only light up when the brake is activated.

Press the **settings button** to toggle between TRIP mileage and total ODOmeter mileage. The trip mileage resets to zero with each power off.

Riding

Before using your scooter, make sure to visually inspect it for any signs of damage or loose parts or screws. Every scooter is individually tested before shipping from the factory, but we recognize that it has travelled far and in rare cases, it can get damaged during transport. If something does not feel or look right, reach out to fluidfreeride.

Always wear protective gear such as helmet, knee and elbow pads.

Start slowly to familiarize yourself with the behavior of your scooter. Press the throttle gently for a slow take off. Always slow down when riding over bumps or on rough or wet road conditions. The faster you ride your scooter, the longer it will take you to stop.

- Ensure you have sufficient runway ahead of you. Do not use the scooter indoors.
- Put both of your hands on the handlebar.
- Step with one foot on the scooter, kick it lightly with your other foot to bring it slightly in motion.
- Step with your second foot onto the board, hold on tight and push the accelerator gently.

Braking

Your scooter is equipped with an electric brake, a rear drum brake and a rear step on brake. It is up to you which one you prefer using.

To slow down during normal operations, release the throttle and press the **electric brake** lever lightly. The more you press this lever, the harder you will brake. The slower you are, the more responsive the electric brake will be. At higher speeds, this brake is less effective.

The **drum brake** is operated by pulling front brake lever while the **rear step on brake** is operated with your foot, simply stepping onto the mudguard, and pushing it down towards the rear tire.

At higher speeds, and in emergency brake situations we recommend you press both the electric brake lever, and you pull the drum brake lever.

The scooter is also equipped with a **regenerative braking system**.

Whenever you use the electric brake lever, the controller will use the

electric front motor to brake which at the same time recovers energy to charge your battery and extend your range.

Speed Limit Setting

Your scooter is equipped with 5 speed modes that can be set depending on your desired speed limit. L4 is set by default.

1. Turn the scooter off. Press the electric brake lever and hold during the entire operation.
2. Turn the scooter on. The display will show "SET" and L1,2,3,4, or 5.
3. Press the settings button to switch between the different speed limit levels:
L1 = 5mph, L2 = 10mph, L3 = 16mph, L4 = 24 mph, L5 = no limit
4. Release the brake lever to complete operation.

Advanced Settings

Your scooter allows for advanced settings. Experienced riders only!

To configure advanced settings, follow these steps:

1. Turn the scooter on. Press the electric brake lever and hold during the entire operation.
2. Press the power button. P0 will show in the display
3. Press the light or settings button to cycle through the P-setting functions.
4. To select a P-setting for configuration, press the power button until you hear a beep.
5. Change the P-setting with the light or settings button.
6. To save your setting, release the electric brake lever.

P0 – Non-Zero Start (turned ON by default – P0 = 1):

If it is turned ON, you must bring the scooter into motion before the throttle will work. If turned OFF, you can start the scooter from "zero", without being in motion.

WARNING: Non-Zero Start turned ON is an important safety function so you do not accidentally hit the throttle while you are not riding. Turn this off at your own risk.

P1 – EBS (set to P1=5 by default):

This setting sets the intensity of the electric brake. You can choose from 0 (lowest electric braking strength) to 5 (highest electric braking strength).

P2 – Motor Lock (off by default – P2=0):

Turn this on if you would like to lock the front motor so that you cannot move or operate the scooter without picking it up.

P3 – Cruise Control (off by default – P3 =0):

If turned on, once you maintain a speed for 5 seconds, your scooter will automatically hold this speed, even if you let go of the throttle. You can easily deactivate the cruise control speed by pressing the throttle or the electric brake lever.

WARNING: Only use cruise control once you are fully mastering riding the scooter. It can be surprising if the scooter does not slow down when you release the throttle.

Switch from miles to kilometers

By default, the scooter is set to show miles and Fahrenheit. You can switch the display to kilometers and Celsius instead: Turn the scooter on, Press and hold the electric brake lever, then press the settings button. Release the brake lever.

Battery Charge Indicator

There are five battery bars and a charge percentage on the display. As the battery is drained, the bars will diminish, and the percentage value will reduce. Keep an eye on your charge to ensure you do not get stranded.

Note that if you request a lot of power (e.g. by riding uphill), the battery charge indicator may fluctuate downwards due to temporary voltage reduction when the motor needs more power.

When you turn on the scooter you will see the current battery voltage displayed in the lower right corner of the display. A fully charged battery shows >54V.

CHARGING AND BATTERY SAFETY

Charging the fluid Mosquito

Charge your scooter before its first use.

1. Turn your scooter off
2. Connect the charger to the wall power outlet
3. Locate the charging port
4. Open the charging port cover
5. Connect the charger to the scooter.

The LED on the charger will turn red while charging and turn green when the scooter is ready for use. Remove the charger and cover the charging port. Charging time with the included charger will be around 5 hours when the scooter is empty.

Battery Maintenance and Storage

- We recommend charging your scooter after every use. This is not required.
- A lithium-ion battery is a consumable device. Please replace it with a new battery once capacity drops below 50% of what you experienced initially. Contact fluidfreeride for a replacement.
- Make sure the battery is charged and that the scooter is turned off before storing your scooter for extended periods at a time.
- Store your scooter indoors in a dry and cool place over 32°F (0°C) and under 104°F (40°C). Do not keep it outdoors or in outdoor sheds for extended periods of time as excessive cold, heat, sunlight, rain, or other environmental conditions may damage the enclosure materials, impact safe operation, and reduce the scooter's lifespan.
- Charge your battery at minimum every 3 months to prevent it from running completely empty. Once the battery runs completely empty due to slow discharge while in storage, it may have to be replaced.
- Batteries perform poorly at low temperatures. For instance, if the temperature is around 0°F (-18°C), battery capacity reduces by 50%. Capacity will restore to normal when temperatures rise.

- Battery life and riding ranges will vary depending on usage, climate, conditions, rider weight, and/or riding style, proper care, and maintenance.

Battery Disposal

- Do not dispose of your battery by way of landfilling, incineration, or household trash.
- We recommend disposing through a local recycling program suitable for lithium-ion batteries. Contact your local waste management service for more information.
- **Mishandling of used batteries may do tremendous harm to the environment. You must abide by local laws and regulations to properly dispose of used batteries and assume all liabilities resulting therefrom.**

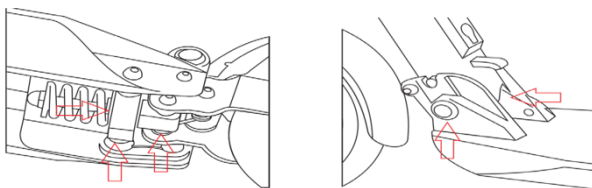
Charging and Battery Safety Warnings

- Use caution when using outlets to prevent electric shock.
- Do not leave the charger plugged in for extended periods (>24 hours).
- Only charge your scooter in a safe, clean, and dry environment. Keep the charger and scooter away from inflammable materials as they may get hot.
- Only use the original battery packs and the original charger supplied with your electric scooter. Contact fluidfreeride if you need a replacement. Use of other models or brands may not be safe and is not recommended.
- Do not touch any part of the charging prongs and keep them away from metal objects to prevent short circuit which may result in battery damage or physical injuries and death.
- Do not place the battery in direct contact with heat or near high temperatures. Do not expose the battery to direct sunlight. Do not leave the scooter in a car where the battery might get hot.
- Do not pierce the battery with sharp objects. Do not subject it to impact or force.

- Stop charging if the battery fails to recharge within the approximate charging time. This will prevent the battery from overheating, rupturing, or igniting.
- Do not charge the battery in temperatures below 32°F (0°C) or above 104°F (40°C) as this can hamper performance, result in breaking, overheating, rupturing, or igniting and could cause personal injury or property damage.
- Do not charge your scooter if the charging port on the scooter is damaged or wet. Do not charge if there is excessive heat, odor or leakage coming from the battery or it looks abnormal in any way.
- If the battery leaks and you accidentally get in touch with the liquid, rinse thoroughly with water and then seek medical care.
- Never attempt to disassemble, modify, or perform repairs or maintenance on the battery. You run the risk of damaging the protective and safety components that prevent incidents, personal injury, or property damage. Professionals only!
- Mishandling or misuse of the battery can result in lower performance, shorter lifespan, rupturing, igniting, or other incidents and could increase the risk of serious personal injury.
- Do not discharge the battery using any other product than the scooter it comes with. Doing so could result in damage to the other product or the battery and reduced lifespan. The battery could overheat, rupture, or ignite and cause personal injury or property damage.

SCOOTER MAINTENANCE & TRANSPORT

- The Mosquito is essentially maintenance free. Apart from monitoring tire and brake wear, and occasional re-greasing of moving parts, you should be good to go.
- Once the tire is significantly worn or the brakes loose tension, contact fluidfreeride.
- Every few hundred miles, or when you hear squeaking, use a silicone based grease spray to lightly lubricate moving parts (see images below)



- Never perform maintenance on this product while the unit is powered on or charging. Always power off before performing maintenance.
- **Unless otherwise provided or instructed, do not attempt to perform repairs, or modify the scooter but contact your place of purchase or refer to a professional repair facility. You understand and agree that any repairs, modifications, or maintenance which you perform or have performed are at your sole and exclusive risk.**
- Clean stains on your scooter's body with a damp cloth. Do not use alcohol, gasoline, kerosene or other corrosive and volatile chemicals. Do not wash with high pressure cleaners. Make sure the scooter is turned off and unplugged during cleaning and ensure no moisture enters the charging port.
- When transporting your scooter, please consider that it contains lithium-ion batteries that are considered a hazardous material.
- Always exercise caution and follow applicable rules and regulations when transporting your scooter. It is very likely that you will not be allowed to take your scooter including battery on a plane.

Please contact us at fluidfreeride.com/contact for any assistance with maintenance.

DECLARATION OF CONFORMITY

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

FCC RELATED INFORMATION:

This product has been tested and found to comply with the limits for a Class B digital product, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult your place of purchase or an experienced radio/TV technician for assistance.

<p>NOTE: INFORMATION, SPECIFICATIONS, WARNINGS AND ALL OTHER DETAILS INCLUDED IN THIS MANUAL ARE SUBJECT TO CHANGE AT ANY TIME, WITHOUT PRIOR WRITTEN NOTICE.</p>
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fluid



fluidfreeride.com

Keep it fluid!