

Turbowheel *Lightning*



USER MANUAL

Getting Started

Basic operation:

Power On/Off	Press power button for 3 seconds to turn on scooter. The scooter turns off automatically if not used for 90 seconds.
Speed Control	While stationary, and with the power on, press and release the MODE button to cycle through the three different speed levels 1 to 3. Use the throttle to control the speed within each speed level.
Headlight	While power is on, press and hold MODE button for about 3 seconds to turn on or off headlight.
Mileage & Other data	While stationary, and with the power on, press and release the POWER button to cycle through the following data: ODO (lifetime mileage), TRIP mileage, VOLTAGE level, ELECTRICAL CURRENT level and ERROR CODE. To reset the TRIP mileage, while TRIP mileage is displayed, hold down MODE button for 3 seconds.



Turbowheel Dart: Dashboard Settings




Enable the Settings Mode: Pressing the Power + Mode simultaneously will enter the Dashboard setting mode.

Toggle through the Settings

Short pressing the power button  will toggle through the 10 available settings for the scooter

Changing the P Value

Once you have the P setting you wish to change, press the mode button  will increase value, the power button to decrease it

Setting the Change

Holding the mode button will set the value & return you to the P menu. Also, after 5 seconds the Dash will return to the main screen.

P01: Backlight. Range 1-3, 3 = Brightest	P08: Power Output. Default = 100
P02: Units. 1 = MPH, 2= KPH	P09: Kick-off Start. Default = 0 1 = Push to start
P03: Battery Voltage. 24, 36, 48, 52, 60. Default = 52V	P11: Regenerative braking. Range 0-5 Default = 0 off, 5 = strongest
P04: Dash Timeout. Range 1-60 minutes Default = 10 minutes	P12: Acceleration Power. Range 1-5 Default = 3
P06: Tire Diameter. Default = 10	P15: Low voltage cut. Default = 41
P07: Motor Poles. Default = 28	P17: Cruise Control. Default = 0, Off 1 = Enabled

Turbowheel Dart: Technical Specifications

Model	Turbowheel Lightning, T10-DDM
Battery	Sincpower 18.2Ah / 52V (nominal)
Tyre	10 x 2.5" air tire
Brakes	Dual disc + regenerative
Range*	~40 Miles
Top Speed	~35-40 MPH
Weight	77 lb
Suspension	Front & rear spring + hydraulic suspension
Lights	Twin front & rear, with braking mode
Controller	2x 25A control-
Motor Power	2x 1000W Hub
Max. Load	330 lb

*Range may vary depending on rider weight, riding style, terrain and tyre pressure.

Turbowheel Dart: Unfolding

1

Unlock the clamp



2

Unfold steering column

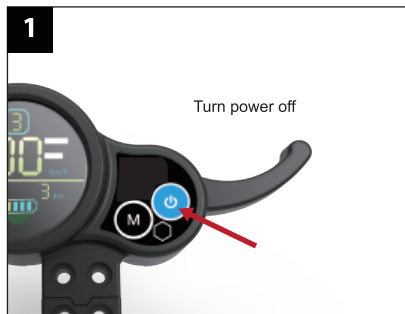


3

Secure the clamp



Turbowheel Dart: Folding



Instructions for battery usage

First Charge

It is important to fully charge the battery before your first use of the scooter.

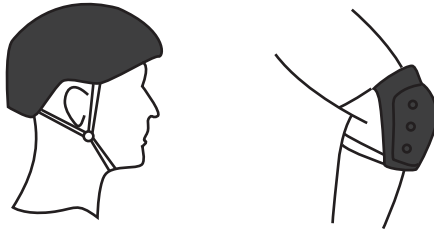
Features of the battery

Your scooter's battery comes with these built-in features:

1. **Balanced charging protection:** During charging, the battery automatically balances the voltage among the internal cells to protect each cell.
2. **Over-charging protection:** The battery stops charging automatically when full to protect against damage.
3. **Over current protection:** The battery automatically stops charging if the voltage is higher than prescribed voltage to protect the battery.
4. **Over discharging protection:** The battery automatically stops discharging when its voltage drops below 49V to protect the battery.
5. **Short-circuit protection:** the battery automatically stops output in the case of a short-circuit.
6. **Auto sleep:** The battery automatically enters sleep mode if there is no load for 20 minutes to conserve power.

How to charge

1. Ensure that scooter is **TURNED OFF**. Connect external power charger to scooter.
2. Connect charger to electrical outlet, then turn on the power of electrical outlet.
3. Do not charge the batteries in temperatures below 5 °C or above 40 °C. The battery may stop the charging process.



Safety

1. Always wear protective equipment like a safety-certified helmet, gloves, elbow guards, and knees guards.
2. Do not ride on rough, unpaved or uneven surfaces. Do not ride on surfaces with ice, snow or water.
3. Not suitable for riders below of 15 years or above 60 years old. Minors must be supervised.
4. Do not ride when under the influence of alcohol or other intoxicating substances.
5. Avoid riding in cold winter days.
7. Do not ride on rainy days.
8. Slow down on slopes; do not ride on slopes of steeper than 15 degrees in gradient.
9. Before riding, always do a visual inspection to check that all nuts and bolts are secure; that there is enough tyre pressure and the tyres are not worn out; that the brakes are functioning properly.
10. It is your responsibility to know and follow the laws governing the use of electric scooters in the country you ride in.

Care & Maintenance

Cleaning & Storage

Before cleaning, be sure to turn off the scooter and disconnect it from the wall electrical outlet. Close the charging port to reduce chances of water entering it, causing damage or electric shock.

Remove dirt or dust with a damp cloth. For stubborn dirt, scrub with a toothbrush and wipe clean with a damp cloth. Scratches on plastic parts can be removed or reduced with sandpaper.

Do not use alcohol, petrol, kerosene or other corrosive chemicals to clean the scooter. Never spray water directly onto the scooter with a hose.

Store scooter indoors in a cool, dry place. Storage in high or low temperatures, in direct sunlight or exposed to the weather will damage the scooter and its battery.

Maintenance and care of the battery

1. To avoid damage or injury, do not replace the battery with that of another model or brand.
2. Do not touch, dismantle or puncture the battery. Do not allow the battery to come into contact with metal objects.
3. Only use the original charger supplied with this scooter. Do not attempt to charge the scooter with any other charger.
4. After using the scooter, fully charge the battery before storing it to prolong the lifespan of the battery.
5. Do not store the scooter or battery in temperatures higher than 50 °C or lower than -20 °C. For example, do not store the scooter in a car exposed to the sun or in winter.
6. Do not dispose of the battery in fire.
7. If the scooter will not be used for more than 90 days, partially charge it before storing in a cool, dry place. The unused scooter should be partially charged once every 180 days, otherwise the battery may be damaged or may fail. Such battery failures are not covered by warranty.

IMPORTANT

Always recharge the battery before it is fully depleted.
Over-discharging shortens the lifespan of the battery.

Battery range is reduced at low temperatures. For example, at -20°C , the battery range may be less than half that at normal temperature.

If the battery is not charged for a long time, it may no longer be usable. The fully charged battery may become completely discharged in up to one year even without use. Damage from such cause is not covered by warranty.

Never disassemble the battery because there is a risk of short circuit and injury.