

SAFETY ADVISORIES

► General Scooter Safety Precautions

- Water Advisory:** This Scooter has some water-resistance properties but is NOT waterproof.
 - Try to avoid using in wet conditions & rain.
 - Do not use a hose or excessive water to clean the Scooter.
- Don't Get Caught Up:** Please take care to avoid having clothing, accessories (bag, shoelaces), fingers caught in rotational or folding element of the Scooter,
- The Mini4 is Not a Stunt Scooter:** Jumping, stunt riding, acrobatics, or abuse riding will void the warranty.
- Abide by the Weight Limits:** This product is intended for a single adult rider, please keep the maximum weight to under 265lb. This Scooter is NOT intended for Children. It should not be used by 2 people riding in tandem.
- Disassembly/Modifications** - Disassembling or modifying the Scooter without prior permission will void the warranty.
- Legal Compliance:** Please adhere to all local traffic and related laws governing Personal Electric Vehicles.
- Start Slow:** For new Riders, start out by operating at a conservative low speed. Practice riding in wide open areas before operating the Scooter in public.
- Controlled Stopping:** Hard and sudden emergency braking runs risk of toppling the Scooter. Please decelerate in a controlled gradual fashion to stop safely. Do not apply extreme force to the brake lever!
- Exercise Care Going Downhill:** Accelerating downhill is extremely dangerous! Take care to reduce your speed, use the brake accordingly. Manage brake overheating and stress to the scooter by stopping periodically on a long descent.
- Don't Push the Machine too Hard:** Acceptable hill grades vary depending the Rider's weight. Excessively long ascents up steep hills will lead to overheating, cut-outs, overcurrent or voltage sag cutouts, resulting in potential irreversible damage to the Scooter.
- When Lifting:** Trying to lift the scooter by the handles risks damage due to stressing the folding support. To lift properly, hold from the foot platform in one hand and handle section in other. Take care not to strain your back!
- Safety Gear:** Please wear appropriate safety protection for riding (helmet, knee pads, elbow pads, wrist guards,



► Ride Safety Recommendations

- When setting out to ride in the dark, please check that your lights are working properly. Because your ability to respond to events in low light is impaired, please keep your speed in check.
- Select suitable mode that allows for adjustment to unexpected riding scenarios. Practice gradually slowing to a complete stop.
- Take extra precautions when using in the following environments: slippery surfaces, high traffic areas, sudden inclines, poor quality roads, and intersections.
- Do not approach speed bumps at high speed, limit to under 3mph.
- Do not try to use a foot to brake or decelerate, it will endanger your safety & is not very effective.
- After riding, the motor and brake sections (esp. disk rotor) produce significant amounts of heat, do not touch!
- Riding with one hand only on handle, e.g. cell phone use, is strongly discouraged.
- Make sure the kickstand is is not extended when setting off.

Charging Guidelines

► Charging Procedure

- Open charging port cap and connect charger cable to charging port first, then connect charger to outlet.
- Charging Status Light ● (Red) Charging
● (Green) Fully charged
- Charging port cap must be closed at all times (during use & storage), except while charging.
- When plugging the charger to charging port, you may see a spark due to difference in voltage. This is normal.

► Proper Charger Use : Charger failure or abnormal use may cause electric shock or worse, please follow these guidelines:

- Manufacturer and distributor are not responsible for problems caused by disassembly, modification, or mixing use of chargers.
- Charging under following conditions is not recommended: high humidity, temperature, enclosed spaces lacking ventilation.
- The charger is not waterproof. Ensure moisture does not enter into charger.
- Keep children away from the charger and scooter.
- In event of charger failure, charger status light failure, indentation to either charger or Scooter , exposed cables, etc., stop use immediately and contact the eWheels service department.
- Unplug power cable from outlet if charger is left unattended for extended period of time.
- Use only approved chargers intended for the Scooter.
- Do not insert conductors objects into the charging port.
- Do not touch charger power plug for approx. 10 sec. after unplugging.
- Do not disconnect charger from the connector port while charging, doing so causes stress to internal circuits and possible malfunction.
- Do not operate the Scooter while charging.
- Terminals should be firmly in contact. Do not use if terminals are corroded or damaged.
- When disconnecting charger from Scooter, do not pull by wire, pull by terminal.

- *Short circuit warning : Be careful not to short battery wires.
*Overcurrent warning : Product is designed to automatically shut off and protect battery if current is 20A or greater.
*Low Voltage warning : Product is designed to automatically shut off when voltage drops below 32V.
Do not use the Scooter at low voltage.

Warranty Information

- Please retain the Scooter's box for the event of having to send it in for repair.
- MiniMotors Scooters are classified as 'extreme sporting vehicles.' Due to nature of product, occasional maintenance checks are required.
- As with similar class of products, these Scooters cannot be exchanged, returned or refunded once assembled and operated. However, eWheels will work with our Customers to resolve any product-related problems that develop.

| Service Terms and Conditions |

- The Customer will need to cover the shipping costs if the Scooter needs to be sent in for repair
- Coverage is from date of purchase. Not covered under warranty are consumable parts, damage caused by immersion in water, or failure due to abuse, or what is considered to be operating outside the 'normal' usage, etc. Consumables can either be purchased separately, or sent in for repair, at the Customer's expense.
- Under warranty period, parts for simple repair and self-service may be supplied free of charge.

| Exchange and Return Delivery Information |

- For returns and exchanges, the Scooter must be unopened and a request sent to sales@ewheels.com within 14 days of receipt.
- Customer pays full shipping costs back to the service center for exchanges or returns.

| Quality Guarantee |

This product undergoes inspection at manufacturing plant before shipment. Any initial failure or defects discovered after use and within warranty period shall be repaired free of cost by one of our repair centers in either San Diego or Miami.

Fee (not covered)		Covered	
1. Out-of-Warranty Failure 2. While in Warranty: <ul style="list-style-type: none">- Consumable part replacement costs (tire, tube, bearing, brake pad, various cables, etc.)- Failure due to improper use or attempted self-repair- Unit is modified or opened- Failure due to natural disaster (fire, flood, etc.)- The Scooter is used for non-personal use, e.g. as a rental		1. In-Warranty: <ul style="list-style-type: none">- 1 yr : Chassis- 1 yr: Main Parts (motor, battery, controller, accelerator, charger)- Coverage based on sale date	
Date of Purchase	20	YEAR	MONTH DAY
Distributor			
Contact			

Li

Lithium Battery Care Tips

- Performance:** Lithium batteries are heavily influenced by temperature. In colder environments, battery performance will be temporarily reduced (range, power) & returns back to normal at warmer temperatures.
 - When lithium battery surpasses >300 charge/discharge cycles, the typical capacity is reduced by 15% or more.
- Charging:** Please use only genuine, eWheels-supplied batteries and chargers with Mini4 Pro. Neither the manufacturer nor the seller are responsible for any issues arising from use with 3rd-party batteries or chargers.
 - Charging with non-approved chargers may risk fire or malfunction.
 - Lithium battery must be well sealed and well ventilated. Charge battery in a dry area free of flammable items.
 - Lithium batteries should be charged at 32~113°F. Discharge should take place at ~4~140°F. Charging or discharging outside of these temperature ranges may malfunction or fire risk.
 - When moving from colder outdoor temperatures to warmer indoor temperatures, wait 1~2 hours to charge. This prevents possible malfunction arising from condensation entering the unit (as a result of temperature difference).
- Storage:** Avoid exposing lithium battery to rain, snow, or direct sunlight. Avoid charging or storing battery in car trunks or hot indoor temperatures. Store battery in dry areas at room temperature (50~68°F).
 - For longer periods of storage, store battery at 70~80% capacity. (avoid storing at full charge)
- Evidence of Malfunction, Safety Risk:** If BMS (Battery Mangement System) is damaged or battery exhibits signs of leakage, strange odor, or bulging, please discontinue use immediately and contact eWheels at support@ewheels.com
 - If the scooter exhibits overheating, smoke, or ignition light is detected, discontinue charging or use immediately. Quickly move unit outdoors and extinguish with fire extinguisher. Never extinguish unit by spraying with water or immersing in water.
 - Lithium batteries are extremely in energy dense. Charging battery with short circuit, leakage, defective cells, etc., for long periods of time may risk fire. Thus, avoid long periods of unattended charging. Supervised charging can avoid unexpected risks of fire.
- Misuse:** The following may risk fire or malfunction: shorting lithium battery charge terminals, reversing polarity, overall shock to battery. If battery appears to taken impact, discontinue charging/use immediately
- Water Exposure:** Ensure water or moisture does not enter into battery chamber. Charging water-exposed batteries may risk permanent damage, electric shock or fire.
- Do not Remove Battery for Charging:** Removing battery and charging outside the Scooter is prohibited.
- Disposal:** When the useful life of the battery of the battery, please contact your local recycling center for instructions on how to . When removing battery from unit, make sure charge/discharge cables do not touch / short. In event of self-disposal, utilize local lithium waste disposal programs.

- Warning Disassembly of battery is prohibited.
Warning Disassembly, modification, and third-party attempted repair of battery voids warranty.



User's Manual

* Due to nature of product, open box returns are not accepted.



MiniMotors Club
minimotorsclub



✓ Please read User's Manual in full before operating. Do not let others operate the Scooter who have not examined the manual.

* This is a powerful Scooter, you may be endangered if not used according to the Guidelines set forth within.

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Getting Started Inspection Checklist

1) Accelerator Trigger and Handlebar Check

- When powered off, pull the throttle lever a couple times. Confirm that it returns to original position.
- Do not pull trigger violently. Operate in smooth manner.



2) Brake and Cable Check

- Test the braking strength. If the braking line has excess slack, please adjust before use.
- If brake sticks, or makes an unusual noise, check brake cable inner wire for signs of fraying, wear, strain, etc.
- Check for any sign of loosening to nuts & bolts.



3) Tire Pressure and Condition Check

- Check front and rear tires for punctures, excessive wear in tread. Confirm tire pressure is set at the recommended 45~50psi. Loss of tire pressure will result in less range, please check this regularly
- Replace tire accordingly based on tire condition (tire damage, wear in tread, etc.).



(4) Folding Section and Handlebar Tune-Up Check

- **Folding/Unfolding:** Make sure the folding lock lever is fixed and in a forward position. Ensure handlebar post folds smoothly. Make sure handlebar shaft is properly aligned and locked in the groove before using.



5) Overall Condition Check

- Some parts of the Scooter require regular maintenance & periodic inspection. Such parts include: chassis fork, tire, tube, wheel, bearing, headset bearing, cable, folding elements, suspension parts, various brackets, miscellaneous parts, etc.

6) Check for Damage

- Certain areas of the Scooter are more susceptible to being damaged under harsh conditions; metal can develop fractures due to impacts, there is also general wear-and-tear to contend with. If there is damage to a part & doesn't look correct, it should be replaced promptly. Long UV exposure from sunlight may cause discoloration to the Scooter's paint.

If the following occurs while riding, stop immediately and contact us at support@ewheels.com. To provide an accurate diagnosis, please provide pictures, a short video clip, & a description of the problem.



- Excessive overheat of motor
- Unusual noise
- Other riding abnormalities
- Throttle trigger does not return to the original state
- Dashboard error message



Overview of the Speedway Mini4 Pro

- Contents Checklist
- Charger (2A), Tools for assembly, Mini 4 Pro
- * Battery comes pre-installed



Dashboard Functionality

► Speed Mode Select (MODE) + (Power Button) to control

► Main Mode Select (MODE) short press cycle through modes

With dashboard powered on, pressing (MODE) will display currently selected speed mode, and pressing (Power Button) will cycle through speed modes (3 in total). Once mode is selected, pressing (MODE) will complete the selection.

* When battery remaining is 10%, meter will flash 3x every 10 sec. When battery remaining is 0%, meter will continue to flash non-stop.

► Dashboard Settings (MODE) + (Power Button) enters settings mode

Turn on dashboard. With (MODE) + (Power Button) pressed and held for 2~3 sec., press (MODE) to enter settings mode. In settings mode, pressing (Power Button) once allows settings value changes, where (MODE) and increase and decrease values.

Setting Mode

Setting Value

* If default settings for P0(8), P1(48), P2(15), P3(0) are changed, correct info will not display.

* In Low Speed(1) mode, changing to Slow Start(P7) function will not enable feature.

Mode	Description
TRIP	Current Trip Mileage (long press mode button to reset)
ODO	Total Mileage
CHA	(unused)
VOL	Current Voltage
DST	(unused)
TIME	Time Elapsed

Mode	Description
P0	8(fixed)
P1	48(fixed)
P2	15(fixed)
P3	0(fixed)
P4	Units (speed) 0(Km/h) 1(mp/h)
P5	Start Mode 0(instant) 1(kick push)
P6	Cruise Control 0(disabled) 1(enabled)
P7	Slow Start 0(off:power) ~5(slow)
P8	Max Power Select - P8 : 1~100
P9	Battery Eco Mode 1(max) 2(mid) 3(off)
PA	Electric Brake Sensitivity 0(off) ~5(strongest)
Pb	LCD Brightness 0(off) ~5(max)

- Unit measurement - P4 : 0(Km/h), 1(mp/h) displayed
- Start Mode selection - P5 : 0(instant), 1(kick push start)
- Cruise Control - P6 : 0(disabled), 1(enabled)
- Slow Start - P7 : 0(off: power start) ~ 5(smooth start)
- Max Power Select - P8 : 1 ~ 100
- Battery Eco Mode - P9 : 1(max), 2(mid), 3(off)
- Electric Brake Sensitivity Select - PA : 0(disable) ~ 5(strongest)
- LCD Brightness - Pb : 0(off) ~ 5(max)

Getting Started with Your Speedway Mini4 Pro

Unfolding (Steps)

1. Raising handlebar post
2. Handle T-bar height adjustment
3. Unfolding handles

How to Start

- Step 1) Light Button Check
- Step 2) Turning on the Dashboard
- Step 3) Riding
- Step 4) Apply the throttle

Note Enhancements

On the Speedway Mini 4, the folding supports have been upgraded. Both the front and rear suspension have been significantly enhanced for improved riding comfort. Periodically check front & rear suspensions for warping or strain (caused by hard impact while riding), along with tightness of suspension nuts and bolts.

Caution

Before riding, make sure the folding support handlebar post, are fastening & locked into position. Make sure handlebar is fully extended by pulling until lock clicks.

Getting Started with Your Speedway Mini4 Pro, Cont.

Recommend Braking Practices

Rule 1 Rear Brake Deceleration

Always decelerate before coming to a complete stop. Practice safe braking by decelerating with rear brake lever first, coming to a gradual and complete stop.

Rule 2 Stop Safely

Extreme hard and sudden emergency braking may cause Scooter to skid out. Please apply progressive gradual braking. Do not apply extreme force to the brake lever.

Rule 3 Electric Braking and Deceleration

When you enable the electric brake and set brake strength on dashboard it enhances the effectiveness of the stopping distance. If enabled, when applying the brake both the motor & drum brake automatically work in tandem.

Tip Brake Inspection

Please periodically check the brake cable (connection points, wire damage, twisting, etc.) and drum brake (for excessive wear, loosening of inner wire) to ensure safe and proper braking function.

Advisory

- At speed, sound may occur from accelerated sections under load (this is torsional vibration), due to vibration from motor and chassis components. At approx. 6~15 mph, this is a common phenomenon of all rotors at specific rotational RPM (eg. fans, cars, motor boats, etc.), and is not a product defect. However, in event of continuous noise or overly loud metallic noise, supporting bolts may have loosened. Please inspect before use.
- After use, the motor & rear drum brake may produce significant amount of heat, please do not touch!

Folding (Steps)

1. Folding handlebar stem
2. Retracting handlebar
3. Folding handles

Dashboard Functionality, Cont.

► Cruise Control

Cruise Control for Convenience. Please use safely!

Cruise control automatically maintains the current speed. Using cruise control eliminates the need to continually hold the throttle on those longer rides, while also increasing the overall battery efficiency.

• Engage Cruise Control

After enabling cruise control function, holding the throttle lever for approx. 7 sec at desired speed will automatically engage cruise control.

• Disengaging Cruise Control

Once cruise control is engaged, by squeezing, then releasing the brake lever, will deactivate it.

Caution

When cruise control is activated, be prepared to brake at any time in case of emergency. Cruise control can only be cancelled via braking, not via accelerator trigger.

► Electric Brake Sensitivity Settings

Warning

Electric Braking on Full Charge

Be aware that electric braking will not function while device is fully charged, ride accordingly. Electric brakes will resume operating as normal when battery is partially depleted.

► Dashboard Diagnostics

Failure Type	Diagnostic Method	Solution
②	System Error	*If these error messages appear, please contact us at support@ewheels.com
④	Motor Error	
⑤	Accelerator Error	
⑥	Controller Error	
⑦ ⑧ ⑨ ⑩	(Other)	

* ① Displayed when cruise control is engaged.

* ③ Displayed when brake lever is engaged. (Accelerator is disabled)

Specifications

Product	Speedway Mini 4 (ERT-0836)	Model Name	Notes
Motor Type	48V 500W nominal BLDC HUB Motor		Rear-Wheel Drive / MAX 1300W
Battery Type	48V 15Ah		Lithium Polymer
Battery Capacity	748 Wh		
Scooter Weight	36 lbs		
Charging Time	6~8 hours* with regular charger		battery cycle life dependent
Range (Continuous)	30 miles		165±10lbs rider weight, 15.5 mph (flat, level ground)
Max Speed	28 mph		
Max Incline	15 degrees (approx 27% grade)		
Max Load	265 lbs		
Folding Features	One-touch folding / Handlebar: one-touch slide & fold		
Dimensions	40" x 20.9" x 46.5"		Length x Width x Height
Dashboard	Throttle trigger-mounted backlit LCD Display		Power On/Off (Battery %, Trip, Odometer, Time Elapsed, Speed, Volt Meter)
Lights	LED Headlight, Tail-light		Tail-light also functions as Brake Light
Suspension	Front and Rear Suspension		
Brake	Drum Brake (Rear)		Built-in electric braking (on/off), regenerative
Tires	8" (200 x 50)		Pneumatic Tire (Front) / Solid Rubber Tire (Rear)
Materials	Aluminum alloy (frame, handlebar), PP (cover)		

* Range and max speed may vary according to rider weight, climate, wind resistance, road conditions, hill grade, tire pressure, battery condition, and overall riding manner.