



E100 **SERIES**



⚠ NOTE: The unit must be traveling up to 3 mph (5 kmh) before motor will engage. Kick start up to 3 mph (5 kmh) while applying the push button to engage motor.

OWNER'S MANUAL

Read and understand this entire manual before allowing child to use this product!

NOTE: Manual illustrations are for demonstration purposes only. Illustrations may not reflect exact appearance of actual product. Specifications subject to change without notice.

SAFETY WARNINGS

⚠ WARNING: Riding an electric scooter does present potential risks and caution is required. Like any riding product, an electric scooter has inherent hazards associated with its use (for example, falling off or riding it into a hazardous situation). Like any riding product, electric scooters can and are intended to move and it is therefore, of course, possible to lose control or otherwise get into dangerous situations. Both children, and adults responsible for supervising them must, recognize that if such things occur, a rider can be seriously injured or die even when using safety equipment and other precautions. RIDE AT YOUR OWN RISK AND USE COMMON SENSE.

⚠ WARNING: PARENTAL AND ADULT RESPONSIBILITY AND SUPERVISION IS NECESSARY: Because products, like electric scooters, can and do present potential hazards plainly associated with their use, it is well recognized THE NEED FOR EXERCISE OF PARENTAL RESPONSIBILITY IN SELECTING RIDING PRODUCTS APPROPRIATE TO THE AGE OF A CHILD, OR PARENTAL SUPERVISION IN SITUATIONS IN WHICH CHILDREN OF VARIOUS AGES MAY HAVE ACCESS TO THE SAME RIDING PRODUCTS, IS IMPORTANT. Not every product is appropriate for every age or size of child, and different age recommendations are found within this category of product which are intended to reflect the nature of the hazards and the expected mental or physical ability, or both, of a child to cope with the hazards.

The recommended minimum rider age is 8 and older. Any rider unable to fit comfortably on the scooter should not attempt to ride it. A parent's decision to allow his or her child to ride this product should be based on the child's maturity, skill and ability to follow rules.

Keep this product away from small children and remember that it is intended for use only by persons who are, at a minimum, completely comfortable and competent while operating the scooter.

Persons with any mental or physical conditions that may make them susceptible to injury, impair their physical dexterity or mental capabilities to recognize, understand, and follow safety instructions and to be able to understand the hazards inherent in scooter use, should not use or be permitted to use products inappropriate for their abilities. Persons with heart conditions, head, back or neck ailments (or prior surgeries to these areas of the body), or pregnant women, should be cautioned not to operate such products.

DO NOT EXCEED THE WEIGHT LIMIT OF 120 lb (54 kg). Rider weight does not necessarily mean a person's size is appropriate to fit or maintain control of the scooter.

CHECK AND MAINTAIN SCOOTER CONDITIONS

Before use, check to confirm that any and all chain guards or other covers and guards are in place and in serviceable condition. Check that the brake is functioning properly, and that tires are inflated properly and have sufficient tread remaining. The scooter should be maintained and repaired in accordance with the manufacturer's specifications, using only the manufacturer's authorized replacement parts, and should not be modified from the manufacturer's original design and configuration.

ACCEPTABLE RIDING PRACTICES AND CONDITIONS

Always check and obey any local laws or regulations, which may affect the locations where the electric scooter may be used. Keep safely away from cars and motor vehicle traffic at all times, and only use where allowed and with caution.

Do not activate the speed control on the hand grip unless you are on the scooter and in a safe, outdoor environment suitable for riding. **The electric scooter must be moving 3 mph/5 kmh before the motor will engage.**

The normal powered top speed of this scooter will be approximately 10 mph (16 kmh), which can be affected by conditions, such as rider weight, inclines, tire inflation and battery charge level. Avoid excessive speeds that can be associated with downhill rides.

Maintain a hold on the handlebars at all times. Do not touch the brakes or motor on your scooter when in use or immediately after riding, as these parts can become very hot.

Ride defensively. Watch out for potential obstacles that could catch your wheel or force you to swerve suddenly or lose control. Be careful to avoid pedestrians, skaters, skateboards, scooters, bikes, children or animals who may enter your path, and respect the rights and property of others.

The electric scooter is intended for use on flat, dry surfaces, such as pavement or level ground, without loose debris, such as sand, leaves, rocks or gravel. Wet, slick, bumpy, uneven or rough surfaces may impair traction and contribute to possible accidents. Do not ride your scooter in mud, ice, puddles or water. Watch out for potential obstacles that could catch your wheel or force you to swerve suddenly or lose control. Avoid sharp bumps, drainage grates, and sudden surface changes.

Do not attempt or do stunts or tricks on your electric scooter. The scooter is not made to withstand abuse from misuse, such as jumping, curb grinding or any other type of stunts. Racing, stunt riding, or other maneuvers also enhance risk of loss of control, or may cause uncontrolled rider actions or reactions.

Never allow more than one person at a time to ride the scooter.

Do not ride at night or when visibility is limited.

Never use near steps or swimming pools.

Do not allow hands, feet, hair, body parts, clothing, or similar articles to come in contact with moving parts, wheels, or drive train chain while the motor is running.

Never use headphones, a cell phone or text when riding.

Never hitch a ride with a vehicle.

Do not ride your scooter in wet or icy weather and never immerse the scooter in water, as the electrical and drive components could be damaged by water or create other possibly unsafe conditions. Never risk damaging surfaces, such as carpet or flooring, by use of an electric scooter indoors.

PROPER RIDING ATTIRE

Always wear proper protective equipment, such as an approved safety helmet (with chin strap securely buckled), elbow pads and kneepads. A helmet may be legally required by local law or regulation in your area. A long-sleeved shirt, long pants, and gloves are recommended. Always wear athletic shoes (lace-up shoes with rubber soles) and keep shoelaces tied and out of the way of the wheels, motor and drive system. Never ride barefooted or in sandals.

USING THE CHARGER

The charger supplied with the electric scooter should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, the scooter must not be charged until the charger has been repaired or replaced.

Use only with the recommended charger.

Use caution when charging.

The charger is not a toy. Charger should be operated by an adult.

Do not operate charger near flammable materials.

Unplug charger and disconnect from scooter when not in use.

Always disconnect from the charger prior to wiping down and cleaning your scooter with damp cloth.

FAILURE TO USE COMMON SENSE AND HEED THE ABOVE WARNINGS INCREASES RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.

BEFORE YOU BEGIN

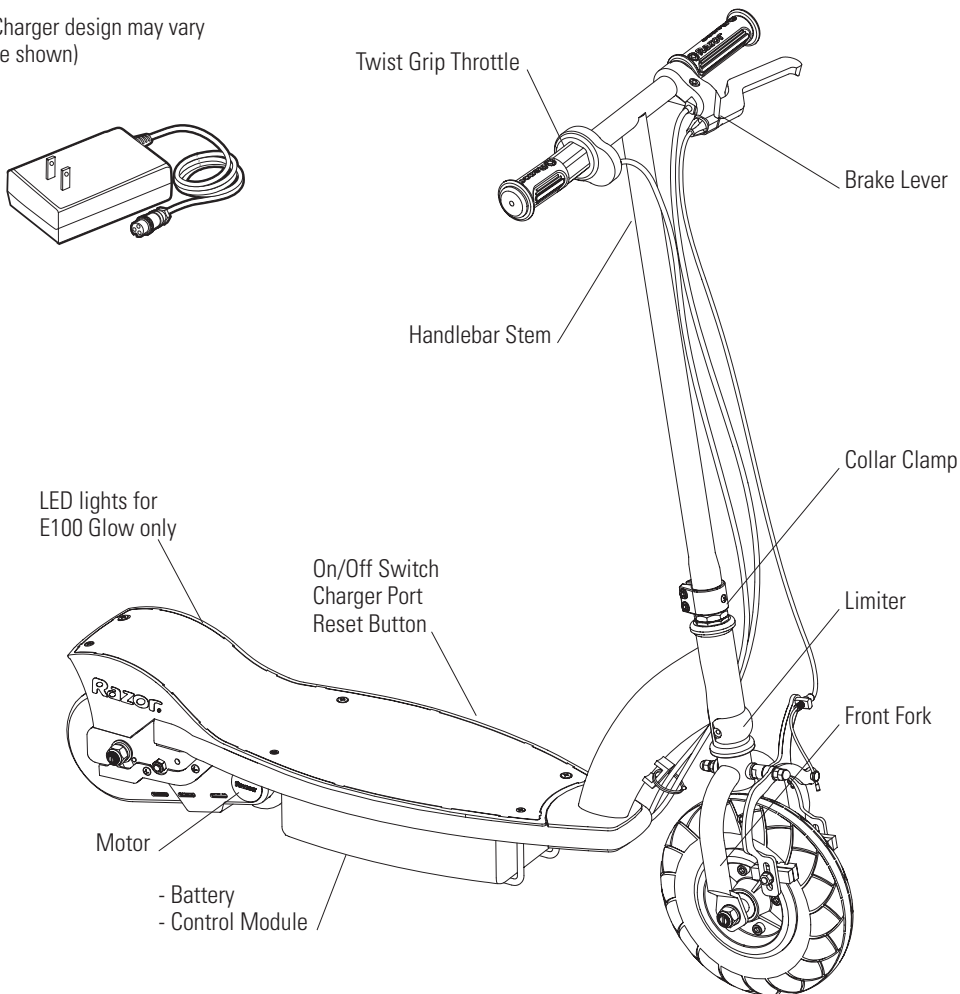
Remove contents from box. Remove the separators that protect the components from damage during shipping. Inspect the contents of the box for scratches in the paint, dents or kinked cables that may have occurred during shipping. Because the scooter was 95 percent assembled and packed at the factory, there should not be any problems, even if the box has a few scars or dents.

MAKE SURE POWER SWITCH IS TURNED "OFF" BEFORE CONDUCTING ANY ASSEMBLY OR MAINTENANCE PROCEDURES.

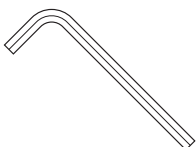
Estimated Assembly and Set-Up Time

Razor recommends assembly by an adult with experience in bicycle mechanics. Allow up to 10 minutes for assembly, not including initial charge time. Allow up to 12 hours for charge (see charging information).

Charger
(Note: Charger design may vary from one shown)



Required Tools



5 mm Allen wrenches
(Included)

WARNING:
DO NOT USE NON-RAZOR PRODUCTS WITH YOUR RAZOR ELECTRIC SCOOTER. The scooter has been built to certain Razor design specifications. The original equipment supplied at the time of sale was selected on the basis of its compatibility with the frame, fork and all other parts. Certain aftermarket products may not be compatible and will void the warranty.

Note: Electric scooter must be moving at 3 mph/5 kmh while pressing the push button throttle to engage motor.

Product ID Locations:

1. Handlebar Stem
2. Underneath battery tray
3. Charger
4. Box - side of UPC (not shown)

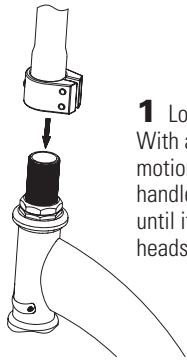
Plastic Bag Contents:

- Charger
- Tools
- Owner's Manual

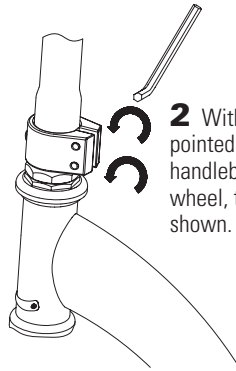
ASSEMBLY AND SET-UP

□ Attaching the Handlebars

Tools required: 5 mm Allen Wrench



1 Loosen the collar clamp. With a clock-wise twisting motion, push and “thread” the handlebar stem onto the fork until it bottoms out on the fork headset lock nut.



2 With the front wheel pointed straight ahead and the handlebars square to the front wheel, tighten the clamp as shown. Tighten securely.

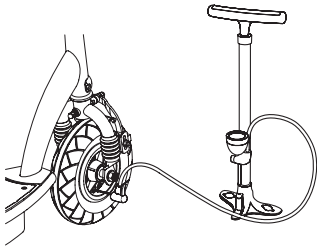
Note: Make sure the cables/wires are out of the way before inserting the stem in the fork.

⚠ WARNING: Failure to properly tighten the collar clamp may allow the handlebars to dislodge while riding and may cause you to lose control and fall. When correctly tightened, the handlebars will not rotate out of alignment with the front wheel under normal circumstances.

Note: The cable and wire assembly from the handlebar must not wrap around the steering tube or handlebar. Sharp bends or twisting of the brake cable can cause the brakes to malfunction.

□ Inflating the Tire

The front tire is inflated when shipped, but it invariably may lose some pressure between the point of manufacturing and your purchase. Always inflate tire to the correct PSI before first time use.



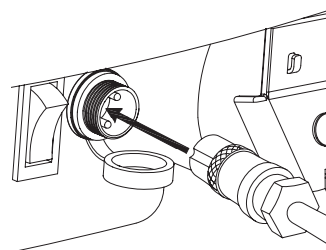
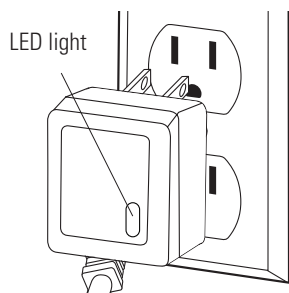
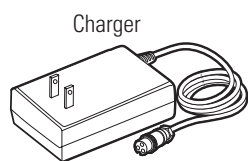
1 Using a bicycle-style tire pump equipped for a Schrader-type valve, inflate the front tire to the correct PSI indicated on the sidewall of the tire.

Note: The pressure air supplies found at gasoline stations are designed to inflate high-volume automobile tires. If you decide to use such an air supply to inflate your electric scooter tires, first make sure the pressure gauge is working, then use very short bursts to inflate to the correct PSI. If you inadvertently over-inflate the tire, release the excess pressure immediately.

CHARGING THE BATTERY

Your electric scooter may not have a fully charged battery; therefore you must charge the battery prior to use.

- Initial charge time: 12 hours.
- Recharge time: up to 12 hours, even if the light turns green. Recommended maximum charging time is 24 hours.
- Always charge the battery immediately after riding.
- Fully charge battery before storing for extended periods of time.
- Unplug charger from the wall outlet when not in use.
- Failure to recharge battery periodically may result in a battery that will not accept a charge.
- Make sure the power switch is turned **OFF** when unit is not in use. If the power switch is left on for an extended period of time, the battery may reach a stage at which it will no longer hold a charge.
- To ensure long battery life, never store the product in freezing or below freezing temperatures! Freezing will permanently damage the battery.
- Run time: Up to 40 minutes of continuous ride time. Run time may vary depending on riding conditions, rider weight, climate, and/or proper maintenance.
- Battery life can vary depending on proper maintenance and usage of the unit.



Note: Make sure power is turned **OFF** when unit is not in use. If the power switch is left on for an extended period of time, the battery may reach a stage at which it will no longer hold a charge.

1 Plug the charger plug into wall outlet. The light on the charger should be green.

Note: If green light (LED) does not turn on, try a different outlet.

2 Plug the charger into the charger port on the product. Make sure the power switch is in the **OFF** position. The light on the charger should turn red during charging. The light will turn green again when charging is complete.

⚠ WARNING: Use **ONLY** with the recommended charger. Batteries are only to be charged under adult supervision. The charger is not a toy. Always disconnect the charger before wiping down and/or cleaning the electric scooter with a damp cloth.

The charger supplied with the electric scooter should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, the electric scooter must not be charged until it has been repaired or replaced.

Chargers have built-in overcharge protection to prevent battery from being overcharged.

Note: If the charger gets warm during regular use, this is a normal response and is no cause for concern. If your charger does not get warm during use, it does not mean that it is not working properly.

Wall outlet - Green
Wall outlet and unit - Red (charging)
Wall outlet and unit - Green (charged)

Note: Continue charging unit even if light turns green prior to 12 hours.

⚠ WARNING: Failure to recharge the battery at least once a month may result in a battery that will no longer accept a charge.

PRE-RIDE CHECKLIST



Brake

Check the brakes for proper function. When you squeeze the lever, the brake should provide positive braking action. Make sure that brakes are not rubbing when the lever is released.



Tires

Periodically inspect the tires for excess wear and regularly check the tire pressure. Reinflate as necessary.



Frame, Fork and Handlebars

Check for cracks or broken connections. Although broken frames are rare, it is possible for an aggressive rider to run into a curb or object and wreck, bend or break a frame. Get in the habit of inspecting your scooter on a regular basis.



Hardware/Loose Parts

Before every ride, check all parts, such as nuts, bolts, cables, fasteners, etc., to ensure they are secure and assembled correctly. There should not be any unusual rattles or sounds from loose parts or broken components. If the unit is damaged, do not ride.



Safety Gear

Always wear proper protective gear, such as an approved safety helmet. Elbow pads and kneepads are recommended. Always wear athletic shoes (lace-up shoes with rubber soles) and keep shoelaces tied and out of the way of the wheels, motor and drive system. NEVER RIDE BAREFOOTED OR IN SANDALS.



Laws and Regulations

Always check and obey any local laws or regulations.



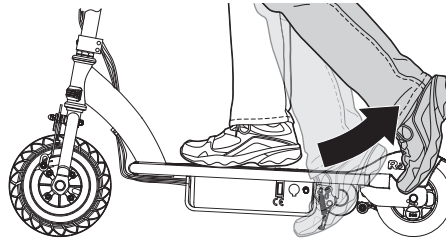
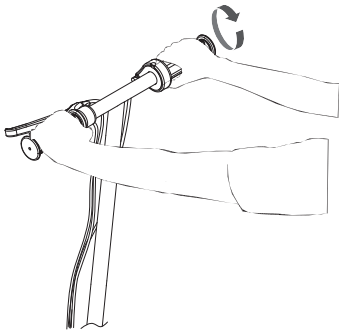
Insurance

Do not assume that your existing insurance policies necessarily provide coverage for scooter use. Check with your insurance company for information regarding insurance.

USAGE

How to Ride

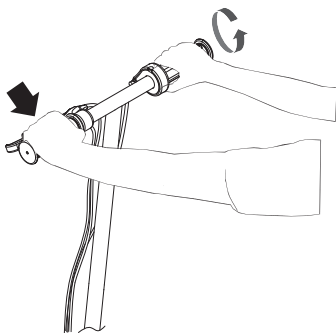
To start unit, turn on power switch; place both hands on handlebars and kick start the unit using one foot to push scooter forward while applying the throttle with right hand. The scooter must accelerate to 3 mph/5 kmh for motor to engage. LED lights are activated when the throttle is applied (E100 Glow only).



Note: Electric scooter must be moving at 3 mph/5 kmh while engaging throttle to engage motor.

How to Stop

To stop unit, release the throttle and apply the brake until the unit comes to a **complete stop**.



Note: As an additional safety feature, the scooter is designed to cut power to the motor when the hand brake is applied.

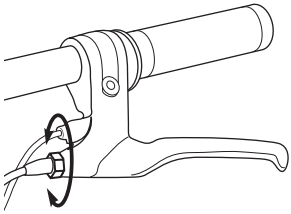
REPAIR AND MAINTENANCE

Turn power switch "OFF" before beginning repair or maintenance:

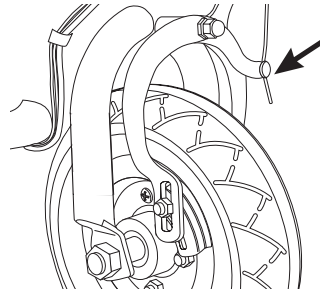
- Read the instructions
- Remove charger plug
- Turn the power switch off
- Secure the unit under repair
- Exercise caution around exposed parts
- Contact Razor customer service if unsure about any repair or maintenance

□ Adjusting the Brakes

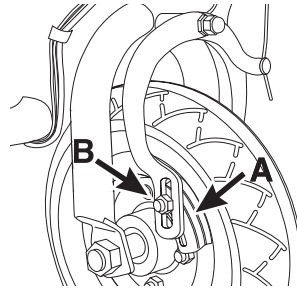
Tools required: 10 mm wrench



1 To adjust brake cable play, thread the brake lever adjuster in or out 1/4 to 1/2 turn until the desired brake adjustment is attained. Most adjustments are complete at this step. If brake still needs further adjustment, proceed to step 2.



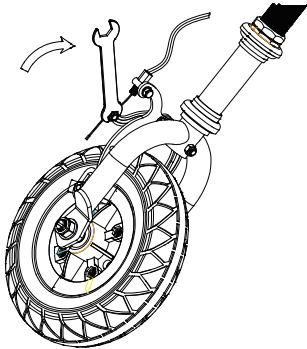
2 If brake is too tight or has too much slack, use a 10 mm wrench to loosen the brake cable and adjust accordingly.



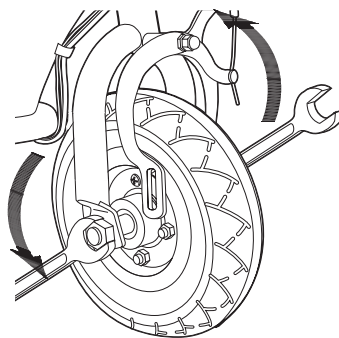
3 Inspect the brake pads (A) for proper alignment against the wheel or excess wear. To realign brake pads, loosen the fixing nut (B) and adjust the pad to contact the rim. Re-tighten and readjust as needed. Verify proper brake function prior to riding the scooter.

□ Replacing the Front Wheel

Tools required: 10 mm wrench and two (2) 16 mm wrenches.



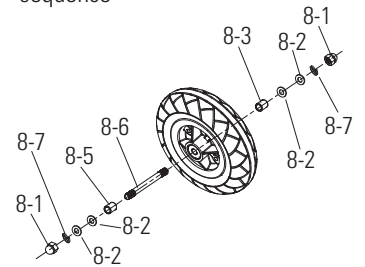
1 Using a 10 mm wrench loosen the brake cable bolt.



2 Using two (2) 16 mm wrenches, loosen the locknuts by turning the wrenches counter clockwise. Remove wheel and install replacement wheel. Reference front wheel hardware sequence.

3 Reassemble, adjust and tighten brake cable. Verify proper brake function prior to riding the scooter.

Note: Front wheel hardware sequence



Right Side (Throttle)

8-3 Spacer

8-2 Washer

Fork

8-2 Washer

8-7 Spring Washer

8-1 16 mm Locknut

Middle

8-6 Front Axle Bolt

Left Side (Brake)

8-5 Spacer

8-2 Washer

Fork

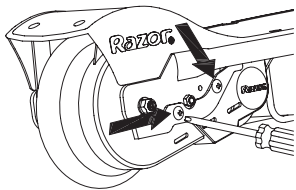
8-2 Washer

8-7 Spring Washer

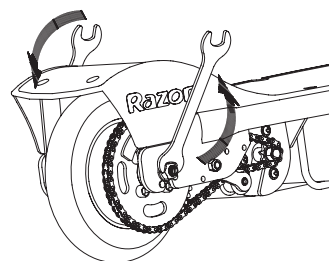
8-1 16 mm Locknut

□ Replacing the Chain and Rear Wheel

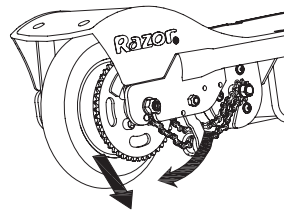
Tools required: Phillips screwdriver and two (2) 13 mm wrenches.



1 Using a Phillips screwdriver, loosen the two (2) screws on the chain guard and remove.

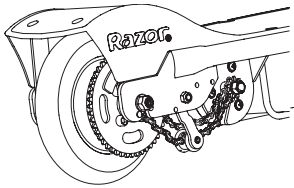


2 Using two (2) 13 mm wrenches, loosen the locknuts by turning the wrenches counter clockwise. Reference rear wheel hardware sequence.

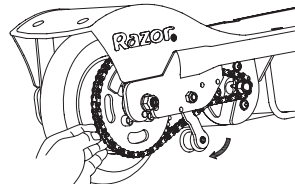


3 To loosen the chain, pushing the tensioner down to create some slack in the chain.

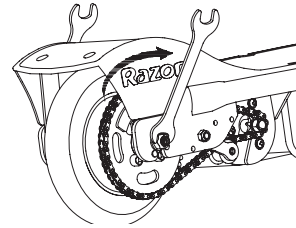
REPAIR AND MAINTENANCE



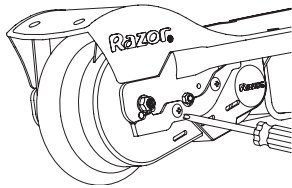
4 Remove wheel and install replacement wheel. (Note the sequence of the hardware.)



5 Push the chain tensioner down to install the chain on both sprockets.



6 With two (2) 13 mm wrenches, re-tighten the locknuts.



7 Reattach the chain guard.

Battery Care and Disposal

Never store the product in freezing or below freezing temperatures! Freezing will permanently damage the battery. Failure to recharge the battery at least once a month may result in a battery that will no longer accept a charge.



CONTAINS SEALED LEAD ACID BATTERIES. BATTERIES MUST BE RECYCLED.

Disposal: Your Razor product uses sealed lead-acid batteries which must be recycled or disposed of in an environmentally safe manner. Do not dispose of a lead-acid battery in a fire; the battery may explode or leak. Do not dispose of a lead-acid battery in your regular household trash. The incineration, land filling or mixing of sealed lead-acid batteries with household trash is prohibited by law in most areas. Return exhausted batteries to a federal or state approved lead-acid battery recycler or a local seller of automotive batteries. If you live in Florida or Minnesota, it is prohibited by law to throw away lead-acid batteries in the municipal waste stream.

Charger

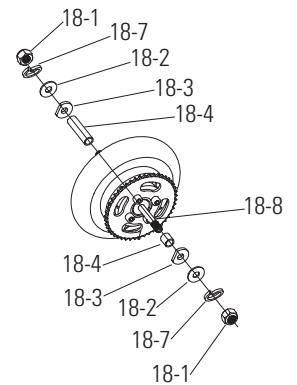
The charger supplied with the electric scooter should be regularly examined for damage to the cord, plug, enclosure and other parts, and in the event of such damage, the product must not be charged until it has been repaired or replaced.

Use **ONLY** with the recommended charger.

Wheels

Wheels and drive system are subject to normal wear and tear. It is the responsibility of the user to periodically inspect wheels for excess wear and adjust and replace drive train components as required.

Note: Rear wheel hardware sequence



Left Side (Brake)

- 18-1 13 mm Locknut
- 18-7 Spring Washer
- 18-2 Washer

Frame

- 18-3 Washer (Plate Cut)
- 18-4 Spacer (Long)

Middle

- 18-8 Rear Axle Bolt

Right Side (Throttle)

- 18-1 13 mm Locknut
- 18-7 Spring Washer
- 18-2 Washer

Frame

- 18-3 Washer (Plate Cut)
- 18-4 Spacer (Short)

⚠ WARNING: If a battery leak develops, avoid contact with the leaking acid and place the damaged battery in a plastic bag. Refer to the disposal instructions at left. If acid comes into contact with skin or eyes, flush with cool water for at least 15 minutes and contact a physician.

⚠ WARNING: Battery posts, terminals and related accessories contain lead and lead compounds. **Wash your hands after handling.**

TROUBLESHOOTING GUIDE

Unit should be fully charged prior to doing any troubleshooting and must be done by an adult ONLY.

Problem	Possible Cause	Solution
Does not work out of the box	Unit must be traveling up to 3 mph/5 kmh before motor will engage	Kick start to 3 mph/5 kmh while twisting throttle to engage motor.
	Loose connection(s)	Check for loose connections/wires underneath the deck plate.
No longer works	Loose connection(s)	Check for loose connections/wires underneath the deck plate. Check power to wall outlet and/or try a different outlet.
	Charger not working	Check lights on charger: Plugged into wall - Green Plugged into wall & unit - Red (charging) Plugged into wall & unit - Green (charging complete) No lights/Blinking lights - Replace Charger With no weight on the unit, carefully lift up the back end; manually (and carefully, of course) spin rear wheel and apply throttle to engage the motor. If motor engages - Replace Battery.
	Tripped reset button	The reset button will trip if the motor is overloaded. An excessive overload may be caused, for example, by too heavy a rider, too steep a hill, etc. Wait a few seconds then press reset button. Correct riding conditions to prevent overload.
	Battery will not hold a charge	If motor does not engage, but makes a clicking sound - Replace Battery. If motor does not engage, no clicking sound - Replace Control Module.
Short run time/runs slow	Rider weight	Do not exceed 120 lb (54 kg) maximum weight limit.
	Riding conditions	Use only on flat, dry surfaces. Avoid inclines and areas with heavy debris.
	Battery not fully charged	Charge unit for a full 12 hours.
	Old/damaged battery	With no weight on the unit, carefully lift up the back end; manually (and carefully, of course) spin rear wheel and apply throttle to engage the motor. If motor engages - Replace Battery. Charge battery periodically when not in use.
	Tire is not properly inflated	Tire will lose some pressure over time. Verify correct tire pressure.
	Improper battery maintenance	Do not store unit in freezing or below freezing temperatures. Freezing will permanently damage the battery and greatly reduce ride time. Refer to Charging the Battery
	Brake dragging	Refer to adjusting the brake.
Runs intermittently	Loose connection(s)	Check the wires around the throttle and connectors underneath the deck plate. Replace - twist grip throttle.

ELECTRIC SCOOTER PARTS

Keep your scooter running for years with genuine Razor parts.

- | | | |
|---|--------------------------|--------------------------------|
| 1. Handlebar grip (right/left) | 9. Front fork | 17. Motor (24V/100W) |
| 2. Single speed twist grip throttle
2-1 Sleeve | 10. Front wheel complete | 18. Rear wheel complete |
| 3. Handlebar stem | 11. Battery tray | 19. Chain Tensioner |
| 4. Brake lever assembly | 12. Control module | 20. Chain |
| 5. Collar clamp | 13. On/Off switch | 21. Chain Guard |
| 6. Headset (upper/lower) | 14. Charger port | 22. Battery 24V (2 12V)/4.5 Ah |
| 7. Limiter | 15. Reset button | 23. Deck Plate |
| 8. Front caliper brake with brake pads | 16. Kickstand | |

