



**E100**  
**SERIES**



**⚠ NOTE:** The E100/E125/E150/E175 must be traveling up to 3 mph before motor will engage. Kick start up to 3 mph while applying the throttle to engage motor.

## **OWNER'S MANUAL**

**Read and understand this entire manual before riding!**  
**DO NOT RETURN TO STORE!**

**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 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 lbs (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 before the motor will engage.**

The normal powered top speed of this scooter will be approximately 10 mph (16 kph), 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 drivetrain, chain while the motor is running.

Never use headphones or a cell phone 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), never ride barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system.

## 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.

Do not exceed charging time.

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 foam 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

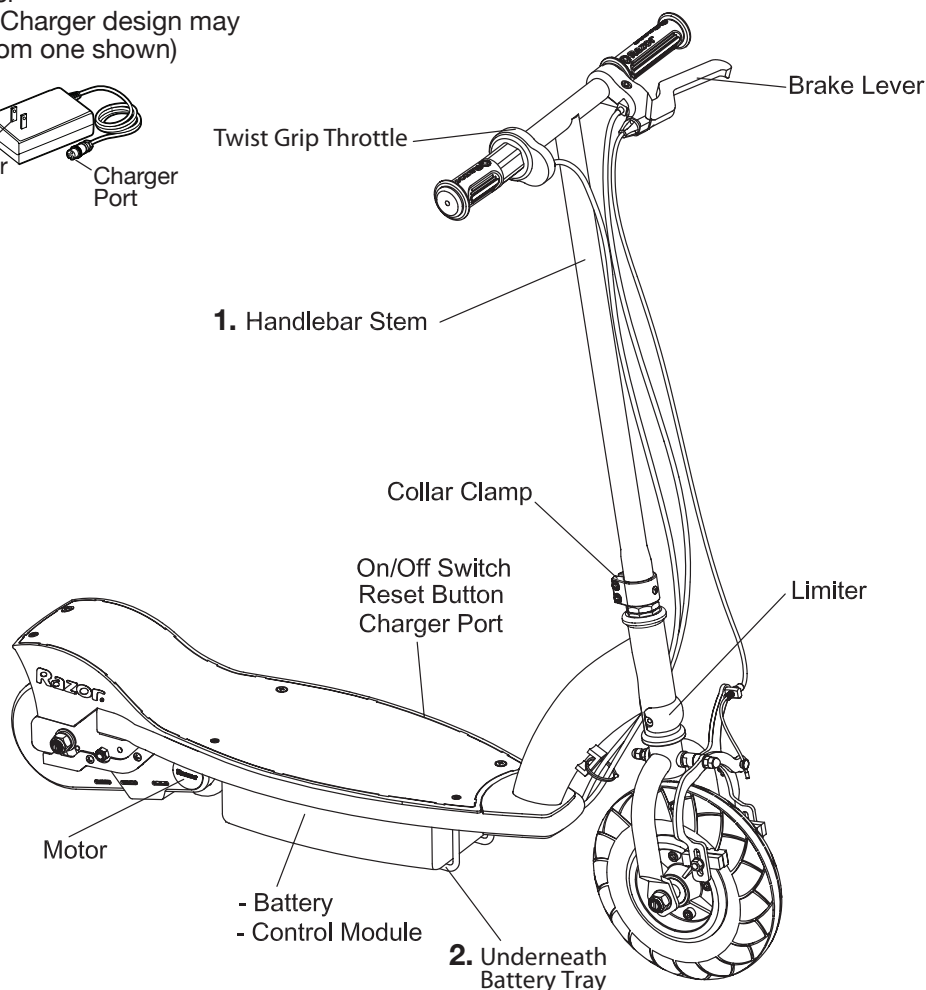
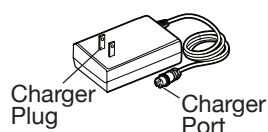
Razor recommends assembly by an adult with experience in bicycle mechanics.

Allow up to 10 minutes for assembly, not including initial charge time.

Allow up to 12 hours for charge (**see page 3 for charging information**)

#### 3. Charger

(Note: Charger design may vary from one shown)



**⚠ WARNING:**  
DO NOT USE NON-RAZOR PARTS 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 parts may not be compatible and will void the warranty.

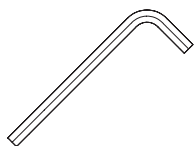
**Note:** Electric scooter must be moving at 3 mph/4.8 kph while applying the throttle to engage motor.

#### Product ID Locations:

See locations to the left

1. Handlebar Stem
2. Underneath Battery Tray
3. Charger
4. Box - Side of UPC (not shown)

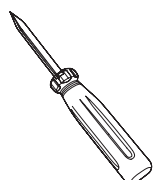
### Required Tools



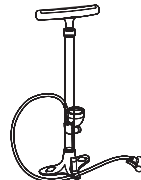
5mm Allen Wrench  
(Included)  
3 mm Allen Wrench  
(Not Included)



8mm/10 mm/13 mm and  
16 mm Open Wrenches  
(Not Included)



Phillips  
Screwdriver  
(Not Included)



Bicycle-style tire pump for  
Schrader-type valve tires  
with pressure gauge  
(Not Included)

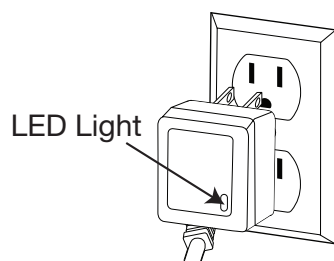
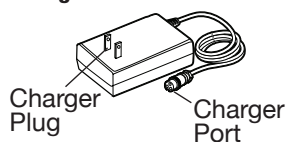
## CHARGING BATTERY

### □ Charging the Battery

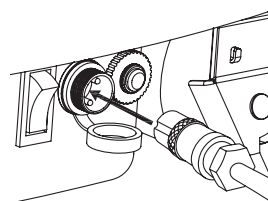
Charge the battery prior to use.

- 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 scooter 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, climate and/or proper maintenance.
- Constant stopping and starting may shorten ride time.
- Average battery life for a properly maintained unit is approx. 250 charge/discharge cycles.

#### Charger



**1** Plug the charger into a wall outlet. If the lights on charger do not light up, check the power to the outlet. If necessary, try a different outlet.



**2** Turn scooter power switch **OFF** before charging. Plug the charger into the charger port on the electric scooter.

### ⚠ WARNING:

Rechargeable batteries are only to be charged under adult supervision. Always disconnect your scooter from the charger before cleaning with damp cloth.

**Note:** If your charger does not look like the one illustrated, your unit has been supplied with an alternative charger. The specifications and charging procedure would not change.

The charger has a small window with one LED to indicate the charge status. Refer to the illustration on the charger unit for the actual "charging" and "charged" status indications for your model charger.

Chargers have built-in over-charge protection to prevent battery from being over-charged.

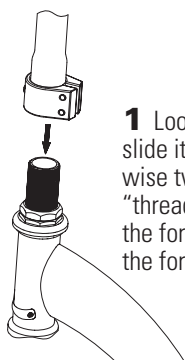
Charger may get warm during use. This is normal for some chargers and is no cause for concern. If your charger does not get warm during use, it does not mean that it is not working properly.

⚠ **WARNING:** Battery charge can deplete over time. Periodically recharge battery when not in use.

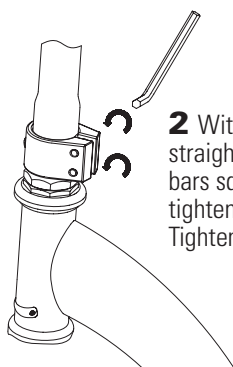
## ASSEMBLY AND SET-UP

### □ Attaching the Handlebars

Tools required: 5 mm Allen Wrench



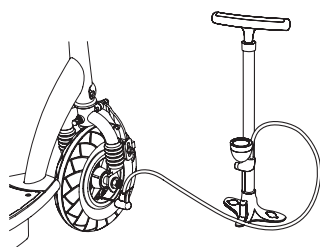
**1** Loosen the collar clamp and slide it upward. With a clockwise twisting motion, push and "thread" the steering tube onto the fork until it bottoms out on the fork headset lock nut.



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

### □ 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:** 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.

**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.

## 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.



### 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 wall and wreck, bend or break a frame. Get into the habit of inspecting your scooter on a regular basis.



### Tires

Periodically inspect the tires for excess wear and regularly check the front tire pressure. Re-inflate as necessary.



### Hardware

Check all parts such as nuts, bolts, cables, fasteners, etc. to ensure they are secure and assembled correctly. If the unit is damaged do not ride. Reference "Safety Warnings" on page 1 of this manual.



### Laws and Regulations

Always check and obey any local laws or regulations.



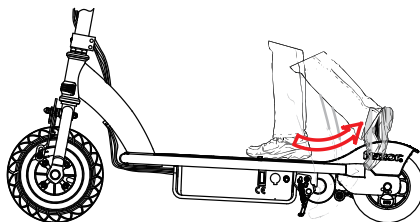
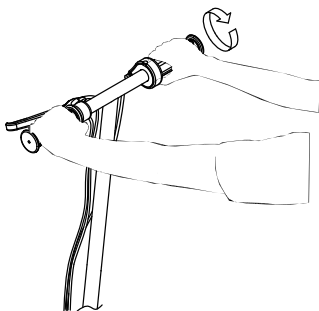
### Insurance

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

## USAGE

### Starting the Scooter

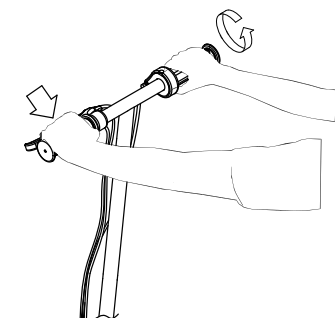
To start unit, turn on power switch; place both hands on handlebars and kick start the unit using one foot to push scooter forward while applying the throttle with right hand. The scooter must accelerate to 3mph/5kph for motor to engage.



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

### Stopping the Scooter

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.

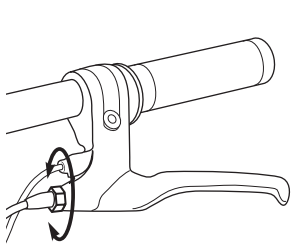


# REPAIR AND MAINTENANCE

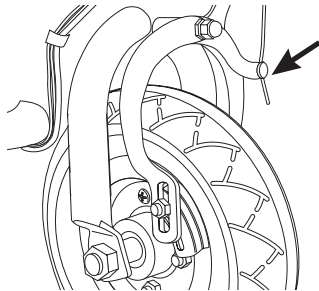
Turn power switch "OFF" before conducting any maintenance procedures.

## □ Adjusting the Brakes

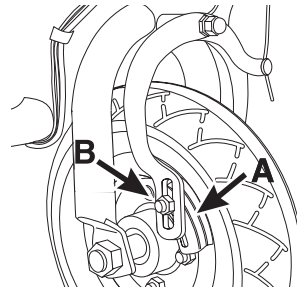
**Tools required:** 10 mm open wrench



**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.



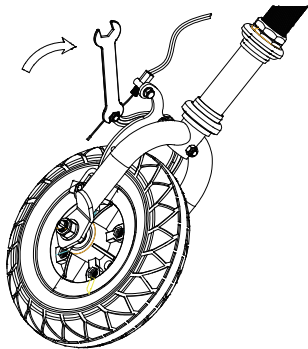
**2** If brake is too tight or has too much slack, use a 10 mm open wrench to loosen the brake cable and adjust accordingly.



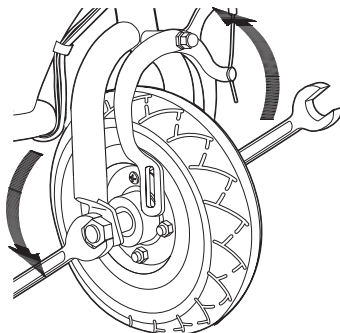
**3** Inspect the brake pads (A) for proper alignment against the wheel or excess wear. To realign brake pads, loosen the fixing nut (B) and adjust the pad to contact the rim. Retighten and readjust as needed. Verify proper brake function prior to riding the scooter.

## □ Front Wheel Replacement

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



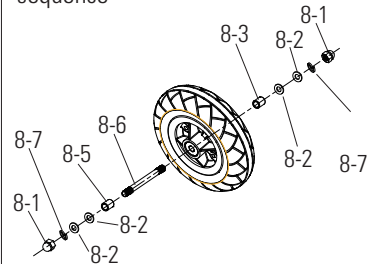
**1** Using a 10 mm open wrench loosen the brake cable bolt.



**2** Using two 16 mm open wrenches, loosen the locknuts by turning the wrenches counter clockwise. Remove wheel and install replacement wheel. Reference front wheel hardware sequence on this page.

**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

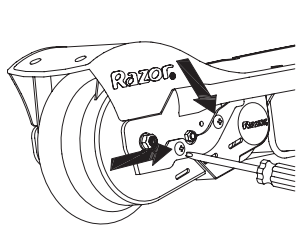
8-2 Washer

8-7 Spring Washer

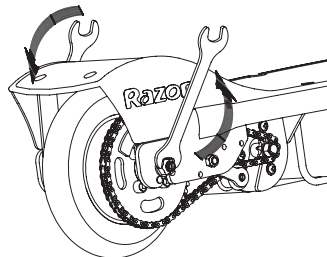
8-1 16 mm locknut

## □ Chain and Rear Wheel Replacement

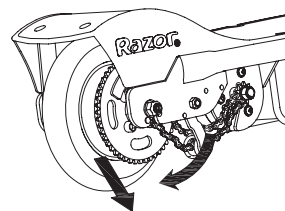
**Tools required:** Phillips screwdriver and two (2) 13 mm open wrenches.



**1** With a Phillips screwdriver, loosen the two screws and remove the chain guard.

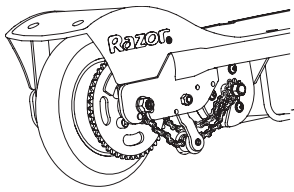


**2** Using two 13 mm open wrenches, loosen the locknuts by turning the wrenches counter clockwise. Reference rear wheel hardware sequence (page 6).

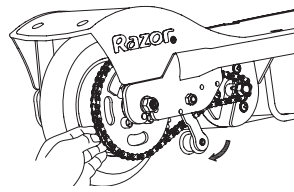


**3** To loosen the chain, pushing the tensioner down to create some slack in the chain.

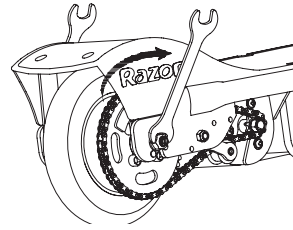
## REPAIR AND MAINTENANCE



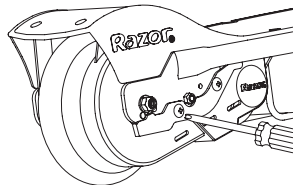
**4** Remove wheel and install replacement wheel. (Note the sequence of the hardware)



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



**6** With two 13 mm open wrenches, re-tighten the locknuts.



**7** Re-attach the chain guard.

## REPAIR AND MAINTENANCE

### ❑ Battery Care and Disposal

Do not store in freezing or below freezing temperatures. To properly maintain your battery and ensure maximum battery life, carefully read the "Charging the Battery" section on page 3 of this owner's manual.



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

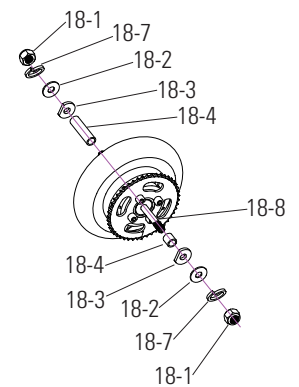
The charger supplied with the electric scooter should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, the product must not be charged until it has been repaired or replaced.

Use **ONLY** the charger supplied with this product or a replacement specified by Razor.

### ❑ 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 to 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 any contact with 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.**

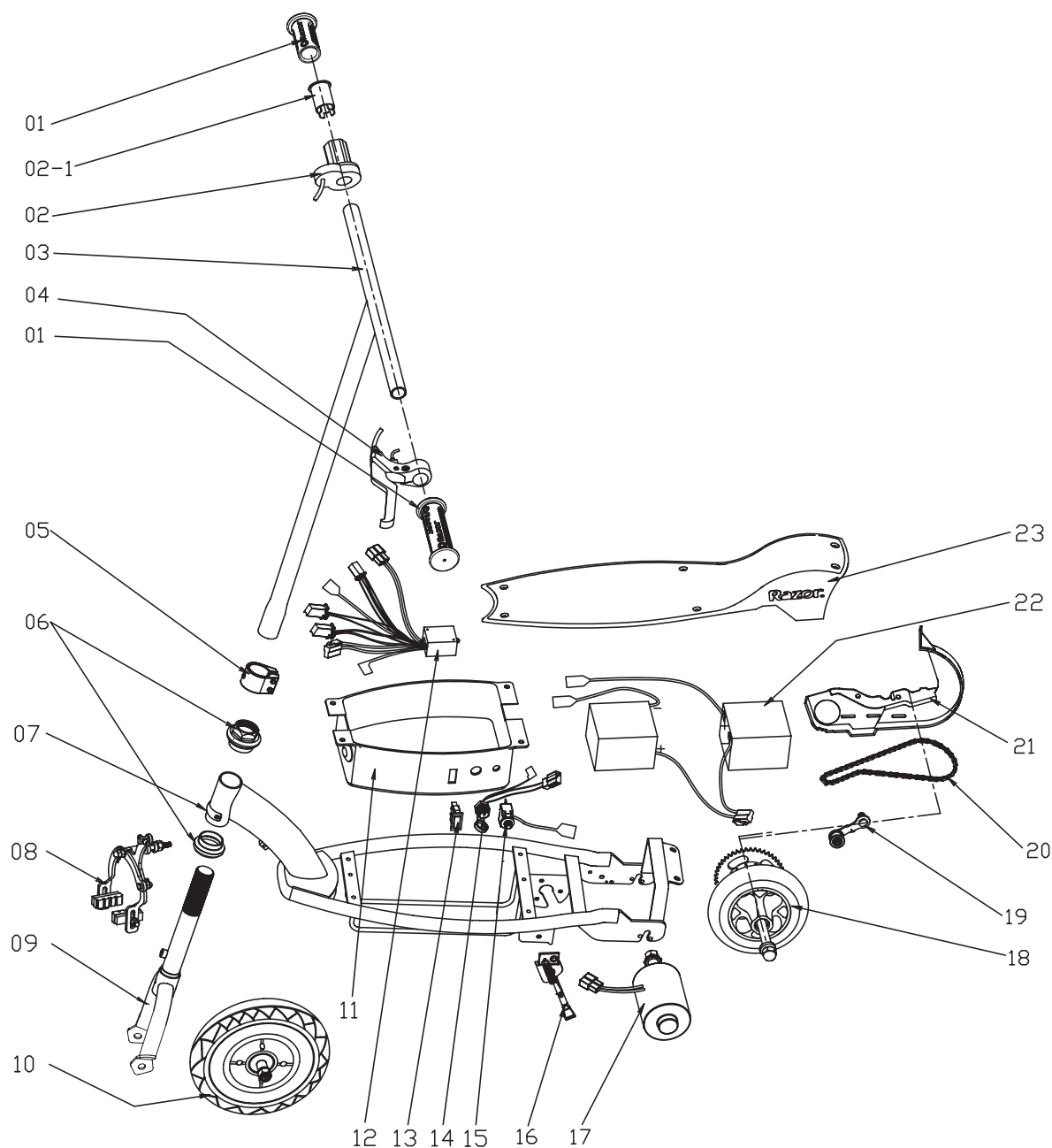
# TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
Does Not Work Out Of The Box	Unit must be traveling up to 3 mph before motor will engage	Kickstart to 3 mph while applying the 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 Charging Complete = Green 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 & On/Off Switch
Short Ride Time/Runs Slow	Riders weight	Do not exceed 120 lbs 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 hrs
	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 Pg. 3 Charging the Battery
	Brake dragging	Refer to adjusting the brake on page 5
Runs Intermittently	Loose connection(s)	Check the wires around the throttle and connectors underneath the deck plate
		Replace - Twist Grip Throttle



# E100/E125/E150/E175 PARTS

- |  |  |   |
|--|--|---|
| 01 Handlebar grip (right/left)                     | 10 Front wheel complete<br>(See pg. 5 for hardware sequence) | 18 Rear wheel complete<br>(See pg. 6 for hardware sequence) |
| 02 Single speed twist grip throttle<br>02-1 Sleeve | 11 Battery tray  | 19 Chain Tensioner  |
| 03 Handlebar stem                                  | 12 Control module  | 20 Chain  |
| 04 Brake lever assembly                            | 13 On/Off switch   | 21 Chain Guard  |
| 05 Collar clamp                                    | 14 Charger port  | 22 Battery (2) 24V/4.5 Ah                                   |
| 06 Headset (upper/lower)                           | 15 Reset button  | 23 Deck Plate   |
| 07 Limiter   | 16 Kickstand   |   |
| 08 Front caliper brake with brake pads             | 17 Motor (24V/100W)  |   |
| 09 Front fork                                      |  |   |



## **SB 1918 (CALIFORNIA) DECLARATION**

**YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THIS SCOOTER/ELECTRIC RIDE-ON PRODUCT. TO DETERMINE IF COVERAGE IS PROVIDED, YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT.**

## **WARRANTY**

### **Razor Limited Warranty**

The manufacturer warrants this product to be free of manufacturing defects for a period of 90 days from date of purchase. This Limited Warranty does not cover normal wear and tear, tires, tubes or cables, or any damage, failure or loss caused by improper assembly, maintenance, storage or use of the Razor E100, E125, E150, E175.

This Limited Warranty will be void if the product is ever

- used in a manner other than for recreation or transportation
- modified in any way;
- rented.

The manufacturer is not liable for incidental or consequential loss or damage due directly or indirectly to the use of this product.

Razor does not offer an extended warranty. If you have purchased an extended warranty, it must be honored by the store at which it was purchased.

For your records, save your original sales receipt with this manual and write the serial number below.