



E90/ACCELERATOR SERIES ELECTRIC SCOOTER



⚠ 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! For assistance contact Razor. 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.

Please have your 19 character product I.D. code ready before contacting Razor for warranty assistance and/or replacement parts.

Product I.D. Code: _____ - _____ - _____

CONTENTS

Safety Warnings	1	Usage	4
Before You Begin.....	2	Repair and Maintenance.....	5-6
Assembly and Set-Up.....	3	Troubleshooting Guide	7
Charging the Battery.....	3	E90/Accelerator Electric Scooter Parts.....	8
Pre-Ride Checklist.....	4	Warranty	11

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 the wheels are free of flat spots from wear. 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. Only use where allowed and with caution.

Do not activate the push button control 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

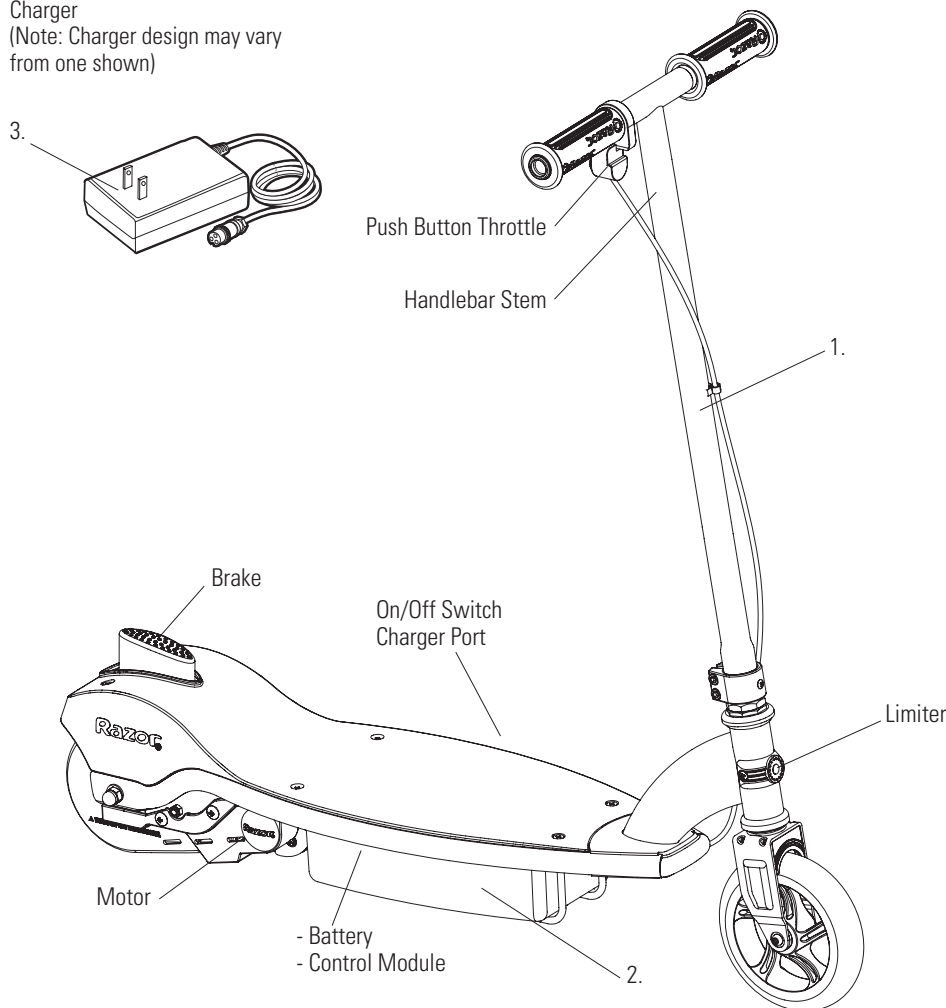
Razor recommends assembly by an adult.

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).

Charger

(Note: Charger design may vary from one shown)



⚠ 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.

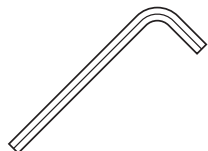
Note: Electric scooter must be moving at 3 mph/5 kmh while pressing the push button throttle to engage motor.

Product ID Locations:

See locations to the left

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

Required Tools



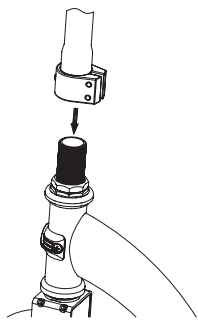
5 mm Allen wrench
(Included)

Need Help? Visit our web site for replacement parts and product support at www.razor.com or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time. Please have the product I.D. code (located on the bottom of the frame) available for better assistance.

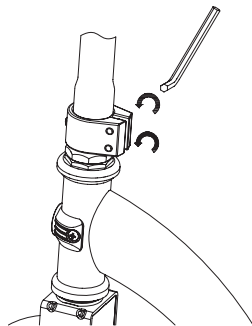
ASSEMBLY AND SET-UP

□ 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 into 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 with a 5 mm Allen wrench. Tighten securely.

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

CHARGING THE BATTERY

□ 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.

⚠ 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.

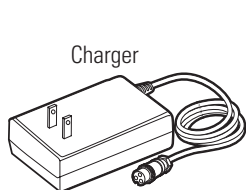
Chargers have built-in overcharge protection to prevent battery from being overcharged.

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.

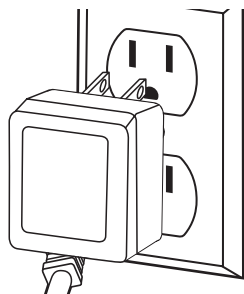
Wall outlet - Green
Wall outlet and Unit - Red (charging)
Charging complete - Green

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

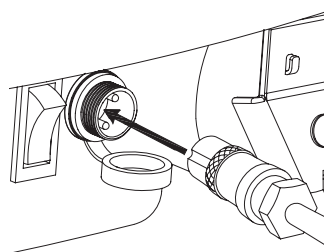
⚠ WARNING: Failure to recharge the battery at least once a month may result in a battery that will no longer accept a charge.



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

PRE-RIDE CHECKLIST



Brake

Check the brakes for proper function. When you step on the brake, the brake should provide positive braking action. When you apply the brake with the throttle on/engaged, the brake cut-off switch should cut power to the motor.



Wheels

Periodically inspect the wheels for excessive wear.



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 and 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. Reference "Safety Warnings" on page 1 of this manual.



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.



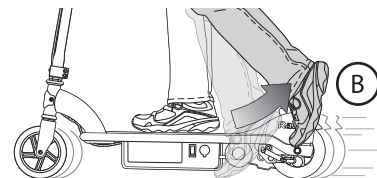
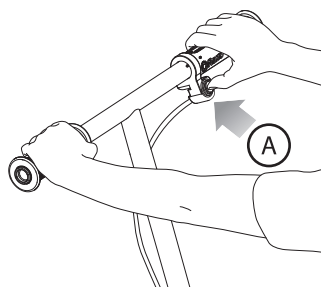
Insurance

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

USAGE

Starting the Scooter

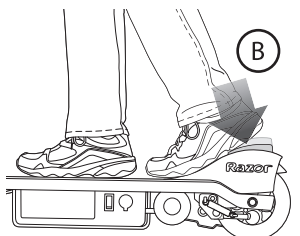
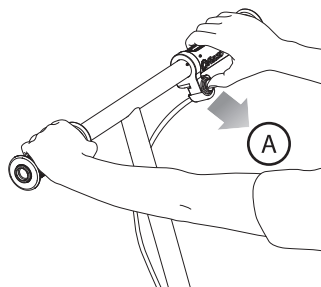
To start unit, turn on the power switch, press the push button throttle (A) and kick start up to 3mph (5kmh) (B).



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

Stopping the Scooter

To stop unit, release the push button throttle (A) and step down on the rear fender brake with one foot (B) until the unit comes to a complete stop.

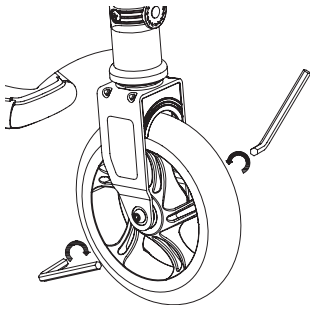


Need Help? Visit our web site for replacement parts and product support at www.razor.com or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time. Please have the product I.D. code (located on the bottom of the frame) available for better assistance.

REPAIR AND MAINTENANCE

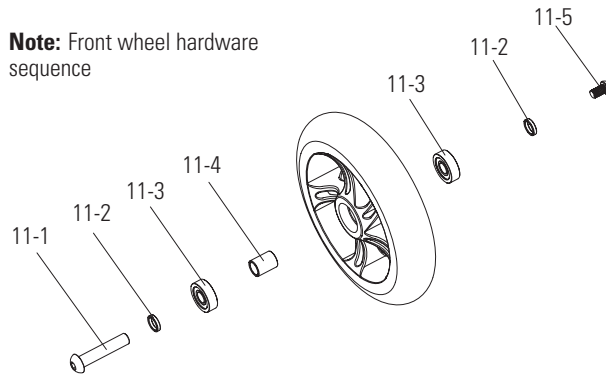
□ Front Wheel Replacement

Tools required: Two (2) 5 mm Allen wrenches.



1 Using two (2) 5 mm Allen wrenches, loosen the axle bolt. Remove wheel and install replacement wheel. (Note the sequence of the hardware)

Note: Front wheel hardware sequence



Right Side

11-4 - Center spacer
11-3 - Bearing
11-2 - Spacer

Fork

11-1 - 5 mm coupling bolt

Left Side

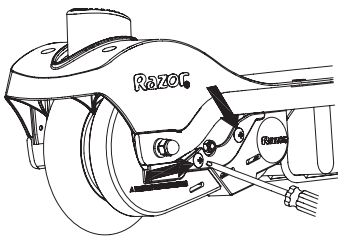
11-3 - Bearing
11-2 - Spacer

Fork

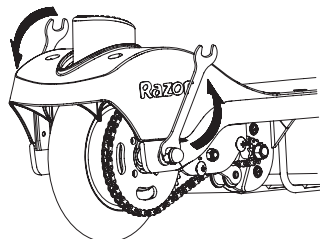
11-5 - 5 mm coupling bolt

□ Chain and Rear Wheel Replacement

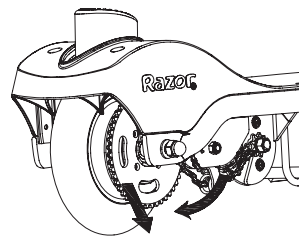
Tools required: Phillips screwdriver and two (2) 13 mm wrenches.



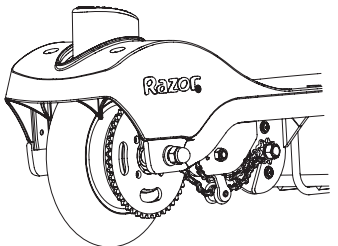
1 With a Phillips screwdriver, loosen the two (2) screws and remove the chain guard.



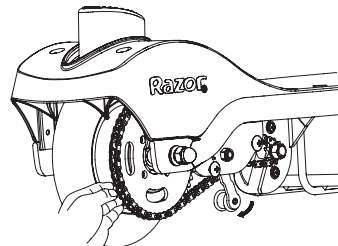
2 Using two (2) 13 mm wrenches, loosen the locknuts by turning the wrenches counter clockwise.



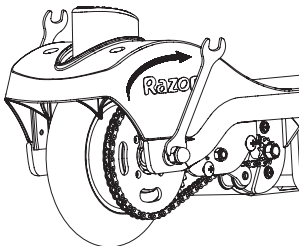
3 To loosen the chain, push the chain tensioner down to create some slack in the chain.



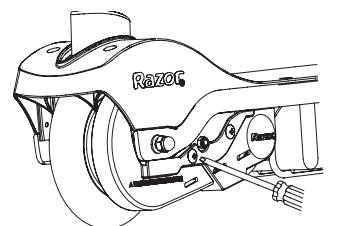
4 Remove wheel and install replacement wheel. (Note the sequence of the hardware.)



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

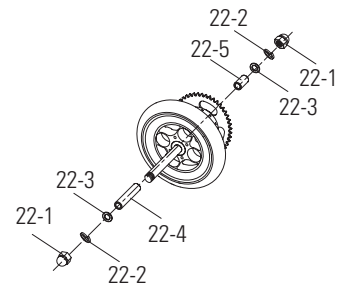


6 With two 13 mm wrenches, retighten the locknuts.



7 Reattach the chain guard.

Note: Rear wheel hardware sequence



Left Side

22-1 13 mm nut
22-2 Split washer
22-3 Flat washer

Frame

22-4 Long spacer

Right Side

22-1 13 mm nut
22-2 Split washer
22-3 Flat washer

Frame

22-5 Short spacer

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 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.

❑ Replacement Parts

The most frequently requested replacement parts are available for purchase at some Razor retail partners. For the complete selection of replacement parts visit shop.razor.com.

❑ Repair Centers

For a list of authorized Razor repair centers:

- Check online at www.razor.com.
- Call 866-467-2967 for the center nearest you.

⚠ 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.**

Need Help? Visit our web site for replacement parts and product support at www.razor.com or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time. Please have the product I.D. code (located on the bottom of the frame) available for better assistance.

TROUBLESHOOTING GUIDE

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

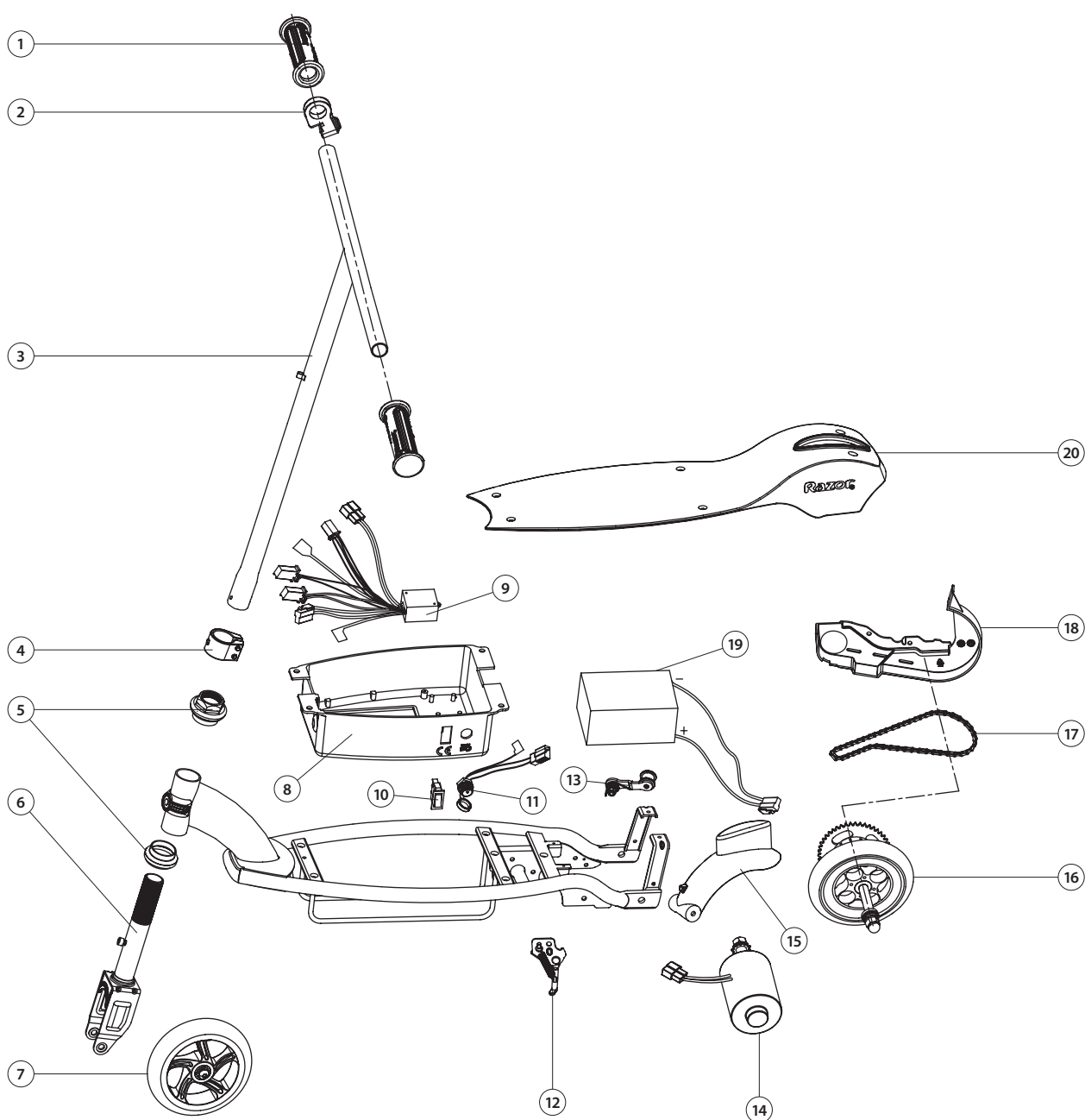
Problem	Possible Cause	Solution
Does not work out of the box	Unit must be traveling up to 3 mph before motor will engage	Kick start to 3 mph while pressing the push button throttle to engage motor.
	Loose connection(s)	Check for loose connections/wires underneath the deck plate.
No longer works	Blown fuse	Check fuse; replace if needed.
	Loose connection(s)	Check for loose connections/wires underneath the deck plate.
	No lights on charger	Check power to wall outlet and/or try a different outlet.
	Undercharged battery	Check lights on charger: Plugged into wall = Green Plugged into wall & unit = Red (charging) Charging Complete = Green No lights/Blinking lights - Replace Charger
	Battery will not hold a charge	With no weight on the unit, lift up back end; manually (and carefully) spin rear wheel and press push button throttle to engage the motor. If motor engages - replace battery.
Short run time/runs slow	Riders 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	Replace battery.
		Charge battery at least once a month when not in use. Do not store unit in freezing or below freezing temperatures. Freezing will permanently damage the battery and greatly reduce ride time. Refer to page 3 for charging information.
Runs intermittently	Loose connection(s)	Check the wires around the throttle and connectors underneath the deck plate.
		Replace - push button throttle.

For more troubleshooting tips, a list of available replacement parts or to locate an authorized Service Center in your area, visit our website at www.razor.com or call toll free 866-467-2967 to speak to a live Customer Service Representative

E90/ACCELERATOR ELECTRIC SCOOTER PARTS

Keep your scooter running for years with genuine Razor parts. Visit our website or e-mail us for more information on spare part availability. (Specifications subject to change without notice.)

1. Handlebar grips (right/left)
2. Push button throttle
3. Handlebar Stem
4. Collar clamp
5. Headset (upper/lower)
6. Front fork w/limiter
7. Front wheel complete (See pg. 5 for hardware sequence)
8. Battery tray
9. Control module
10. On/off switch
11. Charger port
12. Kickstand
13. Chain tensioner
14. Motor (12V/100W)
15. Rear fender brake
16. Rear wheel complete (See pg. 5 for hardware sequence)
17. Chain
18. Chain guard
19. Battery (1-12V/7Ah) w/fuse
20. Deck plate



Need Help? Visit our web site for replacement parts and product support at www.razor.com or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time. Please have the product I.D. code (located on the bottom of the frame) available for better assistance.

NOTICE: INSURANCE

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.

FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

⚠ WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance, could void the user's authority to operate the equipment.

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 or cables, or any damage, failure or loss caused by improper assembly, maintenance, or storage or use of the Razor E90/Accelerator series electric scooter.

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.

Need Help? Visit our web site for replacement parts and product support at **www.razor.com** or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time. Please have the product I.D. code (located on the bottom of the frame) available for better assistance.

Printed in China for:
Razor USA LLC
PO Box 3610
Cerritos, CA 90703

Copyright © 2003-2014 Razor USA LLC. All rights reserved. RAZOR and the Razor Logo Design are among the registered trademarks of Razor USA LLC in the United States and/or select foreign countries. The E90 logo design is a registered trademark of Razor USA LLC.