DUNE BUGGY

OWNER'S MANUAL

⚠ Read and understand this entire manual <u>BEFORE</u> riding!

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

For assistance contact Razor. DO NOT RETURN TO STORE.

Version 3_8/10

Item Number:
25143511

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SAFETY WARNINGS

WARNING: Riding an electric product can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. Like other electric products, the Dune Buggy can and is intended to move, and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur you can be seriously injured or die, even when using safety equipment and other precautions. RIDE AT YOUR OWN RISK AND USE COMMON SENSE.

This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use your electric product. Because any incident can result in serious injury or even death, we do not repeat the warning of possible serious injury or death each time such a possibility is mentioned.

APPROPRIATE RIDER USE AND PARENTAL SUPERVISION

This manual contains important safety information. It is your responsibility to review this information and make sure that all riders understand all warnings, cautions, instructions and safety topics and assure that young riders are able to safely and responsibly use this product. Razor USA recommends that you periodically review and reinforce the information in this manual with younger riders, and that you inspect and maintain your children's product to insure their safety.

The recommended rider age of 8 years is only an estimate, and can be affected by the rider's size, weight or skills. Any rider unable to fit comfortably on the Dune Buggy 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 this product is intended for use only by persons who are, at a minimum, completely comfortable and competent while operating the product.

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

Do not touch the brakes or electric motor on your electric product when in use as they can become very hot.

Refer to the following section on safety for additional warnings.

ACCEPTABLE RIDING PRACTICES AND CONDITIONS

Always check and obey any local laws or regulations which may affect the locations where the Dune Buggy may be used.
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 Dune Buggy is meant to be used on private property and on closed courses and not on public streets or sidewalks. Do not ride your electric product in any areas where pedestrian or vehicle traffic is present.

Do not activate the throttle unless you are on the product and in a safe, outdoor environment suitable for riding.

This product was manufactured for performance and durability but is not impervious to damage. Jumping or other aggressive riding can over-stress and damage any product, including the Dune Buggy, and the rider assumes all risks associated with high-stress activity.

Be careful and know your limitations. Risk of injury increases as the degree of riding difficulty increases. The rider assumes all risk associated with aggressive riding activities.

Maintain a hold on the steering wheel at all times.

Never carry passengers or allow more than one person at a time to ride the electric product.

Never use near steps or swimming pools.

Keep your fingers and other body parts away from the drive chain, steering system, wheels and all other moving components.

Never use headphones or a cell phone when riding.

Never hitch a ride with another vehicle.

Do not ride the Dune Buggy in wet or icy weather and never immerse the electric product in water, as the electrical and drive components could get damaged by water or possibly create other unsafe conditions.

Wet, slick, bumpy, uneven or rough surfaces may increase risks. Do not ride the electric product in mud, ice, puddles or water. Avoid excessive speeds that can be associated with downhill rides. Never risk damaging surfaces such as carpet or flooring by use of an electric product indoors.

Do not ride at night or when visibility is limited.

PROPER RIDING ATTIRE

Always wear proper protective equipment such as an approved safety helmet (with chin strap securely buckled). A helmet may be legally required by local law or regulation in your area. Elbow pads and kneepads, a long-sleeved shirt, long pants and gloves are recommended. Always wear athletic shoes (lace-up shoes with rubber soles), never drive 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 product 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 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 liquid.

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.

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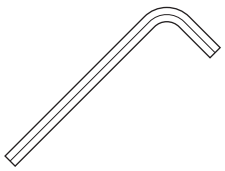
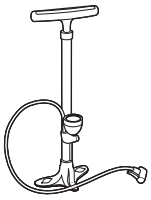
BEFORE YOU BEGIN

❑ Required Tools

Some tools may be supplied; however, we recommend the use of mechanic's grade tools. Use the supplied tools only as a last resort.



2.5mm hexagonal wrench (included)



Bicycle-style tire pump for Schrader valve tires, with pressure gauge (NOT included)

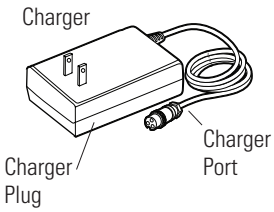
⚠ WARNING:
DO NOT USE NON-RAZOR PARTS WITH YOUR RAZOR DUNE BUGGY.
The Dune Buggy has been built to certain Razor design specifications. The original equipment supplied at the time of sale was selected on the basis of its compatibility with the frame, fork and all other parts. Certain aftermarket components may not be compatible.

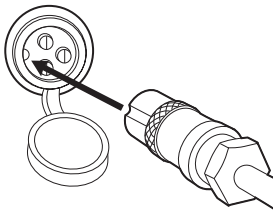
ASSEMBLY AND SET-UP

❑ Charging the Battery

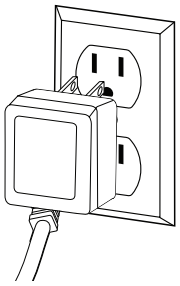
Your Dune Buggy may not have a fully charged battery; therefore you must charge the battery prior to use.

- Initial charge time: 18 hours
- Recharge time: up to 12 hours
- Fully charge once a month when not in use
- Run time: up to 40 minutes
- Average battery life: 250 charge/discharge cycles
- Do not store below 32 degrees - this can damage the battery.





1 Plug the charger into the port on the Dune Buggy. Make sure the power switch is in the "off" position.



2 Plug the charger plug into wall outlet.

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 work properly.

⚠ WARNING: The lap belt arrangement supplied with the Dune Buggy is for "play" use only. It is not an ASTM-approved safety belt system and is not intended to function as an approved lap/shoulder/seat restraining device.

⚠ WARNING: Batteries are only to be charged under adult supervision. Always disconnect your Dune Buggy from the charger before cleaning with liquid.

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 or two LEDs 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.

Be sure to properly align the groove on the charger input plug with the corresponding socket on the case; otherwise, no charging action will occur.

Need Help? Visit our web site for replacement parts, product support and a list of authorized service centers at **www.razor.com** or call toll-free at 866-467-2967 Monday - Friday 8:00 AM - 5:00 PM Pacific Time.

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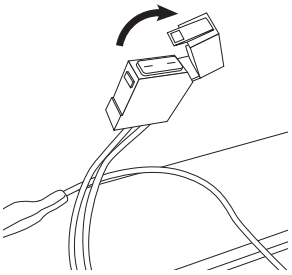
REPAIR AND MAINTENANCE

Turn power switch off before conducting any maintenance procedures.

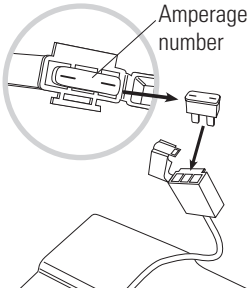
❑ Replacing the Fuse

TURN POWER OFF

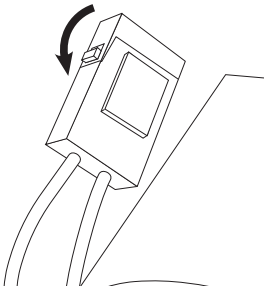
1 Make sure the power switch is turned off.



2 Open fuse box located on the battery.



3 Remove fuse and replace with a new one of equal amperage.
Note: Amperage is located on top of fuse. Fuse must be replaced with one of equal amperage.

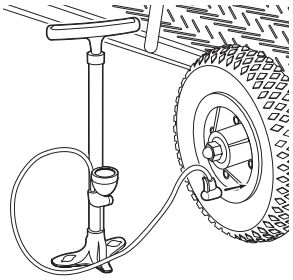


4 Close the fuse box.

⚠ WARNING: To prevent shock make sure power is in the "off" position and charger is not plugged into unit while conducting any maintenance procedures.

❑ Inflating the Tires

Tires are inflated when shipped, but they invariably lose some pressure between the point of manufacturing and purchase.



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

Note: The pressurized air supplies found at stations are designed to inflate high-volume automobile tires. If you decide to use such an air supply to inflate your Dune Buggy 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.

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REPAIR AND MAINTENANCE

❑ Battery Care and Disposal

Do not store the battery in temperatures above 75° or below -10° F.

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 transformer/charger supplied with the Dune Buggy should be regularly examined for damage to the cord, plug, enclosure and other parts, and, in the event of such damage, the bike must not be charged until it has been repaired or replaced.

Use ONLY with the recommended charger.

❑ Replacement Parts

The most frequently requested replacement parts (wheels, tires, tubes, batteries and chargers) are available for purchase at some Razor retail partners. For the complete selection of replacement parts visit www.razor.com/shop.

❑ 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.**

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
Product does not run.	Product is rolling backwards.	Throttle will not engage if the product is rolling backwards. Come to a complete stop and then activate the throttle.
	Undercharged battery.	Charge the battery. A new battery should have been charged for at least 18 hours before using the product for the first time and up to 12 hours after each subsequent use.
		Check all connectors. Make sure the charger connector is tightly plugged into the charging port, and that the charger is plugged into a functioning wall outlet.
	Charger is not working.	You may check to see if your charger is working by using a volt meter or asking your local Razor authorized service center to test your charger for you.
Product was running but suddenly stopped.	Loose wires or connectors.	Check all wires and connectors to make sure they are properly connected.
	Burned-out fuse.	The fuse will burn out and automatically shut off the power if the motor is overloaded.
		An excessive overload, such as too heavy a rider or too steep a hill, could cause the motor to overheat. Refer to page 3 - "replacing the fuse". Correct the conditions that caused the fuse to burn out and avoid repeatedly burning out fuse.
		Contact your local Razor authorized service center for diagnosis and repair. Contact Razor customer service or visit www.razor.com

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TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
Short run time.	Undercharged battery.	Charge the battery. A new battery should have been charged for at least 18 hours before using the product for the first time and up to12 hours after each subsequent use.
	Battery is old and will not accept full charge.	Even with proper care, a rechargeable battery does not last forever. Average battery life is 1 to 2 years depending on product use and conditions. Replace only with a Razor replacement battery.
Product runs sluggishly.	Driving conditions are too stressful.	Use only on solid, flat clean and dry surfaces such as pavement or level ground.
	Tires are not properly inflated.	Check tire pressure.
	Product is overloaded.	Make sure you do not overload the product by allowing more than one rider at one time, exceeding the maximum weight limit, going up too steep a hill or towing objects behind the product. If the product is overheated, the fuse may blow.
Sometimes the product doesn't run, but other times it does.	Loose wires or connectors.	Check all wires and connectors to make sure they are properly connected.
	Motor or electrical switch damage.	Contact your local Razor authorized service center for diagnosis and repair. Contact Razor customer service or visit www.razor.com
Product makes loud noises or grinding sounds.	Chain is too dry.	Apply a lubricant such as 3 in 1™ or Tri-Flow™ to the chain.

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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.

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DUNE BUGGY PARTS

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

01 Front wheel
02 Steering assembly
03 Footrest
04 Platform (left / right)
05 Steering wheel
06 Thumb tab throttle
07 Brake lever with cable
08 Shock absorber
09 Seat
10 Control module
11 Motor (24V/ 250W)
12 Battery (2-12V/7Ah) with 30 amp fuse
13 Rear wheel
14 Rear axle
15 Upper/ Lower clamp (rear axle)
16 Disc brake
17 Brake caliper
18 Rear axle sprocket
19 Chain (Motor)
20 Chain (rear axle)
21 Lower battery cover
22 Bottom battery cover bracket
23 Upper battery cover
24 Charger port with wires
25 On/ Off switch

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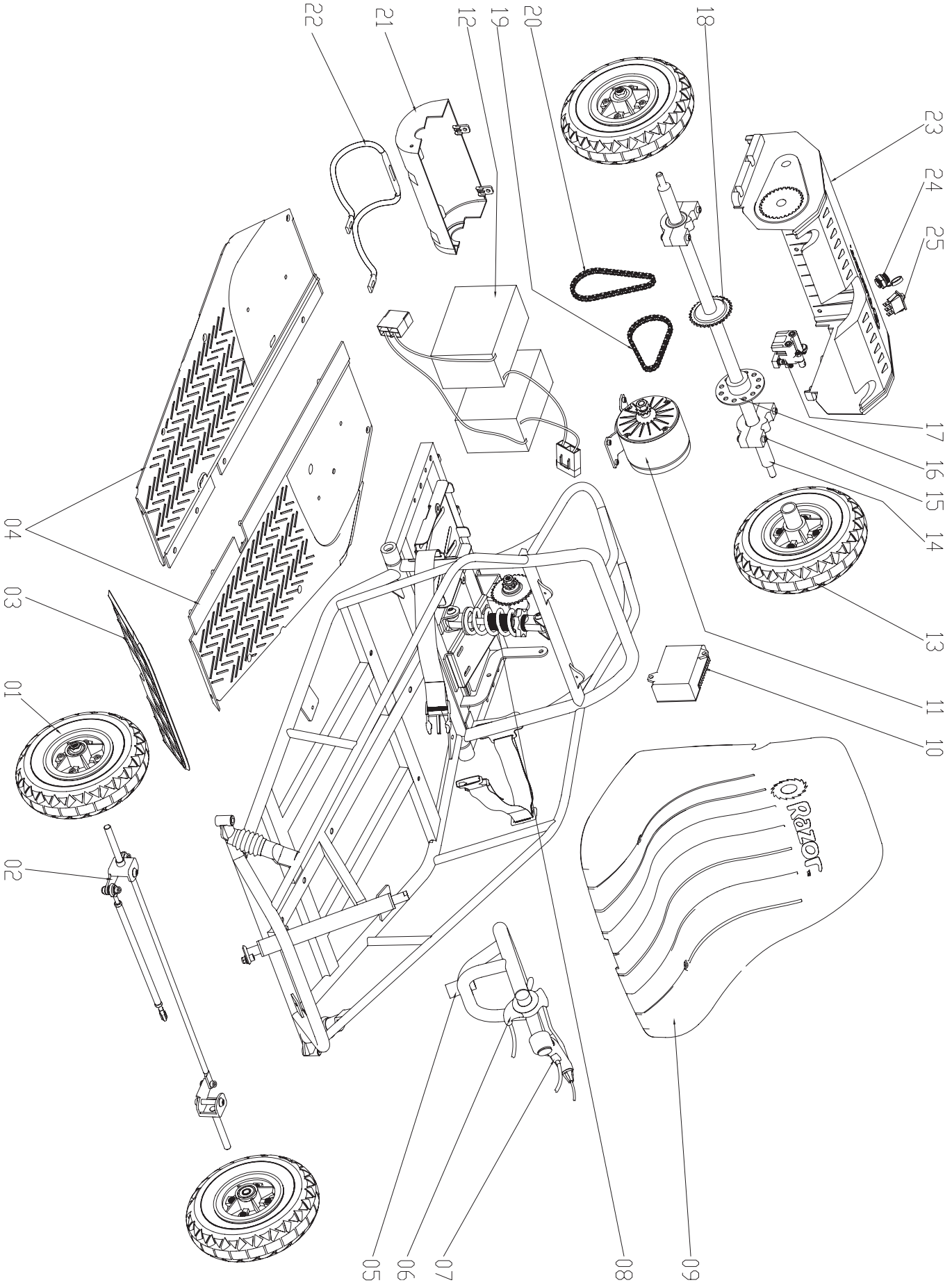

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SAFETY REMINDERS

PRE-RIDE CHECKLIST

Loose Parts
Check and secure all fasteners before every ride. There should not be any unusual rattles or sounds from loose parts or broken components. If you are not sure, ask an experienced mechanic to check.

Brake
Check the brake for proper function. When you squeeze the lever, the brake should provide positive braking action. When you apply the brake with the speed control on, the brake cut-off switch will stop the motor.

Frame, Fork and Steering Wheel
Check for cracks or broken connections. Although broken frames are rare, it is possible for an aggressive driver to bash into a curb or wall and wreck and bend or break a frame. Get in the habit of inspecting yours regularly.

Tire Inflation
Periodically inspect the tires for excess wear, and regularly check the tire pressure and re-inflate as necessary. If you get a flat tire, the inner tube can be patched or a new tube can be purchased from Razor or an authorized repair center.

Safety Gear
Always wear proper protective equipment such as an approved safety helmet. Elbow pads and kneepads are recommended. Always wear shoes (lace-up shoes with rubber soles), never drive barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system.

DO NOT RETURN TO STORE

Do not use this product for the first time until you have inflated the tires to the correct PSI and charged the battery for at least 18 hours.

Failure to follow these instructions may damage your product and void your warranty.

WARRANTY

Razor Limited Warranty
The manufacturer warranties 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, or storage or use of the Razor Dune Buggy.

This Limited Warranty will be void if the product is ever
- used in a manner other than for recreation;
- 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.

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