



BLUETOOTH' SOUND & LIGHTS SMART BALANCING ELECTRIC SCOOTER



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 product along with the 19 character product I.D. code with yo
before contacting Razor for warranty assistance and/or replacement parts.
Product I.D. Code:

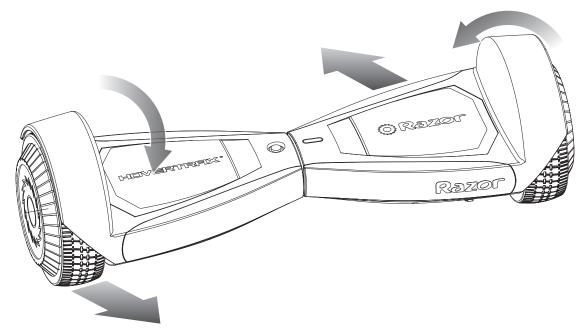
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INTRODUCTION

This manual will help you understand, set up and safely use the Razor® Sonic Glow™ Hovertrax™. It is important that you adhere to all safety warnings and cautions that appear throughout and that you use good judgment when riding, so keep reading!

A SPECIAL TECHNOLOGY, WITH NEW CONCEPTS FOR CONTROL AND SAFETY

As is obvious the first time you see it, the Razor Sonic Glow Hovertrax is <u>different</u> from things you may have ridden before. No handlebars. No front or rear wheel. No brake. The new Sonic Glow Hovertrax is such a product, and it <u>moves</u>, which means if you are interested in riding it you should be interested in learning how to do that properly — and if you are interested in minimizing the risk of falling off or being injured, you should be very interested in focusing on how to ride this product as safely as possible. Helping you do that is the goal of this manual and other warnings. **THIS SONIC GLOW HOVERTRAX, LIKE RAZOR'S OTHER EXISTING HOVERTRAX PRODUCTS MOVES AND YOU MUST UNDERSTAND AND FOLLOW THE INSTRUCTIONS IN ORDER TO MAXIMIZE YOUR FUN AND MINIMIZE RISKS OF INJURY PRESENTED BY RIDING THIS NEW MOVING PRODUCT.**



MOVEMENT OF THE RAZOR SONIC GLOW HOVERTRAX IS CONTROLLED BY THE ANGLE OF THE FOOT PLATFORMS, WHICH IS DETERMINED BY PRESSURE APPLIED BY THE RIDER'S FEET ON THE PLATFORMS.

Different? Well, yes, the Sonic Glow Hovertrax is "different." It is an electrically motorized, computerized, gyroscopically-balance-assisted, independently articulated, dual-platform two-wheeled personal mobility system. If that sounds unlike any bicycle, scooter, RipStik, roller skate or water ski you have ever used, you're on the right track.

However, the Razor Sonic Glow Hovertrax does not operate "magically", and it does not fly, float or disappear. Its movements are not controlled remotely, or by the rider's brainwaves or earnest good wishes, and it has neither a steering wheel, nor a brake, nor external stabilizers of any kind. Yet it can go, stop, turn and back up — and all of this is controlled solely by the rider's feet moving at angles relative to the ground. **THIS IS CRUCIAL TO RECOGNIZE AND TO REMEMBER AT ALL TIMES.** The angle of your feet — forward, level or rearward — on each foot platform is how Sonic Glow Hovertrax receives, processes and executes instructions from the rider. This will affect the operation of the Razor Sonic Glow Hovertrax far more than leaning or "shifting body weight" alone.

AWARNING: Read this manual – including both "Safety Warnings" (pages 2-3) and "How to Operate" (pages 7-11) and learn to ride safely!

SAFETY WARNINGS

AWARNING: Whenever you ride the Sonic Glow Hovertrax you risk serious injury or death from collisions, falls or loss of control. To ride safely, YOU MUST READ AND FOLLOW THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL.

⚠ WARNING: Riding any electric product can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. Like other electric ride-on products, the Razor Sonic Glow Hovertrax 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.

A WARNING: Failure to read and understand "How to Operate" section of this manual (pages 7-11) increases risk of injury due to falls or other incidents.

AWARNING: NOT FOR RIDERS UNDER AGE 8 OR HEAVIER THAN 176 LB (80 KG). DO NOT EXCEED THE WEIGHT LIMIT OF 176 lb (80 kg) – including backpacks and other items that might be carried. Exceeding the weight limit could injure the rider and damage the Razor Sonic Glow Hovertrax. Rider weight alone also does not necessarily mean a person's size is appropriate to fit or maintain control of the Razor Sonic Glow Hovertrax. 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.

Razor recommends that children under the age of 8 not be permitted to use this product. This recommendation is based not just on age or weight or height — it reflects consideration of expected maturity and skills as well as physical size. The recommended rider age of 8 years or older is only an estimate and can be affected by the rider's size, weight, or skills — not every rider 8 years old or older will be suited to the product. Certainly, any rider unable to fit comfortably on the Razor Sonic Glow Hovertrax should not attempt to ride it, but 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. Razor emphasizes that adults are strongly advised not to disregard Razor's recommendations or permit younger children to ride the Razor Sonic Glow Hovertrax.

Because products, like the Razor Sonic Glow Hovertrax, 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 RIDER, 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 rider, and recommendations are intended to reflect the nature of the hazards and the expected mental or physical ability, or both, of a rider to cope with the hazards.

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 a product's 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 this product.

CHECK AND MAINTAIN RAZOR SONIC GLOW HOVERTRAX

WARNING: Always inspect the Razor Sonic Glow Hovertrax prior to use. Properly inspecting and maintaining your product can reduce the risk of injury. Before use, check to confirm that any and all guards or covers are in place and in serviceable condition. Check that the parts are functioning properly, that the tires are not damaged or worn excessively. The Razor Sonic Glow Hovertrax 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. Replace worn or broken parts immediately.

Always check the battery charge before using the Razor Sonic Glow Hovertrax. Do not ride the Razor Sonic Glow Hovertrax when its battery is low, as indicated by a flashing red light and beeping. The Razor Sonic Glow Hovertrax may stop operating and cause you to fall. Use only Razor Sonic Glow Hovertrax charger.

A WARNING: Check local laws and regulations to see where and how you may use your Razor Sonic Glow Hovertrax legally. Follow all applicable laws for vehicles and pedestrians.

SAFETY GUIDELINES FOR CONTINUED USE: AN IMPORTANT MESSAGE TO ALL USERS

Periodically review this information and make sure that you understand all warnings, cautions, instructions and safety topics. Do not let others ride the Razor Sonic Glow Hovertrax until they have read this manual. Any type of wheeled activity can be hazardous. Wheels can, and are intended to move and it is therefore possible to get into dangerous situations and/or lose control and/or fall off. In such situations serious injury or death could occur.

Always be aware of the activity around you. Use the Razor Sonic Glow Hovertrax in areas free from fixed or moving hazards. Watch your surroundings for pedestrians, animals and riders of other wheeled devices.

AWARNING: Only use the Razor Sonic Glow Hovertrax indoors or on completely smooth surfaces. Avoid obstacles and slippery surfaces, which could result in a loss of balance or traction and cause a fall. See the section on Terrain for more guidelines.

AWARNING: Do not lift the Razor Sonic Glow Hovertrax off the ground when the product is turned on. Do not turn on the Razor Sonic Glow Hovertrax in mid-air. This will cause the wheels to spin freely which could result in injury to yourself or damage to things around you.

Ride defensively. Watch out for potential obstacles that could catch your wheel(s) 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.

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

Never use headphones or a cell phone when riding. Never hitch a ride with another product.

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

NOTICE: This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use your Razor Sonic Glow Hovertrax 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.

SAFETY WARNINGS

Wet, slick, bumpy, uneven or rough surfaces may increase risks. Do not ride this electric product in mud, ice, puddles or water. Avoid excessive speeds that can be associated with downhill rides. Never use near steps or swimming pools.

Do not ride at night or when visibility is limited.

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.

AWARNING: Never operate any moving product, including the Razor Sonic Glow Hovertrax, while under the influence of drugs or alcohol.

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, kneepads, wrist guards, 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 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 product when not in use.

Always disconnect from the charger prior to wiping down and cleaning your product 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.

PRE-RIDE CHECKLIST	
Wheels Practice riding only in wide open areas clear from curbs, parking blocks and other obstacles, including things you may fall on or into if you lose your balance. Impacting the wheels against any hard surface can damage the wheels. Wheels are not covered under your limited warranty.	Safety Gear Always wear proper protective gear, such as an approved safety helmet. Elbow pads, kneepads and wrist guards 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.
Hardware/Loose Parts Before every ride, check all parts, such as nuts, bolts, fasteners, etc., to ensure they are secure and assembled correctly. There should not be any unusual rattles or sounds	Laws and Regulations Always check and obey any local laws or regulations.
from loose parts or broken components. If the product is damaged, do not ride. Reference "Safety Warnings" on pages 2 and 3 of this manual.	Storage Prolonged exposure to UV rays, rain and the elements may damage the enclosure materials, store indoors when not in use.

Need Help? Visit our website for replacement parts, product support, a list of authorized service centers in the US and customer service contact information at **www.razor.com**. Please have the product I.D. code (located on the white label of your product) available for better assistance. Additional Customer Service contact information is listed at the back of this manual.

BEFORE YOU BEGIN

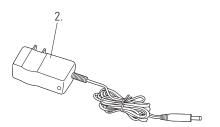
Remove contents from box. Remove the separators that protect the components from damage during shipping. Inspect the contents of the box for scratches or dents that may have occurred during shipping. Because the Sonic Glow Hovertrax was assembled and packed at the factory, there should not be any problems, even if the box has a few scars or dents. Please keep this box in case you need to send the Sonic Glow Hovertrax back for service or repairs. If you use another box, Razor will not be responsible for any damage caused during shipping.

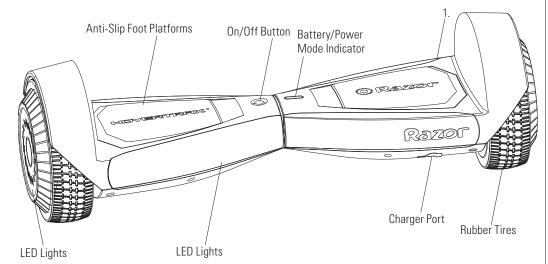
MAKE SURE POWER SWITCH IS TURNED "OFF" BEFORE CONDUCTING ANY MAINTENANCE PROCEDURES.

☐ Estimated Set-Up Time

Allow up to 5 hours for initial charge (see page 6 for charging information).

Charger
Note: Charger design may vary from one shown





WARNING:

DO NOT USE NON-RAZOR PARTS WITH YOUR PRODUCT.

The Sonic Glow Hovertrax 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 and all other parts. Certain aftermarket components may not be compatible and will void the warranty.

Product ID Locations:

(See locations to the left)

- 1. Frame (Underneath Product)
- 2. Charger
- 3. UPC Side of Box (Not Shown)

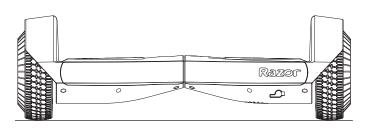
Box Contents:

- Sonic Glow Hovertrax
- Charger
- Owner's Manual

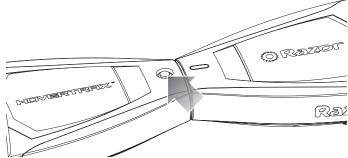
ASSEMBLY AND SET-UP

☐ Calibration Confirmation

Note: Your Sonic Glow Hovertrax should have been calibrated at the factory.



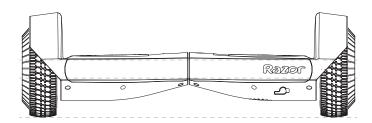
1 Place Sonic Glow Hovertrax on a level surface.



2 Turn power **ON**. If product remains level or adjusts to become level, calibration has been confirmed. No further steps are needed.

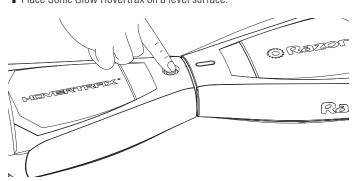
If product begins to roll or does not move into a level orientation, see Calibrating Sonic Glow Hovertrax.

☐ Calibrating Sonic Glow Hovertrax



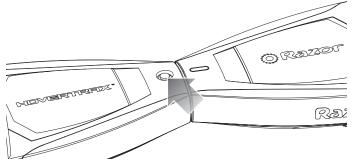
Razzer

1 Place Sonic Glow Hovertrax on a level surface.

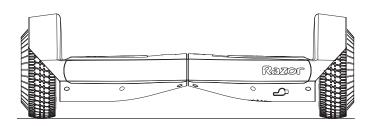


3 While keeping the product level, turn power **0N** and **HOLD** until product beeps and lights flash (approximately 15-20 seconds).

2 Manually adjust the platforms so they are level to the ground.



4 Turn power back OFF.



5 Calibration complete.

Note: Once the product has been calibrated, no matter what position (angle) the platforms are in when it is turned off, the platforms will automatically self-balance themselves back to the calibrated position when product is turned on.

CHARGING THE BATTERY

Your Sonic Glow Hovertrax comes with a lithium-ion battery pack. Your Sonic Glow Hovertrax may not have a fully charged battery; therefore you must charge the battery prior to use. Be sure to charge the battery in a clean, dry location away from direct sunlight, flames or sparks.

- Use only Razor Sonic Glow Hovertrax charger.
- Initial charge time: 5 hours.
- Recharge time: up to 5 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 Sonic Glow Hovertrax power switch is turned OFF when product 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.

- Run time: Up to 30 minutes of continuous ride time. Run time may vary depending on riding conditions, rider weight, climate, and/or proper maintenance.
- Constant stopping and starting may shorten ride time.
- Do not charge at or below 32° F (0° C).
- Do not allow charger or battery pack to overheat. If they seem warm, allow to cool down. Charge only at room temperature.
- Do not place product or charger in the sun or warm environment. Keep at normal room temperature.

A 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 Sonic Glow Hovertrax with a damp cloth.

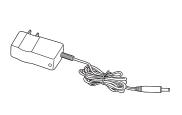
The charger supplied with the Sonic Glow Hovertrax should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, the Sonic Glow Hovertrax must not be charged until it has been repaired or replaced.

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

Wall outlet - Green (stand by)
Wall outlet and product - Red
(charging)
Wall outlet and product - Green
(charged)

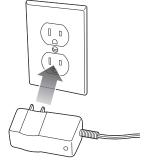
Note: Continue charging product even if light turns green prior to 5 hours.

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



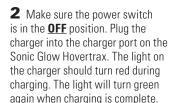


Note: Charger design may vary from one shown



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

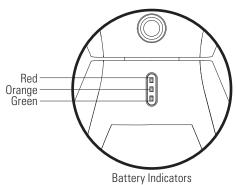
Note: If green light (LED) does not turn on, try a different outlet.



Model	Voltage	Capacity	Charge	Operating
	(Nominal) Vdc	(Nominal) Ah	Temperature Range	Temperature Range
Sonic Glow Hovertrax	25.2	2.0	0° to 40°C 32° to 104°F	-10° to 40°C 14° to 104°F

☐ Battery Power Level Indicator

- Green + Orange + Red Indicator Lights Battery is sufficiently charged.
- **Red + Orange Indicator Lights** Charge product as soon as possible. If you continue to ride the product, the orange light will turn off. The red light will begin flashing and the product will begin to beep.
- Flashing Red Indicator Light and Rapid Beeping Step off and charge immediately. The battery is out of power and the product will automatically shut off. Do not attempt to ride until product has been recharged.



WARNING: The Sonic Glow Hovertrax will notify you when the battery charge is dangerously low by beeping. The orange battery indicator light will turn off and the red light will begin to flash. If these warnings occur, immediately slow down and safely step off. Turn the product off. Do not attempt to ride again until the battery is recharged.

HOW TO OPERATE

HOW IT WORKS

The Sonic Glow Hovertrax responds to the rider's foot movements. Remember this. The Sonic Glow Hovertrax moves due to fore and aft foot platform tilt caused by the rider's foot (or feet).

Movement, speed, and stopping are controlled by the degree to which the rider's feet cause the foot platforms of the Sonic Glow Hovertrax to no longer be parallel to the ground.

When the product is "ON", the gyroscopic mechanized balancing feature of the Sonic Glow Hovertrax tries to keep the foot platforms of the product parallel to the ground. In use, Sonic Glow Hovertrax then detects changes from "level" which are caused by fore and aft pressure on the foot platform(s) applied by the rider's feet. Such changes are interpreted by the Sonic Glow Hovertrax as instructions to make the wheels move. Sonic Glow Hovertrax tries to re-level a forward tilt by accelerating, and tries to level a rearward tilt by decelerating.

PERIODIC RECALIBRATION IS RECOMMENDED

The Sonic Glow Hovertrax self-balancing features are calibrated to function with a detected "resting position" that is level. Over time and usage, recalibration may be needed to assure "level" status. If inaccurate calibration persists, this could affect the operation of the unit by sending instructions to the motor(s) to move that may differ from the intended motion.

To calibrate the product (see page 5 for additional information):

- Turn power OFF.
- Manually adjust the platforms so they are parallel to the ground.
- Turn power ON and HOLD until it beeps and lights flash (approximately 15-20 seconds).
- Turn power back OFF.
- · Calibration complete.

Once the product has been calibrated, no matter what position (angle) the platforms are in when it is turned off, the platforms will automatically self-balance themselves back to the calibrated position when turned on.

MOVING AND CHANGING DIRECTION:

When a rider stands on the Sonic Glow Hovertrax with an evenly weighted foot that is "level" on either foot platform:

- Pressing toes on both feet downward moves Sonic Glow Hovertrax forward.
- Pressing heels on both feet downward moves Sonic Glow Hovertrax backward.
- Turns are done by putting more downward pressure on the front side of the foot platform on the outside of the turn
- A rider can spin in place by pushing downward on the front edge of one foot platform while simultaneously
 pushing downward on the rear edge of the other foot platform.

ACCELERATING AND STOPPING:

- To go faster or to slow down, press the foot platforms at a greater angle for "more" and reduce the angles for "less".
- When slowing or stopping, if you continue to apply force to the edges opposite the direction of travel, you may not only stop but continue on to reverse your direction.

How does this happen? The fundamental principle is that the Sonic Glow Hovertrax is designed to be "at rest" when the foot platforms are level — and the gyroscopic mechanized balancing feature detects the "levelness" of the product. This same feature detects foot movements that cause a foot platform to no longer be "level" and it interprets these changes as orders to move.

That's it. That's how it works. It does what your feet tell it to do, and the product "self-balances" itself in order to be ready to detect and implement the instructions provided by a rider's feet.

Understanding this principle is important for obvious reasons. It also suggests some obvious warnings for riding the Sonic Glow Hovertrax, such as:

- **Do not jump up and down on it:** If you remove a foot (or both feet), then land back on the Sonic Glow Hovertrax and cause the foot platform(s) to change position relative to "level" in any degree, the machine could and will react by moving immediately in response to an "instruction", which can result in loss of rider stability, balance or control.
- Shifting Weight Alone is not the Issue: Do not presume that shifting weight alone controls motion or, for that matter, that not shifting weight equals "stability". Shifting of rider weight may be associated with increase or decrease of foot pressures on the foot platforms, but it is the action of the feet on the foot platforms which instructs Sonic Glow Hovertrax to move. Conversely, if you were to shift your weight without altering the placement or angle of your feet, so that the foot platforms remain level, the Sonic Glow Hovertrax does not receive any "signal" to interpret.

Note: Do not lift the Sonic Glow Hovertrax off the ground when it is turned on. Do not turn on the Sonic Glow Hovertrax in mid-air

Riding Tip: Certainly the rider may "lean" on the Sonic Glow Hovertrax, but leaning only affects the foot platform's position to the extent the rider's feet change their position. If the rider's ankles are held at a consistent 90° angle, leaning will result in tilting. Note that leaning can exaggerate shifting of weight, which may affect the ability of a rider to recover to a level posture — increasing the possibility of loss of balance.

Need Help? Visit our website for replacement parts, product support, a list of authorized service centers in the US and customer service contact information at **www.razor.com**. Please have the product I.D. code (located on the white label of your product) available for better assistance. Additional Customer Service contact information is listed at the back of this manual.