

SOLOWHEEL™

Guide and Manual

Before using the Solowheel,
READ THROUGH THESE INSTRUCTIONS COMPLETELY!



Inventist,® Inc.



WARNING

Whenever you ride the Solowheel you risk serious injury or death from collisions, falls or loss of control. To ride safely, YOU MUST READ AND FOLLOW ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL.

This manual includes basic operational instructions for the Solowheel. It cannot cover all situations where injury or death may occur. OPERATORS MUST USE GOOD JUDGMENT AND COMMON SENSE TO DETECT AND AVOID HAZARDS AND DANGERS that they may encounter when riding the Solowheel. By using the Solowheel, you accept of the inherent risks of operating this product.



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Introduction

Congratulations on your purchase of the Solowheel. The Solowheel is the smallest, greenest, most convenient "People Mover" ever invented. The breakthrough design, innovative technology and gyro-sensors provide an easy, uncomplicated, straightforward ride that is convenient for traveling around the city, a country trail, the beach, school campuses, or anywhere else personal transportation devices are allowed.

This manual will help you set up and use your Solowheel. It is important that you adhere to all safety warnings and cautions that appear throughout and that you use good judgment when riding.

Remember when you learned to ride a bike? You probably started in a safe location and had somebody help you learn. You started slowly. This technique applies to the Solowheel as well.

If you carefully follow all the instructions and warnings in this manual, you should be able to teach yourself to ride the Solowheel.

Riding the Solowheel is a lot of fun, and we hope you'll think so, too.



RISK OF INJURY

Whenever you ride the Solowheel, you risk injury from loss of control, collisions and falls. It is your responsibility to learn how to safely ride the Solowheel in order to reduce the risks of riding.

This manual is designed to help you learn safe riding techniques.

NO ONE SHOULD USE THE SOLOWHEEL UNLESS THEY HAVE READ THROUGH THE MANUAL.

Review all the material frequently to help remind you of proper riding techniques and safety procedures.

IMPORTANT WARNINGS FOR SAFE USE

For your safety, READ THIS MANUAL IN ITS ENTIRETY, before you use the Solowheel.

⚠️WARNING: Always inspect the Solowheel prior to use. Properly inspecting and maintaining your product can reduce the risk of injury. Always check the battery charge before using the Solowheel. Do not ride the Solowheel when its battery is low, as indicated by a blinking red indicator light or shaking of the wheel during operation. The Solowheel may stop operating and cause you to fall. Make sure the tire is properly inflated (35 psi).

⚠️WARNING: ALWAYS WEAR A HELMET WHEN RIDING. Use an approved bicycle or skateboard helmet that fits properly with the chin strap in place and protects the back of your head. Local LAWS may require riders of wheeled products to wear a helmet and other protective gear. Never ride the Solowheel barefoot or in open-toed shoes or high-heels.

⚠️WARNING: Check local laws and regulations to see where and how you may use your Solowheel legally. Follow all applicable laws for vehicles and pedestrians.

⚠️WARNING: 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.

⚠️WARNING: Do not exceed the maximum weight of 220 pounds (100 kilograms)—including backpacks and other items that might be carried. Exceeding the weight limit could injure the rider and damage the Solowheel.

⚠️WARNING: The Solowheel should not be ridden by young children. Use your judgment about whether a child has the necessary coordination, strength and maturity to use the Solowheel. Only children 15 years old or older should be permitted to ride the Solowheel.

⚠️WARNING: Do not lift the Solowheel off the ground when the unit is turned on. This will cause the wheel to spin freely which could result in injury to yourself or damage to things around you.

⚠️WARNING: Do not modify the Solowheel. Modifications could interfere with operating the Solowheel and could result in serious injury and/or damage. Modifications void the Solowheel's Limited Warranty.

⚠️WARNING: Since the Solowheel balances by accelerating in response to your leaning forward, if you lean too far forward too quickly, the motor will not be able to catch up with you and you may fall. The Solowheel will tilt backward at the maximum speed. DO NOT attempt to accelerate further or you will fall.

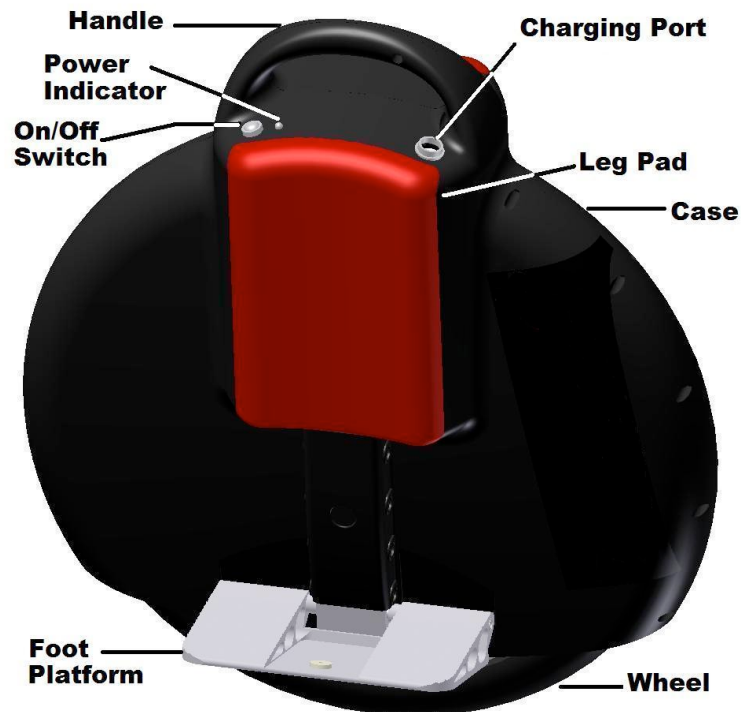
⚠️WARNING: Never drink and drive. This goes for the Solowheel as well.

Solowheel Components

Your Solowheel comes packaged in a high quality corrugated cardboard box for its protection. Please keep this box in case you need to send the Solowheel back for service or repairs. If you use another box, Inventist will not be responsible for any damage caused during shipping. Also, you will be charged for a new box to ship the Solowheel back to you.

Inside you will find:

1. The Solowheel
2. Battery charger and power cord
3. Learning band
4. User's Guide and Manual



Getting Started

After unpacking your Solowheel for the first time, follow all the steps below before you start riding.

Charging the Battery

Your Solowheel comes with a built-in lithium-ion battery pack. Before you use the Solowheel for the first time, you must fully charge the battery. Be sure to charge the battery in a clean, dry location.

1. Plug one end of the power cord into the Solowheel. Plug the other end into a grounded AC outlet. The red charging light on the charger unit will turn on.
2. The charger may take up to 2 hours to complete its charge. The red light on the charger will turn green once it is finished.

IMPORTANT: If you are not regularly using your Solowheel, you should fully recharge the battery at least every sixty (60) days. If the battery power drops to low, you may not be able to recharge it.

Power Level Indicators

Once the battery is fully charged, the indicator light on top of the Solowheel will be green when you turn the unit on. This is what the lights on the Solowheel mean:

- Solid Green: indicates that the Solowheel is charged and ready to be used.
- Solid Orange: indicates that the battery is about half drained.
- Solid Red: indicates that the battery is low and should be charged.
- **Blinking Red and Shake Warning: the Solowheel will notify you when the battery charge is dangerously low by shaking the wheel when you are riding it. If the shake warning occurs, slow down and safely step off. Do not attempt to ride again until the battery is recharged. If you continue to ride the Solowheel on a low battery, you can fall.**

NOTE: After fully charging the battery, if you immediately go downhill, the indicator light will turn red and the unit will shake. THIS DOES NOT MEAN THAT THE BATTERY IS NOT CHARGED. This is the overcharge warning. The Solowheel battery regenerates power when going down hill and stopping. Turn the unit off, then on again and ride up hill a few feet to drain off some of the power.

Riding Guidelines

After unpacking your Solowheel Extreme for the first time, follow all the guidelines found in the next few pages before you start riding. On your first several rides, we recommend that you use the Learning Band, which is described on the next page.

Riding Form

- Learn to ride the Solowheel in a large, safe area free from all forms of traffic.
- Keep your posture upright, but relaxed with your body aligned over the Solowheel and your feet centered on the platforms.
- Be alert. Scan both far ahead and in front of you—your eyes are your best tool for safely avoiding obstacles and slippery surfaces.
- Your lower legs should rest comfortably, yet firmly against the leg pads. Do not lock your knees.
- Hold your arms comfortably at your side.
- Start at a slow and comfortable pace. **Never aggressively accelerate or lunge forward.**

Preparation

1. Always wear an appropriate safety helmet and other protective gear.
2. Wear comfortable clothes and shoes. Never ride the Solowheel barefoot or in open-toed shoes or high-heels.
3. Make sure the tire is properly inflated (35 psi).
4. Make sure the battery is charged.

Understanding the gyro-sensors

The Solowheel balances front to back, but not side-to-side. You are responsible for maintaining side-to-side balance by twisting your feet right and left and leaning into turns. It's just like steering a bicycle. If you fail to actively maintain this side-to-side balance, the Solowheel can tip sideways and fall. See the 8 Steps to Riding your Solowheel page for important riding technique information.



CAUTION

Use the learning band to minimize the risk of damaging your Solowheel

When first learning to use the Solowheel, you need to use the included learning band so that your Solowheel will not become damaged.

1. Attach the band around the Solowheel handle. While standing with one foot on the platform, adjust the length of the band so that you can hold it comfortably at about waist height. Do not pull up on the band when riding or it will throw you off balance.
2. Follow the 8 Steps to Riding your Solowheel instructions. When you feel yourself losing your balance and you have to step off, use the band to keep the Solowheel from falling over, or rolling away.



8 Steps to Riding Your Solowheel

Once you have charged the battery, follow these eight easy steps:

1. Grab the handle of the Solowheel and set it on the ground vertically and turn the power on. The green light on top of the unit will light up. The Solowheel can face either direction.
2. Unfold the foot platforms and press them into the down position.
3. Put one foot on one platform and stand up straight. Shifting your weight forward, lightly push off the ground with the other foot and immediately place it on the other platform so that you straddle the Solowheel, squeezing the pads between your lower legs. Keep your hips under you; do not bend over at the waist.
4. Shift your body weight *gradually* forward to pick up speed. Do not aggressively accelerate or lunge forward.
5. Shift your body weight backward to slow down or stop.
6. To turn, lean the wheel in the direction you want to go.
7. **IMPORTANT: Twist your feet right and left for balance and steering. This is similar to maneuvering the front wheel of a bicycle. (Attempting to balance by leaning and tilting is not effective.)**
8. When you are ready to get off, slow down, stop and step off with one foot. Keep the Solowheel steady as you turn the unit off.

REMEMBER: During your first few rides, use the learning band to keep the Solowheel from becoming damaged.

REMEMBER: Do not lift the Solowheel off the ground when it is turned on.

Learning Tips

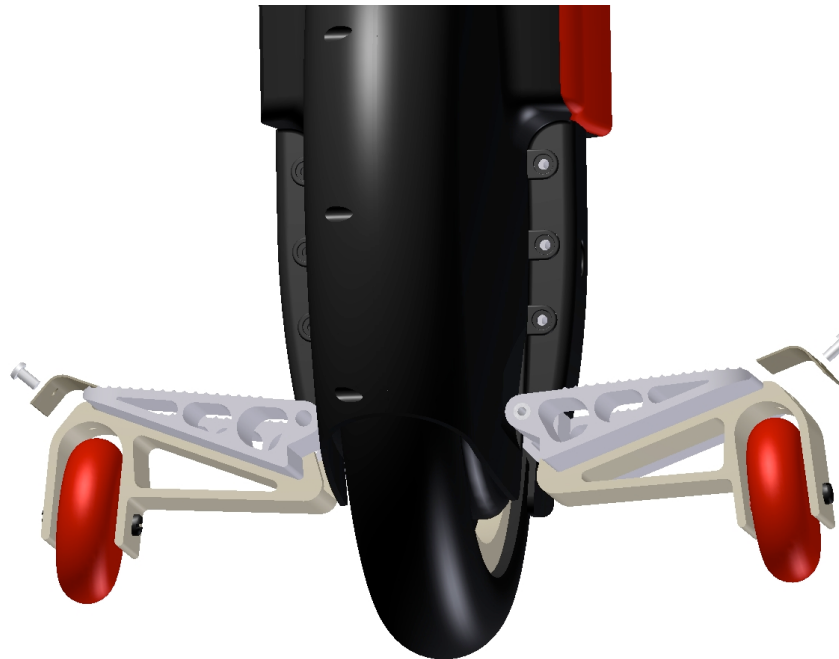
- If the Solowheel tips too far to the side, the power indicator light will blink red and green. Push the power button off and on again to reset. Always check the battery indicator light prior to getting on the Solowheel to make sure it is on.
- Remember to keep your body relaxed through your back and legs. Stand naturally. Do not lock your knees.
- Avoid riding *across* steep slopes.
- Lean uphill when riding *across* gentle slopes.
- Avoid *turning* on slopes or ramps.
- Stay centered on narrow sidewalks or elevated paths.
- Practice controlled stopping.
- For small radius turns, use your lower legs to make the Solowheel lean more.

IMPORTANT: The top speed of the Solowheel is ten (10) miles per hour (16 kilometer per hour). When you approach the maximum speed, the Solowheel will try to prevent you from accelerating further. It will move forward beneath you in order to shift your weight backward. You may feel that you are being 'pushed' back or that you cannot make it go any faster. **Do not continue leaning or bending forward to try and increase your speed or you will fall.** Beyond the speed limit, the motor does not have enough power to catch you. Lean back and slow down.

Be sure to visit our website at www.solowheel.com to see videos that include strategies and helpful tips designed to get you riding your Solowheel quickly and comfortably.

Training Wheels (Optional)

If you have purchased the optional training wheels, refer to the diagram below on how to attach them. You will need a Philips screwdriver.



Terrain and Avoiding Hazards, Slips and Trips

The Solowheel is highly maneuverable and allows you to easily navigate over rough pavement and around obstacles. However, to prevent the loss of traction, you must always be careful when riding and learn to identify and avoid slippery, wet surfaces, loose materials, steep slopes, potholes and obstacles.

Stop and step off the Solowheel over unsafe surfaces or terrain.

The Solowheel's tire must be able to grip the ground for you to stay upright. Slips occur when the Solowheel loses traction, potentially causing loss of control and a fall. Abrupt maneuvers, and riding over slippery surfaces, loose objects and materials, or steep slopes can cause the Solowheel to lose traction.

- When you reach the upper speed limit, the Solowheel will 'push' you back. You may feel it's oscillating, that it is moving forward underneath you to make you lean back, or that it takes extra effort to accelerate. **Do not continue leaning or bending forward to try and increase your speed or you will fall.** Beyond the speed limit, the motor does not have enough power to catch you. Lean back and slow down.
- Avoid abrupt maneuvers, such as fast or sudden stopping or starting.
- Avoid riding on slippery surfaces such as snow, ice, wet floors, wet grass, or any other surface that might cause slipping.
- Avoid riding over loose objects or materials such as small branches, litter, gravel, sand or small stones.
- Avoid riding on slopes 15 degrees or greater.
- Avoid sharp turns as the foot platform may scrape the ground and throw you off balance.
- Avoid holes, grooves, curbs, steps and other obstacles.
- Avoid riding over any surface where the foot platforms may strike an object.
- Use caution when riding over any terrain change such as pavement to grass, over a threshold or speed bump. When in doubt, avoid the bumps.
- Avoid riding the Solowheel in heavy rain or other adverse weather conditions.
- Do not ride at night when visibility is poor and you cannot see your surroundings clearly.

Riding Etiquette

It is important to use proper etiquette when riding your Solowheel.

- Be careful and considerate of others.
- Always ride under control at a speed that is safe for you and those around you.
- Always be prepared to stop.
- Respect pedestrians by always yielding the right of way.
- Avoid startling pedestrians. When approaching from behind, announce yourself and slow down to walking speed when passing. Pass on the left whenever possible. When approaching a pedestrian from the front, stay to the right and slow down.
- In heavy pedestrian traffic, slow down and proceed at a walking speed. Pass only if there is ample space to do so safely. Do not weave in and out of pedestrian traffic.
- If it is legal in your area to ride in the street, always stay in marked bike lanes.

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 your Solowheel until they have read this manual.

Remember: you are required to inspect and maintain this product to insure your safety.

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. If such things occur you can be seriously injured or die.

- Always wear proper protective equipment, such as an ANSI, SNELL, CPSC or ASTM approved helmet and elbow and knee pads and wrist guards. Long sleeve shirts, gloves, long pants, closed-toe shoes (lace-up with rubber soles is best), and elbow and knee pads are mandatory. Keep shoe laces out of the way of the wheel.
- The Solowheel should not be ridden by young children. Use your judgment about whether a child has the necessary coordination, strength and maturity to use the Solowheel. Only children 15 years old or older should be permitted to ride the Solowheel.
- Never ride in traffic. Watch your surroundings for pedestrians, bikes, roller skaters, skateboard and scooter riders. Use the Solowheel in areas free from fixed or moving hazards, such as poles, curbs, hydrants, walls, parked cars and traffic.

FAILURE TO USE COMMON SENSE AND GOOD JUDGMENT AND HEED THESE WARNINGS CAN CAUSE SERIOUS INJURY. USE AT YOUR OWN RISK AND WITH APPROPRIATE AND SERIOUS ATTENTION TO SAFE OPERATION. USE CAUTION AT ALL TIMES.

Understand that no safety gear can fully protect you. Only you can reduce the risks of using the Solowheel by using it safely and with control at all times.

Maintenance and Care

Maintenance

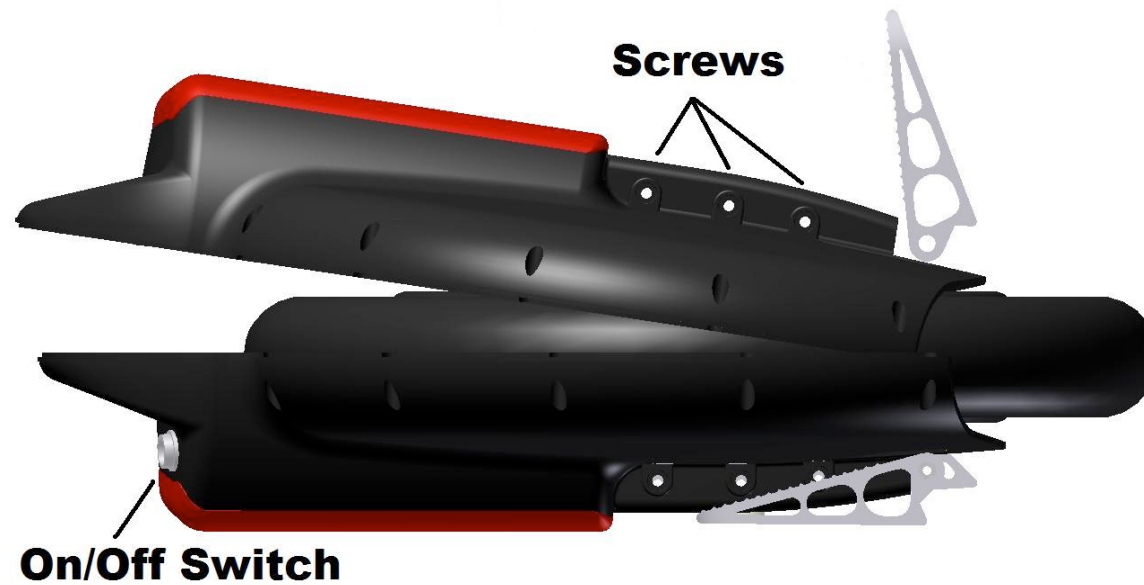
- Store your Solowheel in a place away from moisture.
- If you will not be using the Solowheel for an extended length of time, you should fully recharge the battery at least once every sixty (60) days to keep it from draining completely. The battery cannot be removed. Should you need a new battery, please see our web site for a list of authorized service representatives or contact us at sales@inventist.com.
- To clean the Solowheel, use a damp cloth and a mild detergent.

Changing the tire

To change the Solowheel tire, you will need:

A Phillips screwdriver

1. Unscrew all the screws around the outside of the cover with a Philips screwdriver: seven screws on each side including the ones in the handle.
2. In the middle of the cover, beneath the leg pads there are six screws. See drawing below. Unscrew the screws only on the OPPOSITE side of the On/Off switch and charging port. (Do not unscrew the screws that are on the same side as the On/Off switch and charging port.)



3. Gently open the top half of the case and flip it over. There are connecting wires between the two half cases. Be careful not to stretch these wires. You can now change the tire or the inner tube as you would on a bicycle.
4. Refit the Solowheel cover in place. Carefully keep all wires away from the case edges. Tuck all wires inside the case. Push the two half cases together until they are almost shut. (No need to shut completely).



5. Using hand or a rubber hammer, taps the case to line up the screw holes on the ridge between the foot platform and the red leg pad. Screw in all six screws using the large Phillips screwdriver. Take care to turn the screws in as straight as possible. If you feel too much resistance, back the screw out, realign it and tighten again.

6. Make sure all wires are inside so that they won't be pinched when you close the case. Screw in all fourteen screws (seven on each side) around the circumference of the case on both sides, starting with the handle.

For optimal performance, keep tire pressure at 35 psi.

LIMITED WARRANTY

Limited Warranty for U.S. Consumers

1. Warranty

Inventist Inc. warrants to the original consumer purchaser of the Solowheel ("Purchaser") that the product will be free from defects in materials and manufacture on the date of purchase and will remain serviceable for a period of one (1) year after the date of Purchaser's purchase, subject to the exclusions in the following paragraph.

2. Exclusions from Warranty Coverage

This Limited Warranty does not cover damage to the Solowheel or any component part caused by any of the following: all external causes such as (but not limited to) dropping, accident, collision, abuse, vandalism, negligence, improper handling, maintenance, or storage, neglect; misuse such as riding over obstacles, overloading, racing, or otherwise using the Solowheel contrary to the instructions and warnings contained in the user manual and DVD provided by Inventist; normal wear and tear, deterioration of paint, trim and appearance items that results from use and/or exposure to the elements; cleaning with a high-pressure water system, abrasives or solvents; damage and/or defects caused by unauthorized and/or improper attempts to repair, alter, disassemble or otherwise modify the Solowheel or any of its components; damage caused by improper electrical connection, improper tire inflation, exposure to chemicals, water or excessive temperatures; and/or any damage and/or failure resulting from earthquake, fire, flood or other casualty or acts of God.

3. Exclusion and Limitation of Other Warranties

The preceding warranty is the exclusive warranty applicable to the Solowheel and supersedes any prior, contrary or additional representations, whether oral or written. Any implied warran-

ties, including any warranty of merchantability or warranty of fitness for a particular purpose are limited in duration to the one year period of the preceding warranty.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

4. Exclusive Remedy

If the Solowheel fails to conform to the preceding warranties, the Purchaser must notify Inventist within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity by telephone to 360-833-2357 (country code 1) or by e-mail to sales@inventist.com. Inventist will provide a Return Authorization number and form. Purchaser must deliver the Product, together with proof of date of purchase to Inventist at the following address: Inventist Returns, 4901 NW Camas Meadows Dr., Camas, WA 98607 USA. Purchaser shall be responsible for and must prepay any shipping expense for return of the Product. Inventist will examine the Product and, in the event of a breach of warranty, will provide, at its sole option and within a reasonable period of time: (1) repair of any nonconforming Solowheel or components or (2) replacement of any nonconforming Solowheel or components with conforming product or components. Repaired or replacement products will conform to the warranty for the unexpired duration of the warranty period for the original, nonconforming Product. Inventist may use used or repaired material for all warranty claims. THE REMEDY SELECTED BY INVENTIST IN ACCORDANCE WITH THIS PARAGRAPH SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

5. Exclusion of Consequential, Incidental, and Other Damages

Inventist and its distributors and dealers SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES for breach of any warranty or for damages arising from nondelivery or from the use, misuse, or inability to use the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

6. Choice of Law; Disputes; Severability

The laws of the State of Washington (excluding application of its

choice-of-law rules) shall govern all matters arising out of or relating to this Limited Warranty, including without limitation, its validity, interpretation, construction, performance and enforcement. No action arising out of any claimed breach of warranty or breach of any remedial promise arising out of or relating to this Limited Warranty may be brought more than one (1) year after the cause of action has accrued. If any part of this warranty is found to be void or unenforceable, then the remainder shall have full force and effect, and the invalid provision shall be partially enforced to the maximum extent permitted by law.

Warranty for Consumers Outside the U.S.

For consumers who buy their Solowheel outside the U.S., the terms of the preceding warranty apply. In addition, Inventist grants to such consumers any additional warranty rights prescribed by the domestic statutory law regarding consumer warranties in effect where the consumer buys the Solowheel, and

Inventist does not curtail or limit those rights that cannot be excluded or limited under that law. The U.N. Convention on Contracts for the International Sale of Goods will not apply to the sale of the Solowheel.

Warranty for Commercial Buyers Worldwide

For buyers of the Solowheel who use the product in their trade, business, or profession or for commercial activity, Sections 1, 2, 4, 5, and 6 of the preceding “Limited Warranty for U.S. Consumers” apply, but Section 3 of the Limited Warranty does not apply. Instead, the following provision applies:

WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE.

Exclusion and Limitation of Other Warranties

The express warranty contained in Sections 1 and 2 of the preceding “Limited Warranty for U.S. Consumers” is the exclusive warranty applicable to the Solowheel and supersedes any prior, contrary or additional representations, whether oral or written. INVENTIST DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY

Solowheel
4901 NW Camas Meadows Drive
Camas, WA 98607 USA
1-360-833-2357
www.solowheel.com
Designed in the USA/Assembled in China
Patent Pending