

### **Guide and Manual**

Before using the Solowheel, please read through these instructions completely.







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. Note that while the information in this manual will assist you in getting the full benefits of using the Solowheel, it cannot cover all situations where injury or death may occur. Using the Solowheel is your acceptance of the inherent risks of operating this product.



**Guide and Manual** 

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#### Introduction

Congratulations on your purchase of the Solowheel. The Solowheel is the smallest, greenest, most convenient "People Mover" ever invented. This gyro stabilized, electric unicycle is compact and fun to ride and is intended to be used as you would use an electric bicycle.

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 you ride your Solowheel.

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 and in the instructional DVD, you should be able to teach yourself how to ride the Solowheel.

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



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. This manual and the instructional DVD are designed to help you learn safe riding techniques. No one should use the Solowheel unless they have read through the manual and watched the DVD. Review all the material frequently to help remind you of proper riding techniques and safely procedures.

# Safety is First

For your safety, please read this manual in its entirety and watch the instructional DVD, 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.

▲ WARNING: Check local laws and regulations to see where and how you may use your Solowheel legally. In many state and local areas, riders of wheeled products may be required BY LAW to wear a helmet and other protective gear. Always wear a helmet when riding. Use an approved bicycle or skateboard helmet that fits properly with the chin strap in place and that provides protection for the back of your head.

▲ WARNING: Avoid obstacles and slippery surfaces which could result in a loss of balance or traction and cause a fall. See the chapter on Terrain for more guidelines.

▲ 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: The maximum weight of the rider, including any backpacks or other items that might be carried, must not exceed 220 pounds (100 kilograms).

▲ 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.

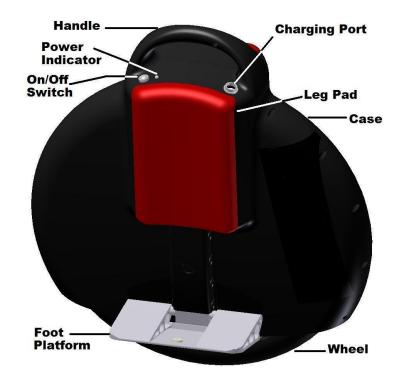
▲ WARNING: Never drink and drive. This goes for the Solowheel as well.

# **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 is not responsible for any additional damaged 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
- 5. Instructional DVD



# **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. The battery should be fully charged before you use the Solowheel for the first time. 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.

If you are not regularly using your Solowheel, you should fully recharge the battery at least every thirty (30) 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.

# **Riding Guidelines**

Be sure to watch the instructional DVD for visual guidelines on learning to use the Solowheel.

## **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.
- Hold your arms comfortably at your side.
- Start at a slow and comfortable pace.

## 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.
- 4. Make sure the battery is charged.

## Understanding the gyro-sensors

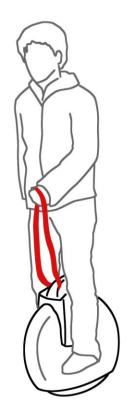
The Solowheel balances front to back, but not side to side. You are responsible for maintaining side-to-side balance by twisting your feet right and left and leaning into turns, just like steering a bicycle. If you fail to actively maintain this side-to-side balance, the Solowheel can tip sideways and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



### Use the learning band to eliminate 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 scratched.

- 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.
- 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.
- 4. Shift your body weight *gradually* forward to pick up speed. Do not 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 much less effective.)
- 8. When you are ready to get off, slow down, stop and step off with one foot; grab the handle. Keep your other foot on the other platform and turn the Solowheel off.

**REMEMBER:** 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**

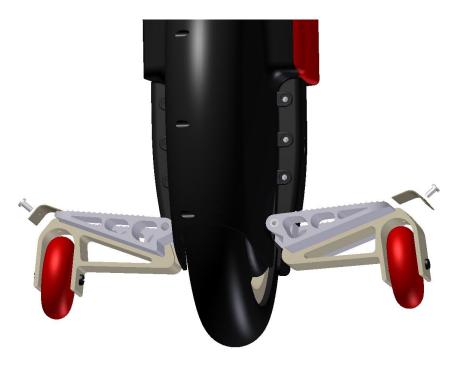
- If the Solowheel tips too far to the side, the power indicator light will blink red and green. Push the power button off and on again to reset.
- Remember to keep your body relaxed through your back and legs. Stand naturally.
- Avoid riding *across* steep slopes.
- Lean uphill when riding *across* 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 additional 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 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 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 steep slopes.
- 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.

## **Care and Maintenance**

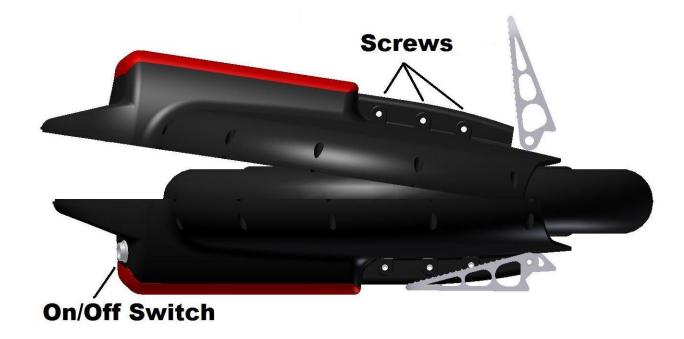
### Maintenance

- 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 thirty (30) 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.
- 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 above the battery control board so that there are no wires between the control board and battery lid, as shown in the picture below. 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.

### Safety Guidelines: An important message to all users

It is your responsibility to 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 and watched the instructional DVD.

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. Use at your own risk and use common sense.

Remember: using a product with wheels can be a dangerous activity even when used with proper safety precautions.

- Always wear proper protective equipment, such as an ANSI, SNELL, CPSC or ASTM approved helmet and elbow and knee pads. 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.
- Do not allow children under the age of fifteen (15) to use the Solowheel. Children fifteen (15) and up should use the Solowheel only with adult supervision.
- Never ride in traffic and 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 HEED THESE WARNINGS FURTHER INCREASES RISK OF 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.

#### Terms of Use

The maker and seller of the Solowheel shall not be liable to the buyer and/or user for loss, damage or injury to persons, or to property or to things, whatsoever including, but without limitations, damages of any kind from nature or those occasioned by or arising out of installation, operation, use, misuse or nonuse.

The use of this product constitutes the acceptance of the terms set forth herein.

#### WARRANTY and RETURN POLICY

### **Return Policy**

If you purchased the Solowheel directly from Inventist and you wish to return it for a refund, you may do so within 30 days of purchase. The Solowheel must be returned unused and in the original packaging. Risk of loss remains with you until Inventist receives the returned unit. Shipping and restocking fees will be deducted from your refund.

If you purchased the Solowheel from a retailer other than our shop at <u>www.Inventist.com</u> or <u>www.Solowheel.com</u>, please follow the retailer's return policy. Inventist takes returns only of products purchased directly from us.

### 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 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 warranties, 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 <u>sales@inventist.com</u>. Inventist will provide a Return Authorization number and form. Purchaser must deliver the Product, together with proof of date of purchase to Investist 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 conform to 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:

3. 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 **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.

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> Designed in the USA Assembled in China Patent Pending