



*Product appearance may vary*

# **Self-Balancing Scooter / Hover Board**

## **User Manual**

[Revision 6.0 July 2019]

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READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE.  
• Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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# Safety

- Riding can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. The product 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. FAILURE TO USE COMMON-SENSE AND HEED ALL SAFETY WARNINGS AND RECOMMENDATIONS INCREASES RISK OF INJURY. USE THE PRODUCT ONLY WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.**
- **APPROPRIATE RIDER USE AND PARENTAL SUPERVISION** - The recommended minimum rider age of 8 years is an estimate only, and can be affected by the rider's size, weight or skills. Any rider unable to adequately understand the controls or techniques required to ride the product 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.
- **MINIMUM RIDER WEIGHT = 20KG / MAXIMUM RIDER WEIGHT = 100KG** - Rider weight does not necessarily mean a person's size is appropriate to fit or control of the product, moreover the ability of the product to safely support the loads placed on it due to rider weight.

## ACCEPTABLE RIDING PRACTICES AND CONDITIONS

- Always check and obey any local laws or regulations which may affect the locations where the product may be used. Ride defensively. Watch out for potential obstacles that could catch the rubber wheels or force you to swerve suddenly or lose control. Avoid pedestrians etc who may enter your path and respect the rights and property of others.
- The product is meant to be used on private property and on closed courses and not on public streets or pavements. Do not ride in any areas where pedestrian or vehicle traffic is present.
- Do not activate the product unless you are in a suitable environment for safe riding.
- The product is not for indoor use.
- The product is only for recreational use only. Do not use it as a means of transportation.
- Do not use the product while under the influence of drugs and/or alcohol.
- Do not use the product to carry objects or loads.
- This product is manufactured for performance and durability but is not impervious to damage. Stunts or other aggressive riding can over-stress and damage the product, and the rider assumes all risks associated with how the product is cared for.
- 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 activity.
- Never carry passengers or allow more than one person at a time to ride the product.
- Never use near steps, drops or bodies of water, such as swimming pools.
- Do not use the product on steep inclines, slippery, uneven or rough surfaces.
- Keep your fingers and other body parts away from the rubber wheels and all other moving components.
- Never use headphones or a phone when riding.
- Never hitch the product to another vehicle or person.
- Do not ride the product in rain or wet conditions and never immerse the product in water – electrical components may be damaged by water or create other possible unsafe conditions.
- Before each use, check the tyres for obstructions or damage, and for any loose parts. Contact an authorised service centre for repairs, if required.
- Do NOT modify or attempt to repair the product as this may affect its performance and / or render it as dangerous.



## **PROPER RIDING ATTIRE**

- Always wear proper protective equipment, such as an approved safety helmet (with chin strap securely buckled), elbow and knee pads. A helmet may be legally required by local law or regulation in your area. A long-sleeved shirt, long pants and gloves are recommended. Always wear closed shoes (preferably lace-up shoes with rubber soles), never ride barefoot or in sandals or thongs, and keep shoe laces tied and out of the way of the rubber wheels, motor and drive system.

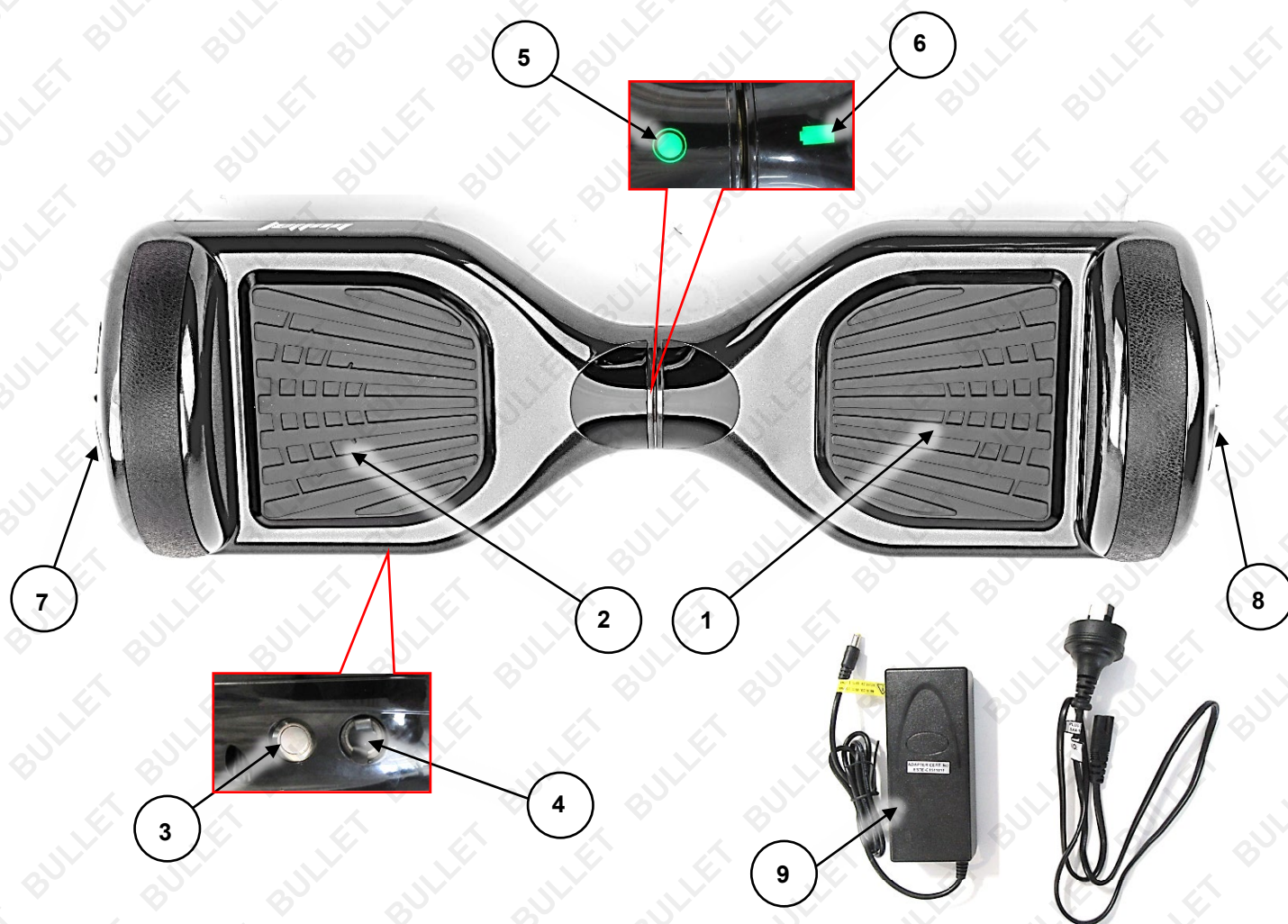
## **USING THE CHARGER**

- The supplied charger should be regularly examined for damage to the electrical cord, plug, enclosure and other parts. If any damage or malfunction occurs, do NOT use the charger again until it has been repaired or replaced.
- Use only with the recommended charger.
- Use caution when charging.
- The charger is not a toy, and should be operated by adults only.
- Do not operate the charger near flammable materials.
- Do not clean or perform any maintenance on the product when it is being charged.

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## Parts Identification



No.	Name	No.	Name
1	Right Foot Sensor	6	Battery Indicator
2	Left Foot Sensor	7	Left Rubber Wheel / Motor
3	ON / OFF Switch	8	Right Rubber Wheel / Motor
4	Charging Port	9	Battery Charger and Cables
5	"Balance" Indicator		

# Operation



Charge the battery prior to use. • Make sure that the power is turned OFF when the scooter is not in use. • **Always wear a helmet and appropriate safety equipment whilst riding.** •

Read, understand and follow all safety recommendations before riding. • **Monitor battery usage when in use, the scooter may suddenly slow down as the battery charge reduces.**

## Riding Guidelines

- Range is dependent on several factors, including rider weight, riding style (constant speeds are most "economical"), temperature (higher temperatures are less "economical"), and terrain (uphill is least "economical").
- Bending your knees slightly and relaxing your legs while riding helps you maintain balance.
- Ensure that your feet are planted centrally on the sensors while riding.
- Limit riding speed to manageable levels to ensure you can stop in time for your safety and that of others.
- Focus your attention on riding. Do not do other things, such as using a phone, listening to music etc.
- Do not exceed the maximum speed (approximately 15km/h).

## Mounting / Dismounting

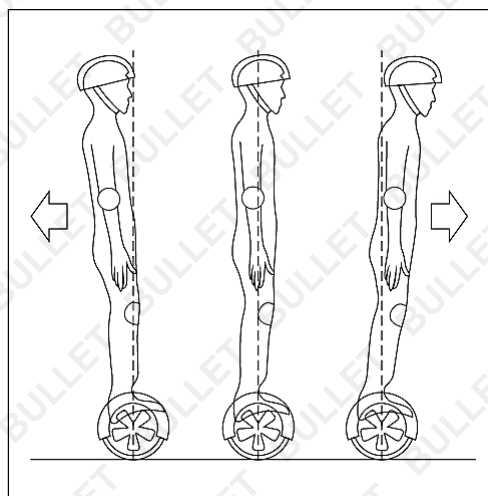
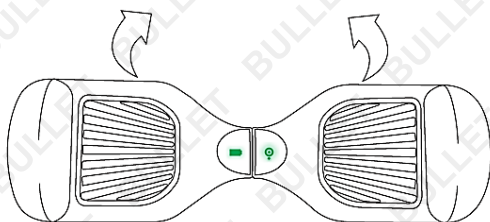


Wait for the "balance" indicator to illuminate before fully mounting the scooter. When illuminated, the indicator means that the scooter is balanced sufficiently so that neither rubber wheel is rotating. • If necessary, and particularly for beginner users, have someone assist when mounting and dismounting.

- Start the scooter by pressing the ON / OFF switch. When ON, the scooter emits a beep and the battery level lamp illuminates, showing the current battery charge state.
- To mount, place one foot centrally on a foot sensor and hold steady – the balance lamp should illuminate and a beep sounds, then quickly step up and place your other foot centrally on the other foot sensor. Once on the scooter, relax your body and stand upright to maintain balance.
- To dismount, come to a complete stop (this means the scooter will be in a "balanced" state), then gently step one foot from the scooter and onto the ground, followed by the other foot.

## Riding

- Once mounted, lean your body **slightly** forward to move forward, lean **slightly** back to slow down forward motion or to move backwards from a standstill. More lean has the effect of increasing acceleration in the direction of lean.
- To turn, **slightly** increase weight toward the direction you want to turn. This has the effect of inclining one side of the scooter more than the other. That is, increase weight on the right foot to turn right; increase weight on the left foot to turn left.





## Protective Functions

If a malfunction is detected, the scooter may shut-down, accompanied by "beeps", to prevent use until the problem is rectified. For example, if the scooter is damaged in a such a way that the left / right parts of the board are misaligned, it will be necessary to re-align the boards before the scooter can be used again.

Protective functions may be activated when:

- A "balanced" state cannot be attained.
- The battery voltage/power is too low.
- The battery is being charged.
- The left / right foot boards are misaligned.
- Speed is excessive.
- A rubber wheel is obstructed (unable to rotate).
- The self-balancing scooter's body will shake back and forth for more than 30 seconds.
- Alarm light will turn on when the system goes into the protection mode. In this process, the buzzer will give out an alarm frequently.
- Scooter inclination exceeds 35°.
- Motor loads become excessive (for example, riding uphill).
- If the self-balancing scooter is exerting a lot of effort (for example, climbing a long, rough slope), it will shut down automatically after 15 seconds.

# Maintenance and Storage



Make sure that the power is switched OFF before performing any maintenance activities. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools, knowledge or experience for, have the unit serviced by a service centre or qualified technician.

## Cleaning and Storage

- Clean the scooter using a soft dry cloth only.
- Do NOT use chemicals, solvents, abrasives or any form of liquid to clean the scooter as this may damage the electronics or surface finishes.
- Store the scooter indoors in a cool, dry place. It is recommended to keep it covered when not in use.
- Store at temperatures between -23°C (-10°F) and 45°C (113°F). Avoid storage areas that are subject to large temperature variations.
- When storing for extended periods, discharge and recharge the batteries every 3 months.

## Battery Care and Charging

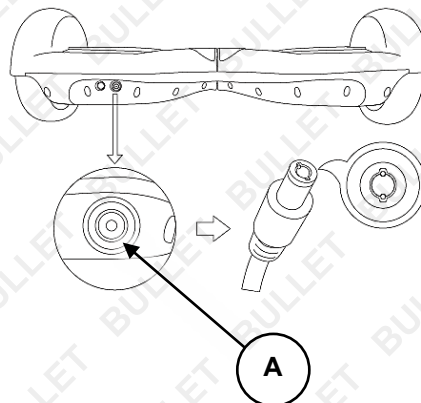


Never modify the electrical system. Alterations could cause a fire resulting in serious injury and could also damage the electrical system. • Charge with the supplied or recommended charger only. Use of the wrong charger could cause a fire or explosion resulting in serious injury. • Battery charging must be performed by adults only. Never allow children to charge the battery. • Ensure the voltage and frequency of the charger is compatible with mains electrical supply. • Use the battery charger in dry locations only. • The battery must be charged before first use. • Battery charging generally takes 2 to 3 hours from discharged to fully charged.

### Battery Charging

The battery indicator illuminate red when the scooter requires charging. Do not continue to ride until the battery is fully charged.

1. Ensure that the scooter is OFF.
2. Insert the battery charger connector into the charger port (A) under the left foot board.
3. Connect the charger to a standard 240VAC electrical supply and switch it ON. When charging, the indicator on the charger illuminates red. The charger may feel warm during charging – this is normal and not a cause for concern.
4. When charging is complete, the indicator on the charger illuminates green. Disconnect the charger from the electrical supply and unplug the battery connector from the charger port.



### Battery Disposal

- The batteries are lithium-ion. They must be recycled or disposed of it in an environmentally responsible manner.
- Never dispose of a battery as normal rubbish.
- Never burn or dispose of batteries in a fire.

# Troubleshooting

Malfunction	Possible Cause	Possible Solution
<i>Scooter not running or was running but suddenly stopped</i>	<ol style="list-style-type: none"> <li>Under-charged battery.</li> <li>Dead battery.</li> <li>Battery charger not working.</li> <li>Motor electrics or switches damaged / faulty.</li> </ol>	<ol style="list-style-type: none"> <li><a href="#">Charge battery</a> and ensure battery charging and care procedures are followed.</li> <li>Battery no longer holding charge or serviceable. Have battery checked by authorised service centre.</li> <li>Have charger professionally checked. If not working – replace.</li> <li>Seek diagnosis and repair from authorised service centre.</li> </ol>
<i>Short run time</i>	<ol style="list-style-type: none"> <li>Under-charged battery.</li> </ol>	<ol style="list-style-type: none"> <li><a href="#">Charge battery</a> and ensure battery charging and care procedures are followed.</li> </ol>
<i>Scooter runs sluggishly.</i>	<ol style="list-style-type: none"> <li>Unsuitable riding conditions.</li> </ol>	<ol style="list-style-type: none"> <li>Vehicle overloaded or used on unsuitable surfaces. Unload vehicle (100kg max.) and/or use on suitable surface.</li> </ol>
<i>Scooter turns on and off intermittently.</i>	<ol style="list-style-type: none"> <li>Main body electrics or switches damaged / faulty.</li> </ol>	<ol style="list-style-type: none"> <li>Seek diagnosis and repair from authorised service centre.</li> </ol>
<i>Scooter will not "balance"</i>	<ol style="list-style-type: none"> <li>Foot boards out of alignment.</li> </ol>	<ol style="list-style-type: none"> <li><a href="#">Follow procedure here</a>. If this fails, seek diagnosis and repair from authorised service centre.</li> </ol>
<i>Scooter beeping/will not move.</i>	<ol style="list-style-type: none"> <li>Requires recalibration</li> </ol>	<ol style="list-style-type: none"> <li>1. Locate the power button and turn it OFF.</li> <li>2. Line up the foot pads so they are level and straight.</li> <li>3. With the power OFF, Press and hold the ON button for 10-15 seconds until the lights flash and the board beeps (The board is now calibrating).</li> <li>4. Release the power button and leave it level for another 10 seconds.</li> <li>5. Turn the unit OFF and back ON. Recalibration process is now complete.</li> </ol>

## Specifications

<b>Battery Type</b>	Lithium-Ion
<b>Charging Time</b>	Approximately 2 to 3 hours
<b>Minimum / Maximum Rider Weight</b>	Minimum = 20kg / Maximum = 100kg



**Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death, consult the points below and additionally, the information available at [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

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| <ul style="list-style-type: none"> <li>• Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.</li> <li>• Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).</li> <li>• Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.</li> <li>• Ensure all possible users of the product have completed an industry recognized training course before being given access to the product.</li> </ul> | <ul style="list-style-type: none"> <li>• The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third-party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.</li> <li>• This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example), there is always a small chance of technical issues that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.</li> <li>• If this item has been purchased in error after considering the points above, simply contact the retailer directly for details of their returns policy, if required.</li> </ul> |
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