

STRB

REPORT

PRODUCED BY
STREET SAW™
HOVERBOARDS WITH ATTITUDE

YOUR GUIDE TO

STYLE & SAFETY

ON A HOVERBOARD

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© 2016, All Rights Reserved First edition by Daniel Moravec (StreetSaw Hoverboards)

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INTRODUCTION

Rarely is anything “safe” AND “cool”— *safety almost always meant forfeiting style.* From bikes to skateboards, motorcycles to Vester scooters, it’s usually one or the other: be safe or look stylish. The more safety features you add, the more style points you seem to lose...

All that changed with the hoverboard. The marriage of digital-age technology to cutting-edge mechanics and engineering came with another harmonious union: **style AND safety!**

So, how does a safer hoverboard get me looking cooler?

B-R-B.

And no, this doesn't mean I'm going to "be right back." B-R-B stands for the 3 crucial things a hoverboard needs to keep you safe as well as stylish:

- **Balance**
- **Responsive**
- **Battery**

At Streetsaw, we don't want to just sell you a hoverboard. We want to educate you about hoverboards, so you can rock **STYLE and SAFETY.**

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BALANCE

Congratulations! You finally have in your hands the item you wanted most—the hoverboard! Now it is time to show your friends a few tricks. You may also want to be the first in your friends' circle to showcase a few tricks. Wait no more! There are a few hoverboard tricks that can be easily learned at home or in the driveway.

Before you learn the tricks, note the following:

- **Your safety must be paramount. You should always wear helmet, elbow pads and heavy duty gloves. Wearing knee pads are highly recommended.**
- **Flat shoes should be your choice of foot-**

wear. This will maximize the flexibility of your foot.

- Practice in an open area until you reach the needed skill level. You must know how to move forward and backward. You must be excellent at turning, stopping and getting off platform securely and safely.
- You should pay a close attention to the ground. Ensure that it is level. It is acceptable to have small slopes. Do note that any incline results in noticeable balance challenges.
- When riding on any unfamiliar terrain, you should slow down. Learn the technique of handling your self-balancing scooter on a particular terrain prior to accelerating your scooter to full speed. You should never allow the hoverboard to leave the ground—meaning no jumping off stairs. This could make your hoverboard lose its balance and

you could be seriously injured.

- **The StreetSaw hoverboard is constructed to function as supplementary transportation. If you ride on uneven road surfaces, your speed may significantly decrease.**
- **If you are still developing your skills as a rider, avoid any danger to yourself by steering clear of obstacles and pedestrians. When you pass through any doorway, direct the hoverboard to the center of that door and significantly decrease the speed.**

AMAZE THEM WITH PERFECT BALANCE

- **Turn on your self-balancing hoverboard and place one foot on the correct side of board. The principal trick is to make sure that the foot you put first on board is level. It should not be angled backward or forward. This**

will keep that wheel in place and steady too.

- **Once your first foot is resting on your board and the scooter is level, it is then the correct time to place your remaining foot on the scooter.**
- **Once you have both feet on the hoverboard, and feeling stable, lean forward a little and angle feet a little downward to start the rolling. Do remember that you may want a few minutes to be comfortable and stable.**
- **If you want to reverse, angle both your feet slightly backward and lean back a little. To stop the hoverboard, angle both your feet slightly backward and lean forward a little.**

CLIMB THAT ELEVATION

Contrary to perception, riding up elevation can be a tough thing to do on a hoverboard. Most

riders can climb a maximum of one and half inches. You can however climb much more. Yes, you can get on the curbs in style!

The process to climb is not difficult. You just need a lot of practice.

METHOD ONE

- **Lean your chest forward. It will help if you accelerate and build speed over a little distance away from the curb. You should lean forward and approach the curb at the ideal speed.**
- **You should be going fast while moving towards the curb. Moving slow means your self balancing scooter will not have adequate momentum to ascend it.**

METHOD TWO

In this method, you can use one foot at a time. If you want to do this:

- **Climb the curb by using first your dominant foot.**
- **When you have one foot at top of curb, take a 180 degree turn. Roll other foot over curb.**

FITTING IN SMALL SPACES

The technique is much simpler and also involves a lesser amount of risk. There is no requirement to build speed prior to approaching the curb.

Note that the self balancing scooter is about two feet in width and not sufficiently flexible to go through tight spaces. A way exists, however, through which you can move through the small spaces without falling from the hoverboard.

The trick is extremely useful when you want

to *display your skills* in hoverboard riding. It becomes particularly handy when you race through obstacle courses. To do this:

- **You should turn sideways. It is your first move.**
- **Create “S” move with the self balancing scooter. Do this by moving a little forward and then backward. You must do one foot at one time.**
- **Continue to do this repeatedly until you pass through that small space. Think of your hoverboard as a snake and how it would behave in such a constricted space.**

SPINNING

It is one of most impressive tricks you can do on a hoverboard. The stunt never fails to turn heads and you will get a lot of admiring glances if you can pull it off. Many among the au-

dience may even think that you are a professional in this sport!

SPIN RIGHT

When you want to spin to the right, tilt your right foot down right foot but leave your left foot flat. As you lean forward your right foot, the spin starts. Your spin becomes quicker the more you lean your right foot. If you do it correctly, one foot will be flat and the other will be tilting forward.

SPIN LEFT

When you want to spin to the left, simply tilt forward the left foot. Leave the right foot flat. When you want to decelerate the rate of spinning, simply tilt backward your dominant foot. In case you are spinning to the right, your right foot will be the dominant foot.

SPIN WITH A SINGLE FOOT

This tip is similar to the previous one—but you need to add a few steps more. Other than the forward tilting of one foot, just squat down and then lift other foot. If you need support, place hand on the hoverboard's other side. In case your spin is to the right, tilt forward the right foot. Lift the left foot. Place left hand on left rim of your self balancing scooter.

Do remember that different people learn at different rates and there is no need to be frustrated if you find it hard to master these moves. You should keep trying until you perfect them. You can also invent a few moves yourself!

3

RESPONSIVE

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4 BATTERY

It is simple to identify whether a Samsung marked hoverboard battery is actually from the company or not. The first thing to note is that the label does not matter. There is a good reason for this: custom rules and shipping rules stipulate that labels affixed on hoverboard batteries must be replaced by shipping agents.

The captive power systems of hoverboards are the same as smartphones, laptops and tablets. These devices are powered by lithium-ion batteries. **The embedded software prevents the batteries from being over-charged** and consequently saves the rider from any harm.

The chargers which power up the hoverboards may potentially damage the battery cells in the event they are found to be defective. The same result could be obtained if they are kept charging for more time than required. It is no wonder that experts recommend not to leave any hoverboard unattended while it sucks up power. ***Unplug the device as soon as it is 100 percent charged.***

Hoverboards get tortured during use. Since the batteries are kept beneath the footboard, they will be stepped on and banged on during every ride. The battery could thus be damaged.

FINE PRINT

The battery fitted to the hoverboard unit cannot be labeled as Samsung manufactured as these were not manufactured by the Korean company. Samsung only manufactures the battery cells. These cells are then placed into

the Samsung battery packs.

It is clear that even if you see a Samsung label, just ignore it. The information is not true.

Each hoverboard battery packs in 22 cells and 18,650 Lithium series and parallel battery cells. The standard is 36V, 4.4 Ah.

It is not possible to determine the quality of the battery based on the printed information on the label or just by cursory check of the pack. There is only one method to do this. It involves opening the pack and checking whether there are 18650 cells present within it.

In case the cells are made by Samsung, each cell will have a logo of Samsung company and there will be a series number printed clearly. The logo and the number will be instantly noticeable.

IT'S WORTH YOUR TIME

There is a good reason to go all for the trouble to find out whether the battery cells are genuine or an inferior rip off. If it is the second, then **you may suffer accidents**. Fake battery cells appear to contain sand in them. These comes off and accumulates on the table or on the floor when you examine the battery cell. These kind of batteries are extremely dangerous in high voltage situations—such as when charging. They are also dangerous when short-circuited.

It is not expected that factories will use high quality circuits in a pack if they already use lower quality and fake cells. These batteries have zero protective function. They also give low performance when used.

Do know that **it is inadvisable to go through**

the battery innards if the unit is working properly. This operation should ideally be conducted by professionals. There is a good chance of the pack being damaged if this is done incorrectly. Needless to say, **the pack cannot be used again.**

It is common knowledge that a majority of hoverboard manufacturers may not use original or genuine Samsung batteries. However, they use the cells made by Chinese companies. The quality of such products are far inferior in comparison with the Korean batteries. Still, if used correctly, there may be no accidents. Customers must use them as instructed in the manual sheet.

It is important that you buy genuine batteries only from the manufacturer or the authorized retailer. Fitting **high quality batteries greatly reduces danger.** Premium quality batteries are made under strict standard production

procedures.

All units are tested before being sold to any market.

MAKING THE SELECTION

The charger should have a UL certificate number printed on the label. Alternatively, there could be other certificates. FCC and ROHS are examples of other certificates. Note down the certificate numbers and verify them through the official website of the certificate provider.

Take note that BS and UL certification are the hardest to pass. Only top quality chargers can get this certificate.