

Smart-WHEELZ



User Manual
Smart Drifting Scooter

WARNING

Whenever you ride the SMART DRIFTING SCOOTER (SDS) you risk death or serious injury from loss of control, collisions, and falls. It is your responsibility to learn how to safely ride the SDS in order to reduce this risk. To ride safely you must follow all instructions provided in this User Manual BEFORE operating the SDS.

1. Always check both scooter tires for damage and for proper inflation levels BEFORE operating
2. Always check the entire scooter for loose parts BEFORE operating. If loose parts are found, immediately contact a repair agent
3. Make sure light indicators are working properly BEFORE operating
4. Always wear a helmet when operating SDS. Use an approved bicycle or skateboard helmet that fits properly with the chin strap in place, and provides protection for the back of your head.
5. Always wear proper body safety equipment such as; elbow, knee & wrist pads, other safety gear, etc., when operating the SDS
6. Do not operate the SDS in closed/narrow/tight areas where it may cause bodily or property damage
7. Do not suddenly start or stop SDS
8. Do not operate SDS on steep hills or slopes

9. Always avoid flammable gas and fluids of any kind; avoid steam, liquid, dust or any hazardous waste/ materials while operating SDS
10. Do not attempt to fix, take apart or change any SDS parts; you may risk serious bodily injury
11. Do not operate the SDS if you will lose control, collide or fall; you may risk serious bodily injury
12. The SDS is for personal entertainment purposes only and is prohibited for use as public transportation
13. The SDS is prohibited to be operated as a motor vehicle
14. Children must weigh 44 lbs. (20 kg) or higher and must be supervised by an adult at all times when operating the SDS
15. Do not operate the SDS while impaired or under the influence of drugs or alcohol
16. Do not operate the SDS if you are: pregnant, have any physical disabilities, have a history of or is currently suffering from heart disease or high blood pressure
17. Always comply and follow traffic and pedestrian laws and regulations
18. Be alert at all times and be aware of your surroundings; wear proper vision equipment when necessary
19. Do not use device distractions such as headphones, music or telephones while operating the SDS
20. Do not operate SDS on wet, icy, or snowy covered surfaces; indoors or outdoors
21. Always operate SDS in well lit, open areas; avoid dark and dim areas
22. Avoid rough terrain surfaces covered with glass, stones, branches, gravel, etc., while operating SDS

PREFACE

Congratulations on the purchase of your new Smart Drifting Scooter! The SDS is the standard term used throughout this user manual to refer to the Smart Drifting Scooter. We hope our customers will enjoy the fun and benefits associated with our SMART DRIFTING SCOOTER (SDS)!

ABOUT THIS MANUAL

To learn to ride your SDS, you must read and follow all instructions and warnings in the User Manual. It is important to follow all safety warnings and cautions that appear throughout the User Manual and that you use good judgment when riding your SDS.

THE RISK OF INJURY

The SDS is a self-balancing, personal transporter that uses balancing technology. Balancing technology cannot prevent injury if you do not ride the SDS safely.

WARNING

Whenever you ride the SDS, you risk death or serious injury from loss of control, collisions, and falls. To reduce risk of injury, you must read and follow all instructions and warnings in the user materials.

WEIGHT REQUIREMENTS

1. The maximum weight capacity of the SDS is 300 lbs. (136 kg)
2. The minimum weight capacity of the SDS is 44 lbs. (20 kg)

WARNING

DO NOT OPERATE THE SCOOTER WITHOUT MEETING THESE WEIGHT REQUIREMENTS;
YOU MAY RISK FALLING AND SERIOUS BODILY INJURY

DISTANCE AND RANGES

1. Terrain: Riding on smooth, flat terrain improves range, and riding on hilly terrain and unpaved surfaces reduces range.
2. Speed and Riding Style: Riding at a consistent, moderate speed will increase range. Frequent starting, stopping, acceleration, and deceleration will reduce the range.
3. Tire Inflation Pressure: Riding with tire pressures below the specified limit reduces range and can result in premature tire wear.
4. Rider Weight and Cargo: Lighter riders with less cargo experience better range than heavier riders with more cargo.
5. Temperature: Storing, charging, and riding in temperatures close to the median of the recommended temperature range improves range. Riding in colder temperatures reduces range significantly.
6. Battery Condition: Properly charged and maintained batteries provide greater range. Old, cold, heavily used, or poorly maintained batteries provide less range
7. Wind: Riding with a tailwind increases range. Riding against a headwind reduces range

SPEED

1. The maximum speed of the SDS is 10 km/MPH
2. SDS alarm buzzer will sound when riding SDS over the maximum allowable speed
3. Riding the SDS under the specified speed will keep the rider balanced
4. When the maximum allowable speed is exceeded, drift SDS up to return a safe speed

NOTE:

- Conditions may cause the Speed Limiter to activate when you are traveling at less than the maximum speed allowed for your operating mode include:
 - Riding up or down a steep hill
 - Riding on bumpy terrain
 - The first few seconds after you power on and step on the SDS
 - Low Battery charge
 - Batteries that are too hot or too cold
 - Riding down a hill with fully charged Batteries

WARNING

Read and follow all the instructions in the User Manual about the speed limitations

BATTERY USE

1. No assembly or installation is required for the battery; the battery will completely inserted into the SDS straight from the manufacture.
2. The battery will be fully charged and the SDS is ready for immediate use

BATTERY PARAMETERS

WARNING

Failure to charge the Batteries could result in damage to the Batteries. Left unplugged, the Batteries could fully discharge over time, causing permanent damage.

1. Charging times vary depending on the following:
2. Amount of charge already stored in the batteries—the lower the battery charge Level is, the longer it will take to complete the charging process.
3. Temperature of the Batteries—Batteries that are too hot or too cold may not charge or may take much longer to charge. Batteries charge most efficiently when they are close to the center of the recommended charging temperature range. See “battery parameters” diagram above
4. If storage temperature is below 32° F/0° C, do not charge your batteries. Instead, bring them into a warm (above 50° F/10° C) environment for charging. Doing so will ensure optimal battery life and performance.

WARNING

DO NOT ATTEMPT TO REPAIR OR REPLACE BATTERY, CONTACT THE REPAIR AGENT

BATTERY CHARGING

WARNING

Do not insert the Power Cord plug if the Charge Port, Power Cord, or AC Power outlet is wet.

To charge the battery

1. Put your SDS in a clean, dry place, within the recommended charging temperature range.
2. Verify that the Charge Port, Power Cord, and AC Power outlet are clean, dry, and free of debris.
3. Plug one end of the Power Cord (provided with your SDS) into a grounded AC outlet (100V–240V; 50Hz–60Hz). The Power Cord should be properly grounded
4. Plug the other end of the Power Cord into the Charge Port located on the SDS (next to power button).
NOTE: you have the option to securely insert power cord into the charge port by turning the power cord clockwise and tightening on to the cap threads
5. Verify that the two Charge Indicator lights illuminates to confirm the battery is charging. **NOTE:** red light indicator means the battery is charging. Green light indicator means the SDS is fully charged and is ready for use
6. It takes approximately 2 hours for the battery to fully charge

NOTE:

The SDS charging system automatically prevents overcharging and will auto shut off when completely charged. Plug your SDS into a grounded AC power outlet when it is not in use. However, If you do not plan to use it for an extended period of time, visit your SDS every month and remove and reinsert the power cord to ensure the charging system is working properly.

RIDING YOUR SMART DRIFTING SCOOTER

This section describes how to ride the SDS. It discusses riding for the first time and gives guidelines and helpful hints for all rides. Follow these steps to learn to ride your SDS. It is important that you practice riding in a controlled, familiar environment until you are comfortable using your SDS.

Before riding, make sure your SDS is assembled and fully charged. Inspect your SDS before each use. Do not ride if any part is loose, damaged, or if the tires are not properly inflated.

RIDING FORM

Your posture and stance affect your ability to ride safely:

1. Be alert. Scan both far ahead and in front of the wheels—your eyes are your best tool for safely avoiding obstacles and slippery surfaces.
2. Keep a firm grip on the handlebar, your legs loose, and knees and elbows bent. This helps you maintain your balance over rough terrain.
3. Keep your feet centered on the Mats.
4. Practice controlled stopping.

RIDING YOUR SMART DRIFTING SCOOTER

AVOIDING HAZARDS

The SDS is highly maneuverable and allows you to easily navigate around obstacles. However, to prevent the loss of traction, you must always be careful when riding and learn to identify and avoid slippery, icy, or wet surfaces, loose materials (sand/gravel), steep slopes, and obstacles. Stop and step off the SDS and move the SDS over the unsafe surfaces or terrain; do not ride over unsafe surfaces while riding SDS.

AVOIDING SLIPS

The SDS tires must be able to grip the ground for the machine to stay upright! Slips occur when the tires lose 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 tires to lose traction.

1. Avoid abrupt maneuvers, such as fast stopping or starting.
2. Avoid riding on slippery surfaces such as snow, ice, wet floors, wet grass, or any other surface that might cause slipping.
3. Avoid riding over loose objects or materials such as small branches, litter, or small stones.
4. Use caution when riding over any terrain change such as pavement to grass, or over a threshold or speed bump.
5. Avoid riding on steep slopes. Maintain tire contact with the ground

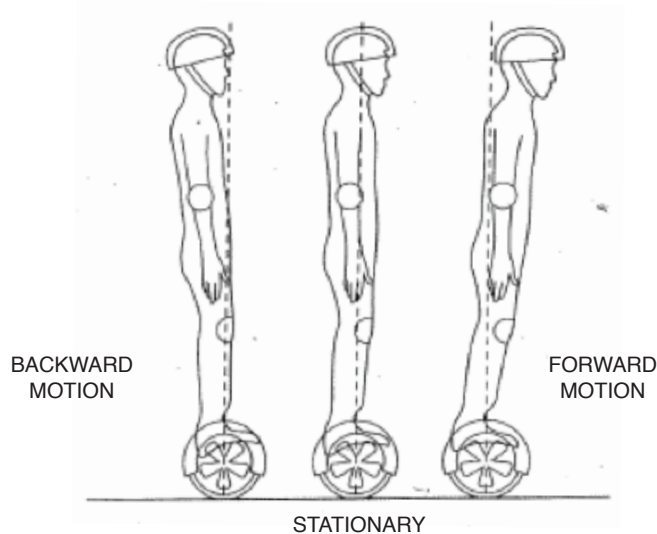
STEP 1: PREPARING FOR YOUR RIDE

To prepare for your first ride:

1. Select an appropriate area for your first ride. This area may be indoors or outdoors and should measure at least 12 feet by 12 feet (4 meters by 4 meters). It must have a level, smooth riding surface with good traction and should be free of obstructions and away from vehicles, bicycles, pets, small children, and other distractions.
2. You will need a spotter who has studied all the instructions and warnings in this manual to help you and assist you with the instructions.
3. Put on your helmet and fasten and adjust the chin strap in accordance with the helmet manufacturer's instructions.
4. Move the SDS to the center of the riding area.
5. Familiarize yourself with the icons that may be displayed on the control board

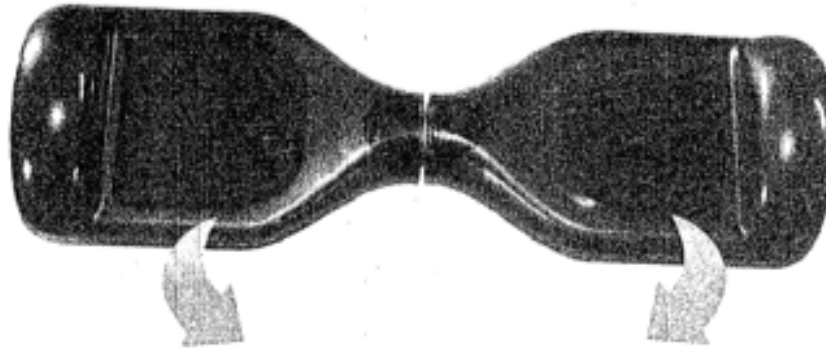
STEP 2: RIDING THE SDS FOR THE FIRST TIME

1. Power on the SDS by pressing the power button located on the front of the SDS, a light indicator & beeping noise will occur to indicate successful turn on activation
2. With assistance from your spotter, place one foot on the center of the foot mat, then placing second foot on the scooter until you have reached perfect balance
3. While maintaining balance, slowly tilt both feet forward on the SDS to activate forward motion; similarly, tilt feet backwards to activate backward motion of the SDS - **See diagram below:**



STEP 2: RIDING THE SDS FOR THE FIRST TIME

4. TURNS: To turn left or right, tilt RIGHT FOOT forward to turn LEFT – or – tilt LEFT FOOT ONLY forward to turn RIGHT. NOTE: the other foot will remain stationary. **See diagram below:**



The right foot
forward to turn left

The left foot
forward to turn right

STEP 2: RIDING THE SDS FOR THE FIRST TIME

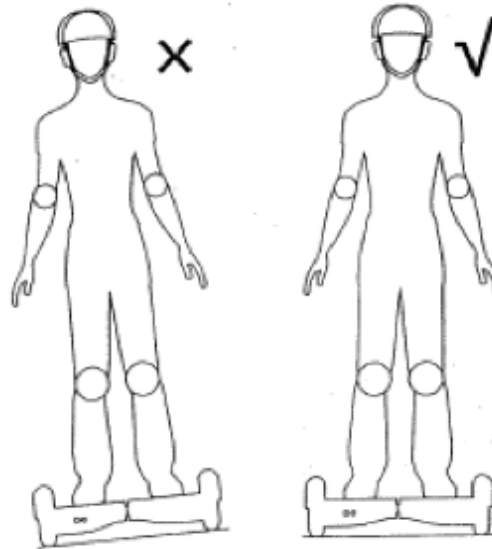
WARNING

DO NOT distribute body weight to one side

DO NOT RIDE SDS on tilted or unlevel surfaces

This can lead to loss of balance causing serious injury or may cause the scooter to not operate properly.

See diagram below:



DRIVING PRACTICE

Once you become skilled using the SDS, you may begin to use outdoors.

WARNING For your safety please make sure:

1. To wear comfortable casual or flat sportswear shoes
2. Practice in an open area without obstructions
3. Make sure the ground surface is flat and level
4. Avoid heavily populated areas

SAFETY ALERTS

In the event the SDS is not being operated properly, it will indicate this by blinking lights and sounding alarms or system shutdown. The following will improper uses will trigger the system alarms:

1. Moving forward/backward more than 10 degrees too fast
2. The battery voltage is low
3. The SDS is charging
4. The SDS is operating on prohibited surfaces
5. Exceeding speed limit
6. Loss of battery
7. Continuous rocking back and forth within 30 seconds
8. Abruptly moving forward or backward more than 35 degrees
9. Tire rotors will lock if in a stop position for more than 2 seconds
10. Excessive battery loss after 15 seconds of continuous climbing such as a steep hill

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