



DRIIFT

PEDAL-ASSISTED BICYCLE



OPERATION MANUAL
H1-CZR28



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www.Hover-1.com

HELMETS SAVE LIVES!

Always wear a properly fitted helmet that complies with CPSC or CE safety standards when you ride your bicycle.



Correct Fitting:

Make sure your helmet covers your forehead.



Incorrect Fitting:

Forehead is exposed and vulnerable to serious injury.

RIDE WITH CAUTION!

WARNING

As with all mechanical components, the Hover-1 Drift is subjected to wear and high stresses. Different materials and components may react to wear or fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail possibly causing injuries to the rider. Any form of crack, scratch or change of coloring in highly stressed areas indicate that the life of the component has been reached and it should be replaced. Do not ride in an abusive manner.

CAUTION

In this manual, the CAUTION sign indicates a hazardous situation which, if not avoided, can cause minor or moderate injury.

WARNING

In this manual, the WARNING sign indicates a hazardous situation which, if not avoided, can cause death or serious injury.

WARNING

Great care should be taken when adjusting the bike hardware on the Hover-1. Drift If you do not understand how to adjust the bicycle hardware, please contact your local bike specialist.

DO NOT RIDE YOUR HOVER-1 Drift WITHOUT ALL HARDWARE SECURELY FASTENED.

INTRODUCTION

This operation manual is designed to give you the information you need for the safe operation and maintenance of your new Hover-1 Drift (referred to as "Drift" from here on). Please read it thoroughly before riding your Drift.



WARNING

Make sure you read this complete manual before riding your Drift. Failure to do so, or failure to follow its guidelines could lead to serious injury or death.

The Drift is a pedal-assisted bicycle. Our technology and production processes are developed with strict testing for each Drift. Operating the Drift without following the contents of this manual may lead to damage to your Drift, or bodily injury.

PACKAGE CONTENTS

- Hover-1 Drift Pedal-assisted Bicycle
- Charge Cable
- Operation Manual
- 2 Battery Pack Locking keys

The Drift is not a toy. Do not ride the Drift with reckless abandon and always keep in mind the safety of you and of those around you.

Your Drift's serial number is stamped respectively on steering column and battery column. Record the serial number in this manual in the event that your Drift is lost or stolen.

IMPORTANT

1. Even if you have ridden a bicycle for years, it is important for all riders to read this operation manual thoroughly before riding on the Drift.

- This manual contains detailed information and useful suggestions about your Drift.
- Make sure that you understand the proper use, maintenance, and care of the electrical system and all other components of the of your Drift.
- The user of this Drift acknowledges both an understanding and an assumption of the risks involved in cycling and cycling with cargo.
- Children incapable of riding a bicycle on their own or under the age of 6 should not ride on the Drift, unless it's equipped with an approved Child Seat accessory.
- Children should not ride as passengers without an adult operating the Drift.

2. Think about safety. Your safety and that of others is very important.

- Do not ride the Drift without the battery pack. The battery pack must be on the Drift while riding or else the Drift's motor and safety lights will not function when needed.
- Do not misuse the Drift by riding it without a seat. The Drift has a quick release on the seat post. If the seat gets stolen, it may lead to hazardous situations when riding on the pedal-assisted bicycle without a seat.
- Standing, kneeling, or sitting backwards or sideways (both legs on the same side of the Drift) on the seat while the Drift is moving or stopped can easily result in bodily harm, loss of control of the Drift, destroyed rims, a destroyed bicycle frame, or worse.

- Always check your Drift for normal operation, loose parts and defects before riding. If you find any problem, contact the customer support center for repairs before riding.
- Be aware that other road users do not expect that a pedal-assisted bicycle can ride faster than a standard bicycle. Riding faster also increases the risk of accidents.
- Do not ride aggressively. Refer to the "Operation Conditions" section of this operation manual for more detailed information.
- Do not over load the cargo rack. The maximum load weight for the cargo rack on the Drift is 33.07lbs.
- Double check your load for security and stability.
- Make sure no straps are dangling where they could get caught in the wheels - No bags, boxes or any items are in a position where they could be caught in the spokes.
- Check that your brakes are well adjusted.
- Check to see that your wheels are securely fastened and that your helmet is securely fastened.
- Check to see that the frame and all components are cracked or broken. If at any time you notice a crack or bend in your bike, stem, forks, or bars of your Drift, stop riding immediately and contact the customer support center.

3. The electric system of your Drift needs special attention and care.

- Do not clean your Drift with a high pressure washer. High pressure water might enter through connectors or other parts of the electric system and could cause damage or cause the electric system to stop working correctly.

Instead, clean your Drift with a damp rag and gently wipe the frame and other dirty areas, while avoiding any parts of the electrical system. Any water

damage to the electrical system will void the warranty.

- Protect the battery docking connector. When the battery pack is removed, apply a protective cover to prevent corrosion and damage to the connector.

4. Be careful when transporting your Drift.

- The Drift is heavier than a standard bicycle. If transporting on a vehicle, be aware of the maximum load capacity of the vehicle's roof, towing hook and/or of the preferred bicycle carrier.
- Remove the battery pack from the bicycle and store it elsewhere in the vehicle during your transport.
- Always respect local laws about transportation of an electric bicycle.
- Lithium battery packs of this size and power are considered 'Dangerous goods, class 9', when transporting, regulations may restrict the transport of separate lithium batteries in some places.

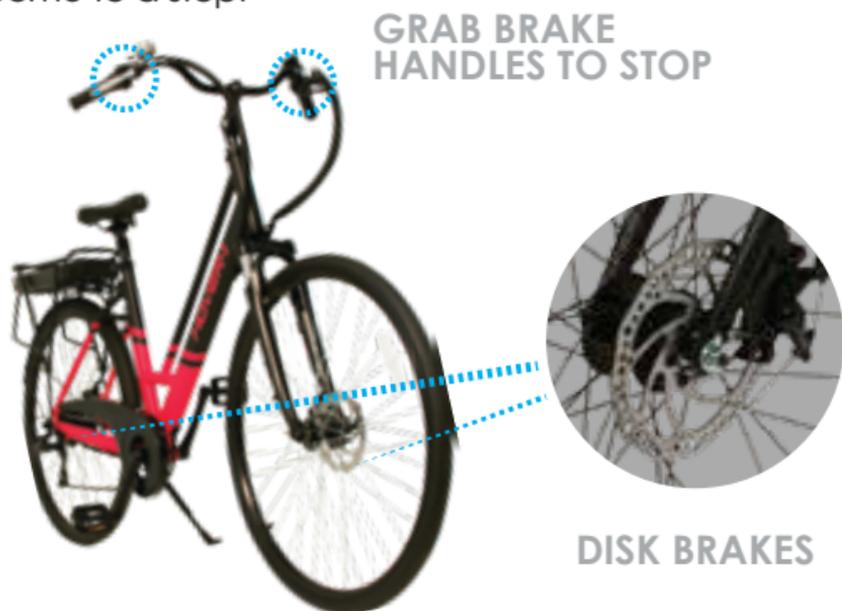
The restrictions apply to most airlines and some trucking companies. But, if you intend to ship or travel with your complete Drift (with installed battery pack), the regulations are less strict. Make sure to check ahead with your airline or carrier, before booking your trip, if it is allowed to travel with your complete Drift.

SAFETY PRECAUTIONS

- If the Drift is not to be used for an extended period of time, you may need to recharge the battery every 2 months to maintain the battery life.
- Ensure that the screws on the front and back tires are locked firmly before each ride.
- Check to ensure the tires are not worn.
- Check to ensure all connections are maintained on your Drift.
- Ensure the brake cables are well lubricated. It is suggested you lubricate brakes every 6 months.
- Ensure all gears move smoothly.
- Make sure there are no frayed cables, loose connections, missing fasteners or axle/lug nuts.

CHECKING BRAKES

Your Drift is equipped with front and rear disc brakes for maximum reliability. A cable connects the brake handle to your brakes. Applying hand pressure to the brake handles will cause the brake pad to apply pressure against the brake disc, slowing the down wheels. The more hand pressure applied to the brake handle, the faster the Drift will come to a stop.



When brakes are not applied, brake pads should be 1 - 2 mm from the rotor. If brake pads are too close to the rotor, the brakes are too tight. The brake pads should be in line with the rotor surface.

Bicycles equipped with disc brakes will occasionally make a slight scraping noise when the wheels are turning without the brakes being applied. This is normal.

The rear brake should always be applied before and while the front brake is applied. Applying only the front brake to slow or stop at high speeds may result in the rider being ejected from the seat and potentially forward over the handlebars. It is best to apply even pressure to both brake handles when slowing or stopping.

Pull the lever to ensure the brake moves freely and stops the Drift. If the lever can be pulled flat to the handlebar, the brake is too loose.

Brakes will wear down over time. If the brakes do not perform well, they may need to be adjusted or to have the pads replaced. To have your bicycle hardware fitted and maintained contact your local bike specialist.

CAUTION

Brake pads and rotors get very hot during use and could burn skin. The edges can also be very sharp and cut skin. Do not touch the brake pads or rotors directly after riding your Drift.

WARNING

Proper use of your brake is vital to ensure safe, efficient stopping. To avoid misuse and potential injury, do not apply sudden or excessive force to your brakes. Apply your brakes gradually and give yourself enough room to come to a complete stop safely.

The first rule in safe riding is to use common sense. The Drift is vulnerable; it cannot protect you in a crash, against impact, or loss of control the way driving a car can. The Drift can tip over sideways or pitch you over the front wheel. It moves faster than a standard bicycle. It does not have bumpers or airbags as a car does.

This section is a guide of safe riding practices for on and off-road operation. Make sure you are using your Drift properly.

Different localities and countries have different laws governing riding on public roads, and you should check with local officials to ensure you are complying with these laws.

Hover-1 is not liable for tickets or violations given to riders who do not follow these regulations.

- For your safety, always wear a helmet that meets CPSC or CE safety standards. In the event of an accident, a helmet can protect you from serious injury and in some cases, even death.
- Obey all local traffic laws. Obey red and green lights, one-way streets, stop signs, pedestrian crosswalks, etc.
- Ride with the traffic, not against it.
- If riding with friends and multiple Drifts, ride in a single file in a straight line.
- Use the Drift's bell to warn drivers and pedestrians of your approach.
- Ride defensively; expect the unexpected.
- Give pedestrians the right-of-way.
- Do not ride too close to pedestrians and alert them if you intend to pass them from behind.
- Slow down at all street intersections and look to the left and right before crossing.
- Obey all traffic signals.

- Always use proper hand signals for turning and stopping. Give signals 100ft before stopping or turning and always return both hands to the handle bars before stopping or turning.
- Watch for cars pulling out into traffic and for the sudden opening of car doors.
- Avoid potholes, drainage grates or other road surface hazards.
- Cross railroad tracks at a right angle.
- Be careful when riding on soft road edges, gravel, sand and uneven surfaces. Ride slowly and avoid quick turns when riding on these surfaces.
- Never hitch onto other vehicles.
- Do not “stunt” ride or race in traffic.
- Do not weave in and out of traffic or swerve from side to side.
- A crash can put extraordinary stress on your Drift’s components, possibly causing them to fatigue prematurely. Components suffering from stress fatigue can fail suddenly, causing loss of control, or serious injury.

CAUTION: RIDING IN WET WEATHER

Brakes do not work as well under wet conditions as they do when dry. It is recommended that you do not ride your Drift in wet weather, as there are electronic components of your Drift that may be damaged if exposed to water.

WARNING

- Wet conditions will require a longer distance to stop. Brake earlier and avoid sudden stops when riding in wet conditions.

If you are riding your bicycle in low-visibility conditions, the Drift’s reflectors will provide some visibility. It is highly recommended that you wear bright, reflective clothing to

WARNING

When you ride in low-visibility conditions such as fog, dusk, or night, you might be difficult to see, which could lead to a collision. Wear bright, reflective clothing when riding in poor lighting conditions.

Think about safety when you ride. You can prevent many accidents if you think about safety. Below is a helpful checklist for Drift riders.

SAFETY CHECKLIST

- Check your Drift before every ride, making sure brakes are operating effectively and everything is in good working condition.
- Do not ride “no hands.” Always keep both hands firmly on the handlebars.
- Do not ride “double” with more than one rider on the seat.
- Avoid riding in large groups, as this can force you to ride too close to other riders, making it difficult to see other vehicles and road hazards.
- Do not ride above your skill level. Ensure you have had enough practice with all functions and features of your Drift.
- Do not ride too fast - with increased speed comes increased risk. If you are moving at a higher speed, small bumps can turn into large impacts, leading to a higher risk of injury if an accident occurs.
- Do not ride with loose objects attached to the handlebars or other parts of the Drift.
- Do not ride your Drift with any pets leashed to your bicycle.
- Never carry other riders or packages as they may obstruct vision or proper control of your Drift.

- Do not ride while intoxicated or while taking medications which can make you drowsy and/or impair your judgment.
- When approaching a turn or descent, decrease your speed.
- Do not abuse your Drift. Always look ahead to avoid and anticipate any upcoming obstacles. The distance of any upcoming obstacles will vary according to your speed.
- Use caution when you encounter road obstacles. If you are going fast, even a small obstacle can create a significant impact to both you and your Drift. If you are unsure about your ability to safely ride over an obstacle, it is best to either ride around it, or stop your Drift, dismount, and walk your Drift around the obstacle.
- The natural tendency of riders is to move where they are looking. Avoid focusing on obstacles, even if you are trying to avoid them. Instead, focus on the part of the road where you want to go.

WARNING

There may be additional risk to injury if you use your Drift incorrectly. This includes, but is not limited to:

- Jumping your Drift
- Riding over debris or obstacles
- Performing stunts
- Riding in off-road terrain
- Riding fast
- Racing other riders
- Riding in unusual manner

The aforementioned examples add stress to each part of your Drift and can lead to long term damage of the Drift. Damage to your Drift can lead to an accident or increase your risk of injury. To decrease your risk of injury, operate your Drift correctly.

CARE & MAINTENANCE

- Do not expose the Drift to liquid, moisture, or humidity to avoid damage to the electrical system.
- Do not use abrasive cleaning solvents to clean the Drift.
- Do not expose the Drift to extremely high or low temperatures as this will shorten the life of the electrical system, destroy the battery, and/or distort certain plastic parts.
- Do not dispose of the Drift in a fire as it may explode or combust.
- Do not expose the Drift to contact with sharp objects as this will cause scratches and damage.
- Do not let the Drift fall from high places, as doing so may damage the internal circuitry.
- Do not attempt to disassemble the Drift.
- Use only the charging cable provided by Hover-1.
- Ensure the bicycle chain is well lubricated for optimal performance.
- To minimize tire wear and for maximum riding safety, comfort and handling, maintain recommended tire air pressure which can be found on the side wall of all tires. Use a reliable tire air pressure gauge to check for proper inflation before every ride. At the same time, inspect tires for excessive wear and cracks. Replace tires if necessary.

WARNING

Avoid using water or other liquids for cleaning. If water or other liquids enter the bicycle, it will cause permanent damage to the electrical system.

MAINTENANCE TIPS

ITEM	MAINTENANCE NEEDED	RATE
Battery	Check if battery is fully charged before riding.	Daily
Appearance	Wash the outer surface area of your Drift to remove dirt and dust	Weekly
Tires	Make sure tires are properly inflated	Weekly
Brakes	Make sure brakes function fully when you clench the brake handles	Weekly
Axles	Check and tighten screws on the front and rear axles	Monthly
Front Fork	Tighten the screw on the front fork and handle bar	Monthly



WARNING

Users who disassemble the Drift without permission will void the warranty.

BATTERY CARE

Maintain the battery pack as instructed in this operation manual. Failure to follow these instructions may result in damage to your battery pack and may require battery pack replacement:

- Fully recharge the battery pack when the battery pack shows a low charge on the controller. The battery pack LED lights up red and beeps to alert the rider to charge the battery.
- Only charge the battery pack with the charging cable provided by Hover-1.
- Do not connect or attach the battery pack to a power supply plug or directly to a car's cigarette lighter.
- Handle your battery pack with care. Do not drop or impact the battery pack. Mishandling of the battery pack could lead to severe damage or over-heating. In an extremely rare case, a battery pack that has been severely impacted or otherwise mishandled could potentially catch fire. If you suspect damage to your battery pack, contact the customer support team for assistance.
- If not in use for an extended period of time, charge the battery pack at least once every 2 months.
- When the battery pack is not in use, store it with a 100% charge in a dry, cool place, between 5°C and 25°C, preferably 5-10°C. Do not store it in places where temperatures get higher than +25°C or lower than 5°C. Avoid extreme temperature changes.
- Do not place the battery pack near a fire, or into direct sunlight. Heating the device and/or the battery can cause additional heating, breaking, or ignition of the battery inside the device.
- Do not continue charging the battery pack if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, rupture, or ignite.

To preserve natural resources, please recycle or dispose of the battery pack properly. This product contains lithium batteries. Local, state, or federal laws may prohibit disposal of lithium batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

WARNING

Failure to follow the safety precautions listed below could lead to serious bodily injury and/or death.

- Do not attempt to modify, change, or disassemble your battery pack/charger.
- Do not allow any liquids on or inside the battery pack/charger.
- Do not use your Drift if the battery pack begins to emit odor, overheats, or begins to leak.
- Do not touch any leaking materials or breathe fumes emitted.
- Do not allow children and animals to touch the battery pack.
- The battery pack contains dangerous substances, do not open the battery pack, or insert anything into the battery pack.
- Please only use the charging cable provided by Hover-1.
- Do not attempt to charge the Drift if the battery pack has discharge or emits any substances. In that case, immediately distance yourself from the battery pack in case of fire or explosion.
- Lithium batteries are considered to be hazardous materials. Please follow all local, state and federal laws in regards to recycling, handling and disposing of lithium batteries.
- Do not expose the battery/charger to extreme weather conditions.

- Do not operate the battery pack/charger if damaged.
- Do not use the battery/charger for any use other than its intended purpose.
- Do not use any third party or unauthorized battery pack/charger on your Drift.



WARNING

SEEK IMMEDIATE MEDICAL ATTENTION IF YOU ARE EXPOSED TO ANY SUBSTANCE THAT IS EMITTED FROM THE BATTERY PACK.

SPECIFICATIONS

Model:	Hover-1 Drift (H1-CZR28)
Max Load:	44-220 lbs (20-100 kg)
Max Speed:	Up to 15.5 mph (25 km/h)
Max Distance Range:	Up to 34.2 miles (55 km)
Max Incline Angle:	15° degrees
Sensor:	Magnetic speed sensor
Frame:	Alloy
Fork:	Zoom Suspension
Cargo Rack Max Load:	33.07lbs (15kgs)
Brake Type:	Front & rear disc brake
Hand Height:	47.24 inch (120 cm)
Tire Size:	28 inch diameter
Tire Pressure:	40psi (280kpa)
Motor:	250W brushless DC motor
Charge Time:	Up to 5 hours
Battery Type:	Lithium
Battery Voltage:	36 V
Battery Capacity:	8.8 Ah
Power Requirement:	AC 100-240V, 50/60 Hz
Net Weight:	52.9 lbs (24 kg)

NOTE: Max speed and max distance may vary depending on, but not limited to: user load, terrain of road, operation temperature, driving habits and environmental temperatures.

HOVER-1 DRIFT DIAGRAM



FEATURES/PARTS

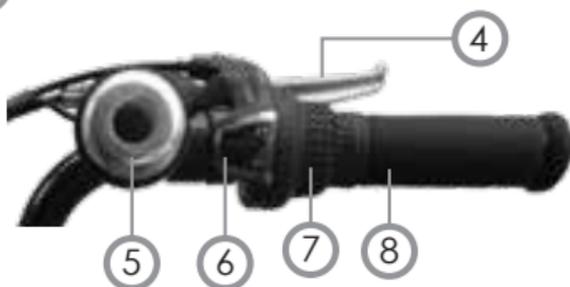
- | | |
|-------------------------|-------------------------|
| 1. Cargo Rack | 8. Front Wheel |
| 2. Battery Pack | 9. Rear Brake & Rotor |
| 3. Locking Battery Dock | 10. Bicycle Chain |
| 4. Seat Quick Release | 11. Kickstand |
| 5. Seat | 12. Pedal & Crank |
| 6. Bicycle Frame | 13. Front Brake & Rotor |
| 7. Handlebars | |

HANDLEBAR DIAGRAM



1. Front Brake Handle
2. Handlebar Grip
3. Throttle
4. LCD Display Panel

4. Rear Brake Handle
5. Bell
6. Gear Display
7. Gear Shifter
8. Handlebar Grip



DISPLAY PANEL



1. POWER BUTTON	Turns Pilot on/off.
2. PEDAL-ASSIST LEVEL INCREASE BUTTON	Increase pedal-assist mode up 1 level.
3. PEDAL-ASSIST LEVEL DECREASE BUTTON	Decrease pedal-assist mode down 1 level.
4. ODOMETER	Displays total trip distance traveled.
5. SPEEDOMETER	Displays current speed in mph.
6. PEDAL-ASSIST MODE	Displays level of pedal-assist mode.
7. BATTERY INDICATOR	Indicates battery level.

NOTE: The LCD display on your pilot can display the following information:

ODO - Odometer
TRIP - Trip Distance

VOL - Battery Voltage
TI - Riding Time

When the LCD display is on, press the power button to cycle through the display information.



8. CONTROLLER ERROR ICON

Indicates error with controller.

9. BRAKE ERROR ICON

Indicates error with braking system.

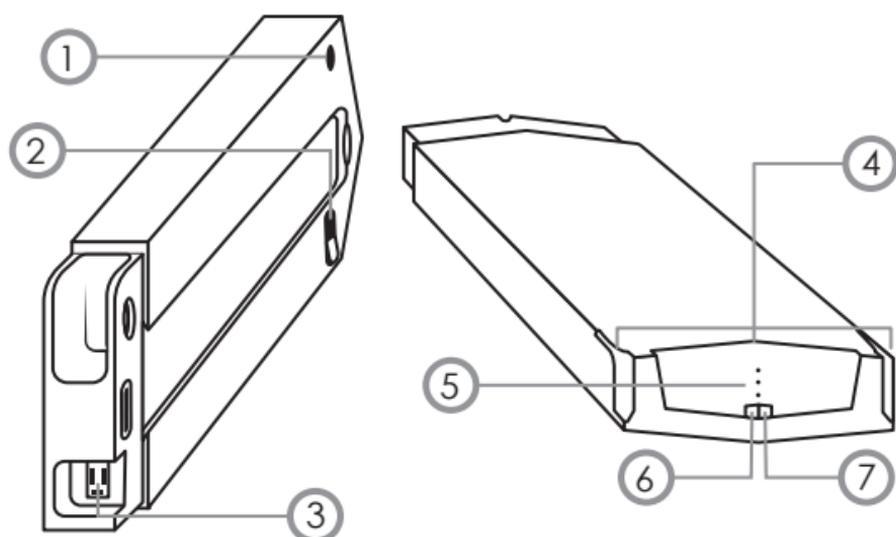
10. MOTOR ERROR ICON

Indicates error with motor.

11. LOW BATTERY VOLTAGE ICON

Indicates battery voltage is low.

BATTERY PACK DIAGRAM



FEATURES/PARTS

1. Charge Port
2. Power Switch
3. Charge Port

4. Brake Lights
5. Battery Indicator Lights
6. Battery Power Indicator Button
7. Brake Light Power Button

LOCKING YOUR BATTERY

The Drift's battery dock comes equipped with a lock and two sets of keys to secure the removable battery pack. To lock the battery in place, simply slide it into place, insert the key in the slot and turn the key clockwise until you hear it click. To unlock, turn the key counter clockwise until you hear the lock release.



TURN THE KEY LEFT TO
UNLOCK THE BATTERY
& RIGHT TO LOCK IT.



CHARGING YOUR DRIFT

CAUTION

Only use the provided charging cable to charge your Drift's battery pack. Using any other unauthorized charger may cause damage to your battery pack and/or .

CHARGING THE BATTERY PACK

- Ensure the Drift is turned off.
- Remove the battery pack from the battery dock.
- Ensure that the charging port is clean and dry.
- Make sure that there is no dust, debris or dirt inside the port.
- Plug the charger into a grounded wall outlet. The charging indicator light ON THE CHARGER will be green.
- Connect the cable with the power supply (100V ~ 240V; 50/60 Hz).
- Align and connect the 1-pin charging cable into the charging port of the battery pack.

DO NOT FORCE OR BEND THE CHARGING CABLE INTO THE CHARGING PORT, AS IT MAY CAUSE THE PRONG TO BEND OR BREAK.

WARNING

Replace a damaged power cable immediately to prevent an electric shock.

- Once attached to the battery pack, the charging indicator light ON THE CHARGER should change to RED, indicating that your device is now being charged.
- When the RED indicator light on your charger turns to GREEN, then your device is fully charged. To stop charging, unplug the charger from the battery pack and from the power outlet.

BEFORE RIDING

WARNING

Any Drift that does not work properly can cause you to lose control and fall. Inspect the entire device thoroughly before every ride, and do not ride it until any problems have been corrected.

DRIFT OPERATION

It is important that you fully understand all elements of your Drift. If these elements are not used correctly, you will not have full control of your Drift. Before you ride fast, or outside of a controlled environment, learn the functions of the various mechanisms on your Drift.

Practice using these elements of your Drift at slower speeds in a flat, open area before taking the Drift on public roads.

PRE-RIDE DRIFT CHECKLIST

Ensure that your Drift is in proper working order each and every time you ride. If a part of the Drift does not function correctly, please contact our Customer Support Center.

WARNING

Do not ride a Hover-1 Drift with a part that is damaged; replace the damaged part before riding.

- The owner shall allow the use and operation of the unit after a demonstration that such operators can understand and operate all components of the unit before use.
- Check with your doctor if you have a medical condition that could affect your ability to use the Drift.
- Persons with a medical condition, heart condition, head, back, or neck ailments or prior surgeries to those areas of the body are not recommended to use the Drift.
- Persons with any mental or physical conditions that may make them susceptible to injury or impair their physical or

mental capabilities to recognize, understand and perform all of the safety instructions and to be able to assume the hazards inherent in unit use, should not use the Drift.

- Ensure your tire pressure is at 40 psi (280kpa) before riding.
- Ensure the battery is fully charged before riding your Drift.

OPERATING CONDITIONS

FAILURE TO FOLLOW ANY OF THE FOLLOWING SAFETY PRECAUTIONS CAN AND MAY LEAD TO DAMAGE TO YOUR DEVICE, VOID YOUR MANUFACTURER WARRANTY, LEAD TO PROPERTY DAMAGE, CAUSE SERIOUS BODILY INJURY, AND CAN LEAD TO DEATH.

KICKSTAND

When your Drift is not in use, fold the kickstand down to allow the Drift to lean on. To fold the kickstand up, kick it gently towards the back wheel while bracing the bike.

NEVER RIDE YOUR DRIFT WITH THE KICKSTAND DOWN.

OPERATING YOUR DRIFT

Make sure the Drift's battery pack is fully charged before the first initial use. Before turning on your Drift, ride it like a standard bicycle to get comfortable with the device before using it with the motor.

To be able to use the motor, the fully charged battery pack must be mounted by sliding the battery pack forward into the battery dock. You will here a "click" when the battery pack is properly inserted in the battery dock. You may now lock the battery in place.

After fully inserting and locking the battery into place, press the power switch on the battery pack to turn on the battery. The battery power indicator lights will light up indicating the battery is on. Next, press and hold the power button on the LCD display to turn on the controller. The LCD display will light up indicating the controller is on.

You can now begin riding your Drift. Ensure the kickstand is folded up before riding. As you are riding, the LCD display default screen will show your speed and distance traveled.

To turn, use the handlebar to turn in the direction you wish to turn.

As you get comfortable riding the Pilot, you will notice it becomes easier to maneuver. Remember at higher speeds, it is necessary to shift your weight to overcome the centrifugal force.

Prepare to brace yourself if you encounter bumps or uneven surfaces, then dismount and roll your bicycle to a safe operating surface.

GEARS

Your Pilot is equipped with 6 gears. The lowest gear (1) is for easier and uphill pedaling, and the highest gear (6) is for maximum speed on level or downhill terrain. Change gears only while pedaling.

The rear wheel contains 6 chain sprockets. When the chain is around the largest sprocket, you are in 1st gear, or the lowest gear. When the chain is around the smallest sprocket, you are in 6th gear, or the highest gear.

Every position on the gear shifter should cause a gear change. Adjustments require fine tuning and should only be made by a qualified bicycle technician.

Avoid changing gears very rapidly from first gear to the last gear or vice versa. If you change multiple gears too quickly, you could have the chain come off the front sprocket.



PEDAL-ASSIST MODE

There are 4 pedal-assist mode levels to choose from:

0 - No assistance 1 - Low 2 - Medium 3 - High

Your mode level will be displayed on the LCD screen. To engage the pedal-assist mode, press the (+) button on the display to increase your mode level. Press the (-) button to decrease your mode level.



After you have chosen your mode level, begin to pedal your Drift. You will feel the motor engage and assist you while you pedal, making your ride easier.

You can always ride your Drift like a standard bike if your battery pack runs out of power.

WEIGHT AND SPEED LIMITATIONS

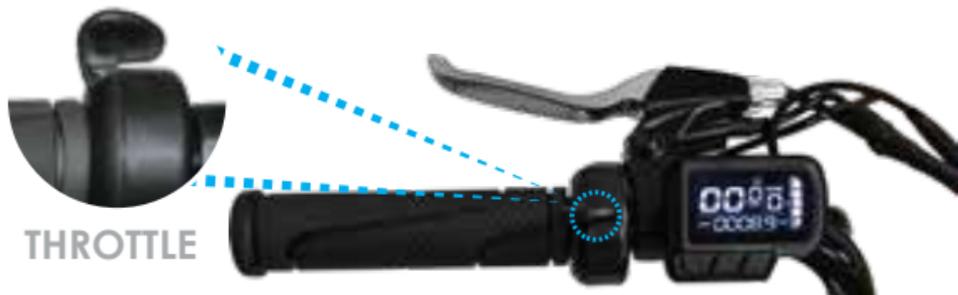
Speed and weight limits are set for your own safety. Please do not exceed the limits listed in the specifications section of this manual.

WARNING

Overweight exertion on product may increase possibility of injury or product damage.

HAND OPERATED THROTTLE

To operate Drift's throttle, make sure the battery and display are powered on. Start to ride the bike as you would normally. When you want to go faster or simply move without pedaling, push the throttle lever (located on the left handlebar) forward.



OPERATING RANGE

The following are some of the major factors that will affect the operating range of your Drift.

- **Terrain:** Riding distance is highest when riding on a smooth, flat surface. Riding uphill and/or on rough terrain will reduce distance significantly.
- **Weight:** A lighter user will have further range than a heavier user.
- **Ambient temperature:** Please ride and store the Drift under recommended temperatures, which will maintain driving distance, battery life, and overall performance of your device.
- **Speed and Riding Style:** Maintaining a moderate and consistent speed while riding produces maximum distance. Traveling at high speeds for extended periods, frequent starts and stops, idling and frequent acceleration or deceleration will decrease overall distance.

TROUBLESHOOTING

The following table is only meant to act a guide to help you figure out any problems you may have with your Drift. If you are unable to get your Drift to operate properly, please visit www.Hover-1.com for support.

PROBLEM	POSSIBLE CAUSES	SOLUTION
Motor will not engage	<ol style="list-style-type: none">1. Low battery2. Battery loose or unplugged3. Severed wire connection	<ol style="list-style-type: none">1. Recharge battery2. Make sure battery connections are secure3. Contact Hover-1 customer support
Drift feels shaky when driving	<ol style="list-style-type: none">1. Low tire pressure2. Wheel is not securely fastened3. Bearings in steering system are worn out	<ol style="list-style-type: none">1. Inflate to 40 psi2. Fasten wheel securely3. Replace bearings
Mileage not being recorded correctly	<ol style="list-style-type: none">1. Infrequently charged2. Defective or worn out battery pack3. Cold temperature affecting battery performance4. Defective or incorrect charger damaging battery	<ol style="list-style-type: none">1. Charge battery pack more often2. Replace battery pack3. Allow battery pack to reach room temperature and fully recharge it.4. Contact customer support

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTION
LCD Display not registering	<ol style="list-style-type: none">1. Low battery2. Display is broken3. Bad battery cells4. Faulty charger burns out display	<ol style="list-style-type: none">1. Recharge battery pack2. Replace display3. Replace battery pack4. Contact customer support
Brakes squealing	<ol style="list-style-type: none">1. Dirty brake pad2. Hard edges on new brakes3. Brake pads are too tight	<ol style="list-style-type: none">1. Clean the brake pad2. Squealing will stop the more you ride3. Adjust brake pads to 1-2mm gap from wheel
Stiffness when steering	<ol style="list-style-type: none">1. Grime build-up in steering system2. Bearings in steering system are worn out	<ol style="list-style-type: none">1. Clean steering system2. Replace bearings

WARRANTY

For warranty information, Please visit us at:
www.hover-1.com

Affix Serial Number Label Here:

