



“The ultimate electric wagon”

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Congratulations and thank you for your purchase of your new Sandhopper® electric wagon!

PLEASE read the entire owner’s manual BEFORE operating your new Sandhopper®. It contains important safety information about the use and care of your product. Your Sandhopper® is not a toy. It is motorized and self-propelled. It is powerful and heavy enough that if misused could damage property or injure people. READ AND FOLLOW ALL INSTRUCTIONS COMPLETELY.



Getting to know your Sandhopper®

Sandhopper® is a battery powered electric beach wagon, capable of carrying significant cargo for 3 – 6 miles depending upon the weight of any cargo, the surface driven on and battery size.

Operation

To use your Sandhopper, locate the key and insert it in the key switch lock located on the control panel in front of the wagon and below the deck. (See diagram 1). Turn the key to the right. NEVER LEAVE THE KEY IN THE LOCK SWITCH WHEN YOU ARE NOT OPERATING THE SANDHOPPER - SOMEONE MIGHT ACCIDENTALLY INJURE THEMSELVES, OTHERS OR PROPERTY.

Check the battery condition by inspecting the battery meter located on the control panel to the right of the key switch lock. Only operate the Sandhopper® when it is fully charged. Recharge the battery after every use. Always keep batteries fully charged with provided charger. (See charging instructions below)

Confirm the speed selection switch is set to the “LOW” position. The speed selector is located on the control panel beside the key switch.

Diagram 1



Locate the control handle and select either Forward or Reverse

Release the parking brake by squeezing the brake lever. ALWAYS SET THE PARKING BRAKE BEFORE TAKING YOUR HAND OFF THE CONTROL HANDLE FOR ANY REASON.



To set the parking brake, squeeze the brake lever with one hand and push down on the parking brake button to lock the brake in place. To release the parking brake, simply squeeze the brake lever and the parking brake button will release.

To move the Sandhopper® Forward or Reverse, **gently** depress the thumb throttle on the control handle to engage the electric motor. It only takes a slight amount of pressure on the throttle to engage the electric motor. Keep in mind that the Sandhopper® is made for sand and for carrying gear, as a result the power and speed is greater on a hard surface or when the wagon is empty.

SandHopper® Models with Auto brake/Auto Park Brake system

SandHopper® models with **Autobrake/Autopark** models DO NOT have a rear disk brake and brake lever on the control handle. This model has an actuator on the rear drive motor.

To activate the **Autobrake/Autopark** feature lift up on the actuator lever, to set the wagon in free wheel mode press down on the actuator. When the **Autobrake/Autopark** feature is deactivated the wagon will be able to be moved freely. The key switch must also in the **OFF** position.

Caution: If the wagon is on an incline the wagon will roll freely and can roll away. Always make sure that the **Autobrake/Autopark** feature is set when the operator is using the wagon.

The **Autobrake/Autopark** feature when in the **deactivated** position should only be used if battery power is lost and operator has full control of the wagon. To make the wagon move forward or in reverse the operator presses on the throttle to auto disengage the **Autobrake/Autopark** and the wagon will move in the direction the operator selected. When the wagon comes to a full stop the **Autobrake/Autopark** will automatically re engage.



Your Sandhopper® has regenerative braking/charging when descending a hill or incline. This means the smart controller system in your Sandhopper® takes advantage of gravity. By using the forward momentum of the wagon, the rotation of the rear wheels generates an electrical charge that is sent back to the batteries for the purpose of recharging them. In some situations, depending on how steep the grade is, it may seem like the wagon is dragging even when you remove your thumb from the throttle. However, the regenerative braking system is actually restricting the speed of the wagon and protecting from a rollaway. THIS FEATURE ONLY WORKS WHEN THE KEY IS ON. THE WAGON WILL ROLL FREELY WITH THE KEY IN THE OFF POSITION. Also, when descending a grade that is a smooth surface, such as wooden beach access ramp, the balloon style tires may lock up in the rear causing the wagon to slide. This is because the regenerative braking is causing the beach style balloon tires to turn slowly resulting in the rear tires sliding on the smooth surface. Though ideal for the sand, these tires have little to no traction on smooth surfaces that are also inclines. In this situation, simply back the Sandhopper® down the incline / ramp, rather than walk in front of it. The operator is then in a better position to slow the wagon's descent if necessary. ALWAYS USE EXTREME CAUTION WHEN DESCENDING AN INCLINE THAT IS A SMOOTH SURFACE SUCH AS WOODEN RAMPS, ESPECIALLY IF THERE IS LOOSE SAND PRESENT. RAMPS OR INCLINES THAT ARE A STEEPER GRADE THAN HANDICAP RAMPS SHOULD NOT BE USED. IF YOU DETERMINE THE INCLINE / RAMP SURFACE CONDITIONS ARE SLIPPERY FOR PEOPLE TO WALK ON, ANTICIPATE THAT THE SAME WILL BE TRUE OF THE SANDHOPPER WHEN EQUIPPED WITH BALOON TIRES AND FOLLOW THE PRECAUTIONS OUTLINED ABOVE.

In a confined space, briefly practice controlling the speed and steering characteristics of the Sandhopper®. **STOP:** Do not operate further without reading the balance of these instructions.

A reminder: Always use the **Low-speed** setting. The **High-speed** feature would be needed only when you are carrying a very large payload and ascending an uphill grade. (Extra boost)

Unless your wagon has been equipped for hill climbing the smart controller will automatically shut off the controller when asked to perform excessive climbing under load. After several minutes, the wagon will operate again as normal.

When ascending or descending hills, always take a straight up or down approach. Never traverse a slope sideways potentially causing the wagon to roll over.

Avoid rain, moisture or spraying your Sandhopper® with water. Electronic circuitry may be damaged by water intrusion. NEVER take your Sandhopper® through standing water.

Sandhopper® should be operated by adults only. Never let anyone under 18 operate your Sandhopper® and every operator is required to read the owner's manual.

After reaching your destination set the parking brake as described above.

Always remove the key when not in use. In the event you inadvertently leave the key in the ON position, the smart controller will go into sleep mode after 15 minutes. Turn the key off then on to reset the controller.

Never sit in the Sandhopper® wagon and attempt to drive. It is not designed to be driven. The weight of a driver directly over the steering wheels may severely restrict the steering. SERIOUS INJURY OR DEATH MAY OCCUR. Additionally, local laws may prohibit the operator from using the Sandhopper® as a motorized vehicle.

The type of tires on each Sandhopper® determines the maximum load capacity. See your specific tire for this information.

The Wheeliez® tires are designed for sand. It is important to familiarize yourself with the Wheeliez® manufacturer's suggestions that are found in the owner's pamphlet or on their website. Most importantly, never inflate the Wheeliez® tires with more than 3 to 4 pounds of air. Never use an electric or commercial air pump. ONLY use a hand pump such as what you may use to pump up a bicycle tire. Also, it is recommended that you have an air gauge that is designed to detect very low air levels such as 3 to 4 pounds. (*Milton Model # S931*)

Children should never be left unattended. To help insure everyone's safety, remove the key when loading any cargo.

Avoid operating the wagon on public or private roads whenever possible. Use pedestrian friendly sidewalks and paths. Never operate the Sandhopper® in low or poor lighting conditions.

In the event the wagon will not operate, (no power) check the battery circuit breaker located under the cart near the battery. If the circuit breaker has tripped just simply press the black button on the circuit breaker.

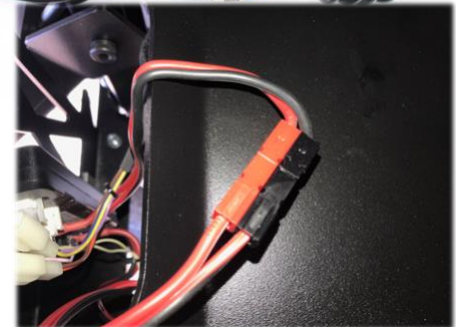


Battery maintenance

To recharge the battery, make sure the key is in the off position. Locate the Sandhopper® battery charging port on the control panel. (See diagram 1) To access the charging port **ROTATE** the dust cap to expose the charging port. DO NOT PULL on the dust cap. Now, plug the charger connector into the battery charging port. Next, plug the charger into your 110-wall outlet. The charger light will glow red while charging and green once fully charged.



Always unplug the charger from the battery charging port then from the wall outlet. We recommend recharging battery after every use. For best performance and battery life, never let the battery discharge below 60%. If you intend to not use the wagon for extended periods of time we recommend disconnecting the batteries after a full charge. The battery connector is located in the battery compartment. Disconnect the RED and BLACK connector.



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The optional DUAL USB port is located in the top left of the control panel. It may be used to recharge a mobile device. It is only powered on when the key switch is in the ON position.



The Sandhopper® is sold with unique 2 keys, they **WILL NOT WORK** on any other Sandhopper®. If you lose your keys you will need to order a complete new set of keys and a key switch assembly. This replacement part is only available from the manufacturer. Duplicate keys are not available for purchase, but copies of your original key can be made at your local locksmith.

The switch is the center of panel next to diagram 1) select the of the



Low/High located in the control the key. (See Use it to speed mode

Sandhopper®, **UP** is the High-speed mode and **DOWN** is the Low-speed mode (the operator can vary the speed of the Sandhopper® whether it is in low or high, with the throttle lever located on the control handle). The High selection should only be used when carrying a significant load and ascending an incline.

Side gates use, Installation/Removal



The proper side gates (single as well as the surf essential to system safe and make sure that

installation of the and double rail) rack system is making the gate secure. First, nothing on the

wagon deck is restricting the base of the gates from inserting as far as possible into their appropriate openings. A rubber mat or other obstacle may keep the gate from fully inserting, thereby causing the mating system of the entire gate system to be compromised. Next make sure each corner has properly mated together. Always insert the front and rear gates first, the sides last. Mate the corners while releasing the release/lock snap pins at the base of the side gate. (See photo below) Make certain that the snap pins located at the bottom and on the inside of each side gate pops out once the gate is installed. PROPER INSTALLATION IS ESSENTIAL! IF NOT PROPERLY INSTALLED, THE GATES MAY COME LOOSE OR COME OUT COMPLETELY.

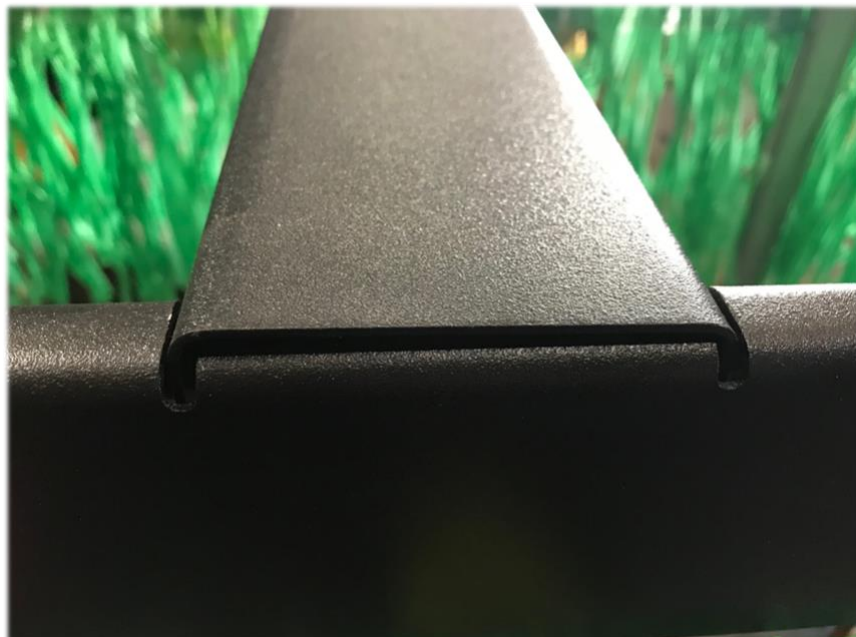
Release/Lock snap pins are located at the bottom of the vertical support beams.



Double side gates have interlocking corners also.



Sandhopper® with surf rack option has 1 or 2 top horizontal support beams.
Make sure they are well seated in the cutouts of the top rails.



Frequently Asked Questions and tips for enjoying your Sandhopper®

- The standard Sandhopper® is designed to operate when fully charged for 2 -4 miles based on the cargo weight, surface it will be operated on and whether the surface is flat or has hills or inclines. If you plan to carry heavy loads and / or plan to use Sandhopper in areas of significant elevation change, we recommend the optional larger controller and larger battery.
- The Sandhopper® equipped with the Wheeliez brand tires is designed to handle sand with ease. Bear in mind though, that an empty wagon may display some rear wheel spin due to a lack of weight over the rear drive wheels. This can be rectified by adding some cargo or shifting existing cargo to the rear.
- The side gates (single and double rail) as well as the surf rack system are all designed to work best when they are properly installed. First, make sure that nothing on the wagon deck is restricting the base of the gates from inserting as far as possible into their appropriate openings. A rubber mat or other obstacle may keep the gate from fully inserting, thereby causing the mating system of the entire gate system to be compromised. Next make sure each corner has properly mated together. Always insert the front and rear gates first, the sides last. Mate the corners while releasing the spring-loaded button at the base of the side gate. Make certain the side gate button pops out once the side gate is installed. If it doesn't the gate is in danger of coming out over rough terrain.
- Sandhopper® has a delayed response after turning the key on. This is normal. The thumb controller takes a few seconds to respond after turning on the key.
- Sandhopper® won't move with the key on. Most likely you left the key in the on position and idle for 15 minutes after using it previously. Simply cycle the key off and then back on again to reset the controller.
- My Sandhopper® still won't move even with the key cycled off and back on. If your Sandhopper® does not respond even after cycling the key off and back on again, one of two issues may have occurred. If the wagon stopped while climbing a steep incline, then the smart controller's thermal coupling turned off the power to allow the system to cool down. You can confirm this by checking to see if the battery level is indicated on the battery meter as it would normally. Your wagon will operate normally within 2 -3 minutes. If the battery meter does not indicate any level whatsoever, the battery circuit breaker may have tripped. This typically would only happen when operating your Sandhopper® at the top end of its pre-programmed performance

settings. For example, a circuit breaker may trip after climbing a significant incline while heavily loaded. Those wagons equipped with the optional 160 Amp controller are less likely to trip in these conditions. To re-set the tripped circuit breaker, look under the wagon near the battery tray. Near the battery tray is a circuit breaker re-set button. Simply push the button back in.

- I hear a noise when I move my Sandhopper® in forward and in reverse?
Most likely you are leaving the parking brake on. Release the brake by squeezing the brake handle until the parking brake button pops out.
- My Sandhopper® rear wheels drag when I'm descending a hill or handicap style ramp. Assuming the key is on, and you are not applying power through the thumb switch, this is normal. Your Sandhopper® has regenerative charging for your battery when descending an incline. What this means is that the smart controller system in your Sandhopper® takes advantage of gravity. By using the momentum of the wagons forward movement when descending an incline, the rotation of the rear wheels generates an electrical charge that is sent back to the batteries for the purpose of recharging them. A second advantage of this feature is that the wagon will never roll freely either forwards or backwards due to this feature, which uses any motion (forwards or backwards) to recharge the battery. It may seem like the wagon is dragging when you remove your thumb from the throttle, but it is actually using the drive motor as a braking system.
- How will I know when I need a new battery?
Typically, a battery has reached the end of its useful life when it won't hold a charge. If previously your wagon had operated for days on end without a charge and now it needs one twice a day, you may simply need a new battery. See FAQ regarding how to replace battery.
- May I replace the battery myself?
Yes, but first make certain the battery needs to be replaced, that you know the replacement specifications and model and that you are certain that it needs replacing.
- My parking brake is not holding the wagon in place, what is wrong?
Your parking brake may need to be adjusted. The brake system uses a brake cable similar to the brake cables on a bike. Try adjusting the cables first.



The brake adjustment is located at the end of the brake cable on the handle. To adjust the brake, simply unscrew the thumb screw until brake force is achieved then screw in the lock ring until it mates with the brake handle. If the rear brake wheel still rotates with the brake fully applied your Sandhopper® may need brake service from a certified Sandhopper® service center.

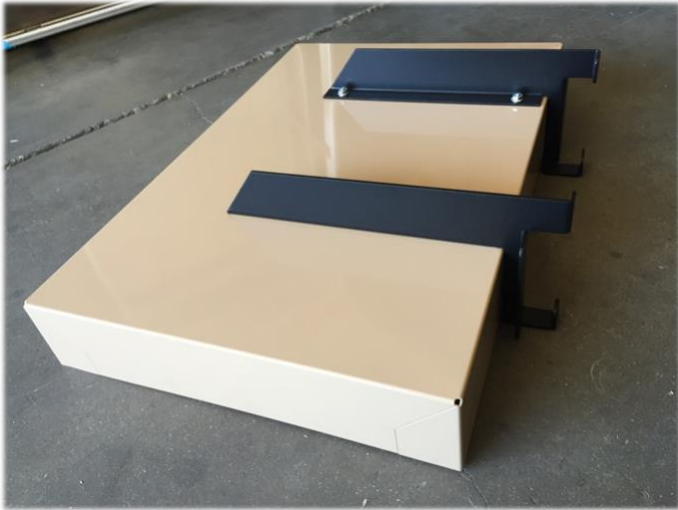
Rear disk brake maintenance



To maintain top performance of the Sandhopper® brake system, the stainless disk brake and brake pads must be clean and dry. First make sure the key is in the off position. Do not spray any type automotive brake cleaner directly as the over spray may damage the painted parts. Using clean work gloves, first spray a clean dry rag and then wipe the disk brake. Roll the wagon forward or backwards to make certain to clean the entire disk brake.

Accessories Instructions

Cooler tray is installed on the rear part of the Sandhopper® only. The support hinges are placed on the rear lip of the Sandhopper deck. DO NOT EXCEED the 50 LBS maximum capacity of the tray.



Cooler tray table insert option

The cooler tray table insert can be used as a tray table to place drinks in the 4 hole cutouts. Snacks can also be placed on the insert. To store the insert simply flip the insert over and replace it in the cooler tray.



Cooler tray insert option.

Umbrella Mount/Dual cup holder and side table option



The umbrella mount has a 1.5" through hole that can be used to insert a flag pole or a standard umbrella post. (Warning: do not use in high winds or when lightning may occur)
Side table option can be placed on any side of the Sandhopper® deck. When not in use the side table can be placed on the inside of the deck.

Pop up tent/surfboard side-rack option

Side-racks should be placed on the right-hand side of the Sandhopper®. There are cut outs to use bungee cords to hold down the contents you are placing in the side-racks.
Use of the side-racks may not fit if you have an umbrella mount installed on the **Left** side of the wagon. Long cargo placed in the side-racks may also restrict the operator from controlling the wagon. (example: surfboards surpassing the length of the wagon).
(We recommend installing the side-racks only on the right side of the wagon).



Digital Keyless lockbox

The keyless digital lockbox option comes with 2 keys that are unique to your lock box and are not replaceable. DO NOT LOSE THE KEYS. The lockbox comes with a default combination code. (159#) It is recommended that you reset the code upon receipt. (*instructions provided with the lock box*). On the inside of the lock box there is a button to reset the code. It is located on the inside of the door. You can use up to 6 digits as an entry code. If you forget your code and also the default code you may use the provided key to unlock the door. To do so follow these instructions:

- 1- Remove dust cap on the door
- 2- Insert bypass key to unlock the door.
- 3- Locate the reset button on the inside of the door.
- 4- Press the reset switch button.
- 5- Punch in your new code.
- 6- Press #
- 7- Test the new code before closing the door.
- 8- DO NOT Lock your keys in the lockbox.
- 9- The 4 AA batteries are located in the door compartment.



Lock box is not water proof! Do not spray water on the lockbox as it may damage the electronics and void the warranty.

WARNING

Riding in the Sandhopper can be a hazardous activity. **Do not** operate the Sandhopper while sitting in it. Certain conditions may cause the equipment to fail without fault of the manufacturer. Like other wheeled products, the Sandhopper can and is intended to move, and it is therefore possible to lose control, and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur, you or others can be seriously injured or die, even when using safety equipment and other precautions.

USE COMMON SENSE

This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use your Sandhopper. Because any incident can result in serious injury or even death, we do not repeat the warning of potential serious injury or death each time such a possibility is mentioned.

APPROPRIATE USE AND PARENTAL SUPERVISION

Direct adult supervision is required at all times. This manual contains important safety information. It is your responsibility to review this information and make sure that all operators and children obey all warnings, cautions, instructions and safety topics and assure that operators are able to safely use this product. We recommend that you periodically review and reinforce the information in this manual and that you inspect and maintain your Sandhopper to insure your and others safety. Adults or children should never attempt to ride in or on the Sandhopper wagon.

Anyone riding in the wagon or allowing others to do so, assumes full responsibility and liability for themselves and anyone else in or on the wagon and hereby releases the manufacturer, any suppliers or distributors of the Sandhopper wagon from all liability from any and all personal injury, death or property damage.

ACCEPTABLE OPERATING PRACTICES AND CONDITIONS

Direct parental supervision is required. The Sandhopper is meant to be used only in controlled environments free of potential traffic hazards and not on public streets. Never use near steps, sloped driveways, hills, roadways, alleys or swimming pool areas. Do not operate the Sandhopper in wet weather. The Sandhopper is intended for use on solid, flat, clean and dry surfaces such as pavement, beaches or level ground. Wet, slick, smooth or uneven and rough surfaces may impair traction and contribute to possible accidents. Examples include but are not limited to: Handicap access ramps made of a smooth material such as wood or other material that prevent the balloon style tires from gaining traction. Do not operate in mud, ice, puddles or water. Avoid steep inclines that can be hazardous in maintaining control of the wagon.

Never risk damaging surfaces such as carpet or flooring by using the Sandhopper indoors. Do not use at night or when visibility is impaired.

USING THE CHARGER

The charger supplied with the Electric Wagon should be regularly examined for damage to the cord, plug, enclosure and other parts, and in the event of such damage, the batteries must not be charged until the charger has been repaired or replaced. Only use the recommended charger. The charger is not a toy. Always disconnect the Sandhopper from the charger prior to wiping it down.

BATTERY

Your Sandhopper uses a sealed Lead Acid battery. Replacement batteries are readily available. Make certain you match the manufacturer's exact specifications when replacing the battery. Batteries should always be recycled. Please contact your city or county for an appropriate disposal center.

WARRANTY

Your Sandhopper has a limited 6 month warranty. The tires and battery carry separate warranties from their specific manufacturer. See your Sandhopper warranty information card for more details or contact your authorized retailer. Don't forget to register your purchase in order to validate your warranty. Your warranty may be void if not properly registered with the manufacturer.

FAILURE TO USE COMMON SENSE AND HEED THE ABOVE WARNINGS INCREASES RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.