



# MEGA HERC

## OWNER'S MANUAL



- 1400 SERIES WITH AGM BATTERY -

97026-2

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## MADE IN THE USA GUARANTEE



Our American made products are engineered, manufactured and assembled in Archbold, OH using USA made steel.



*Expect more. get more.*  
FROM GRANITE INDUSTRIES

- Exceptional quality and service on every single product.
- Professional grade designs by our in house engineers.
- Industry leading warranties.
- Family owned and operated in the USA.

To view more products from  
Overland Carts scan the QR code  
with your phone  
or visit [OverlandCarts.com](http://OverlandCarts.com)



## 1 YEAR WARRANTY

- **Electronics:** Includes controller, s-drive, and wiring
- **Powertrain:** Includes transaxle containing the motor and differential
- **Wheels, Casters & Tires**
- **Batteries & Charger**
- **Chassis:** Includes steel frame and powder coating

## TERMS

Warranty starts from the delivery date of the cart.

We will repair, without charge, any defect due to faulty material or workmanship. These warranties do not cover failures due to abuse, misuse, improper installation, accidental damage or when repairs or modifications have been made or attempted to be made by anyone other than Granite Industries. Any defective products that meet warranty specifications and Granite Industries approval, may be returned to the factory to be repaired or replaced free of charge. (Granite Industries will pay to ship replacement item(s) to the customer; however the customer is responsible for shipment of products to the factory.)

This remedy is the sole remedy in contract, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages.

These warranties give you specific legal rights, and you may have other rights which vary from state to state.

Should you have any questions, contact Granite Industries at 877-447-2648. (Proof of purchase may be required).

Overland Carts are covered by one or more of the following patents:

US D752,834 S	US D752,838 S	US D779,762 S
US D752,835 S	US D752,307 S	US D779,765 S
US D752,836 S	US D752,308 S	US D781,020 S
US D752,837 S		

Overland carts are a part of the Granite Industries family. All carts are manufactured by Granite Industries in Archbold, Ohio.



**GRANITE  
INDUSTRIES**

**Customer Service**

**877-447-2648**

**M-F, 8am - 5pm EST**

## CART FEATURES

### Built with you in mind.

#### Our carts come fully assembled

All Overland Carts come fully assembled, charged and ready to use. All you have to do is power the cart on and drive away. (We do recommend charging overnight after receiving.)

#### Crate Disassembly Instructions:

We recommend using a drill or an electric screwdriver with a #2 Phillips bit or a #2 square bit to remove the screws.

We recommend using a hammer or crowbar to remove the portions that are nailed down.

#### We designed our carts to be simple to operate:

- To turn on, pull the red On/Off switch out towards you.
- Toggle the black switch for forward and reverse.
- Grasp and twist the throttle.
- To turn the cart off, simply push the red button in.

#### Safety Features

- **Emergency Stop** – The red E-Stop button allows the user to immediately stop the progress of the cart.
- **AutoLock** – Automatically locks the wheels when the throttle is not being applied. This feature prevents the cart from rolling away from the user and also provides easy loading and unloading on inclines.
- **HillSense** – Allows the cart to be used safely on inclines and declines. The cart will travel at the speed set by the user, not by the incline or decline.
- **SmoothStart** – On acceleration, power is applied to the drive tires in a controlled manner ensuring a smooth start each time.
- **Four Wheel Design** – All Overland Carts have at least four wheels to provide maximum stability.

#### They've been tested (again and again)

The standard 22 amp-hr AGM rechargeable battery packs have been extensively tested. We are confident to rate the batteries with a 4-6 hour real world capacity.



## Satisfaction Guaranteed

Granite Industries is committed to making sure each Overland Cart meets your expectations. To ensure customer satisfaction, we offer a 15 day money back guarantee. Use the cart and see how much easier the cart makes your projects. If you're not satisfied, simply contact Granite Industries at 877-447-2648 for a return authorization and details.

Orders and quote requests can be emailed to [support@graniteind.com](mailto:support@graniteind.com) or faxed to 419-445-3304

## FREQUENTLY ASKED QUESTIONS

### How long do the batteries last on a single charge?

It is completely dependent upon how much weight is being carried, the type of terrain, and the softness or hardness of the surface. We estimate a range of 4-6 hours of "real world" use. PLEASE NOTE: Most use is not as intense as our "real world" estimates, so actual use time is typically much longer. Visit [YouTube.com/OverlandCarts](https://www.youtube.com/OverlandCarts) to view videos of our product testing.

### When and how long should I charge my cart?

Charge your cart immediately after using. If, during operation, the battery indicator light goes to red, it is time to recharge. It is recommended to leave the cart on the charger overnight to extend the life of the batteries.

### How long will the batteries last before needing to be replaced?

The batteries are designed to last for 300-500 charge/discharge cycles, which translate into approximately 1-2 years. The batteries are common and can be purchased from Granite, your local battery supplier, or on Amazon.

### Will tipping the unit hurt the batteries, electronics, or drive system?

No. Batteries, electronics, and drives can operate in any orientation.

### What is the maximum speed?

All 1400 series carts operate from 0 to 3.5 miles per hour in both forward and reverse.

### While pushing my cart in manual/freewheel mode, it suddenly decelerates aggressively. What causes this?

There is a safety feature on your Overland Cart that is designed to prevent the cart from running away when the brake is manually disengaged.

### How much weight can my cart handle?

1200 lbs is the maximum load for level ground.

### Why does my cart lose traction when one wheel is off the ground?

The drive system is an open differential that allows the machine to efficiently make turns without skidding the tires. The drawback is that if one of the drive tires leaves the ground, it will simply spin until all tires are back on the ground.

### Is a balanced load important to the performance?

Yes. Balancing the load so that it is not top-heavy or side-loaded, will allow much safer operation. Furthermore, most of the load should be located over top of the drive wheels for better traction.

### How do I clean my Overland Cart?

Simply remove all debris, hose it down with soapy water, and towel dry. We do not recommend using a pressure washer.

### Can I use my Overland Cart in cold temperatures?

You certainly can, but we recommend that you charge and store the batteries at room temperature.

### What maintenance is required?

Not much, really! Simply remember to always recharge when not in use - it's okay to leave the cart on the charger. The drive system is sealed for life, thus no lubrication is required. Also, keep the unit dry to enhance its life and appearance.

### How should I store my cart?

We recommend keeping your cart indoors, out of the rain and other elements. For long-term or "off season" storage, give the battery an overnight charge, then disconnect the battery pack from the cart and store it indoors at room temperature. Every 3-4 months, fully charge the battery even though it's not in use. This helps to prolong the life of the batteries.

### Where is the serial number?

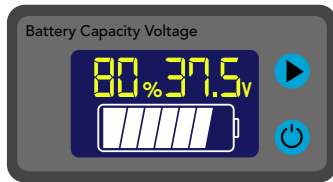
Every Overland Cart comes with its own serial number. On the Mega Herc, this is located on the front side of the upper control box.



# CHARGING INFORMATION

## CHARGE YOUR CART

When your cart arrives, please plug it in and make sure the battery is fully charged. There is a battery charge display on the side of the battery pack.



The charger can be left connected to the batteries after a full charge (green light) without harming the batteries. It uses a four stage charging system to optimize battery longevity. The charger uses minimum power in standby mode and maintains the batteries at full charge.

For the best battery life, charge the cart after each use or at the end of the work day. It's preferable to let the batteries charge overnight by plugging the cart into a 110V outlet.

## CAUTIONS AND WARNINGS

1. Before using the battery charger, read all instructions and cautionary markings on the battery charger, batteries and the product using the batteries.
2. To reduce risk of injury, charge only lead-acid type of rechargeable batteries. Other types of batteries may burst, causing personal injury or damage.
3. Do not expose charger to rain or snow.
4. To prevent the risk of fire, use the charger only in dry and ventilated rooms without flammable fluids and explosive gases.
5. Do not cover the charger with clothing, fabric or similar items during the charging process. Ventilation is important to prevent overheating.
6. To reduce the risk of damage to the electric plugs and cords, pull by the plug rather than the cord when disconnecting the charger.
7. Make sure extension cord is not used unless absolutely necessary. Use of improper extension cord could result in risk of fire and electric shock. If extension cord must be used, make sure:
  - The pins on the plug of the extension cord are the same number, size and shape as those on the charger. (3 prong with ground)
  - The extension cord is properly wired and in good electrical condition. A 16 ga cord or heavier duty extension cord is recommended.
8. Make sure charging cord is located so that it will not be stepped on, tripped over or otherwise subject to damage or stress.
9. Do not operate charger with damaged cord or plug - replace immediately if there are signs of damage!
10. Do not operate charger if it has received a sharp blow, has been dropped or otherwise damaged in any way.
11. Do not disassemble the charger.
12. Never charge a battery in an airtight enclosure.



# OPERATING INSTRUCTIONS

## SAFETY INFORMATION

- Only use chargers and batteries issued by Overland Carts. Use of third party batteries or chargers may cause harm to the user and the cart.
- Always make sure the load is distributed evenly in the hopper and the cart is stable before operating.
- Push in the red E-Stop whenever the cart is sitting still or whenever the batteries are charging.
- Do not exceed the rated capacity of 1200 pounds for the cart on flat surfaces.
- Exercise caution when operating on inclines or declines.
- Do not drive the cart over sudden drops such as curbs, steps, or ledges. We recommend using ramps to navigate uneven surfaces.
- The metal battery pack can be opened to reveal the batteries; however, the physical batteries should never be opened. They are sealed lithium batteries and cannot be resealed. Do not attempt to add more battery acid or water. If the batteries need replaced, please purchase new batteries.

## BEST PRACTICES

- Hand wash your Overland Cart with soapy water. Never use a pressure washer.
- Do not drive your cart through deep puddles of water and do not submerge the drive system or battery box.
- The drive system is lubricated for life, so no maintenance is required.
- When the battery indicator light goes to red, it is time to recharge.
- Recharge cart immediately after using.

## POWER YOUR CART ON

To power your cart on, pull the red E-stop button out. You will notice the battery indicator lights light up and your cart is now ready for operation.

If the Overland Cart sits inactive for 20 minutes while on, it will go to sleep in order to conserve power. To wake the cart up, push the E-Stop button in, and pull it back out to power your cart on again.



# TROUBLESHOOTING

Issue	Possible Problem	Solution
Cart will not run	Batteries are dead	Charge the Overland Cart
	E-Stop is in the OFF position	Pull e-stop out, to the ON position
	Unit is in sleep mode	Cycle the unit OFF for a couple seconds, then back ON
	Cart is in freewheel mode (brake is disengaged)	Re-engage motor brake (see free wheel mode section)
	Electrical malfunction	Disconnect and connect all electrical connections, and make sure they are all secure
	Moisture issue	Let dry, avoid getting the s-drive and battery box wet
Cart shuts off during use	Circuit breaker has tripped	Push the reset button on the battery pack (see diagram below).
	Thermal overload (weight, climb angle, or terrain may have exceeded transaxle capacity)	Release throttle, allow transaxle to cool down at least 30 seconds. Unload some weight, cycle power switch and operate machine again. Reset button will likely need to be pushed.
Cart suddenly stops	Broken or loose motor wire or connector	Check motor wires and brake wires to make sure none are broken, and also check connector to make sure wires are secure
Cart abruptly slows down while in freewheel mode	Safety feature has triggered preventing the cart from rolling away	Push the cart slower while in freewheel mode
Batteries are not lasting as long as desired	Cold batteries	Keep batteries warm
	Batteries not fully charged	Make sure your cart is fully charged before using
	Batteries are damaged or too old	Replace your batteries
	Loose wire connections	Check all connections to make sure everything is secure
Charger light goes directly to green when charging, but battery is not charged	The battery and/or charger may have gone bad	Test the charger on another battery if possible. Replace battery and/or charger
	The connections may have come loose, or disconnected	Check charger and battery connections



# BATTERY INFORMATION

## IMPORTANT RECOMMENDATIONS

- It is recommended to wear insulated gloves when handling batteries.
- If equipment is to be stored for a long period of time, the batteries should be disconnected to avoid undue drain.
- When replacing your batteries, fasten them tightly, but do not apply undue force to the terminals or bend them.
- Do not place batteries in close proximity to objects which can produce sparks or flames.
- Avoid exposing batteries to heat.
- Do not mix batteries with different capacities, different ages or different makes.
- For best results and generally acceptable performance and longevity, keep operating temperature range between 5° F (-15° C) and 113° F (45° C)
- It is good practice to ensure that the connections are re-torqued and the batteries are cleaned periodically.
- Do not attempt to disassemble batteries. Contact with sulfuric acid may cause harm. If it should occur, wash skin and clothing with liberal amounts of water.
- Batteries should not be stored in a discharged state or at elevated temperatures.
- Please recycle old batteries. Do not throw them away, or attempt to burn them. Attempting to burn batteries (new or old) may cause them to rupture or explode.

## BATTERY FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance.
  - AGM design ensures the acid inside the battery is spill-proof
  - Vibration resistant
  - Better performance in cold temperatures
  - Faster charging
  - Longer expected life
- Valve regulated, spill proof construction allows safe operation in any position. However upside down is not recommended.
- Maintenance free design. There is no need to add electrolyte as gases generated during the charge phase are recombined in a unique oxygen cycle.
- Power/volume ratio yielding unrivaled energy density.
- Special separators, advanced plate composition and a carefully balanced electrolyte system ensure the battery has the ability to recover from an excessively deep discharge.
- All batteries feature a series of low pressure, one-way relief valves. These valves safely release any excessive accumulation of gas inside the battery and then reseal themselves.
- Batteries may be discharged over a temperature range of -5° F (-15° C) and 113° F (45° C), and charged at temperatures ranging from -32° F (0° C) and 104° F (40° C). For best results we recommend charging the batteries at room temperature.

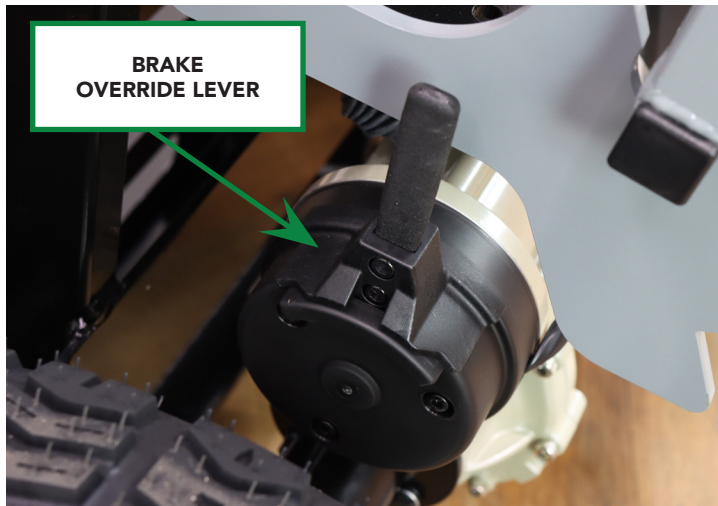


## FREE WHEEL MODE

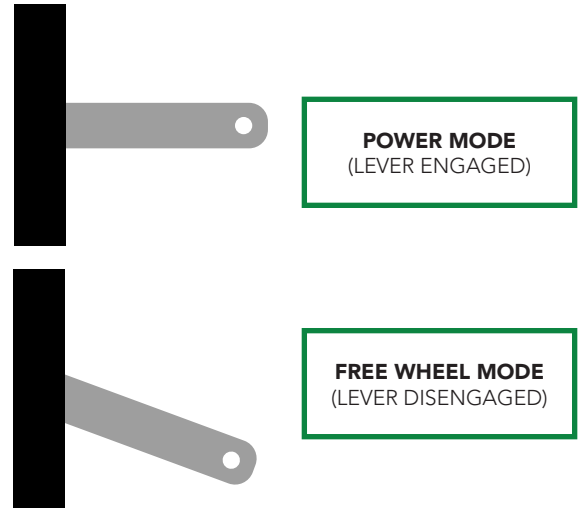
### FREE WHEEL MODE

The drive system is equipped with a lever that overrides the electromechanical brake for manually operating your Overland Cart. The brake lever allows you to override the electric brake when you need to push the cart manually, when loss of power had occurred. With the brake in the disengaged position, the E-Stop button must be pushed in, and the power turned off or the drive system will not move freely. The controller will NOT operate the motor when the brake is disengaged.

When the lever is in the down position the brake is engaged. When the lever is in the up position, the brake is disengaged. When you reset the brake system the unit will not operate until you toggle the power button off and back on. This process will need to be repeated every time the brake is manually disengaged.



**BRAKE  
OVERRIDE LEVER**



**POWER MODE  
(LEVER ENGAGED)**

**FREE WHEEL MODE  
(LEVER DISENGAGED)**

## OPERATING THE KICK STAND



**1** The kickstand is located on the back of the cart.



**2** Stand the cart up into the upright position. Pull the kick stand off of the magnetic holding plate.



**3** Lower the kick stand to the floor.



**4** To lock it into place, lean the cart forward slightly, and slide the bar up into the notches to secure into place.



**5** To return the kickstand into the upright position, rock the cart forward slightly again to disengage the kick stand from the notches. Repeat the remaining steps in reverse order.



# BATTERY REPLACEMENT

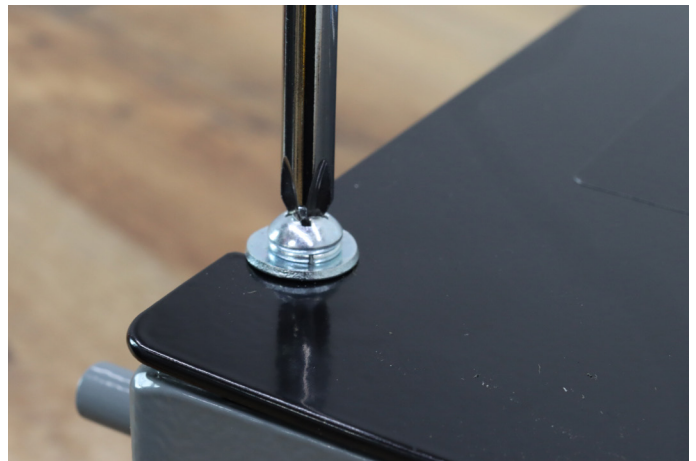
## TOOLS

#2 or #3 Phillips screwdriver

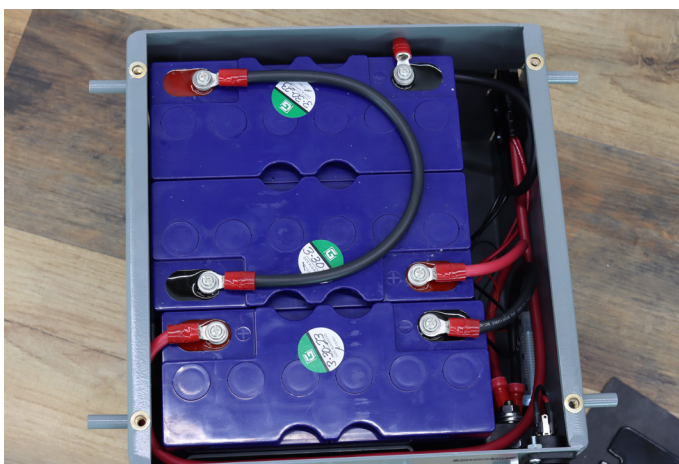
8mm wrench & socket (for bot style connectors)



**1** Disconnect the wires going to the battery box. Remove the battery from the cart by taking out the hair pin and removing the rod. Slide the battery box out from its housing.



**2** Remove the four (4) #10 screws holding the lid in place. Remove the lid and set aside.

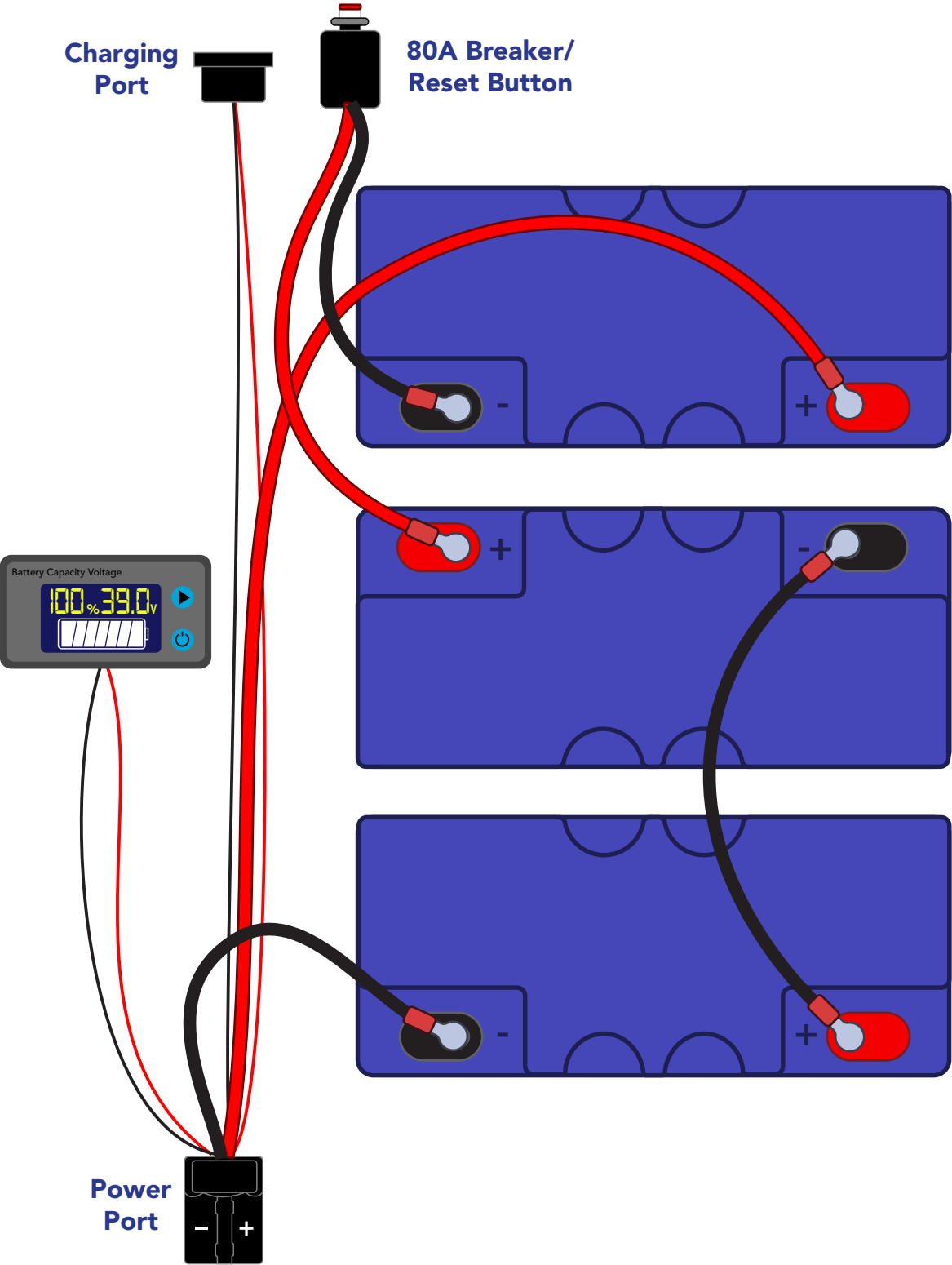


**3** Remove the rubber insulator sheet and set aside.



**4** Carefully remove the batteries, and disconnect the screw or bolt style connectors, depending on your battery type.  
**PLEASE RECYCLE YOUR OLD BATTERIES**

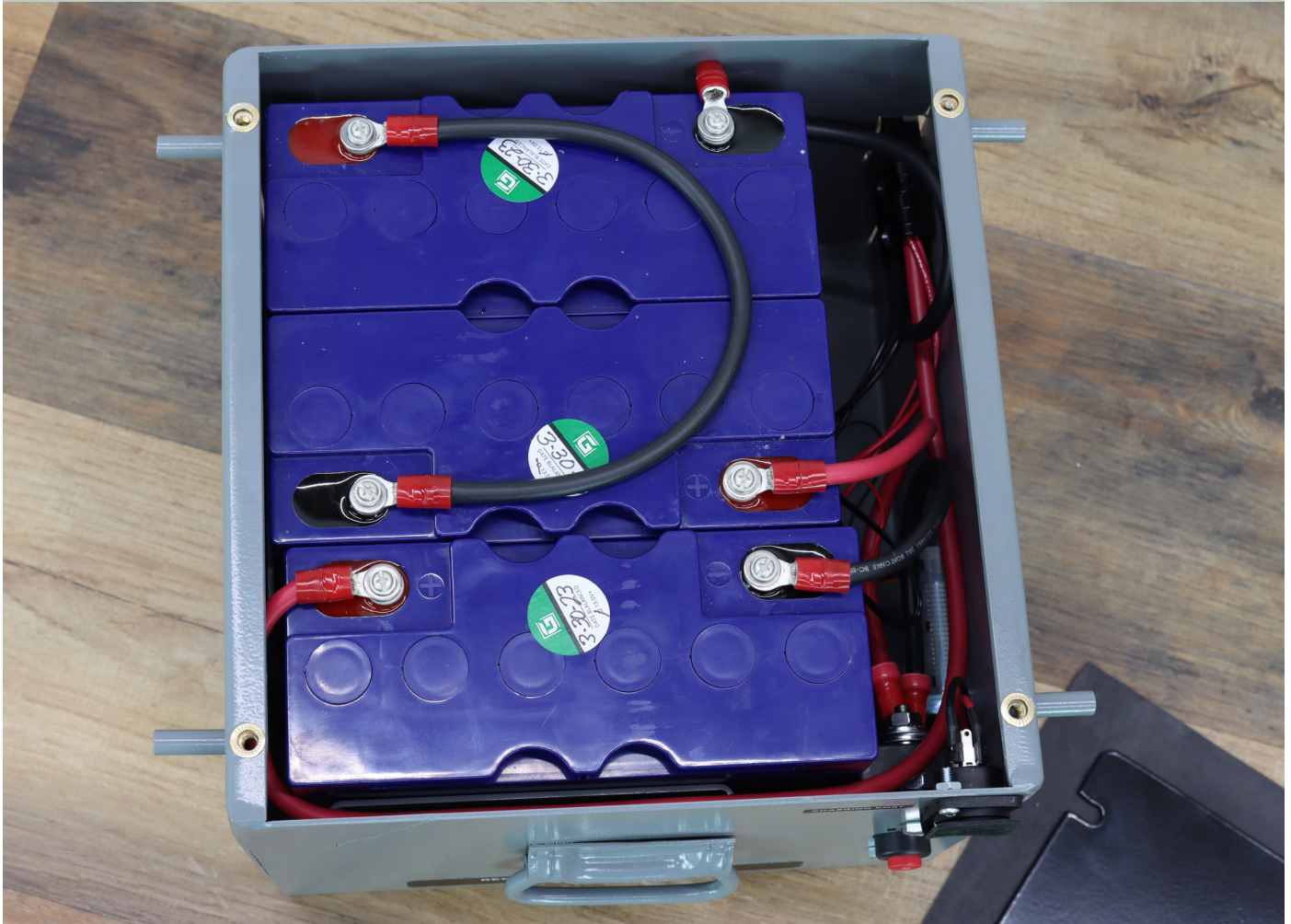
## BATTERY REPLACEMENT



## BATTERY REPLACEMENT

5

Place the batteries back into the box one at a time. Tuck the wires into the box and out of the way.



6

Replace the rubber insulator sheet and then the box lid. Secure the lid with four (4) #10 screws.



7

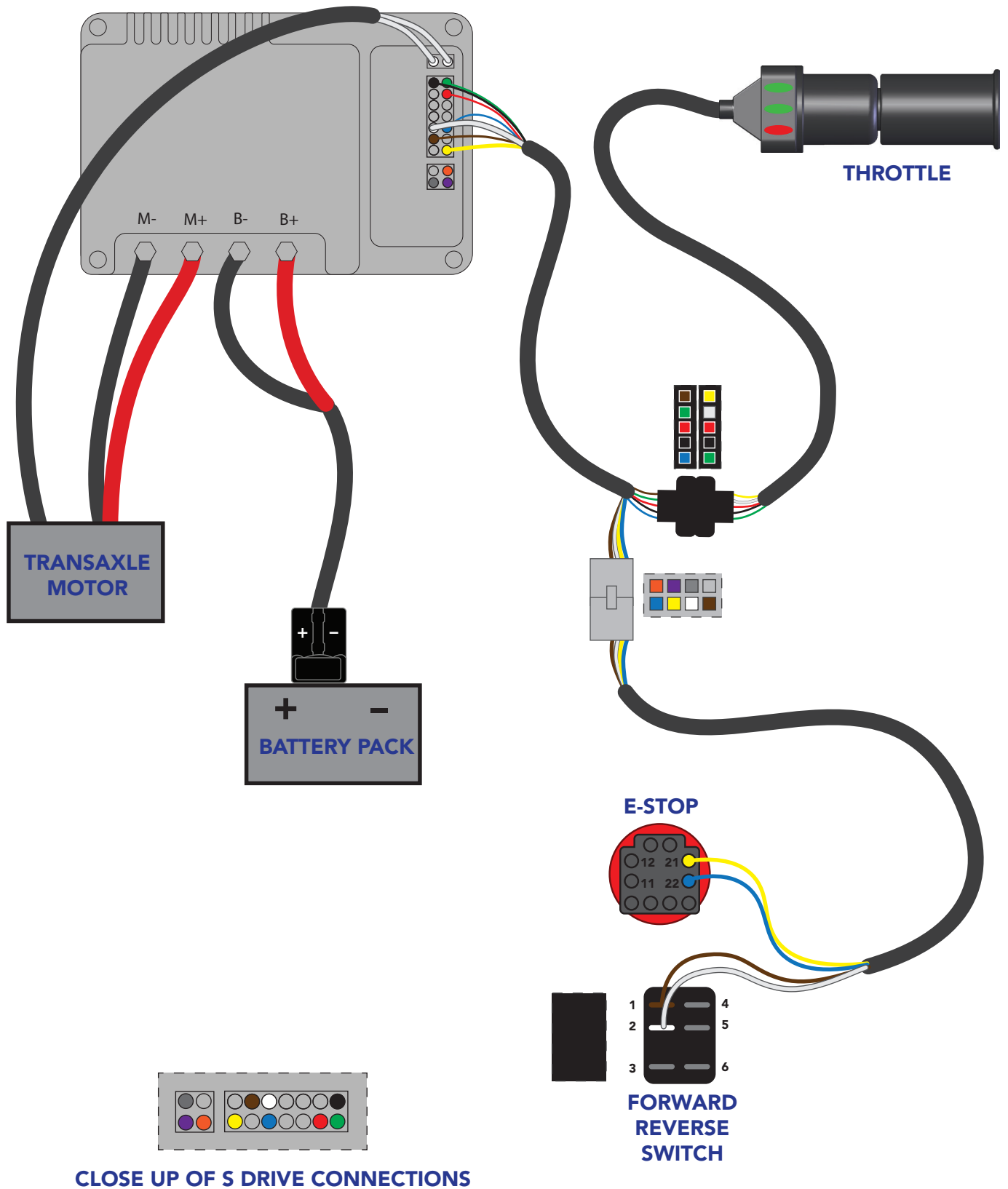
Place the battery box back onto the cart, insert the rod and secure with the hair pin. Finally, reconnect the wires to the power terminal.



## PARTS



# WIRING DIAGRAM



# REPLACEMENT PARTS LISTING



36V, 22AH AGM  
Battery Pack  
70381



5AH AGM  
Charger  
PI-11-0191



12V 22/24AH AGM  
Battery (3 required)  
PI-11-0215



Battery Indicator  
PI-08-0108



16" Pneumatic Tire  
PI-06-0188



Rear Caster with  
10" Flat Free Tire  
PI-06-0055

## BATTERY PACKS & CHARGERS

Part No	Description	Weight	Dimensions
70381	36V, 22AH Lithium Battery Pack		
PI-11-0191	5AH AGM Charger		
PI-11-0215	12V 22AH / 24AH Lithium Battery		
PI-08-0108	Battery Indicator		
PI-06-0188	16" Pneumatic Tire		
PI-06-0055	Rear Caster with 10" Flat Free Tire		



TransAxle 1400  
PI-08-0098



TransAxle Hub 1400  
PI-08-0250



S Drive 200  
PI-11-0253



Throttle Kit  
PI-08-0053



Fwd / Rev Switch  
PI-08-0061



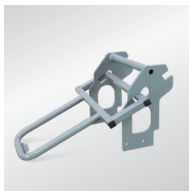
E-Stop Switch  
PI-08-0075



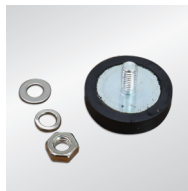
80AH Circuit Breaker  
PI-08-0147

## SWITCHES AND OTHER COMPONENTS

Part No	Description	Weight	Dimensions
PI-08-0098	Transaxle 1400		
PI-08-0250	Transaxle Hub 1400		
PI-11-0253	S Drive 200		
PI-08-0053	Throttle Kit		
PI-08-0061	Forward/Reverse Switch		
PI-08-0075	E-Stop Switch		
PI-08-0147	80 Amp Circuit Breaker		



Kick Stand  
MI-12-7069



Magnet  
PI-11-0267



Winch Kit  
70389



Winch  
PI-11-0264



12V 20AH Lithium  
Battery Pack for  
Winch  
PI-11-0275



12V 3AH Lithium  
Battery Charger for  
Winch  
PI-11-0274

## KICK STAND AND WINCH COMPONENTS

Part No	Description	Weight	Dimensions
MI-12-7069	Kick Stand		
PI-11-0267	Magnet for Kick Stand		
70389	Winch Kit		
PI-11-0264	Winch		
70379	12V 20AH Lithium Battery Pack for Winch		
PI-11-0274	12V 3AH Battery Charger for Winch		

## NOTES

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## NOTES

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**GRANITE**  
INDUSTRIES

All Overland Carts are manufactured by:

**Granite Industries**  
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Archbold, Ohio 43502

877-447-2648  
OverlandCarts.com | GraniteInd.com