

**HUMANHOIST®**

# Operation Manual

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# Safety

Safety is important in everything we do, and it is important when using your Human Hoist® Shop Chair.

Throughout this manual we will provide important information characterized as “Important”, “Caution”, or “Warning”:

**Important** – This is important information that will allow you to get the maximum benefits and fully utilize the features of your Human Hoist Shop Chair.

**Caution** – This is information regarding issues that could diminish the functionality or cause damage to your Human Hoist Shop Chair, or could result in minor injury to the operator or those nearby.

**Warning** – This is information about things that could seriously injure or result in the death of the operator or those nearby.

<p><b>WARNING:</b> The Human Hoist Power Shop Chair features dual hand controls. Any attempt to circumvent the proper operation of these controls can result in injury or death.</p>
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The following information should be read and understood by anyone who will be operating or working near the Human Hoist Shop Chair.

1. No more than one person on Human Hoist at any time. No one but the operator should touch the chair during operation.
2. To get the most from your Human Hoist Shop Chair, be sure the battery is fully charged before use.
3. Before lowering, raising, or moving your shop chair, be sure the area is clear of obstructions, bystanders, co-workers or pets.
4. Always remove the batteries and store in a secure, dry location when your Human Hoist Shop Chair is not being used.
5. Your Human Hoist Shop Chair should not be operated by anyone under the influence of alcohol or drugs. Anyone taking prescription drugs that could cause drowsiness or other side effects that might keep them from driving or operating heavy machinery should not use the Human Hoist Shop Chair.

Read all instructions. For safe operation, read and understand all instructions before using this product. Follow all safety instructions. Failure to follow all safety instructions can result in serious personal injury or death. Do not allow children or untrained individuals to use Human Hoist.

Check the work area before each use - Remove all objects such as stones, tools, fasteners, hoses, or cords which can impede movement or become entangled in the chair. Protect your eyes. Always wear eye protection with side shields marked to comply with ANSI Z87.1. Protect your lungs. Always wear a face or dust mask if the operation is dusty. Following these rules will reduce the risk of serious personal injury. Wear an appropriate bump cap or hard hat if there is a chance of your head injury while using Human Hoist.

Dress Properly – Use of substantial footwear is recommended when using Human Hoist. Do not wear loose fitting clothing, short pants, sandals, or go barefoot. Secure long hair above shoulder level to prevent entanglement in moving parts. Keep children and animals away – Keep all bystanders, children, and pets at least 10 ft. away.

Stay alert – Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication. Do not operate in poor lighting. Keep all parts of your body away from any moving part.

Avoid Dangerous Environments - Don't expose Human Hoist to rain or wet conditions. Do not operate Human Hoist in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.

Use the correct tool for your application while using Human Hoist. The correct tool will do the job better and safer at the rate for which it is designed. Don't force movement, if Human Hoist will not move, determine why before applying extra force

Do not overreach – Keep your balance. Overreaching can result in loss of balance and potential injury.

Do not use Human Hoist if switch trigger does not turn it on or off, or properly control the speed. Disconnect battery packs from Human Hoist before storing, cleaning, or changing accessories. Use only Genuine Human Hoist replacement parts and accessories. Use of any other parts may create a hazard or cause product damage. Maintain Human Hoist with care – Remove from service for any malfunction or damage. Failure to do so can cause serious injury. Keep handles dry, clean and free from oil and grease. Follow instructions for changing accessories.

Make sure all guards, straps, deflectors and handles are properly and securely attached. Use only Genuine Human Hoist accessories. Maintain a firm grip on both handles while raising or lowering Human Hoist.

Clean after each use. Remove battery packs when not in use. Store out of the reach of children. Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Disconnect battery before servicing, cleaning or

removing debris from Human Hoist. Use battery only with charger supplied. For use with Human Hoist Approved battery packs, only as originally supplied with your unit.

Do not dispose of the batteries in a fire. The cell may explode. Check with local codes for possible special disposal instructions. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed. Do not place batteries near fire or heat. This will reduce the risk of explosion and possibly injury. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns. For best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F. To reduce the risk of serious personal injury, do not store outside or in vehicles. Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.

Save these instructions. Refer to them frequently and use them to instruct others who may use Human Hoist. If you loan someone your Human Hoist, loan them these instructions also.

## **CALIFORNIA PROPOSITION 65**

### **WARNING:**

This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects and other reproductive harm. ***Wash hands after handling.***

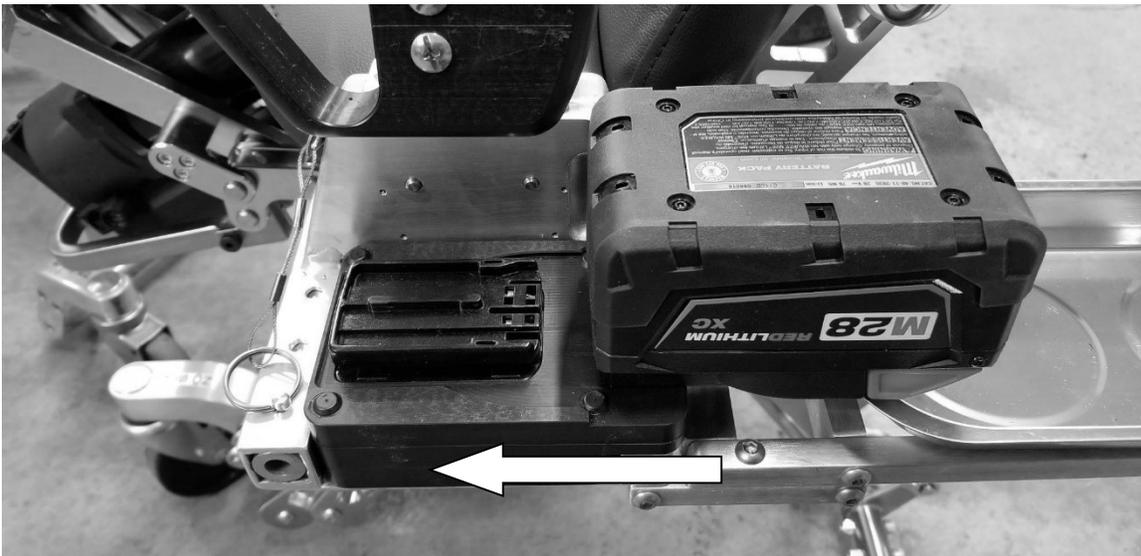
# Operation

**IMPORTANT:** Before using your Human Hoist for work take a few minutes to familiarize yourself with the controls and operation. Practice lowering and raising the chair at different speeds using the throttle trigger to move fast and slow. Find and operate the brake on each wheel, operate the headrest with the chair all the way down, and practice rolling from one area to another.

**WARNING:** Never raise the chair beneath the work.

Be sure you've thoroughly read and understand all safety information before using Human Hoist. The following operating instructions use the term "Human Hoist" and "chair" interchangeably.

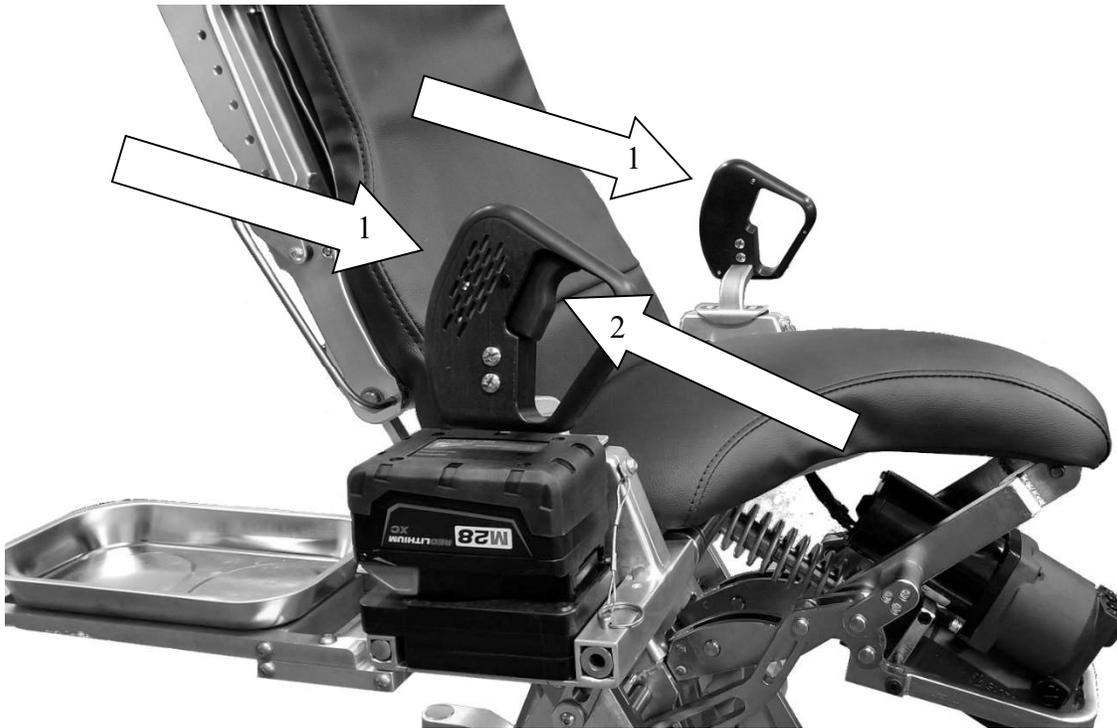
1. Install one or both batteries. Fully charge and/or check the battery state of charge before each use. Place the battery on the electrical enclosure and slide forward firmly until it locks in place.



2. Survey the area around the Human Hoist, the area where you intend to use the Human Hoist, and the path between. Be sure there are no obstructions on the floor, or overhead hazards.
3. Sit on the seat with your back against the backrest. Be sure your feet are on the floor and not resting on the front wheel support.

**CAUTION:** Always set direction first by pressing both handles in the same direction (away for down, to the rear for up) *before* pressing the throttle trigger. Changing direction with the throttle engaged can cause erratic operation and relay damage.

4. **To Lower the Chair** – 1) first, press both control handles forward, away from you, until they stop, then, 2) Slowly pull the throttle trigger (right side handle standard) until the chair begins to move. The speed of the chair is controlled by how far the trigger is pulled – pulling the trigger as far as it will go will move the chair at maximum speed. Releasing the trigger (or either handle) will cause the chair to stop.

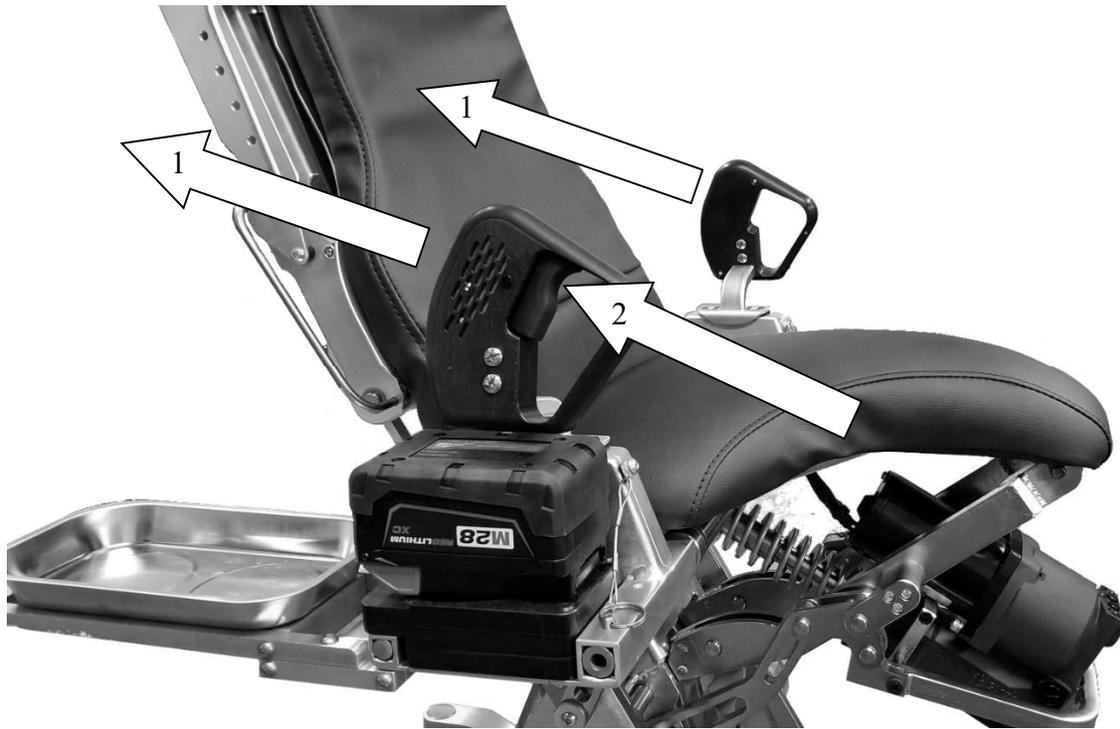


5. Release the trigger when you've reached your desired height position. If you're working under a vehicle or machine, it is recommended that you lower the chair to the desired working height before getting beneath the work. If you need to raise the chair, move out from under the work before raising the chair, then roll back under the work. Never raise the chair beneath the work.

**WARNING:** Never raise the chair beneath the work.

6. Once you've completed your task, lower the chair to its lowest position and move out from under the work. Roll out to a safe position, ensuring adequate clearance for the chair and the headrest.

7. **To Raise the Chair** – 1) First, pull both handles back, toward you, until they stop, then, 2) Slowly pull the throttle trigger (right side handle standard) until the chair begins to move. The speed of the chair is controlled by how far the trigger is pulled – pulling the trigger as far as it will go will move the chair at maximum speed. Releasing the trigger (or either handle) will cause the chair to stop. (Note: don't pull back on the handles to “help” the chair lift you, excess force can damage the control handles. Let Human Hoist do the lifting).



**WARNING:** Never raise the chair beneath the work.

8. Release the trigger when you've reached your desired height position.

**Tip:** Taller users might find it easier to stand when Human Hoist is all the way up. Users with shorter legs might find that it's easier to stop Human Hoist when their feet are flat on the floor.

9. The chair can be stopped at any point in its travel for use as a stool – simply sit straight up rather than lying back when lowering the chair. (Note: Be aware of the position of the headrest as the chair back gets closer to the ground.)

**CAUTION:** Be sure headrest and backrest are clear of obstructions before raising chair. Severe damage will result if Human Hoist is raised against heavy or immovable objects.

# Adjustments

## Backrest

The Human Hoist backrest is adjustable in approximately 10-degree increments. The backrest has 3 distinct modes.

1. Creeper Mode – in this mode the backrest will descend to a flat creeper position every time Human Hoist is lowered to the lowest position. Creeper Mode is the default mode and requires no adjustments unless Human Hoist has been set to Chair Mode.
2. Reclined Mode – this mode features a series of detents that allow the adjustment of the backrest in approximately 10-degree increments at the lowest point of chair travel. As Human Hoist is cycled up and down, the backrest will remain at the selected angle until the chair is fully raised. Once Human Hoist is raised to the fully up position, the adjuster will auto-release, placing Human Hoist back into Creeper Mode.
3. Chair Mode – in this mode the backrest will remain fully upright throughout the entire range of Human Hoist, from fully up to fully down. This mode must be manually released to place Human Hoist back in Creeper Mode.

Backrest adjustments are made using the ¼” diameter wire adjusting handles on the sides of the backrest adjusters. The uppermost adjusters are used for raising the backrest; the lowermost adjusters are used for lowering the backrest.

Any adjustments made except as outlined below under the heading “Backrest Seat Lock” will auto-release when the chair is returned to the full upright position, allowing the backrest to lower to the full creeper position the next time the chair is lowered. This is referred to as “Creeper Mode”. Stopping just short of fully upright will retain the previous setting when the chair is again lowered, allowing the backrest to remain in “Reclined Mode”.

### **Reclined Mode:**

**Raising the Backrest:** The backrest is raised by pulling upward on *either* of the uppermost wire handles on the side of the backrest. With Human Hoist in the fully down (creeper position) and from a sitting position, pull the uppermost wire handle on either side to raise the backrest. The backrest will click as each detent is passed, stop when the desired height is reached. (See page 9)

**Lowering the Backrest:** The backrest is lowered by pulling upward on *both* of the lowermost wire handles on the side of the backrest. (See page 9)

**Raising the Backrest:**

The backrest is raised by pulling upward on *either* of the uppermost wire handles on the side of the backrest. With Human Hoist in the fully down (creeper position) and from a sitting position, pull the uppermost wire handle on either side to raise the backrest. The backrest will click as each detent is passed, stop when the desired height is reached.



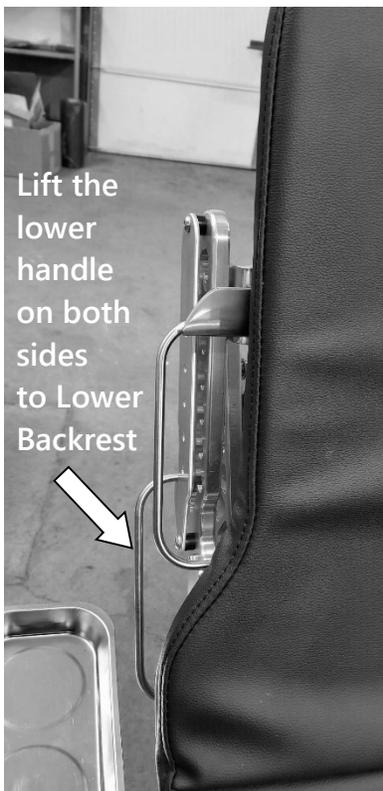
**CAUTION:** Be sure that both adjusters are latched before proceeding. Re-adjust the backrest if both adjusters are not fully engaged.

**Lowering the Backrest:**

The backrest is lowered by pulling upward on *both* of the lowermost wire handles on the side of the backrest.

NOTE: BOTH handles must be actuated to lower the backrest.

Tip: Lean forward to release the pressure on the adjusters and pull the lower handles up (toward the seat back). Once the pressure is released on both adjusters, let the backrest down to the desired position and release the handles.



**CAUTION:** Be sure that both adjusters are latched before proceeding. Re-adjust the backrest if both adjusters are not fully engaged.

**IMPORTANT:** *BOTH* handles must be actuated to lower the backrest. This is a safety feature that requires both hands to prevent pinching injuries.

**Backrest Seat Lock – Chair Mode:** With Human Hoist in the fully upright position, pull the uppermost wire handles on the seat back adjuster forward. The backrest will tilt forward slightly and remain there when the adjusters are released. This detent will keep the seat back in the fully upright (seated) position throughout the entire travel of the chair and will not auto-release when the chair reaches the fully upright position.

## Headrest

The headrest has 5 positions and is easily adjusted for proper positioning and support.

**Raising the Headrest:** The headrest is raised by pulling up the top of the headrest. The headrest will click as each detent is passed, stop when the desired height is reached. The lowest position is very low and is ideal for looking backwards before moving.



**Lowering the Headrest:** The headrest is lowered by raising the headrest slightly then depressing the wire handle at the top center of the rear of the headrest. Lower the headrest and release the handle when the desired height has been reached.



Tip: Use the lowest headrest position to look behind you when moving in the creeper mode to make sure the area you are moving into is clear of obstructions.

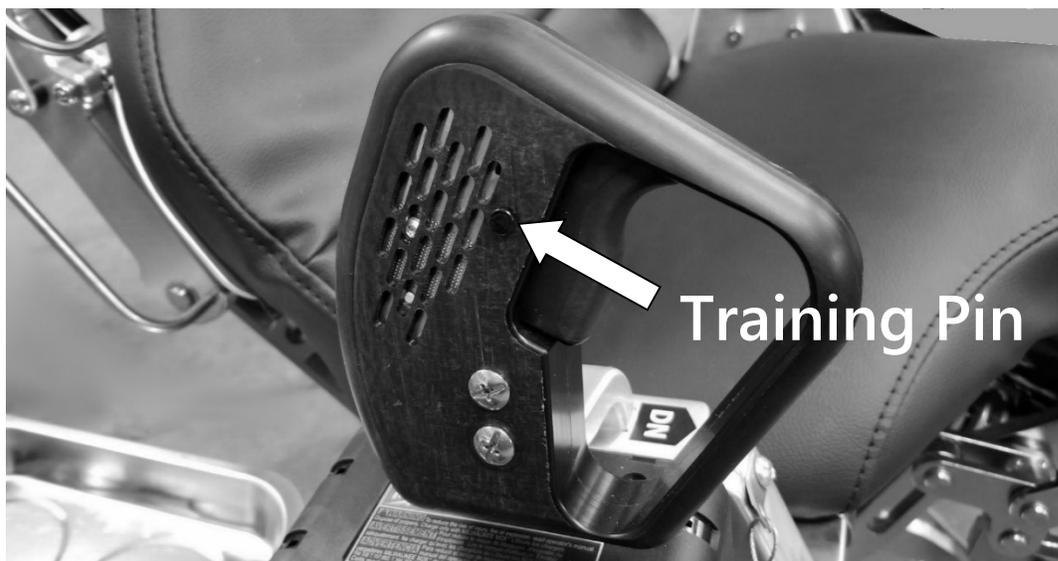
## Handle Width

Handle width is adjustable to provide added seating space when needed. Each handle has 3 positions to increase available seat width by a total of 5". To adjust the handles, remove the clevis pin at the front of the control unit and slide the handle out to the desired position. Re-install the clevis pin once the desired setting has been reached.



## Training Pin

The Training Pin is installed at the factory and limits the speed at which Human Hoist moves for new operators or when full speed is not desired. The pin is easily removed and inserted from the outside of the right side handle grip.



## Battery Care and Maintenance

**Lithium Iron Battery Packs** deliver fade free power for their entire run time. The supplied lithium-ion batteries will not gradually lose power due to decreasing battery charge. Instead, power from the battery pack will drop from full to zero once the full charge has been drained from the battery. Once this happens, recharging of the battery is required. It is not necessary to drain the battery pack completely before recharging.

### **Battery Protection Features:**

Lithium-ion battery packs are designed with features that protect the lithium-ion cells and maximize battery life. If the tool stops during use, release the trigger to reset and resume operation. If the tool still does not work, the battery needs to be recharged.

### **Cold Weather Operation**

The lithium-ion battery pack can be used in temperatures down to  $-4^{\circ}\text{F}$ . Put the battery pack on a tool and use the tool in a light duty application. After about a minute, the pack will warm up and begin operating normally.

### **Battery State of Charge Gauge**

To display the amount of charge left in the battery, press the charge level indicator button as shown below.



# Routine Maintenance

The Human Hoist Power Shop Chair is designed for years of trouble-free service with no mechanical maintenance. The only maintenance required is to remove the batteries and wipe the seat and frame with a damp cloth occasionally to remove dirt and accumulated debris.

## Battery Charging

### Charging the Battery Pack

Battery packs are shipped in a low charge condition to prevent possible problems. Therefore, you should charge prior to first use. If the charger does not charge the battery pack under normal circumstances, return both the battery pack and charger to your nearest Authorized Service Center for electrical check.

- Charge the battery pack only with the recommended charger.
- Connect the charger to a power supply. For approved power sources, refer to the operator's manual for the charger.
- Make sure the battery pack is secured in the charger before beginning operation.
- Press down on the battery pack to be sure contacts on the battery pack engage properly with contacts in the charger.
- The battery pack may become slightly warm to the touch while charging. This is normal and does not indicate a problem.
- Do not place the charger and battery pack in an area of extreme heat or cold. They will work best at normal room temperature.
- When batteries become fully charged, unplug the charger from the power supply and remove the battery pack.

### Charging a hot Battery Pack

When using a tool continuously, the battery pack may become hot. A hot battery pack may be placed directly onto the charger port but charging will not begin until the battery temperature cools to within acceptable temperature range. When a hot battery pack is placed on the charger, the red LED will begin flashing and the green LED will be off. When the battery pack cools, the charger will automatically begin charging.

### Charging a Cold Battery Pack

A cold battery pack may be placed directly onto the charger port but charging will not begin until the battery temperature warms to within acceptable temperature range. When a cold battery pack is placed on the charger, the red LED will begin flashing and the green LED will be off. When the battery pack warms, the charger will automatically begin charging.

### Battery Life

These batteries have been designed to provide maximum trouble-free life. However, like all batteries, they will eventually wear out. Do not disassemble battery pack and attempt to replace the batteries. Handling of these batteries, especially when wearing rings and jewelry, could result in a serious burn.

**To obtain the longest possible battery life, we suggest the following:**

- Remove the battery pack from the charger once it is fully charged and ready for use.

**For battery pack storage longer than 30 days:**

- Store the battery pack where the temperature is below 80°F and away from moisture.
- Store battery packs in a 30%-50% charged condition.
- Every six months of storage, charge the pack as normal.

**Battery Pack removal and preparation for recycling**

To preserve natural resources, please recycle or dispose of batteries properly.

This product contains lithium-ion batteries. Local, state or federal laws may prohibit disposal of lithium-ion batteries in ordinary trash.

Consult your local waste authority for information regarding available recycling and/or disposal options.

**WARNING!** Upon removal for recycling, cover the battery pack's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble battery pack or remove any of its components. Lithium-ion batteries must be recycled or disposed of properly. Also, never touch both terminals with metal objects and/ or body parts as short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

## Repairs

If your Human Hoist is damaged or malfunctions in use, **remove it from service immediately** and contact Technical Support for guidance. Call 989-843-3020, option 3 or email [repair@humanhoist.com](mailto:repair@humanhoist.com)

In the unlikely event of a malfunction, contact the factory immediately for assistance. All repairs, including those components covered by warranty, must be performed by the factory. Do not contact component manufacturers as they will not be able to provide replacement parts to you under warranty.

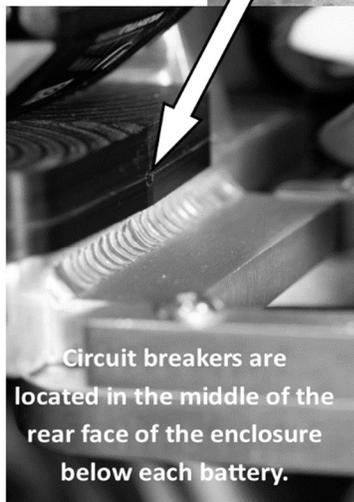
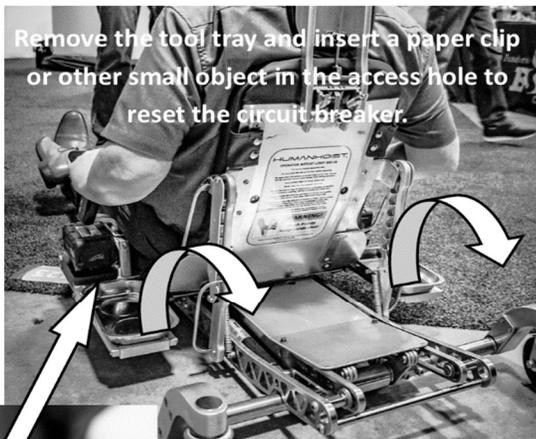
Repairs or modifications by anyone other than Human Hoist LLC, it's agents, authorized dealers or repair centers, or other factory designated and trained representative voids all warranties and could result in serious injury or death.

## Troubleshooting

Problem	Possible Causes	Corrective Actions
Chair will not operate	Undercharged Battery	Charge Battery
	Battery not seated	Remove and reseal battery
	Tripped Circuit Breaker	Reset Circuit Breaker
	All other causes	Contact Tech Support
Trigger does not control speed	Speed Control Transistor inoperative	Contact Tech Support For control unit exchange
Chair will not roll freely	Caster Brake Applied	Release Caster Brake

## Circuit Breaker Reset

Each control handle is protected by a circuit breaker. The circuit breaker can be accessed by removing the tool tray and inserting a paper clip or small wire into the hole in the rear face of the enclosure, below each battery.



For Technical Support call 989-843-3020, option 3



Human Hoist is a product of  
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