

**⚠ WARNING!** *Serious injury or damage can occur with using this product. Read and understand this manual before using the Liberty Trike.*



# **LIBERTY TRIKE**

## **OWNER'S MANUAL**



1-866-894-4620 // [Support@LibertyTrike.com](mailto:Support@LibertyTrike.com)

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v12.08.23

# **WARNING!**

**SERIOUS INJURY OR DAMAGE CAN  
OCCUR WITH USING THIS PRODUCT.**

**ACCESS AND READ THE INSTRUCTIONS AND  
WARNING MANUAL FOR THIS PRODUCT  
BEFORE ASSEMBLY AND USE!**

**DO NOT ASSEMBLE AND USE YOUR  
LIBERTY TRIKE WITHOUT FIRST READING  
AND UNDERSTANDING THE MANUAL.**

Failure to read and understand the Liberty Trike Owner's manual and its warnings specific to this product could result in dangerous situations, accidents, damage to the Liberty Trike, damage to property, injury to you and others, or death.



# THANK YOU FOR CHOOSING LIBERTY TRIKE!

Welcome to a vibrant community of Liberty Trike enthusiasts, with members of all ages. For many, the Liberty Trike transcends being a mere mode of transportation; it's a gateway to a more active, independent life. Numerous owners express joy at rediscovering mobility and freedom, often describing the experience as a thrilling return to their youth. Are you prepared for a transformative adventure?

Stay connected with us! Follow our Facebook, Instagram, and Twitter accounts to join the ongoing conversation with other Liberty Trike riders. Dive into our Liberty Trike Owners group to share your experiences, post pictures, ask questions, and offer insights to those curious about the world of Liberty Trike. Your voice and story can inspire and guide others on this electrifying journey. However, for the most reliable information, always consider Liberty Trike as your primary, trusted resource.

Welcome Aboard, and Happy Triking!

## CONTACT LIBERTY TRIKE

### OPERATING HOURS:

- Monday to Friday from 9 am to 5 pm (Eastern Standard Time)

### GET IN TOUCH:

- Email: [support@libertytrike.com](mailto:support@libertytrike.com)
- Phone: 1-866-894-4620
- Website: <https://www.libertytrike.com>

### RESOURCES & SUPPORT:

- Our Service Desk is ready to assist you. Send your questions, images, and videos to text: 215-586-4522 for prompt assistance.
- Watch our Helpful Videos to gain a better understanding of the Liberty Trike.  
Link: <https://www.libertytrike.com/pages/libertytrike-helpful-videos>

### STAY CONNECTED ON SOCIAL MEDIA:

- **Facebook:**
  - LibertyTrike.com Official Page: <https://www.facebook.com/libertytrike>
  - Official Liberty Trike Owners Group: <https://www.facebook.com/groups/libertytrike>
- **Instagram:** Follow us <https://www.instagram.com/libertytrike>
- **Twitter:** Follow us <https://twitter.com/LibertyTrike>

We look forward to serving you and being a part of your Liberty Trike experience!

# TABLE OF CONTENTS

## **P. 2: WARNING**

## **P. 3: THANK YOU AND CONTACT INFO**

## **PGS. 4 & 5: TABLE OF CONTENTS**

## **P. 6: TERMS AND CONDITIONS**

## **P. 7: RETURNS AND REFUNDS**

- Risk Free Trial Period
- Refurbished Liberty Trikes
- Returning After 21 Days Trial Period
- Returns and Replacements
- Refunds

## **PGS. 8: WARRANTY**

- Limited Warranty
- What Isn't Covered by the Liberty Trike Warranty
- What Isn't Covered by the Limited Liberty Trike
- Warranty Claims

## **P. 9: SYMBOLS AND WARNINGS**

## **P. 10: FOR THE PARENTS**

## **P. 11: RIDER RESPONSIBILITIES**

## **P. 12: KID & CARGO TRAILER SAFETY & HITCH OR BIKE RACK SAFETY**

## **P. 13: BICYCLE AND TRICYCLE SAFETY RULES**

## **P. 14: COMPONENTS OF THE LIBERTY TRIKE**

## **PGS. 15-17: DETAIL COMPONENTS**

- The Front Wheel
- The Rear Wheels
- Rear Freewheel Components
- Handlebar Controls
- Drivetrain Components
- Battery Components
- Charger Components

## **P. 18: BOX CONTENTS**

- What's Inside the Box?

## **P. 19: QUICK-RELEASE LEVER OVERVIEW**

- The Quick-Release Lever
- How to Tighten a Quick-Release Lever
- How to Loosen a Quick-Release Lever

## **P. 20: FRAME ASSEMBLY**

- Connecting the Frames

## **P. 21: THE FRONT WHEEL**

- The Correct Position

## **P. 22: CABLE ASSEMBLY**

- The 3-to-1 Accessory Cable
- The Controller to the Battery
- The Battery Connection

## **P. 23: SEATPOST & SADDLE HEIGHT**

- How to Find Your Correct Seat Height
- Inserting the Seatpost
- Aligning & Tightening

## **P. 24: INSTALLING THE STEM**

- Installing the Stem
- Before Adjusting the Stem Height
- Adjusting the Stem Height

## **P. 25: THE HANDLEBAR REACH**

- Finding the Correct Reach
- Adjusting the Handlebar Reach

## **P. 26: REAR BASKET ASSEMBLY**

- Installing the Rear Basket
- Removing the Rear Basket

## **P. 27: BATTERY OVERVIEW**

- Battery Key Positions
- The Battery Locking Pin
- About the Battery Keys
- Did You Lose Your Keys?

## **PGS. 28 & 29: LITHIUM-ION BATTERY SAFETY**

- Transport
- Fires and Emergencies

## **PGS. 30 & 31: CHARGING THE BATTERY**

- How to Charge the Battery
- The Charging Indicator
- What is Battery Balancing?

## **P. 32: DRIVING OVERVIEW**

- How to Use the Throttle
- How to Turn and On Slopes
- How to Drive in Reverse

## **PGS. 33 & 34: BRAKING OVERVIEW**

- It Takes Practice
- How to Use the Coaster Brake
- How to Use the Front Disc Brake
- The Parking Brake
- Applying the Parking Brake
- Releasing the Parking Brake

# TABLE OF CONTENTS (CONTD.)

## **P. 35: TIRE INFLATION**

- Variance Range for Inflation
- How to Inflate a Tire
- How to Deflate a Tire

## **P. 36: TO DISASSEMBLE OR FOLD**

- You Have Options

## **PGS. 37-39: DISASSEMBLING THE TRIKE**

- Disconnecting the Cables
- How to Remove the Rear Basket
- How to Disconnect the Frames
- How to Remove the Handlebar & Stem
- How to Seatpost & Saddle

## **P. 40: FOLDING THE LIBERTY TRIKE**

- Why Would You Fold the Liberty Trike
- What to Disconnect
- How to Fold the Liberty Trike

## **P. 41: LCD OVERVIEW**

- LCD Overview
- Remote Pad Overview

## **PGS. 42 & 43: LCD CONTROLS**

- How to Turn the LCD On and Off
- How to Increase and Decrease the Power Levels
- How to Use Walk Assist
- Increasing the Back Light
- Using the USB Port

## **P. 44: POWER LEVELS**

- About the Power Levels

## **P. 45: LCD FUNCTIONS**

- How to Change the Trip, ODO, Ride Time, Maximum and Average Speed Settings
- How to Reset the Maximum and Average Speed Settings
- How to Reset the Trip Distance

## **P. 46: TORQUE SPECS**

- These are Only Recommendations

## **P. 47: TROUBLESHOOTING/ERROR CODES**

- Why Doesn't My LCD Screen Turn On or Why Doesn't My Motor Run?
- Error Codes and Probable Causes
- Why Does My Battery Appear Empty After Charging?

## **P. 48: CLEANING & LUBING THE LIBERTY TRIKE**

- How to Clean the Liberty Trike
- How to Lube the Liberty Trike Chain

## **PGS. 49 & 50: MAINTENANCE & SERVICE GUIDELINES**

- Routine Checks
- Additional Weekly Checks
- Quarterly Maintenance
- Bolt and Torque Specs
- Biannual Maintenance

## **P. 51: LIBERTY TRIKE SIZING**

## **P. 52: LIBERTY TRIKE SPECS**

## **P. 53: LIBERTY TRIKE BATTERY SPECS**

# TERMS AND CONDITIONS

Liberty Trike is a subsidiary brand of Electric Bike Technologies, Inc. Users must follow the instructions and warnings contained on this page, in supplied videos and in the manual\* where provided for safety. Do not attempt to operate your electric bicycle, tricycle, or conversions system from Electric Bike Technologies, Inc. until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty. Failure to read and understand instructions and warnings specific to this product could result in dangerous situations, accidents, damage to the electric tricycle, damage to property, injury to you and others, or death. If you have any questions about assembly or operation, contact Liberty Trike at **1-866-894-4620** or by email at [support@libertytrike.com](mailto:support@libertytrike.com).

It is impossible to anticipate every situation or condition that can occur while riding; Electric Bike Technologies, Inc. makes no representations about the safe use of electric tricycles under all conditions. There are risks associated with the use of any electric tricycle that cannot be predicted or avoided and are the sole responsibility of the rider. You and any user assume such risks.



## **\*WANT TO LEARN MORE ABOUT YOUR LIBERTY TRIKE?**

### **Watch Our Helpful Videos Page**

Click or copy this link: <https://www.libertytrike.com/pages/libertytrike-helpful-videos>

### **View the Documents and Manuals Page**

Click or copy this link: <https://www.libertytrike.com/pages/liberty-trike-owners-manual>

# RETURNS AND REFUNDS

## RISK-FREE TRIAL PERIOD

In spirit of our "NO RISK" program, we invite you to try the Liberty Trike for 21 days. If you don't absolutely love it, give us a call at **1-866-894-4630**, or email, [support@libertytrike.com](mailto:support@libertytrike.com), to arrange a return. We'll then issue you a full refund, minus the cost of shipping. Please note that the shipping cost is \$40 each way, totaling \$80. This applies even if your original purchase was made during a free shipping promotional period.

## RETURNING AFTER 21 DAY TRIAL PERIOD

Buyers may return any undamaged and unused products within thirty days of delivery for a full refund minus a 20% restocking fee. Shipping charges are non-refundable. Return shipping and insurance are the responsibility of the buyer. We recommend retaining your Liberty Trike box and repacking\* the trike with the utmost care for the return process.

Items must be received at Electric Bike Technologies, Inc. in Croydon, PA, no later than thirty days after our original shipping date. If the Liberty Trike is returned in poor condition (to be determined solely by EBT) or refusal of delivery; in that case, Electric Bike Technologies, Inc. reserves the right to deduct for any wear or damages, including excessive mileage or extra shipping costs due to refusal. Please save your box and take extreme care in repackaging\* the Liberty Trike.

## REFURBISHED LIBERTY TRIKE

There is no 21 days trial program for an refurbished Liberty Trike. These refurbished trikes are very lightly used and/or have minor cosmetic blemishes.

## REPAIRS AND REPLACEMENTS

All returns for repair or replacement should be preceded by contacting Electric Bike Technologies, Inc. at **1-866-894-4620** for approval. Upon approval, we will open a service ticket to track and communicate the progress of the claim or service. Please note all shipping charges related to returns or repairs covered under warranty are the buyer's responsibility.

## REFUNDS

Refunds are issued within two days of receipt of the returned merchandise. Please allow 3-6 business days for the credit to appear on your credit card. Any type of refunds, including but not limited to cancellations, refused items, etc., will be made back to the credit card or however the consumer paid.



## \*LEARN HOW TO REPACK THE LIBERTY TRIKE

Click or copy this link to our Blog Post:

<https://www.libertytrike.com/blogs/liberty-trike/liberty-trike-how-to-pack-a-liberty-trike-for-shipping>

# WARRANTY

## LIMITED WARRANTY

The Liberty Trike is warranted to the original retail purchaser to be complete and free from defects in materials and workmanship for one year from the date of purchase. The warranty only covers the frame, fork, and electronic components: motor, battery, display (hereinafter: Electric Bike Tech products). The warranty only covers new Electric Bike Tech products that were purchased from Electric Bike Technologies, Inc. All other parts and components are excluded from this warranty. Electric Bike Tech products warranties are effective from the date of purchase by the end-user provided the product is purchased in new condition.

## WHAT ISN'T COVERED BY THE LIBERTY TRIKE WARRANTY

**SPIN OUT**—This is spinning out the axles inside your dropouts. The torque arm must be installed at all times. When fixing a flat, make sure your mechanic correctly reinstalls the torque arm, or damage can occur.

**OVER VOLTAGE**—Connecting a larger battery, as in larger than the supplied 36-volt battery, can damage the controller and other system parts. Only purchase replacement batteries from Electric Bike Technologies, Inc.

**IMPROPER BATTERY MAINTENANCE**—Is damage to the battery and or battery cells due to improper care and overcharging, undercharging, punctures, dropping the battery, or using a charger that has not been approved for use by Electric Bike Technologies, Inc. Lithium-ion batteries require proper charging cycles to maintain the life and integrity of the cells. Failure to adhere to the proper care and upkeep directions laid out on pages 49 and 50 could potentially fail the battery and cause damage to the cells, which could result in bodily injury or death.

**DAMAGE**—Caused by the weather, exposure to water, dropping, or any collision is not covered under warranty.

**ALTERED PARTS**—The use of unauthorized service, parts, and/or components, or altering of any and all provided parts or components, including battery and/or electric systems.

**OTHER MANUFACTURERS**—Parts from other manufacturers may carry a warranty with their respective manufacturer, and it will be the purchaser's responsibility to pursue such warranties.

**INTERNATIONAL SALES (EXCLUDING CANADA)**—The Liberty Trike warranty does not extend to international customers or domestic customers that have taken their Liberty Trike abroad. Regardless of defects in materials or workmanship, Electric Bike Technologies, Inc. will not cover the cost of replacement parts, shipping, or repairs outside of the 48 continental United States. All sales outside of the contiguous USA are final and not subject to our return policy.

## WHAT ISN'T COVERED BY THE LIMITED LIBERTY TRIKE WARRANTY

Warranties are limited to the replacement of parts and/or products determined by Electric Bike Technologies, Inc. at its sole discretion to be defective.

Warranties do not apply to normal wear and tear; any damage, failure and/or loss caused by accident, shipping, misuse, neglect, abuse, and/or failure to follow instructions or warnings as stated on the product or in the applicable owner's manual or other printed materials provided with the product; damage, failure, and/or loss caused by the use of the product for stunt riding, ramp jumping, competition, off-road use, acrobatics, trick riding or other similar activities, or use in any other manner for which such products were not specifically designed.

Rentals, Commercial Use, and Non-Authorized or 3rd Party Sellers. The Liberty Trike limited warranty does not cover or apply to any Electric Bike Technologies, Inc. product used for rental or commercial purposes unless the specific product is designated, labeled, or marketed by Electric Bike Technologies, Inc. as acceptable for rental or commercial use. The Liberty Trike Limited Warranty does not cover or apply to any Electric Bike Technologies, Inc. product sold by a non-authorized reseller or retailer.

## WARRANTY CLAIMS

**Those parts and/or products that are determined by Electric Bike Technologies, Inc., to be defective and to qualify for warranty replacement will be provided at no charge, only after a valid warranty claim is processed by Electric Bike Technologies, Inc. customer service department.** Warranty claims must be made by the original purchaser by contacting the Electric Bike Technologies, Inc. customer service for the Liberty Trike at **1-866-894-4620** within the warranty period (stated above). Shipping and handling fees will be paid by Electric Bike Technologies, Inc.

**Electric Bike Technologies, Inc., at its Sole Discretion, has the Option of Replacing with a New Part or Factory Re-Certified Part.** The limited warranty stated herein is in lieu of and expressly excludes all other warranties not expressly set forth herein, whether expressed or implied by law or otherwise, including, but not limited to, any warranties for merchantability and/or fitness for any particular purpose. Electric Bike Technologies, Inc. shall in no event be liable or responsible for incidental or consequential losses, damages, or expenses in connection with their products. The liability of Electric Bike Technologies, Inc. hereunder is expressly limited to the replacement of goods complying with this warranty or at the sole discretion of Electric Bike Technologies, Inc. to the repayment of an amount equivalent to the purchase price of the product in question.





# SYMBOLS AND WARNINGS


Like any sport, cycling involves the risk of injury and damage. By choosing to ride an electric tricycle, you assume the responsibility for that risk, so you need to know and practice the rules of safety, responsible riding, proper use, and maintenance. The appropriate use and maintenance of the Liberty Trike will significantly reduce the risk of an injury.


It's impossible to anticipate every situation or condition which can occur while cycling, this Liberty Trike owner's manual makes no representation about the safe use of the electric tricycle under all conditions. There are risks associated with the use of any electric tricycle which cannot be predicted or avoided and which are the sole responsibility of the rider.

When you review the Liberty Trike Owner's manual, you'll notice specific symbols and warnings at the beginning of various sections. We strongly advise you to understand these Warnings, Cautions, Tech Tips, or Notes before delving into the rest of the content. We'll provide a detailed explanation of these symbols and warnings below.

 **WARNING!** The combination of this symbol and words indicates a potentially hazardous situation that, if not avoided, could result in serious injuries or death. Many of the warnings say, "you may lose control and fall." Because any fall can result in serious injuries or even death, we do not always repeat the warning of possible injury or death.

 **CAUTION:** The combination of this safety alert symbol and the word CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury or is an alert against unsafe practices. The word CAUTION used without a safety alert symbol indicates a situation that, if not avoided, could result in severe damage to the electric tricycle or the voiding of your warranty.

 **TECH TIP:** This symbol offers helpful tips and tricks regarding installation and use.

 **NOTE:** This symbol alerts the reader to information that is particularly important and useful.

# FOR THE PARENTS

**⚠ WARNING!** Ensure that your child always wears an approved bicycle helmet and closed-toe shoes when riding. It's also important that your child understands that a bicycle helmet is for bicycling only and must be removed when not riding. Failure to follow this warning could result in severe injury or death.

It's essential to understand the basics of riding an electric tricycle, but it's equally important to exercise common sense when cycling. Cycling is a dynamic sport and requires reacting to varying situations. Like any sport, cycling involves risk of injury, damage to yourself, others, properties, and death. By choosing to ride the Liberty Trike, you are assuming responsibility for those risks.

If you purchase (or received it as a gift) the Liberty Trike for a minor, it's essential that a responsible adult/parent thoroughly review and read the Liberty Trike Owner's Manual to the minor.

As the parent or guardian, you must read this manual and review its warnings and the electric tricycle's functions and operating procedures with your child, and make sure the child understands and can implement them, before letting your child ride the Liberty Trike. You should be there and assist your child while learning to ride. Children need to be able to use the trike and control it in any and all situations, including hills, slopes, and varied surfaces. All minor riding and use of the Liberty Trike should be done under and with adult supervision.

In addition to specifics as to this product and bike riding, you also need to use common sense and teach your child about bicycle and traffic laws and signs, and riding in shared urban areas.

The Liberty Trike is not made or intended to be ridden by more than one person at a time. It is not intended to carry multiple people or minors.

As the parent or guardian, you must read this manual and review its warnings and the electric tricycle's functions and operating procedures with your child before letting your child ride the Liberty Trike.

This manual will answer many of your questions but if you encounter any problems or still have a question, contact customer service at 1-866-894-4620, before final assembly and/or riding the Liberty Trike.

# RIDER RESPONSIBILITIES

**⚠ WARNING!** Potential for Injury! Read and understand this manual before assembly and use! It would be best to practice riding your electric tricycle by starting slowly and improving your skills.

- ▶ The operator (rider) is solely responsible for obeying all federal, state, and local traffic laws and any other law related to electric bicycles, tricycles or other vehicles. Electric Bike Technologies, Inc. assumes no legal responsibility for the operation of its products on public or private property.
- ▶ Electric Bike Technologies, Inc. cannot offer any legal advice pertaining to the operation of the electric tricycle in a particular area and does not guarantee that the electric tricycle are legal for you to operate.
- ▶ Electric tricycles may be restricted in speed or power output in your area. As the operator (rider), it is your responsibility to research, understand, and obey all applicable laws.
- ▶ Always wear a helmet and closed-toe shoes. Obey all rules of the road and all local traffic laws.
- ▶ Please only ride within your ability. Do not exceed safe speeds, corner quickly, or attempt to ride over uneven terrain. Failure to ride safely may result in severe injury or death.
- ▶ Do not operate your electric tricycle when weather, road conditions, or traffic make it unsafe to do so.
- ▶ Since the operator (rider) has assembled and maintained the electric tricycle, Electric Bike Technologies, Inc. disclaims that the customer agrees to assume any responsibility and liability for injury, damage, or other consequences arising from the use of this product.
- ▶ Maintain your electric tricycle and service all parts regularly and scrutinize them before operation. Do not ride your electric trike if any of the components are cracked, loose, broken, or mis-adjusted. Seek a qualified bicycle mechanic to perform the tune-ups or repairs.
- ▶ Riding an electric tricycle can result in severe injury or death.

# KID AND CARGO TRAILER SAFETY AND HITCH OR BIKE RACK SAFETY

## KID AND CARGO TRAILER SAFETY

Please be aware that the use of (third party) kid trailers and/or cargo trailers will cause extra load stress and increase wear on the Liberty Trike electric and/or mechanical parts.

Since there are different types of trailer attachments available (depending on brand/model/etc.), it is impossible to list each combination and predict the outcome for each usage scenario. There is no promise that such trailers can be connected or that they can be safely used with the Liberty Trike and the Customer does assume all liability for such use, and Electric Bike Technologies, Inc. assumes no liability for such use.

Always follow the trailer manufacturer's instructions for installation, usage, and safety. Never modify the original parts of the Liberty Trike to accommodate a (third party) trailer(s). Never exceed the total load weight of the Liberty Trike.

*See page 53, for the Liberty Trike Specs.*


## HITCH OR BIKE RACK SAFETY

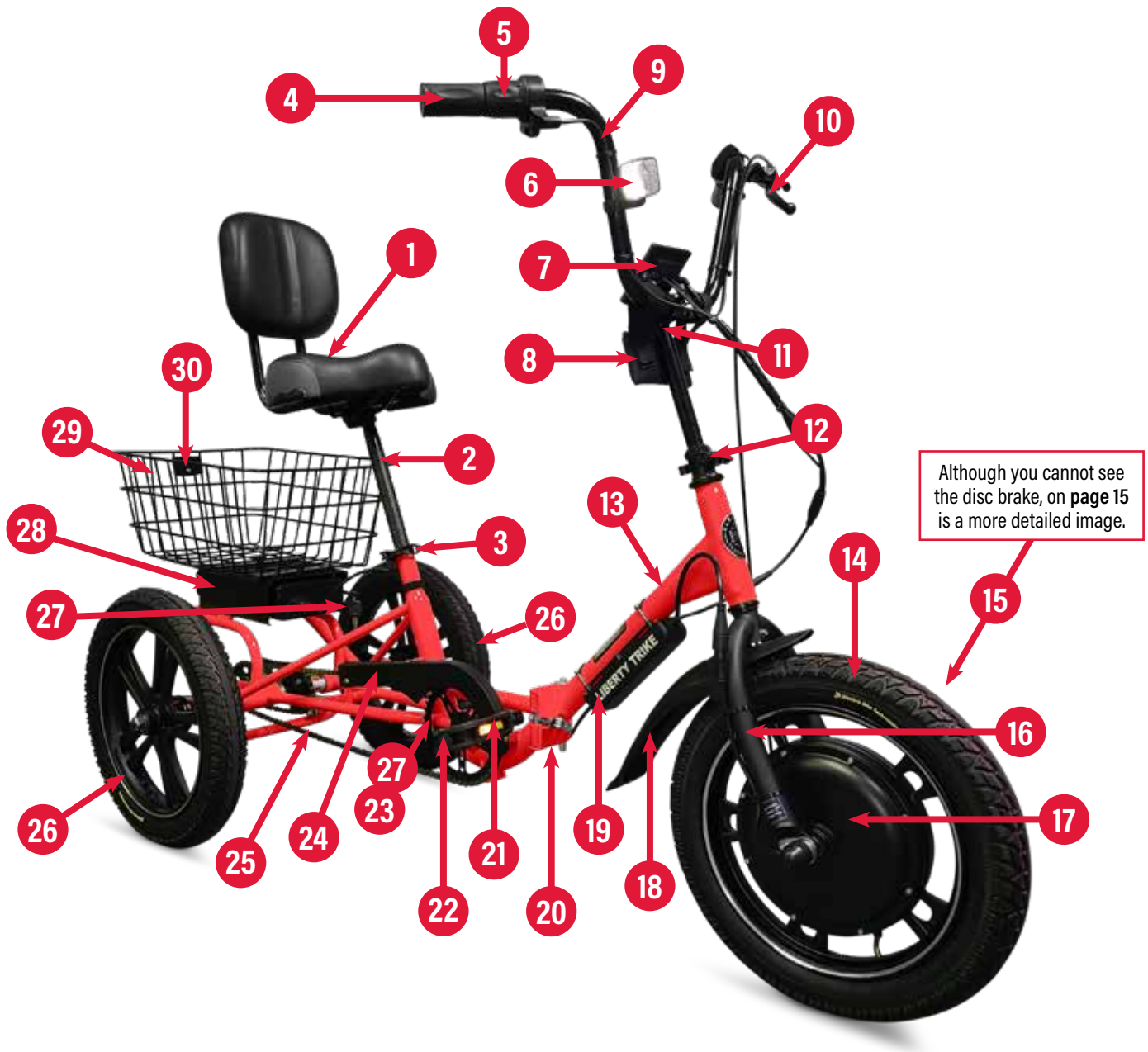
The Liberty Trike is not a bicycle and is a unique shape and tricycle product. As such, it does not work with most, if not all, traditional bike racks and should not be used with such racks. Any such use of the Liberty Trike on bike racks is done solely by the Owner's decision and the Owner/ User assumes all risk and liability for such use. Liberty Trike recommends transporting the Liberty Trike inside of vehicles or in another clearly secure manner to avoid damage to vehicle, your Liberty Trike, or others due to improper or unintended bike rack usage and/or failure.

# BICYCLE AND TRICYCLE SAFETY RULES

1. Obey all rules of the road and all local traffic laws.
2. An electric tricycle is wider than a traditional bicycle and the rider should be aware of the surrounding space.
3. Always wear a helmet and closed-toe shoes while riding.
4. You are sharing the road or the path with others, including motorists, pedestrians, and other cyclists. Be mindful of their space and respect their rights.
5. Ride in designated bike lanes on designated bike paths or as close to the edge of the road as possible, in the direction of traffic flow or as directed by local governing laws.
6. Ride defensively. Always assume that others do not see you.
7. Look ahead, and be ready to avoid:
  - Vehicles slowing or turning, entering the road or your lane ahead of you, or coming up behind you.
  - Parked car doors opening.
  - Pedestrians stepping out.
  - Children or pets playing near the road.
  - Pot holes, sewer grating, railroad tracks, expansion joints, road or sidewalk construction, debris and other obstructions that could cause you to swerve into traffic, catch your wheel or otherwise cause you to lose control and have an accident.
  - The many other hazards and distractions which can occur on a bicycle ride.
9. Stop at stop signs and traffic lights; slow down and look both ways at street intersections. Remember that an electric bicycle and/or tricycle will always lose in a collision with a motor vehicle, so be prepared to yield even if you have the right of way. Don't assume what others will do.
10. Use approved hand signals for turning and stopping.
11. Never ride with headphones. They mask traffic sounds and emergency vehicle sirens, distract you from concentrating on what's going on around you, and their wires can tangle in the moving parts of the bicycle and/or tricycle, causing you to lose control.
12. Never carry a passenger, unless it is a small child wearing an approved helmet and secured in a correctly mounted child carrier or a child-carrying trailer.
13. Never carry anything which obstructs your vision or your complete control of the tricycle and/or bicycle, or which could become entangled in the moving parts of the electric trike.
14. Never hitch a ride by holding on to another vehicle.
15. Don't do stunts, wheelies or jumps. Think to take the large risks that go with this kind of riding.
16. Don't weave through traffic or make any moves that may surprise people with whom you are sharing the road.
17. Observe and yield the right of way.
18. Never ride your electric tricycle while under the influence of alcohol or drugs.
19. If possible, avoid riding in bad weather, when visibility is obscured, at dawn, dusk or in the dark, or when extremely tired. Each of these conditions will increase the risk of accident and damage to the electric trike.

# COMPONENTS OF THE LIBERTY TRIKE

 **TECH TIP:** Please familiarized yourself with the name of the components on the Liberty Trike.



In the list below, components marked with an asterisk (\*) have detailed images on the following pages.

- |   |                                   |  |
|---|-----------------------------------|--|
| <b>1 - Saddle (or Seat)</b>                   | <b>11 - Stem</b>                  | <b>21 - Pedal*</b>                     |
| <b>2 - Seatpost</b>                           | <b>12 - Stem Quick-Release</b>    | <b>22 - Crank Arm*</b>                 |
| <b>3 - Seatpost Quick-Release</b>             | <b>13 - Top Tube</b>              | <b>23 - Chainring*</b>                 |
| <b>4 - Grip</b>                               | <b>14 - Front Wheel and Tire*</b> | <b>24 - Chain Guard</b>                |
| <b>5 - Thumb Throttle w/a Reverse Button*</b> | <b>15 - Front Disc Brake*</b>     | <b>25 - Chain</b>                      |
| <b>6 - Reflector</b>                          | <b>16 - Front Fork</b>            | <b>26 - Rear Mag Wheels and Tires*</b> |
| <b>7 - LCD*</b>                               | <b>17 - Hub Motor</b>             | <b>27 - Two Battery Keys</b>           |
| <b>8 - Liberty Trike Pouch</b>                | <b>18 - Front Fender</b>          | <b>28 - Battery*</b>                   |
| <b>9 - Handlebar*</b>                         | <b>19 - Controller</b>            | <b>29 - Basket</b>                     |
| <b>10 - E-Brake Lever w/a Parking Lock*</b>   | <b>20 - Frame Quick-Release</b>   | <b>30 - Reflector</b>                  |

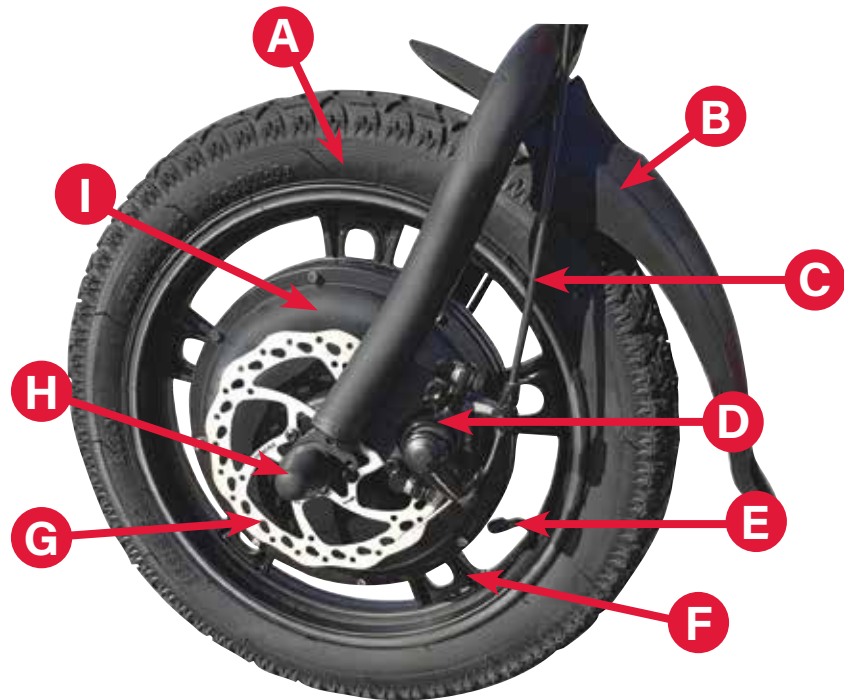
# DETAIL COMPONENTS

**⚠ WARNING!** DO NOT place your fingers or body parts in between the front fender and tires, while the tires are moving. This could result in an injury or a fall.

**🔧 TECH TIP:** Please familiarized yourself with the name of the components on the Liberty Trike.

## THE FRONT WHEEL

- A - Tire
- B - Front Fender
- C - Brake Cable
- D - Brake Caliper
- E - Schrader Valve
- F - Mag Rim
- G - Brake Rotor
- H - Axle
- I - Direct Drive Hub Motor



## THE SPOKED REAR WHEEL

- A - Tire
- B - Rim
- C - Spoke
- D - Spoke Nipple
- E - Schrader Valve
- F - Axle
- G - Hub
- H - Reflector



## THE MAG REAR WHEEL

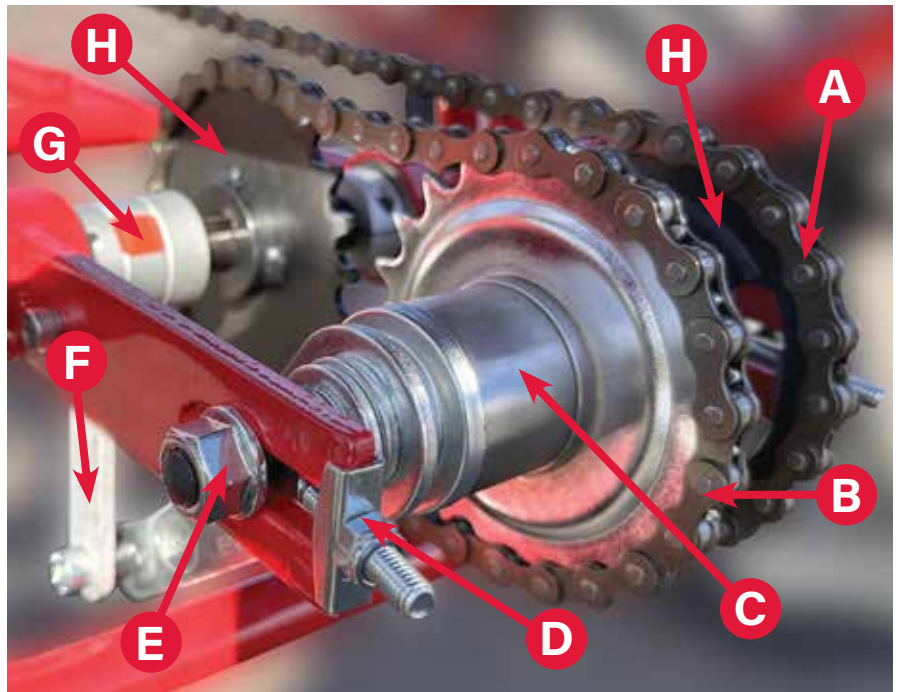
- A - Schrader Valve
- B - Mag Rim
- C - Tire
- D - Sidewall
- E - Hub
- F - Axle



# DETAIL COMPONENTS (CONTD.)

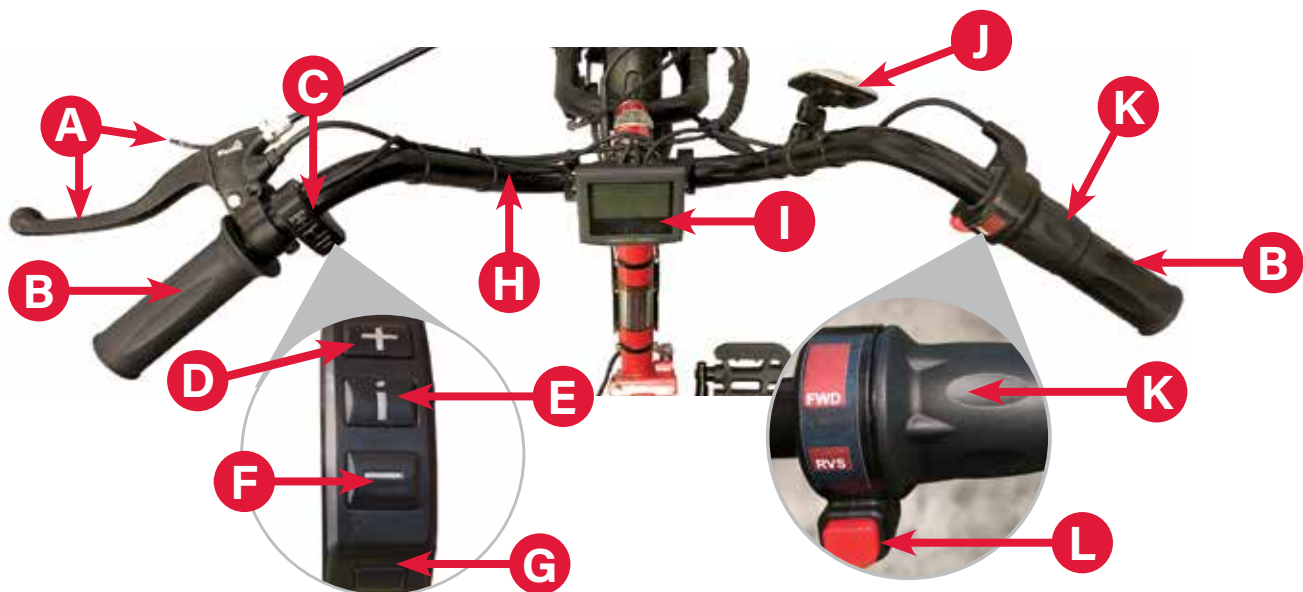
## REAR FREEWHEEL COMPONENTS

- A - Long Chain
- B - Short Chain
- C - 22 Tooth Coaster Hub
- D - Chain Tensioner
- E - Dropout Bolt
- F - Torque Arm
- G - Coupler
- H - 22 Tooth Gear



## HANDLEBAR CONTROLS

- |                                    |                             |                    |
|------------------------------------|-----------------------------|--------------------|
| A - E-Brake Lever w/ Parking Brake | E - Hold to Turn On and Off | I - LCD            |
| B - Grip                           | F - Decrease Assist Level   | J - Reflector      |
| C - Remote Pad                     | G - Walk Assist Mode        | K - Throttle       |
| D - Increase Assist Level          | H - Handlebar               | L - Reverse Button |

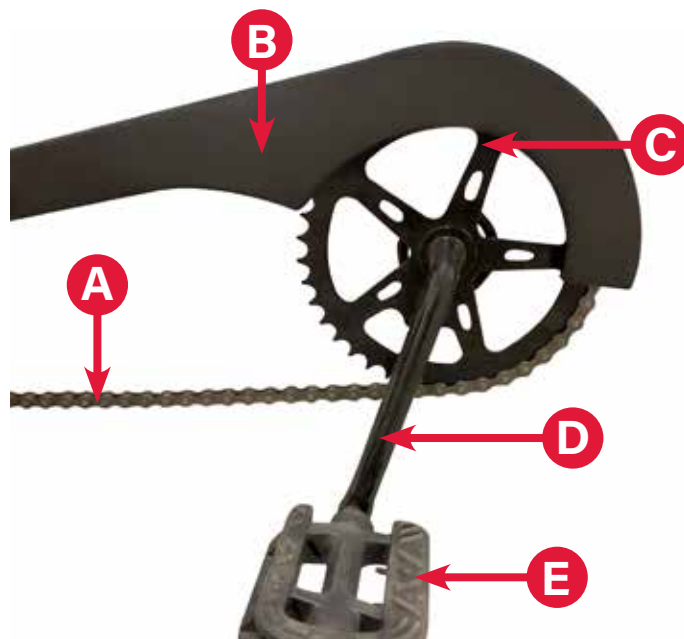




# DETAIL COMPONENTS (CONTD.)

## DRIVETRAIN COMPONENTS

- A - Chain
- B - Chain Guard
- C - 40 Tooth Chainring
- D - Crank Arm
- E - Pedal



## BATTERY COMPONENTS

- A - Battery
- B - Two Battery Keys
- C - Battery Handle
- D - Ignition
- E - Plug to Charger
- F - Charging Port

## CHARGER COMPONENTS

- G - Charger
- H - Charging Indicator
- I - Outlet Plug
- J - Charging Cord Plug\*
- K - Charging Port Plug\*\*



\* The charger cord plugs (J) into the charger, and the outlet plug (I), plugs into a wall outlet. (See right image.)

\*\* The charger port plug (K-see right image) plugs into the battery's charging port (F-see image above).

# BOX CONTENTS

**⚠ CAUTION:** If you lack the mechanical skills or physical capacity to properly and safely assemble the Liberty Trike, we strongly recommend seeking assistance from a professional bike shop.

Please be aware that since the purchaser assembles and maintains the Liberty Trike, Electric Bike Technologies, Inc. cannot be held responsible for any injury, damage, or other consequences resulting from the operation of this product. Usage conditions will vary for each rider, making it the purchaser's responsibility to establish best practices for operation and maintenance based on their individual circumstances. The provided instructions for unpacking and assembling your Liberty Trike serve as general guidelines. Your specific situation may require adjustments or additional steps.

Federal Law mandates that no person under the age of 16 shall operate a motorized bicycle. Always wear a helmet, ride responsibly and observe all federal, state, and local laws.

**🌐 TECH TIP:** Retain the Liberty Trike's packaging for at least 21 days in case you opt for a return and refund. For detailed information regarding the return policy, visit <https://www.libertytrike.com/pages/term-conditions>. If you need guidance on how to pack your Liberty Trike, please refer to this video, <https://youtu.be/FrI5U0FaESk>.

**🚫 NOTE:** If you discover any missing or damaged parts, we strongly advise against using your Liberty Trike. Instead, we kindly request that you promptly contact our customer service team at 1-866-894-4620 for immediate assistance. Your safety is our top priority, and we are here to help resolve any issues you may encounter.

Your Liberty Trike will be delivered 90% assembled, direct from our warehouse in Croydon, PA. Our experienced mechanics have taken the utmost care to fully assemble and test your Liberty Trike prior to shipment.

Upon dispatch of your Liberty Trike, our customer service team will provide you with an email containing your tracking number, along with a link to a video that guides you through the unboxing and assembly process of your Liberty Trike.\*

## INSIDE THE BOX, YOU'LL FIND:

- ▶ Front Section of the Liberty Trike
- ▶ Rear Section of the Liberty Trike
- ▶ Stem and Handlebar Assembly
- ▶ Seatpost and Seat Assembly
- ▶ Rear Basket for the Liberty Trike
- ▶ Liberty Trike Stand
- ▶ Battery, Charger, and Keys
- ▶ Welcome/Warning Letter
- ▶ Any Additional Accessories\*\*



## WANT TO LEARN MORE ABOUT YOUR LIBERTY TRIKE?

**\*Discover How to Unbox and Assemble a Liberty Trike:**

Click or copy this link: <https://youtu.be/pAME0c3l66Q>

**Watch & Learn About Your First Liberty Trike Ride**

Click or copy this link: [https://youtu.be/vgEf\\_PZvLnc?si=i4YGY-1-wlOxTLI](https://youtu.be/vgEf_PZvLnc?si=i4YGY-1-wlOxTLI)

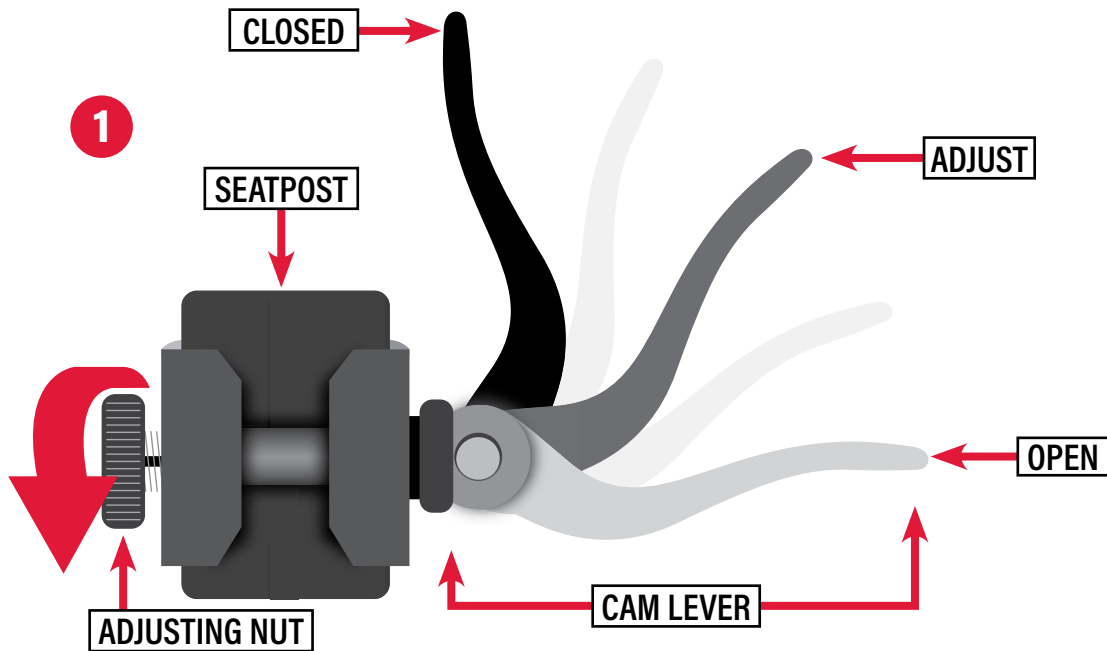
*\*\* Important: If you've purchased an extra battery with your Liberty Trike, please be aware that it will be shipped separately from the main trike package*

# QUICK-RELEASE LEVER OVERVIEW

**⚠ WARNING!** Riding with an improperly tightened quick-release lever will result in the saddle to drop down inside the trike's frame and/or the saddle to twist which can cause you to lose control, fall, and be injured. Less than a half a turn of the tension, the adjusting nut can distinguish between a safe and unsafe clamping force. If you have trouble clamping the quick-release lever closed, seek a bike shop, a neighbor, friend, or a family member for help. Please make sure that the quick-release is tight before and after every ride.

## THE QUICK-RELEASE LEVER

The cam lever's action tightens the clamp around the seatpost or stem, securing it in position. The clamping force's intensity is determined by the adjusting nut's tension. The mechanism of the seatpost quick-release lever is identical to that of the stem quick-release lever, functioning to maintain stability and security in the trike's setup.



## TIGHTENING A QUICK-RELEASE LEVER

1. Grasp the adjusting nut (image 1) with one hand to prevent it from rotating.
2. With your other hand, turn the quick-release lever clockwise.
3. Shift the lever to the closed position, parallel to the clamp. For seatpost and stem quick-release levers, the closed position can be either upward or parallel to the frame.
4. If you find the quick-release lever overly tight and unable to reach the closed position, you may have over-tightened it. To adjust, unwind the lever counterclockwise, one full revolution at a time, until you can securely move the lever to the closed position.
5. Ensure everything is properly tightened by checking the seatpost or stem for stability and absence of movement.

## LOOSENING A QUICK-RELEASE LEVER

1. Pull the lever to the open position.
2. While holding the adjusting nut with one hand, turn the lever counterclockwise with the other. This action will loosen the attachment, making it easier to adjust or remove the component as needed.

# FRAME ASSEMBLY

**⚠ CAUTION:** Should you lack the mechanical skill or physical capacity to assemble the Liberty Trike accurately and safely, it is advisable to seek assistance from a professional bike shop.

Please exercise caution when connecting the two frames with the pin, as this area presents a potential "pinch point." Be mindful of the placement of your hands and fingers during the clamping process to avoid any injury.

In these pictures below, the cables are attached, **DO NOT** attach the cables until you read about **Cable Assembly** on **page 22**.

**🔧 TECH TIP:** Position the Liberty Trike Stand beneath the rear section of the frame. This support aids in aligning the front and rear parts of the frame during assembly or maintenance.

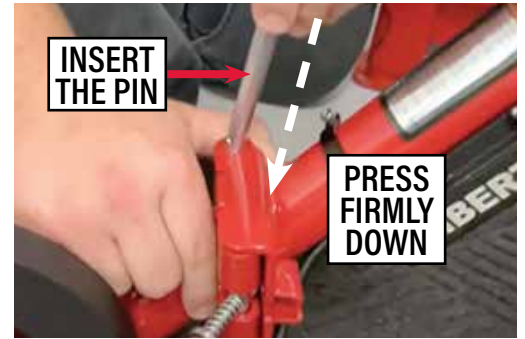
## CONNECTING THE FRAMES



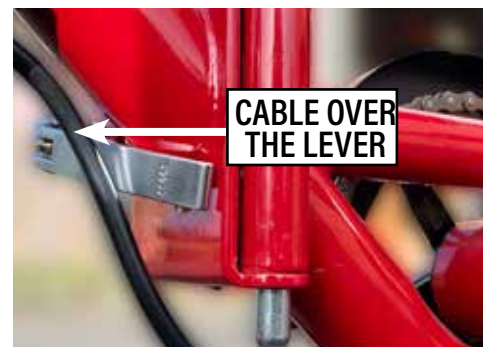
Position the LT Stand beneath the rear frame. Then, bring the front frame closer to the rear one.



Ensure the holes of both frames are aligned. Proceed by inserting the quick-release pin through both frames, gently shimmying it as needed for proper placement. Press down on the pin firmly to confirm it is fully inserted.



Next, align the notched section and rotate the quick-release lever to the right, positioning it within the notched area of the frames. Secure the setup by pushing the lever until it closes completely.



During this process, pay attention to ensure that the cable does not get trapped or pinched by the quick-release lever.



## LEARN HOW TO CONNECT THE FRAMES TOGETHER

**\*Discover How to Use the Liberty Trike Stand**

Click or copy this link: <https://youtu.be/5Qm9k7cey10>

**\*\*Learn About the Shimmy Video**

Click or copy this link: <https://youtu.be/zdivDhZx9P4>



# THE FRONT WHEEL

**⚠ WARNING!** DO NOT ride the Liberty Trike if the front fender is facing forward. The front wheel is rotating in the wrong direction. If you were to use reverse, you could suddenly travel up to 12 mph in reverse. This sudden or quick moment could cause you to lose control, flip over backward, fall, and possibly be injured. The Liberty Trike will only travel forward at 3 mph. The wheel needs to be rotated around so that the fender is behind the fork.

**⚠ CAUTION:** In the images provided below, please note that the cables are currently connected. DO NOT connect the cables until you have thoroughly reviewed the Cable Assembly instructions on page 22.

## THE CORRECT POSITION

If you notice that your front fender is facing forward, as depicted in image 2, this indicates incorrect assembly. Currently, the front wheel, containing the hub motor, is rotating counter to the intended direction. This misconfiguration causes the Liberty Trike to operate at 3 mph when moving forward and 12 mph in reverse. To address this, please follow the steps below:

1. Start by disconnecting the motor cable, shown in image 2, and the 3-to-1 cable, highlighted in image 3.
2. Carefully rotate the front wheel to ensure the broader side of the fender is at the back of the front fork, directly below the controller (refer to image 3 for the correct orientation).
3. Confirm correct positioning by standing directly in front of the Liberty Trike; the disc brake should be visible on the right side of the front fork.
4. Upon successful alignment, securely reconnect the motor cable and the 3-to-1 cable.

This proper setup ensures your Liberty Trike operates as designed, providing you with the optimal riding experience.



## LEARN HOW TO CORRECT THE BACKWARDS FRONT WHEEL

Watch How to Install the Front Wheel Correctly

Click or copy this link: <https://youtu.be/dYRKiwFW4hA>

# CABLE ASSEMBLY

**⚠ CAUTION:** If you don't have the mechanical or physical ability to correctly and safely assemble the Liberty Trike, you should obtain the services of a bike shop for assistance.

**🌐 TECH TIP:** It's best to align the arrows on the cables and firmly push them together (images 5, 6, and 6a). If you don't align the arrows, it may result in bent pins. The bent pins will lead to an error code on the LCD and potentially damaging components which could require repair or replacement.

## THE 3-TO-1 ACCESSORY CABLE

During the assembly process, particularly when you're joining the two halves of the frame, it's essential to position the 3-to-1 cable correctly. This multi functional cable should be situated on the right side of the trike when you stand in front of it and look down.

This 3-to-1 cable is crucial as it serves as the connection point for the throttle, brake, and LCD to the controller (image 4). The controller itself is distinguishable as a black, rectangular box with the Liberty Trike decal.

The arrows are located near the end of the 3-to-1 and controller cables (image 5). To establish a successful connection, it's imperative to line up these arrows accurately. Once aligned, gently but firmly push the connectors together, ensuring they are securely fastened.



## THE CONTROLLER TO THE BATTERY

On the underside of the trike are two cables. One is a cable from the controller and the other is the cable from the battery. If your cables look like image 6, then you have the 2-prong cable connection. Align the arrows from each cable, and firmly push them together.

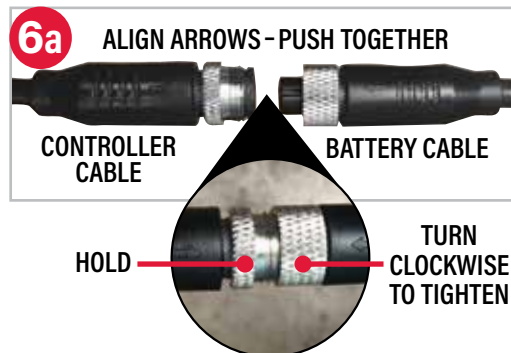
## THE CONTROLLER TO THE BATTERY

On the underside of the trike are two cables. One is a cable from the controller and the other is the cable from the battery. If your cables look like image 6, then you have the 2-prong cable connection. Align the arrows from each cable, and firmly push them together. If your cables look like image 6a, then you have the 5-pin twist cable connection. Align the arrows from each cable, push together and twist the larger silver band clockwise to tighten the cables. See Tech Tip above for more information.

## THE BATTERY CONNECTION

Plug the IEC 3-prong cord into the rear of the battery (image 7).

*To see the Components of the Battery, turn to page 17.*



# SEATPOST AND SEAT HEIGHT

**⚠ WARNING! MAKE SURE YOU** insert the seatpost in the electric trike frame, so that the seatpost minimum insertion line is below the seatpost clamp. If not, the seatpost will weaken and cause the seatpost to bend, crack, or break off. This could result in an injury or a fall. For more information on seatpost height and the minimum insertion line, see the explanation on this page. Riding with an improperly tightened seatpost quick-release lever will move or drop down into the frame. This will cause you to lose control of the trike, fall, and be injured. Less than half a turn of tension on the quick-release lever or nut can make the difference between an unsafe and safe clamping force.

**🔧 TECH TIP:** Just remember, if you place the seat higher than your handlebars, you will be applying more pressure on your neck, wrists, arms, and back.

## HOW TO DETERMINE YOUR CORRECT SEAT HEIGHT

Discovering the proper seat height is crucial for optimizing performance and comfort on your Liberty Trike.

Sit on the Liberty Trike, place one foot on the pedal, and rotate the crank until your foot reaches the lowest position, and the crank arm aligns with the seat tube.

- If your foot isn't flat on the pedal, with your heel raised, the seat is too high.
- If your knee is bent excessively, and your foot is flat on the pedal, the seat is too low.
- If your knee has a slight bend, and your foot is flat on the pedal, then the seat is at the correct height.

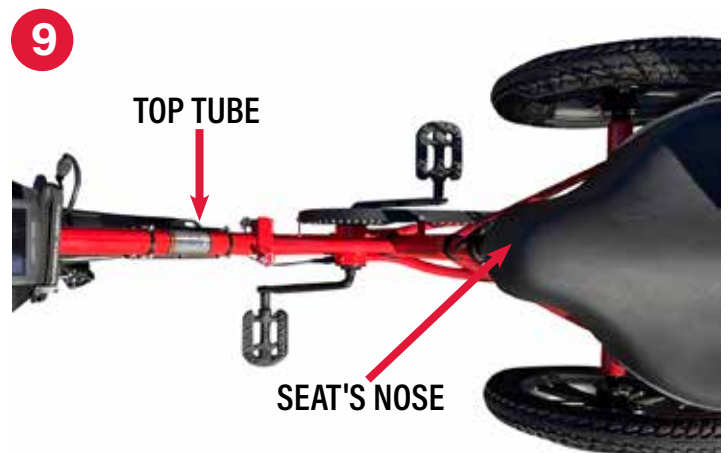
## INSTALLING THE SEATPOST

To ease seatpost insertion, loosen the seatpost quick-release lever by turning it counterclockwise. Pay close attention to the insertion line during this process. Ensure that the minimum insertion line is positioned below the seatpost clamp and within the trike's frame (image 8). Do not secure the seatpost quick-release lever within the red "not safe" area depicted in image 8a (although it is not actually colored on the trike's seatpost itself). Failure to comply may lead to seatpost bending or breaking, resulting in potential injury or a fall.

## ALIGNMENT AND TIGHTENING

Prior to tightening the seatpost quick-release lever, confirm that it is facing forward and aligns with the top tube of the trike (image 9). Tighten the quick-release lever by turning it clockwise, and make adjustments to ensure it is parallel to the frame.

*For instructions on how to tighten a quick-release lever, please refer to page 19.*



# INSTALLING THE STEM

**⚠ WARNING!** Riding with an improperly tightened stem quick-release lever will move or drop down into the frame. This will cause you to lose control of the trike, fall, and be injured. Less than half a turn of tension on the quick-release lever or nut can make the difference between an unsafe and safe clamping force.

## INSTALLING THE STEM

1. Stand facing the front of the Liberty Trike and secure the front wheel firmly between your legs.
2. Begin by gently loosening the quick-release lever (image 10). This can be done by pulling it outward to open while simultaneously turning it counterclockwise. While doing this, ensure you maintain a grip on the adjusting nut (image 10a) with your other hand to keep it in place.
3. After loosening the quick-release lever, insert the stem shaft into the frame (image 11). Confirm that the handlebars are aligned in a straight manner, ideally forming a 90-degree angle with the front wheel.
4. Gradually tighten the quick-release lever by holding the adjusting nut steady with one hand (preventing it from rotating) and turning the quick-release lever clockwise with your other hand. This ensures a secure and stable attachment of the stem.

## BEFORE ADJUSTING THE STEM HEIGHT

1. Sit on the trike and extend your arms in front of you to grip the handlebar.
2. If you find that you cannot comfortably reach the handlebar, please refer to page 26 for instructions on adjusting the handlebar reach.
3. If you can reach the handlebar comfortably, you may proceed with adjusting the stem height.

## ADJUSTING THE STEM HEIGHT

1. While seated on the trike, extend your arms forward to hold the handlebar.
2. Ensure that you can easily reach and control the handlebars while in an upright or slightly leaning forward sitting posture, maintaining a slight bend in your elbows.
3. Once you have achieved the desired height, securely tighten the quick-release lever on the stem.

*For instructions on how to tighten a Quick-Release Lever, please consult page 19.*





# THE HANDLEBAR REACH

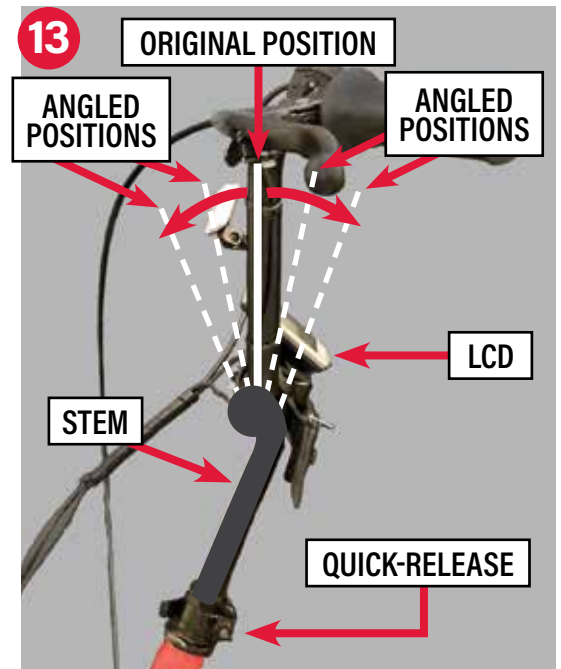
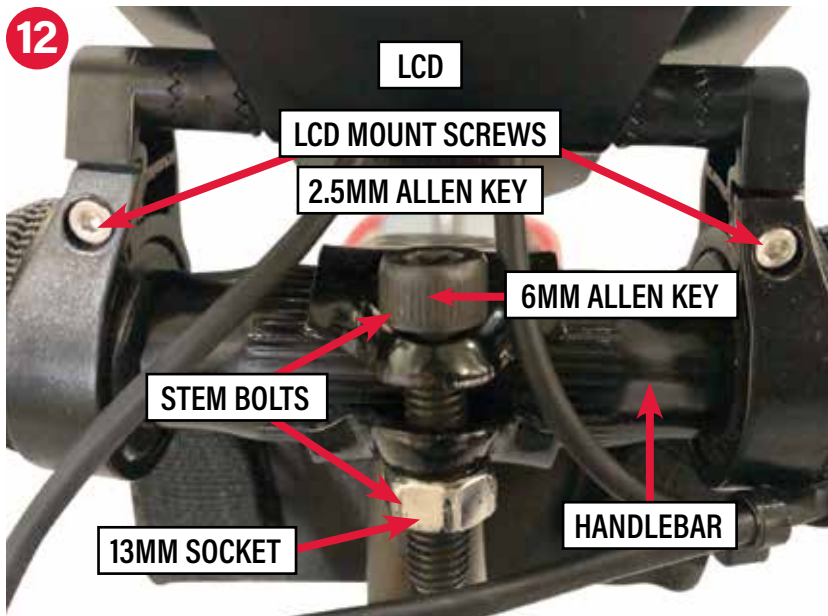
## FINDING THE IDEAL HANDLEBAR REACH

The handlebar reach refers to the distance between the seat and the handlebars and varies based on the rider's torso and arm length. Your optimal handlebar reach should allow you to comfortably hold the handlebars with a slight bend in your elbows, ensuring a more comfortable riding experience.

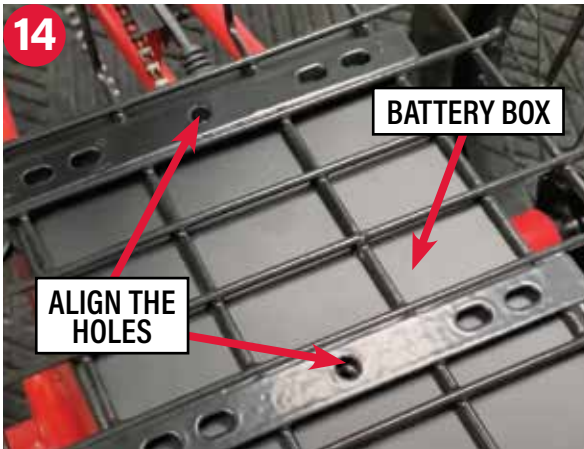
## ADJUSTING THE HANDLEBAR REACH

To modify the handlebar's reach or angle, follow these steps:

1. Stand facing the Liberty Trike with a firm grip on the front wheel held securely between your legs. Locate the two stem bolts positioned behind and under the LCD (image 12). You'll need a 6mm Allen key for the top bolt and a 3/8" socket wrench equipped with a 13mm socket for the bottom bolt.
2. Rotate the LCD towards the seat to create some working space. If you find there isn't enough room for your hands and tools, lightly loosen the LCD mount screws (image 12) using a 2.5mm Allen key by turning them counterclockwise. This will allow the LCD to rotate further backward.
3. Insert the 6mm Allen key into the top bolt (image 12) and, with your other hand, position the 3/8" socket wrench with a 13mm socket on the bottom bolt to prevent it from turning. Turn the 6mm Allen key counterclockwise to gently loosen the top bolt, allowing the handlebar to be adjusted with slight pressure.
4. Sit back on the trike and rotate the handlebars either closer to or further away from you (image 13) until you achieve a comfortable position with a slight bend in your elbows.
5. Return to the front of the trike and securely tighten the 6mm bolt by turning it clockwise, while simultaneously holding the 3/8" socket wrench with a 13mm socket on the bottom bolt.
6. Finally, reposition the LCD and tighten the LCD mount screws clockwise using a 2.5mm Allen key.

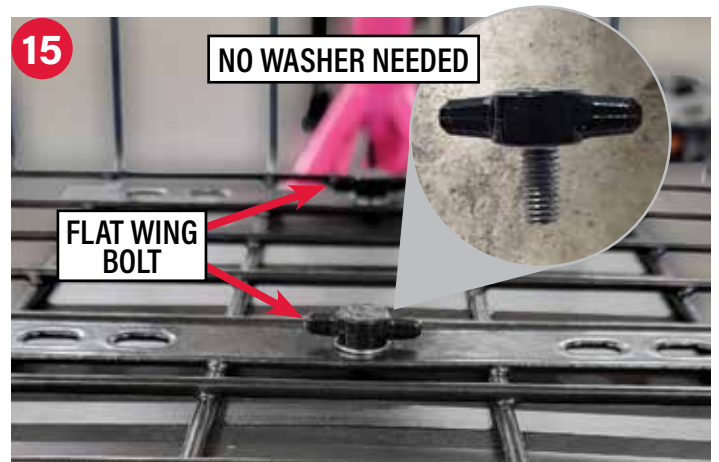
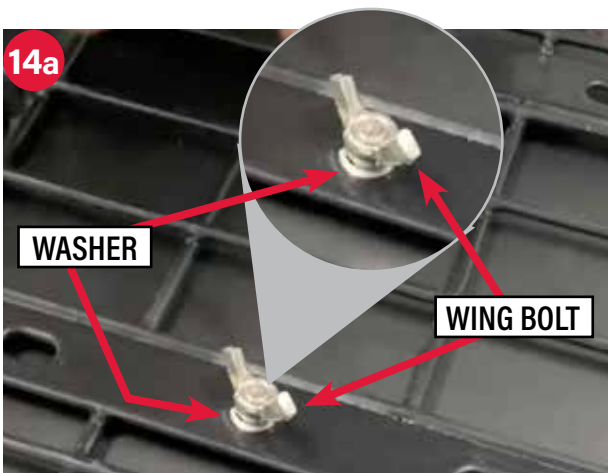


# THE REAR BASKET ASSEMBLY



## INSTALLING THE REAR BASKET

1. Align the two holes in the rear wire basket with the corresponding holes on the battery box (as shown in image 14).
2. If your wing bolts resemble image 14a, place a washer on the wing bolt, then insert them into the holes (as depicted in image 14a).
3. If your wing bolts resemble image 15, no washer is needed. Simply insert the flat wing bolts into the holes.
4. To secure the wing bolts, turn them clockwise until they are as tight as possible.



## REMOVING THE REAR BASKET

You may need to remove the rear basket if you plan to transport the Liberty Trike inside a vehicle or need to lower the seatpost to its lowest position. Follow these steps:

1. If your wing bolts look like image 14a, turn the wing bolts counterclockwise. Keep the washer and wing bolts together in a small sealed bag for safekeeping.
2. If your wing bolts look like image 15, turn the wing bolts counterclockwise and place the flat wing bolts in a small sealed bag for safekeeping.

# BATTERY OVERVIEW

**TECH TIP:** You can safely keep the battery key in the "On" position, even when the Liberty Trike is not in use. To turn the trike off, use the remote pad by pressing the "i" button.

## BATTERY KEY POSITIONS

- A) ON** - the battery is on and the trike can be used. The key cannot be removed.
- B) OFF** - the battery is off and locked into the battery plate. The key can be removed.
- C) UNLOCKED** - the battery is unlocked from the battery plate and can be removed.

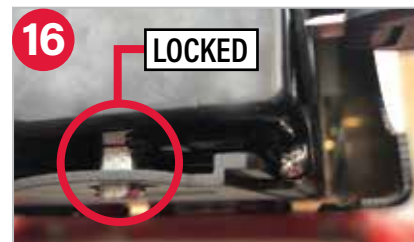


## THE BATTERY LOCKING PIN

The purpose of the locking pin is to secure the battery firmly on the trike and should not be removed.

To lock the battery onto the plate, turn the key to either the "on and locked" or "off and locked" positions. This action causes the locking pin to retract from the battery and pass through the battery plate (refer to image 16).

If you encounter difficulty in turning the key to lock it, ensure that the battery is correctly aligned when inserting it. If unlocking the locking pin becomes problematic, gently wiggle the battery to free it up. If these measures do not resolve the issue, please contact our customer service team at **1-866-894-4620** for further assistance.



## REGARDING THE BATTERY KEYS

The Liberty Trike includes two standard keys designed for battery ignition, as well as for locking and unlocking the battery. Once the battery is locked into the battery plate, attempting to remove it can cause damage to the trike. Therefore, it's crucial to ensure that you have at least one spare key stored in a secure location.



### LOST YOUR KEYS?

If you've misplaced your keys, please contact our customer service team at **1-866-894-4620** to request a replacement set of battery keys.



## LEARN HOW TO REMOVE & REINSTALL THE BATTERY

Discover How to Remove and Reinstall the Battery

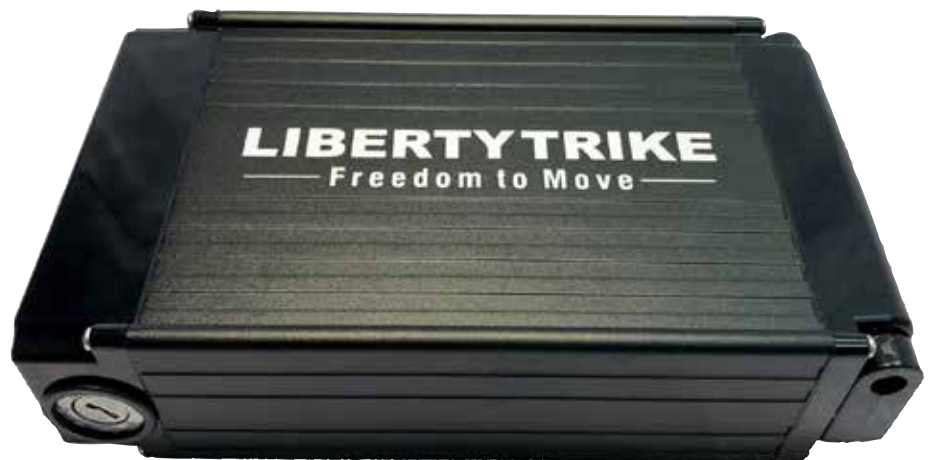
Click or copy this link: <https://youtu.be/oho6Lp7gj44?si=wK0mGI->

# LITHIUM-ION BATTERY SAFETY

**⚠ WARNING!** Failure to follow the instructions and guidelines in this section may damage electrical components on your electric trike and will void your warranty. More importantly, failure to follow the instructions may result in a fire, explosion, property damage, injury, or death. DO NOT use the battery if your battery has been damaged, punctured, burned, been smoking, or has been on fire, and do not use the battery or charger. Immediately, call customer service at 1-866-894-4620. Customer service will require you to send pictures of the damaged battery and or charger. Email those pictures to [support@Libertytrike.com](mailto:support@Libertytrike.com) with a detailed description of what happened and your contact information. After receiving the images, someone from customer service will contact you.

The following can help to alleviate any risks associated with handling lithium-ion batteries. To minimize the risk of fire, explosion, or personal injury, please follow these guidelines:

- ▶ **ALWAYS** follow the manufacturer's instructions for charging and storage. Only use the original manufacturer's battery, cord and power equipment to charge the lithium-ion battery.
- ▶ **ALWAYS** plug the lithium-ion battery directly into a wall outlet. Never use power strips, or extension cords to charge your lithium-ion batteries. DO NOT stack or cluster the lithium-ion batteries together while charging or storing. Charging multiple batteries with inadequate electrical support is a major safety hazard.
- ▶ **ALWAYS** charge the lithium-ion battery at room temperature. If the battery is still warm from usage, allow time for the battery to cool before charging. DO NOT charge the lithium-ion battery at temperatures below 32°F (0°C) or above 105°F (40°C).
  - After riding in cold weather, bring the battery indoors to warm up for two hours at room temperature before charging.
- ▶ **ALWAYS** store your lithium-ion battery in a well-ventilated area that has a fire detection system. Avoid excessive sun exposure, water, humidity, and/or condensation. Keep the lithium-ion battery away from any heat source or anything flammable materials, such as paper, under or on a pillow, bed or a couch.
- ▶ **ALWAYS** monitor the battery and charger when charging, NEVER leave it unattended or overnight. DO NOT keep charging the lithium-ion battery after it is fully charged.\*
- ▶ **DO NOT** use the battery or charger if your battery has been damaged, punctured, burned, been smoking, or has been on fire. Inspect the battery and charger before and after each use.
- ▶ **NEVER** block your exit from your home or a room with a charging lithium-ion battery. Always make sure that there's a safe way to exit your home in the event that there's an issue with an lithium-ion battery.
- ▶ **NEVER** try to modify or service your e-bike and/or trike's battery system. Batteries are part of a larger system with the e-bike and/or trike. It's not just the battery but also the sensors, motor, controller, and other components. Altering a component within the system can impact the safety of the system, which can result in severe injury and/or death.
- ▶ **NEVER** use a battery if it shows signs of physical or mechanical damage such as change of shape, discoloration of the battery's shell, leaking, odor, sign of corrosion, odd noises, loose or damaged wires, and/or known conditions of use or misuse.
- ▶ **NEVER** place a lithium-ion battery in the trash or in a recycling bin, it is illegal. DO NOT put discarded batteries into piles. To properly dispose of lithium-ion batteries, take them to a battery recycling location or contact your local waste management service provider for disposal instructions.



\*UNLESS you are doing a battery balancing and you must monitor the charging process, for those additional hours.



# LITHIUM-ION BATTERY SAFETY (CONTD.)

## TRANSPORT

- ▶ When transporting an electric bike and/or trike's battery, it SHOULD NOT be left on the trike. The battery must be removed and placed inside your vehicle. It's also important not to leave the battery inside a hot vehicle. These temperatures and weather conditions can result in poor charging ability and possibly cause a fire, explosion, injury, or death.

## FIRES AND EMERGENCIES

- ▶ Fire extinguishers do not work on lithium-ion batteries fires. If you observe a lithium-ion battery fire, leave the area, CLOSE the door, and call 911 immediately.
- ▶ Damaged or unstable batteries and improper charging, storage or disposal can cause the batteries to overheat, leading to an explosive, aggressive fire that spreads rapidly, can reignite and is challenging to extinguish.
- ▶ Lithium-ion battery fires are very dangerous. Water may not prevent a battery from burning and spreading. Battery cells are known to explode and quickly spread to another battery. It can spread to other devices.
- ▶ These batteries may continue to generate heat even when there is no visible sign of fire. Once heat reaches a certain level fire may reignite on the battery and surrounding area.
- ▶ Re-ignition of lithium-ion batteries is common. Lithium-ion batteries are known to unexpectedly reignite (without warning) minutes, hours and even days after all visible fire has been put out.
- ▶ Lithium-ion batteries can enter an uncontrollable, self-heating state. This can result in the release of gas, cause fire and possible explosion.



WATCH OUR VIDEO ON LITHIUM-ION BATTERY SAFETY TIPS

Click or copy this link: <https://youtu.be/xdMwU8cnROQ?si=AdKU6vZXsfzf1NGR>

# CHARGING THE BATTERY

**⚠ WARNING!** Failure to follow the instructions and guidelines in this section may damage electrical components on your Liberty Trike and will void your warranty. More importantly, failure to follow the instructions may result in a fire, explosion, injury, or death.

**DO NOT** use the battery if your battery has been damaged, punctured, burned, been smoking, or has been on fire, do not use the battery or charger. Immediately, call customer service at 1-866-894-4620 for additional help. Customer service will require you to email the damaged battery and or charge pictures to [support@libertytrike.com](mailto:support@libertytrike.com) with a detailed description of what happened and your contact information. After receiving the images, someone from customer service will contact you to talk to you about your options.

**⚠ CAUTION:** Undamaged batteries will not release fluids or gases. However, battery fluid can cause skin irritations and burns if the battery is damaged, and battery gases can be released and irritate the airways. In the event of skin or eye contact with any fluids, immediately flush with water and seek medical assistance. If inhaled or ingested with any fluids or gases from the battery, immediately seek fresh air and medical assistance

**💡 TECH TIP:** The Liberty Trike's battery is "memory free." You aren't required to discharge the battery entirely during use, but it's much better for the battery to not drain it down to 0%.

When the LCD is off, it means the trike is off and not drawing power from the battery (even if the key is still in the ON position).

**🕒 NOTE:** An excellent way to remember to charge the battery every thirty days is to set a calendar reminder on your computer, mobile device or write it on your calendar.

Upon receiving your Liberty Trike, you'll find that the battery contains a minimal charge. For an optimal experience, it is recommended to initiate a complete charging cycle before embarking on your first ride. This approach ensures that your trike is powered up and ready for maximum performance.

For detailed guidelines and essential precautions on **Battery Safety**, kindly refer to **pages 28 and 29** of your manual. Staying informed about proper handling and maintenance practices will contribute significantly to the safety and longevity of your Liberty Trike's battery.

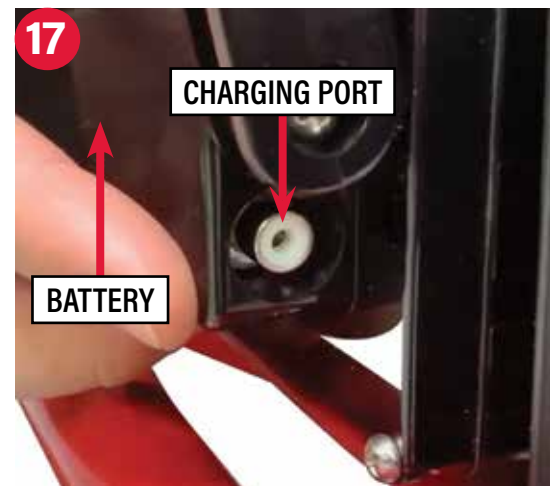
## INSTRUCTIONS FOR CHARGING THE BATTERY

1. Begin by plugging the charger into a wall socket, similar to how you would with a mobile phone charger.
2. Next, lift the carry handle to reveal the charging port, as shown in image 17.
3. Insert the charging cord into the port. You will notice the LED indicator turn red, signifying that the battery is currently charging. Upon full charge, the light will change to green.

You have the flexibility to charge the battery while it's attached to the Liberty Trike or separately if you prefer to remove it.

For long-term battery maintenance, particularly during periods of non-use (such as winter months or any extended pause of 1-3 months), it's advisable to store the battery indoors. To maintain battery health, charge it fully every thirty days. Neglecting this regular charging schedule might result in a "dead" battery, requiring a likely replacement when you wish to use it again. Should you encounter any issues or need assistance, please contact customer service at 1-866-894-4620.

*For an in-depth understanding and visual representation of the Battery Components, please refer to page 17 in this manual.*






## CHARGING THE BATTERY (CONTD.)

**⚠ WARNING!** DO NOT leave the battery charging unattended or after the charge is complete for more than what is required for battery balancing (three hours). More than three hours could potentially result in a fire, explosion, injury, or death.

**⚠ CAUTION:** Undamaged batteries will not release fluids or gases. However, battery fluid can cause skin irritations and burns if the battery is damaged, and battery gases can be released and irritate the airways. In the event of skin or eye contact with any fluids, immediately flush with water and seek medical assistance. If inhaled or ingested with any fluids or gases from the battery, immediately seek fresh air and medical assistance

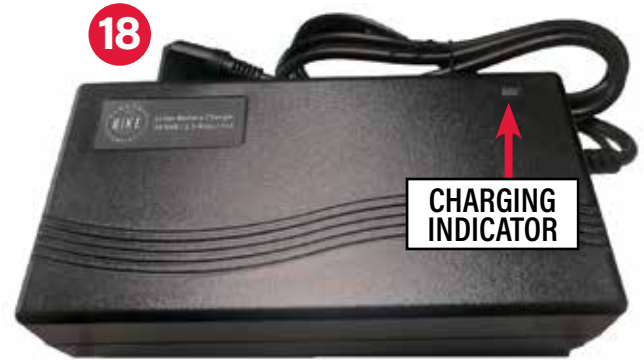
### THE CHARGING INDICATOR

The charging indicator is located in the upper right hand corner of the charger (image 18).

-  **FLASHING GREEN** - No battery is connected.
-  **STEADY RED** - The battery is charging.
-  **STEADY GREEN** - then the charge is complete.

When the battery is finished charging, unplug the charger from the wall. Do not leave the battery connected to the charger unattended for an extended period of time.

*To learn more about Lithium-Ion Battery Safety, turn to pages 28 and 29.*



### WHAT IS BATTERY BALANCING?

Every couple of weeks, charge the battery to complete but leave it on for an extra three hours. DO NOT leave the battery and charger unattended during this time. The purpose of battery balancing is to fill the battery cells that don't always get charged to the maximum.



## LEARN MORE ABOUT BATTERY SAFETY, CHARGING, AND BALANCING

### Learn About Battery Care and Charging

Click or copy this link: [https://youtu.be/hTc3JSNJBkQ?si=B-GuwUkQso-\\_pkAH](https://youtu.be/hTc3JSNJBkQ?si=B-GuwUkQso-_pkAH)

### Understand Lithium-Ion Battery Safety Guidelines

Click or copy this link: <https://youtu.be/xdMwU8cnROQ?si=3Y7bcrRLTAXG0KUn>

# DRIVING OVERVIEW

**⚠ WARNING!** Use caution when turning above six mph. There is a potential for rollover (tip over) or aggressive braking, resulting in an injury. Practice making wider turns at a slower speed, and ride within your limits.

**⚠ CAUTION:** We strongly encourage you to read and understand this manual entirely before your first ride. We recommend you familiarize yourself with and practice riding your electric trike by starting slowly, practicing, and that will improve your riding skills.

DO NOT PEDAL BACKWARDS while in reverse. It's tempting to do so, but you'll activate the coaster brake, and you will abruptly come to a stop! While in reverse, the pedals will rotate backward under the electric motor's power. The rider needs to be aware of this and keep their feet on the pedals. Please be aware that body parts could get impinged in the pedals and crank arms, resulting in an injury and/or a fall.



## HOW TO USE THE THROTTLE

The Liberty Trike's throttle is like a motorcycle's throttle. Twist the throttle towards you to accelerate and release the throttle to stop accelerating (image 19). To decrease the throttle speed, reduce the twisting motion and the trike speed will decrease.

## HOW TO TURN AND ON SLOPES

Practice, practice, and practice some more is what we preach to new Liberty Trike riders. It's best to practice on a flat surface, free of cars or objects. Use caution when approaching the turn and proceed at a slow speed, make a wide turn, and lean into the turn. For example, lean into the left turn if you are turning left. You don't want to make tight turns at speeds above six mph.

Be cautious when turning on slopes. GO SLOW and watch for holes, ruts, bumps, rocks, or other hidden objects. Keep all movement on sloped surfaces, slow and gradual, make a wide turn, and lean into the turn. Avoid slopes steeper than 15 degrees.

## HOW TO DRIVE IN REVERSE

Come to a complete stop and press the red button next to the throttle (image 19). The red reverse button will click and stay pressed in when the reverse is engaged.

Slowly twist the throttle towards you, and the Liberty Trike will drive in reverse. Let the pedals gently carry your legs in a backward circle. DO NOT PEDAL BACKWARDS or you'll come to a complete stop!

To drive forward, come to a complete stop and press the red button and it will click and release. You can begin to pedal or use the electric assist to go forward.



# BRAKING OVERVIEW

**⚠ WARNING!** Applying brakes too hard or too sudden can lock up a wheel, which could cause the trike to slide, fall over, flip, and you could lose control or fall, which can result in an injury. Be cautious about locking your brakes within a turn. Sometimes there's a tendency for the trike to slide, resulting in the trike tipping or flipping over, resulting in damage to the trike and injuring you.

Disc brakes are extremely powerful. Sudden or excessive application of the front disc brake may pitch the rider over the handlebars, resulting in severe injury or death.

Disc brakes can get extremely hot with extended use. Be careful not to touch a disc brake rotor until it has plenty of time to cool, or you could get seriously burned.

If the disc brakes are rotating, do not place your fingers or body parts on or in the disc calipers or the rotor. It can slice your finger(s) off or cut you!

**💡 TECH TIP:** Apply the coaster brake first and then the disc brake in an even tempo. It will be safer and it's the fastest way to come to a stop. This will less likely cause you to lose control or skid.

## IT TAKES PRACTICE

It's best practice to learn how to brake slowly and stop smoothly. Applying the brakes too hard or suddenly will lock up a wheel and cause the trike to slide, flip over, thus causing you to lose control, fall and result in an injury.

Instead of jerking the brake lever to the position where you think you'll generate the appropriate braking force, squeeze the front brake lever, and use the coaster brake at the same time to increase the braking force progressively. If you feel the wheels begin to lock up (skid), release the pressure on the disc and coaster brakes, just a little to keep the wheel rotating, just short of a lockup. When you apply both brakes, the trike will begin to slow, but your body will want to continue forward, causing a transfer of weight towards the front of the trike and front wheel. Avoid using just the front disc brake, if you do so, there's a potential to cause the trike to flip over. Shift your body weight towards the rear of the trike to transfer the weight to the rear of the trike.

When riding in wet conditions or on a loose surfaces, your braking will take longer to stop. Moisture or dirt on the brake pads will reduce their ability to grip. The way to maintain braking control on loose or wet surfaces is to go slower.

## HOW TO USE THE COASTER BRAKE

Start with the pedal cranks in a nearly horizontal position, with the front pedal in about a 4 o'clock position, and apply downward foot pressure on the pedal that is to the rear (image 20). About 1/8 turn rotation will activate the brake. The more downward pressure you apply, the more braking force, up to the point where the rear wheel stops rotating.



## BRAKING OVERVIEW (CONTD.)

**TECH TIP:** Avoid getting bike lube or foreign substances on the front brake pads and rotor as that could limit or prevent its stopping performance and effect.

### HOW TO OPERATE THE FRONT DISC BRAKE

To activate the front disc brake, gently squeeze the left brake lever towards you (refer to image 21). This action causes the brake pads to clamp onto the disc rotor, bringing your Liberty Trike to a halt.

*For a detailed breakdown of the Front Disc Wheel components, please refer to page 15.*

### THE PARKING BRAKE

The parking brake serves as a convenient feature, securely immobilizing the Liberty Trike. It offers riders a stable platform for mounting and dismounting and is particularly useful on inclines to prevent unintended rolling. However, it's essential to remember that the parking brake should only be engaged when the trike is parked and NOT during normal riding.

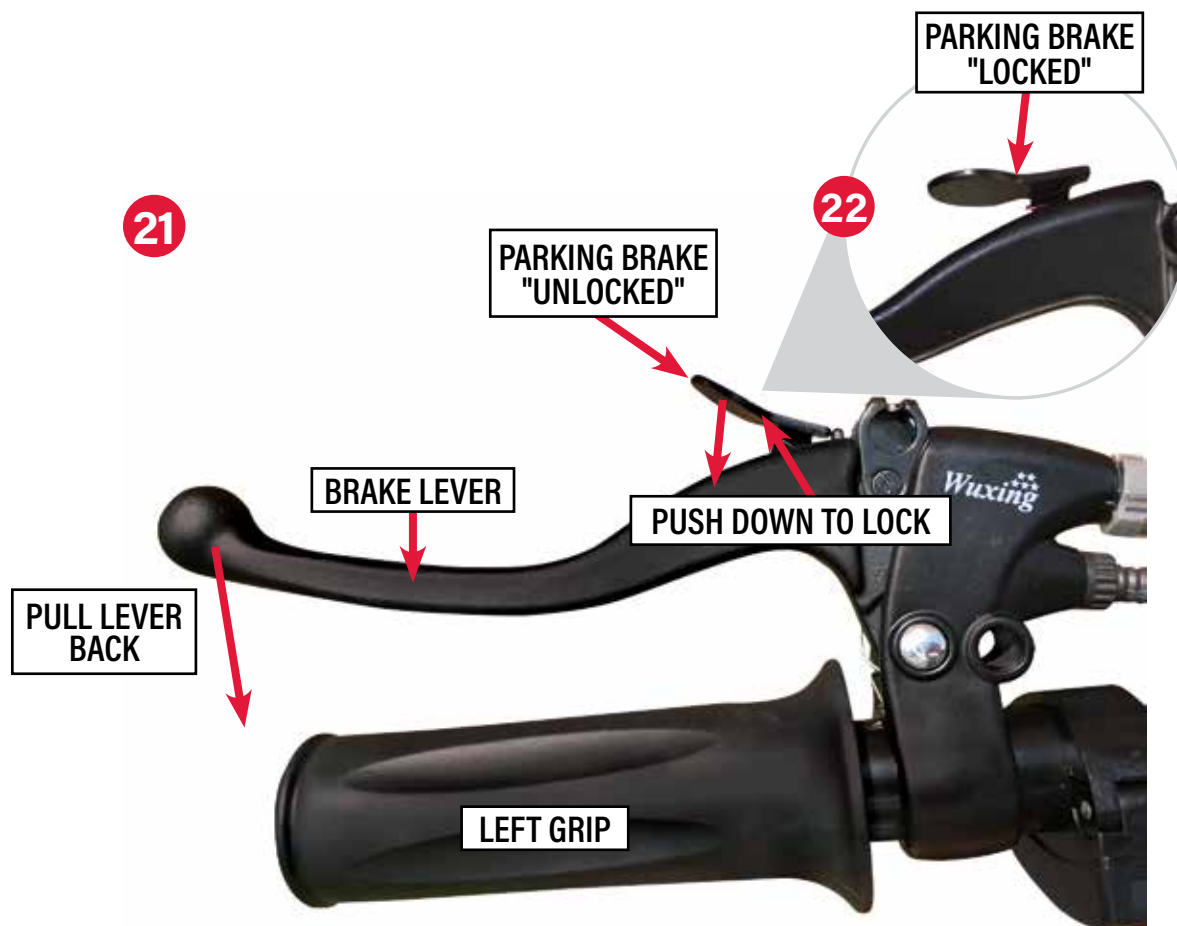
### ENGAGING THE PARKING BRAKE

To engage the parking brake, first come to a complete stop. Then, maintain pressure on the brake lever while using your index finger (or your other hand) to depress the parking brake lever located above the brake lever itself (as shown in image 22).

### DISENGAGING THE PARKING BRAKE

To release the parking brake, simply pull the brake lever towards you, causing the parking brake to disengage and return to its original position. Should you inadvertently leave the parking brake engaged and power on the LCD, you may encounter Error Code 25. To resolve this, disengage the parking brake to clear the Error Code.

*For additional information on Error Codes, please consult page 47.*



# TIRE INFLATION

**⚠ WARNING!** Never inflate a tire beyond the maximum pressure marked on the tire's sidewall. Exceeding the recommended maximum pressure (35 PSI) may blow the tire off the rim, which could cause damage to the trike and injury to the rider and bystanders. Make sure tires are inflated to minimum recommended pressure as tires with low pressure can cause loss of control issues, with potential for accident and injury.

When using gas station air hoses or other air compressors, there is a safety risk. These machines aren't intended for bicycle tires. They move a large volume of air very rapidly and will raise the pressure in your tire very rapidly, which could cause the tube to explode.

**🌐 TECH TIP:** Before and after every ride, you should check your tire pressure. It's better to make a habit out of it than getting caught with a flat tire on your ride. It doesn't take much to carry an inner tube(s) with you. If you cannot repair a flat tire, take the trike to a bike shop and have them replace the old tube with your new tube. It will save you some money!

**🚫 NOTE:** We recommend you carry a spare inner tube(s). Patching a tube is an emergency repair. If you do not apply the patch correctly or apply several patches, the tube can fail and result in you losing control, falling, and possibly being injured. Replace the patched tube as soon as possible.

The best and safest way to inflate a Liberty Trike tire is with a bicycle floor pump with a built-in pressure gauge.

## VARIANCE RANGE FOR INFLATION

Putting more or less PSI will depend on the rider's weight, terrain, and riding preferences. Inflating the tire to near its maximum recommended pressure gives the lowest rolling resistance and produces the harshest ride. High pressures work best on smooth, dry pavement. Low pressures work best on deep, loose surfaces such as deep, dry sand.

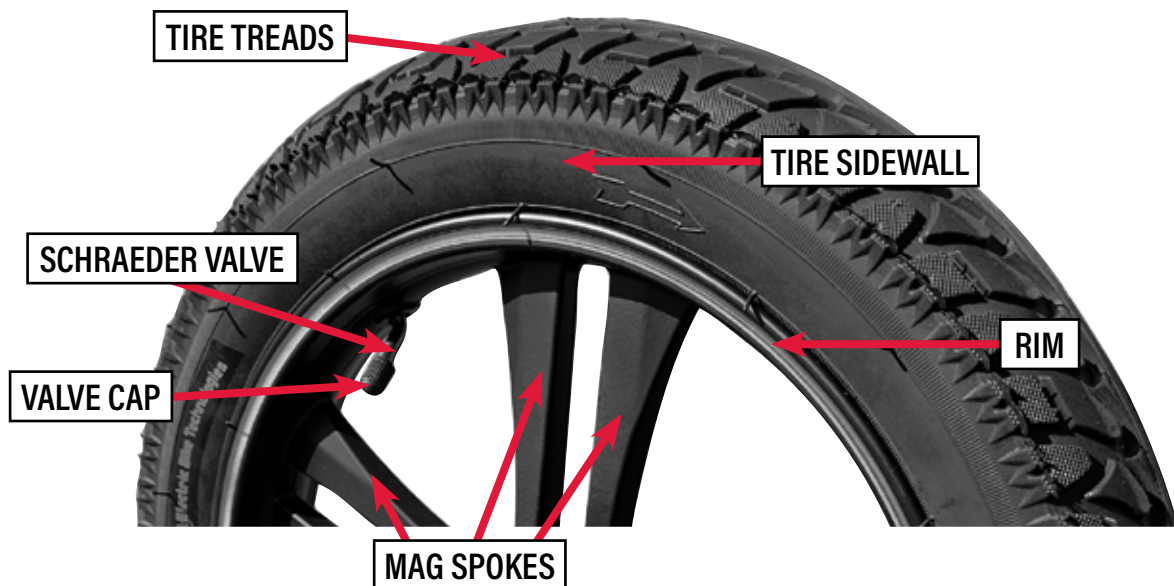
If the tire pressure is too low for your weight and riding conditions, it can cause a puncture in the tube. The tire will deform sufficiently to pinch the inner tube between the rim and the riding surface, resulting in a flat.

## HOW TO INFLATE A TIRE

The Liberty Trike uses a Schrader valve just like you'd find on a car tire. To inflate the tube, remove the valve cap and clamp the floor pump fitting onto the end of the valve stem.

## HOW TO DEFLATE A TIRE

Remove the valve cap and depress the pin inside the valve stem with the end of a key. Place the valve cap back on after adding or subtracting air.



# TO DISASSEMBLE OR FOLD

**⚠ CAUTION:** We strongly encourage you to read and understand this manual entirely before disassembling the Liberty Trike for transporting or storage. Be careful lifting and moving the trike as it does have weight and mass that could cause lifting injuries or property damage.

**🚫 NOTE:** The Liberty Trike weighs a total of 56 lbs. The front and rear halves weigh 25 lbs each, and the battery pack weighs 6 lbs.

Since the Liberty Trike is an electric folding trike, it can easily be folded or taken apart to transport or store in your home or garage. The Liberty Trike must be stored in a location that protects it from snow, rain, sun, etc.

Snow and rain can cause parts of and components on the Liberty Trike to corrode and may also damage electric parts. The ultraviolet light from the sun can fade the paint or crack rubber or plastic parts and components on the trike.

## YOU HAVE OPTIONS

You have two options regarding transport or storage. Continue onto the following pages to learn how to disassemble the Liberty Trike, or if you are interested in learning

*How to Fold the Liberty Trike, turn to page 40.*

DISASSEMBLED LIBERTY TRIKE



FOLDED LIBERTY TRIKE





# DISASSEMBLING THE TRIKE

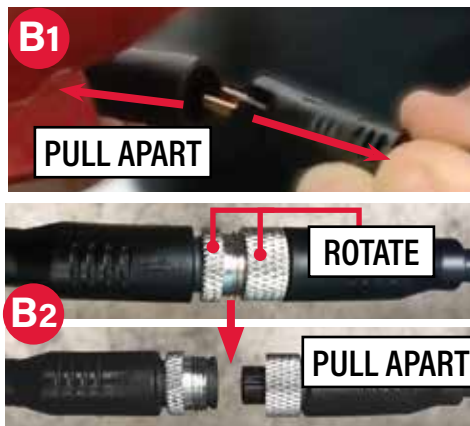
**⚠ CAUTION:** We strongly encourage you to read and understand this manual entirely before disassembling the Liberty Trike for transporting or storage.

Detaching the frame into two pieces will make life easier for you to store and/or transport the Liberty Trike inside your vehicle. If you don't own a hitch or a bike rack, then detaching the frame into two pieces will be easier to transport inside your vehicle. Depending on the size of your vehicle, you may or may not need to remove the handlebar/stem, seat, or basket.

## DISCONNECTING THE CABLES

When disconnecting the two cables and plug, gently pull them apart but never twist the cables. This will reduce any damage to the cables.

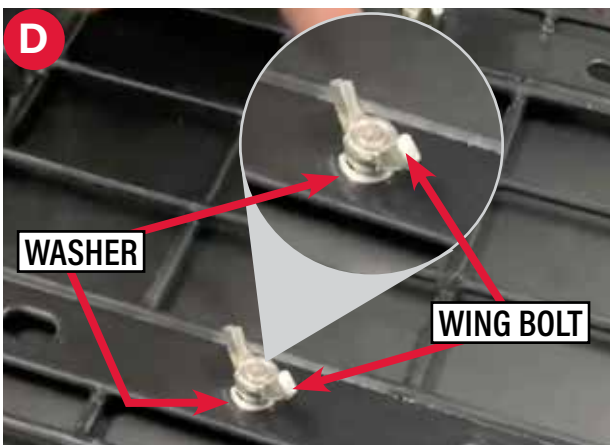
- A) The 3-to-1 Accessory Cable to the Controller** – These cables are located in front of the trike.  
*To see the 3-to-1 Cable turn to page 22, image 4 for details.*
- B) The Controller Cable to the Battery Cable** – These cables are located under the cranks. If your cables look like image B1, it's a 2-prong cable connection – gently pull apart the cables. If your cables look like image B2, it's a 5-pin twist cable connection – twist the large silver band counterclockwise to loosen and then gently pull the cables apart.  
*To view the Controller and Battery Cable, please refer to page 22 in the Cable Assembly section, specifically images 6 and 6a, for detailed information.*
- C) The Battery Cord** – Gently unplug the cord from the battery.  
*To see the Battery Connection, turn to page 22, image 7 for details.*



## HOW TO REMOVE THE REAR BASKET

Removing the rear basket might make it easier to store the Liberty Trike in your home, garage, or shed. It also might make it easier to fit inside the trunk of your vehicle.

In your rear basket are two wing bolts. Loosen the wing bolts by turning them counterclockwise. It's important to note that the black flat wing bolt (image E) doesn't have a washer, whereas the silver wing bolts (image B) are accompanied by washers, so keep them together in a safe place.



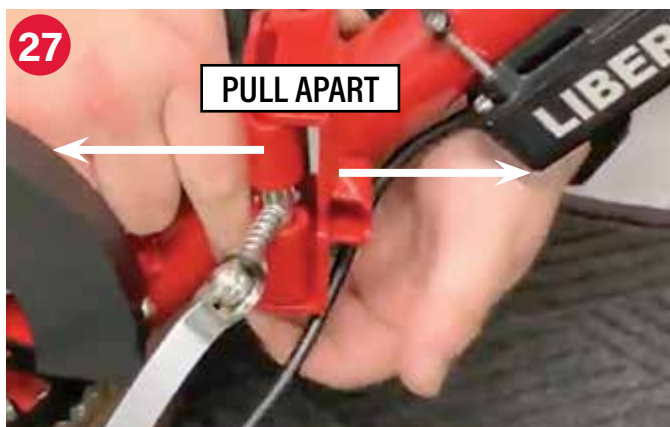
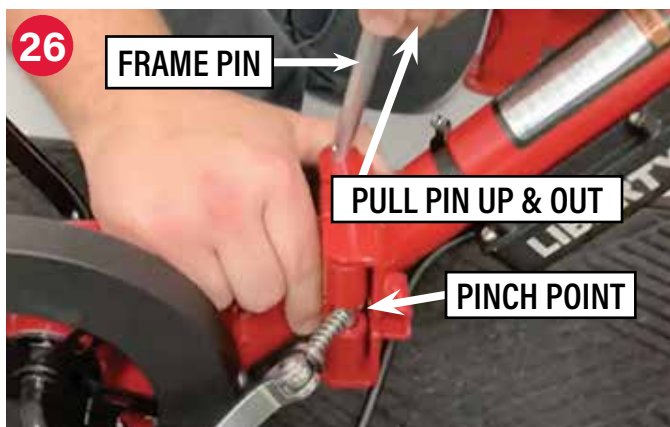
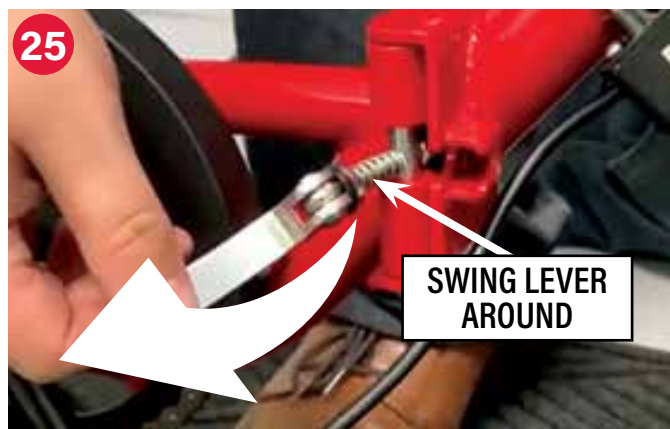
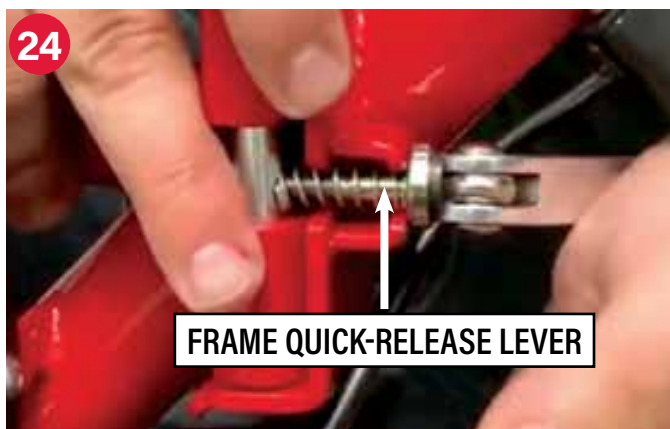
## DISASSEMBLING (CONTD.)

**⚠ CAUTION:** This is a pinch point, watch your hand and/or fingers when removing the frame pin.

**🌐 TECH TIP:** Learn how to loosen the Quick-Release Lever, turn to page 20. Use the Liberty Trike Stand\* to help you hold up the rear half of the frame.

### HOW TO DISCONNECT THE FRAMES

Face the drivetrain side (the right side, which has the chain and chainring). Slide the Liberty Trike Stand under the rear half of the frame, behind the rear frame connector.\* Loosen the frame QR lever (image 24) and swing the lever around towards you (image 25). Carefully pull the pin-up and out of the frame\*\* (image 26) and store the pin in a secure location. Pull apart the two halves in opposite directions (image 27) and lay them down safely.



### LEARN HOW TO DISCONNECT THE FRAMES

\*Discover How to Use the Liberty Trike Stand

Click or copy this link: <https://youtu.be/5Qm9k7cey10?si=iwaWz8Kh2w3JB5rD>

\*\*Learn About the Shimmy Video

Click or copy this link: <https://youtu.be/zdivDhZx9P4?si=Fsg6RF-pJ4KXf69D>

## DISASSEMBLING (CONTD.)

**TECH TIP:** When storing the Liberty Trike in two pieces, NEVER lift the Liberty Trike by the rear basket, and DO NOT lay the Liberty Trike down on the chainring or the disc brake side as it could cause damage to those components.

Before removing the stem and seatpost from the frame, sometimes it's best to mark the stem post and seatpost with a marker where it was inserted into the frame. This reminder will help you remember where to reinsert it when you put it back together.

### HOW TO REMOVE THE HANDLEBAR & STEM

If you haven't done it yet, disconnect the 3-to-1 accessory cable (that's located on the front, right side of the trike) before removing the handlebar and stem from the frame.

To remove the handlebar and stem, loosen the quick-release lever, pull up on the handlebar and stem out of the frame, and set it aside.

*To learn how to operate a Quick-Release Lever, turn to page 19.*



### HOW TO REMOVE THE SEATPOST AND SADDLE

Loosen the seatpost quick-release lever and pull the seatpost and saddle out of the frame, and set it aside.



# FOLDING THE LIBERTY TRIKE

**⚠ CAUTION:** We strongly encourage you to read and understand this manual entirely before folding the Liberty Trike for transport or storage.

**🔧 TECH TIP:** Learn how to use the Liberty Trike Stand, click or copy this link, <https://youtu.be/5Qm9k7cey10?si=vJH6GVr4BmE8Sp6V>

## WHY WOULD YOU FOLD THE LIBERTY TRIKE?

If you don't own a hitch or a bike rack, then folding the frame will make it easier to transport inside your vehicle. Also, the trike will become easier to store in your home, garage, or shed.

## WHAT TO DISCONNECT

**A) The 3-to-1 Accessory Cable to the Controller** – These cables are located in front of the trike.

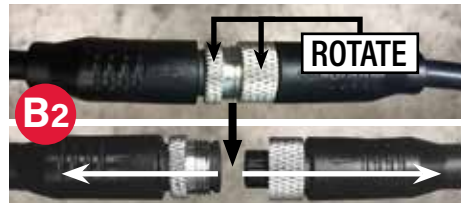
*To see the 3-to-1 Cable turn to page 22, image 4 for details.*

**B) The Controller Cable to the Battery Cable** – These cables are located under the cranks. If your cables look like image B1, it's a 2-prong cable connection – gently pull apart the cables. If your cables look like image B2, it's a 5-pin twist cable connection – twist the large silver band counterclockwise to loosen and then gently pull the cables apart.

*To see the Controller and Battery Cable, turn to page 22, images 6 and 6a for details.*

**C) The Battery Cord** – Gently unplug the cord from the battery.

*To see the Battery Connection, turn to page 23, image 7 for details.*

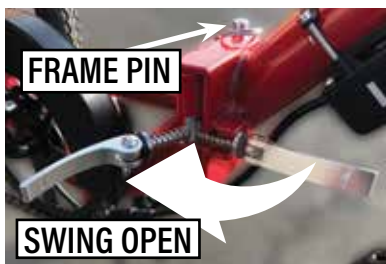


## HOW TO FOLD THE LIBERTY TRIKE

Face the drivetrain side (the right side, which has the chain and chainring). Loosen the frame quick-release and swing it to you. Do not pull the frame pin out because it acts as pivot point, and it keeps the frame halves together.

Push the front end away from you, so it swings backwards. Use the LT Stand to keep the trike from falling over.

*To learn How to Use the LT Stand, click or copy this link: <https://youtu.be/5Qm9k7cey10?si=vJH6GVr4BmE8Sp6V>*



The front wheel doesn't tuck inside the frame, but it will rest in front of the rear wheel. You may need to remove the handlebar, seat, and basket for more clearance.

*See page 24 to learn How to Remove the Handlebar and page 23 for installing and removing the Seat. Turn to page 26, to learn How to Remove the Basket.*



# LCD OVERVIEW

**⚠ CAUTION:** Avoid leaving the trike outside for long or short periods of time. Always cover the LCD to protect it from the sun, heat and/or moisture. Prolonging sun, heat, and/or moisture exposure will cause the liquid crystals in the display to be damaged.



## LCD OVERVIEW

|    |   |
|----|---|
| 1  | Battery Percentage: 1-5 Levels  |
| 2  | Top of the Display Area   |
| 3  | Watts   |
| 4  | Power Levels: 1-5 Levels  |
| 5  | Current Speed: MPH or KM/H  |
| 6  | 5v USB Port   |
| 7  | Indicates Trip, Odometer (ODO), Time (Ride), Max or Avg Speed, and Error Code |
| 8  | Bottom of the Display Area  |
| 9  | Walk Assist   |
| 10 | USB Indicator   |

## REMOTE PAD OVERVIEW\*

|   |   |
|---|---|
| 1 | Increase Power, Scroll Up               |
| 2 | Hold to Turn On/Off and Change Settings |
| 3 | Decrease Power and Scroll Down          |
| 4 | Hold for Walk Assist                    |

\* The Remote Pad buttons use many different functions than what is shown here. Those will be covered elsewhere in the manual.



# LCD CONTROLS

**⚠ CAUTION:** It's essential to familiarize yourself with the LCD functions before your first ride. New riders should limit the power levels until they are comfortable with the Liberty Trike's powerful motor. We recommend that you start slowly, practice, and improve your riding skills.

**🌐 TECH TIP:** You don't have to use the maximum power level 5 all the time. On flat ground, it's best to turn down the power level and use levels 1-3.

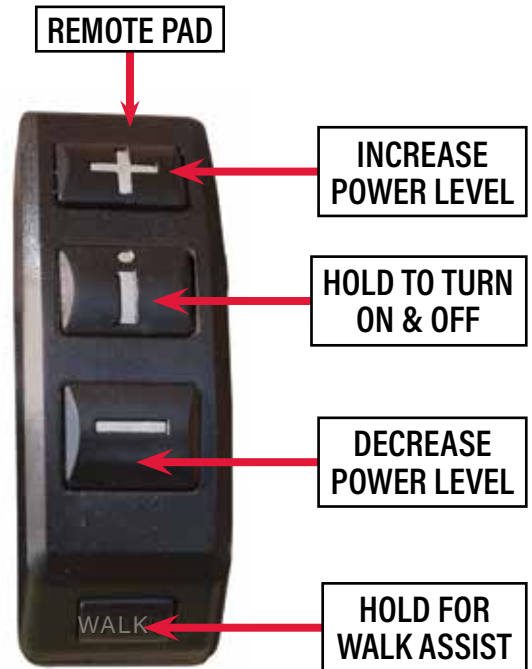
## HOW TO TURN THE LCD ON OR OFF

Press and hold the "i" button on the remote pad.

## HOW TO INCREASE AND DECREASE THE POWER LEVELS

Press the "+" button on the remote pad to increase the power level.

To decrease the power level, press the "-" on the remote pad.



## HOW TO USE WALK ASSIST

Press and hold the "walk" button under the remote pad. The liberty Trike will move approx. 1.7 mph pace but remember to use the front brake to stop the trike.

## WHEN TO USE WALK ASSIST

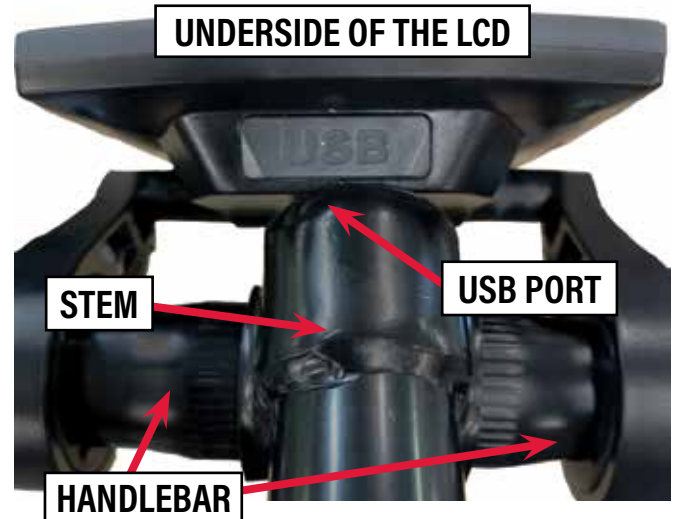
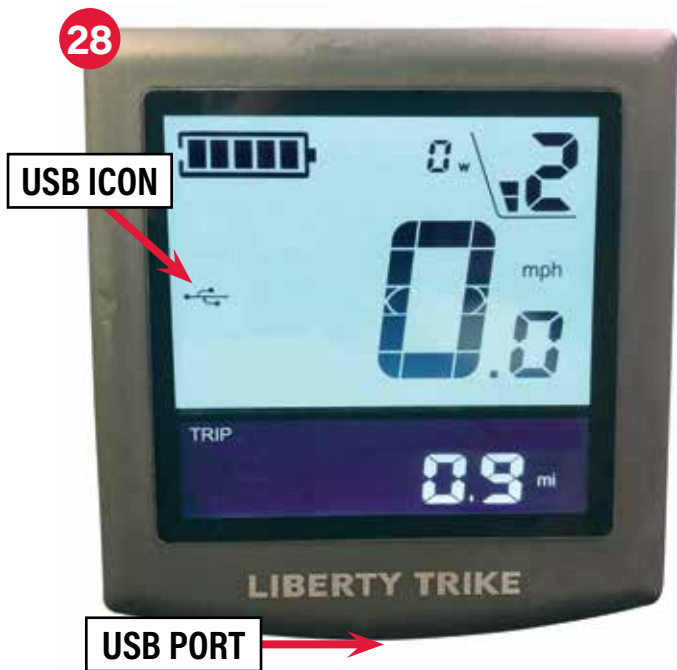
Walk assist is good to use when you are shopping in a store or on a crowded area where you are limited to a slower speed.

## LCD CONTROLS (CONTD.)

**⚠ CAUTION:** It's essential to familiarize yourself with the LCD functions before your first ride. **DO NOT** use the USB port in wet or moist conditions. Make sure no liquids, mud, or dirt can enter the USB port. Always close the USB port cover properly when the USB port is not in use.

### INCREASING THE BACKLIGHT

On the remote pad, press and hold the "+" button for three seconds to increase the brightness of the display. For the backlight to return to normal, hold the "+" button again to return to the standard setting.



### USING THE USB PORT

At the bottom and under the LCD is the 5v USB port. The USB port can be used to power or charge devices like a smartphone or bike light. On the LCD screen, (image 28) a USB icon will show on the display when a device is being used. To open the USB cover, use your fingernail to lift the cover up and use an appropriate cable (not included) for your device to access the USB port.

# POWER LEVELS

**⚠ CAUTION:** If climbing a steep grade or hill, it's essential to accelerate slowly at first. Keep your body low and shift your weight forward to avoid the front wheel from lifting upwards. Sometimes if you accelerate too quickly, you may tilt/or flip the trike backward, which will result in a fall and/or injury.

**🌐 TECH TIP:** Accelerate slowly, to avoid popping a wheelie, when climbing a steep grade/hill.



## ABOUT THE POWER LEVELS

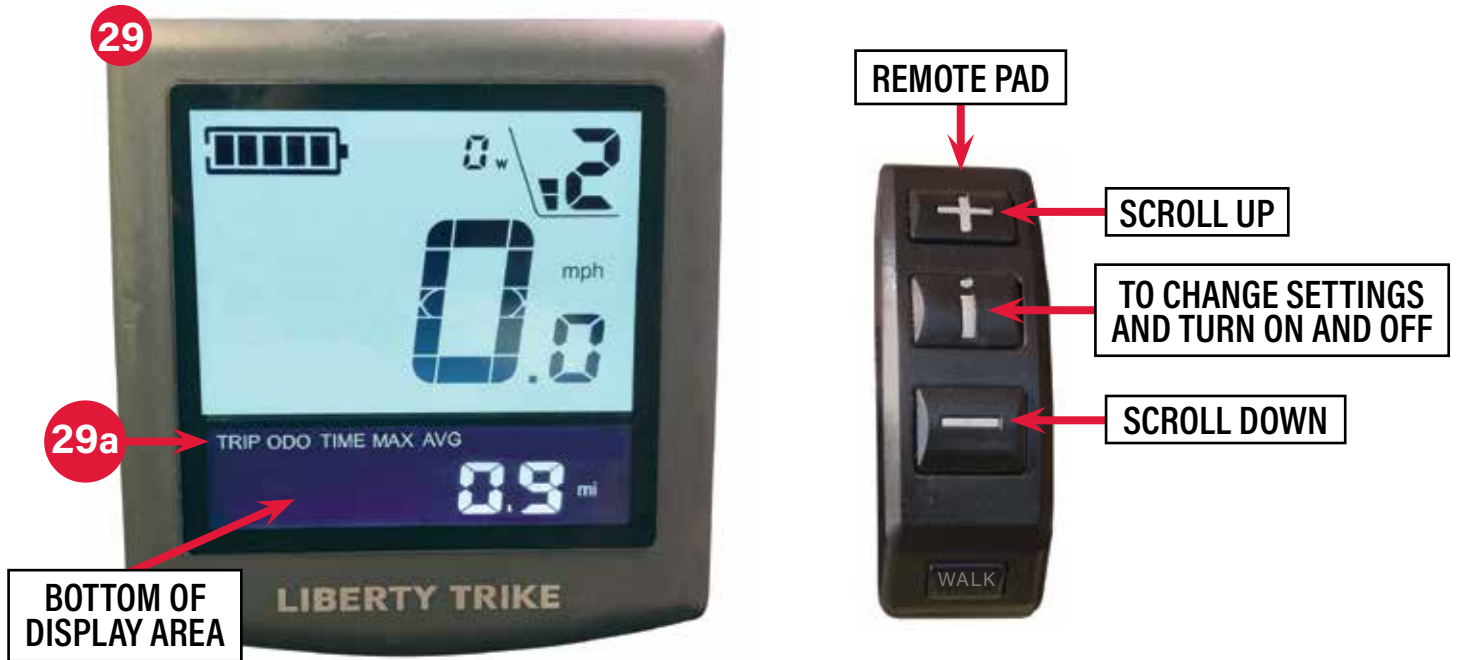
The power level controls the power of the motor. The levels range from 1-5, with level 5 being the fastest, level 1 being the slowest, and 0 is no electric assist. Lowering the power level will limit the power that the motor produces. It will reduce the top speed and make it harder to climb steep hills.

Depending on the size and grade of the hill, levels 3-5 will be the best levels to use. When climbing a steep grade/hill, it's best that you accelerate slowly and keep your body low and leaning forward. Your elbows should be slightly pointing out to keep your chest open for easier breathing. Leaning forward will keep the front wheel from lifting upwards. If you feel the rear tires slipping, then shift your weight more towards the middle of the trike. You want to have equal weight in the front and rear (in the middle) of the trike so that the front tire isn't lifting off the ground and the back tires aren't slipping.

| SPEED LEVELS | MPH |
|--------------|-----|
| Level 1      | 2   |
| Level 2      | 4   |
| Level 3      | 7   |
| Level 4      | 9   |
| Level 5      | 12  |

# LCD FUNCTIONS

**⚠ CAUTION:** Please familiarized yourself with the LCD functions before your first ride.



## HOW TO CHANGE THE TRIP, ODOMETER, RIDE TIME, MAX AND AVG SPEED SETTINGS

On the remote pad, press the "i" button to scroll through the settings (image 29a) for trip, ODO (odometer), time (ride time) maximum and average speed. These settings aren't available all at once, but each can be chosen as a single option. Select the setting and press the "i" button for three seconds to save and close.

## HOW TO RESET THE MAXIMUM AND AVERAGE SPEEDS

Turn the LCD off and then back on. Press and hold the "i" button to turn off the LCD, and then press the "i" button again to turn it back on.

## HOW TO RESET THE TRIP DISTANCE

Hold the "+" and "-" buttons simultaneously for three seconds on the remote pad to clear the trip distance. The LCD will now display EC-n. Press the "+" button to change it to EC-y. Hold the "i" button for three seconds to save and close. Press the "i" button to turn the LCD back on.

# TORQUE SPECS

**⚠ WARNING!** Bolts that are too tight can stretch and deform. Bolts that are too loose can move, fatigue, or even fall out. Either mistakes can lead to a sudden failure of the bolt. Failure of specific bolts could lead to bicycle/tricycle malfunction or breaking, resulting in personal injury risk.

## THESE ARE ONLY RECOMMENDATIONS

Correct tightening torque of threaded fasteners is critical to your safety. Always tighten fasteners to the right torque setting. These are based on factory testing, and industry accepted standards, and manufacturer's specifications.

This is to be used as a guide for a skilled, trained mechanic to use when assembling, adjusting, or repairing a Liberty Trike. Always use your best judgment—these figures are given without warranty and are subject to change without notice. Torque measurements are given in ft-lbs or Nm were convenient for commonly available tools that use those units. Make your own conversions as needed.

Always use a correctly calibrated torque wrench to tighten critical fasteners on your Liberty Trike. Carefully follow the torque wrench manufacturer's instructions on the correct way to set and use the torque wrench for accurate results.

| COMPONENT                    | TORQUE       | NOTES   |
|------------------------------|--------------|---|
| Rear Axle Nuts               | 50-85 Ft-lbs | Adjust the axle nuts so that the wheels spin freely without binding. No preload on these nuts, only prevailing torque.  |
| Fixed Sprocket Set Screw     | 14 Ft-lbs    | Keyhole must be centered in the fixed sprocket.   |
| Pedals                       | 35 Ft-lbs    | Left hand pedal is left threaded, marked and knurled.   |
| Rear Coaster Brake Axle Nuts | 22 Ft-lbs    | N/A   |
| Disc Rotor Mounting Screws   | 5 Nm         | Industry has a wide range.  |
| Disc Caliper                 | 8 Nm         | Adapter to frame mount, caliper to adapter, and cable anchor.   |
| Axle Torque Arm M6 Screw     | 9 Nm         | Must be installed and torqued before riding.  |
| Motor Axle Nuts              | 35-40 Ft-lbs | <b>Must be torqued appropriately</b> before operating to avoid motor damaging the forks.  |
| Motor Case Screws            | 5 Nm         | N/A   |
| Headset Locknut              | 110 Ft-lbs   | Industry standards dictate a much tighter preload on the locknut. The quick-release handlebar necessitates low torque. Use thread locknut and only tighten within the steerer tube to avoid crushing. |
| Seat Rail to Seatpost        | 25 Ft-lbs    | N/A   |
| Seatpost QR Lever            | 125 Ft-lbs   | Set torque with seatpost in place and lever closed  |
| Handlebar/Stem QR Lever      | 17 Ft-lbs    | Orientation of fin neck/carriage bolt to avoid damage to stem.  |
| Stem QR Lever                | 150 Ft-lbs   | N/A   |
| LCD Clamp                    | < 1 Nm       | N/A   |
| Throttle and LCD Buttons     | < 1 Nm       | N/A   |
| E-Brake Clamp                | 5 Nm         | N/A   |



# TROUBLESHOOTING

**NOTE:** The following instructions should be considered as general guidelines only. Your situation can be slightly different. Want to learn more about your Liberty Trike? Watch our Helpful Videos,\* and learn how to fix the error codes. If you still can't solve your problem(s), contact customer service at 1-866-894-4620 and our experts will help you solve the issue.

## WHY DOESN'T MY LCD SCREEN TURN ON OR WHY DOESN'T MY MOTOR RUN?

First, make sure the battery is turned on. Second, make sure your connections are secure. Third, check all the cables for any damage. Unplug each cable connector and check the pins to see if they are bent. It may be difficult to see if the pins are bent, so use a flashlight. It will make it easier to see if the pins are okay, then gently plug it back in. Fourth, check the battery and charger cables.

If the LCD screen turns on (backlight only) momentarily and then off again—it's a bent pin (the male plug) in the 3-to-1 accessory cable or battery isn't charged.

If there's an Error Code 30 and no battery bars, it's a bent pin(s) in 3-to-1 (the male plug) or a bent pin (the male plug) in the LCD.

| ERROR CODE | PROBABLE CAUSES   |
|------------|---|
| 21         | <b>Current Issue</b> – A damaged cable  |
| 22         | <b>Throttle</b> – Stuck on, when the screen is powered on or it has a bent pin(s)                                       |
| 23         | <b>Motor Phase</b> – Motor cable is not plugged in all the way, damages to the motor cable, or the wheel is on backward |
| 24         | <b>Motor Hall Sensor</b> – A bent outer pin on the motor cable or damage to the motor cable                             |
| 25         | <b>E-Brake</b> – The brake is stuck, power on, or not fully plugged in  |
| 30         | <b>Communications</b> – From the controller to the LCD or a bent pin  |



## WHY DOES MY BATTERY APPEAR EMPTY AFTER CHARGING?

You will see if the correct voltage setting is set for 36 volts. To do this, turn the LCD screen off by pressing and holding the "+," "-", and "i" buttons at the same time for three seconds. The screen will then flash either "36" or "48". If it flashes "48", then select "36" (if the screen already displays "36," then you are done). Turn the LCD screen back on by pressing the "i" button and recheck the battery display.



## WATCH OUR HELPFUL VIDEOS PAGE

Click or copy this link: <https://www.libertytrike.com/pages/libertytrike-helpful-videos>

# CLEANING & LUBING THE LIBERTY TRIKE

**⚠ CAUTION:** Before you begin to wash your Liberty Trike, REMOVE THE BATTERY from the trike. Failure to do so could damage the electrical components and system. Avoid spraying water on the electrical parts of the trike. There is a potential of having electrical problems due to the water getting in. If you think damage has occurred, DO NOT use the Liberty Trike and call customer service at 1-866-894-4620 for further assistance.

We strongly recommend that you DO NOT use a pressure washer, steam cleaner, or pressure hose. These could cause dirt, debris, or water/moisture to move into sensitive areas. A high-powered hose could also wash away grease, intended to prevent water and dirt from penetrating the bearings.

Avoid getting soap, oil, cleaning products, or foreign substances on the brake rotors and pads. This will contaminate the pads and prevent their stopping performance.

**💡 TECH TIP:** Wear disposable or nitrile gloves to avoid getting dirty and greasy hands.

**🚫 NOTE:** Several bicycle companies now supply e-bike cleaners and e-bike chain lube. Ask a bike shop or other electric bike or trike owners what they recommend.

## HOW TO CLEAN THE LIBERTY TRIKE

Unless the Liberty Trike is filthy, you can “spot clean” (cleaning only where it is dirty) your trike. Be cautious of the electrical parts of the trike and water. Avoid spraying water directly onto the electrical parts. Failure to do so could damage the trike’s electrical components and system. Some bike cleaners' instructions will have you spray directly on the trike, follow their directions. The instructions below are general guidelines for cleaning your electric Liberty Trike.

First, remove the battery from the trike and keep it in a safe place away from the water. Fill a bucket with warm water and add a few drops of dish soap or bike cleaner. Please ensure you use only the gentle hose setting to clean the sensitive parts like the bearings, headset, wheel hubs, etc. Avoid the electrical components, like the LCD, and controller. Light water is acceptable but soaking and/or blasting the electrical parts IS NOT advised.

Take the soapy sponge and wipe the frame, handlebars (carefully around the LCD), under the seat, seatpost, fender, basket, rims, and tires. Using the gentle setting, rinse everything off with the hose. Wipe down the trike with a clean, soft cloth, making sure to avoid the disc brakes (you do not want to contaminate the disc with oil or a cleaning product). Wipe the trike until it is completely dry.

## HOW TO LUBE THE LIBERTY TRIKE CHAIN

Since the Liberty Trike uses a coaster brake, and you can't pedal backwards, you'll need to support the rear wheels off the ground. Make sure that the trike is well supported, so it isn't moving or rocking, where it can fall and cause an injury.

Place newspapers under the chain line to avoid a mess. Take a shop rag, grasp the chain lightly with your left hand, and use your right hand to pedal the trike forward. The chain will lightly run through your shop rag hand. Doing this will help remove the chain's grime, old oil, and dirt. Spin the chain for a few rotations.

Apply a bead of dry chain lube along the chain line and spin the chain for a few rotations. Grab a clean shop rag and lightly grab the chain as it runs through the rag. You are trying to remove any of the excessive chain lube.

# MAINTENANCE & SERVICE GUIDELINES

**⚠ WARNING!** Be sure that any problems identified in the maintenance section or otherwise are addressed immediately. If any of these problems exist, **DO NOT** ride your Liberty Trike! Suppose you continue to ignore loose or damaged components/fasteners. In that case, it will damage the trike even further and possibly result in a fall or an injury.

Never inflate a tire beyond the maximum pressure (35 PSI) marked on the tire's sidewall. Exceeding the recommended maximum pressure may blow the tire off the rim, which could damage the trike and injury to the rider and bystanders. Tires having low pressure and that causing loss of control issues, with potential for injury.

There is a safety risk when using gas station air hoses or other air compressors. These machines aren't intended for bicycle tires. They move a large volume of air very rapidly and will raise the pressure in your tire very rapidly, which could cause the tube to explode. Use a floor bicycle pump or a hand bicycle pump.

Under inflated tires can also cause handling problems that could cause tipping over, other loss of control, and personal injury.

**⚠ CAUTION:** For your Liberty Trike to remain safe and reliable, a maintenance schedule is required. If you're uncomfortable performing any maintenance to your trike, then you should visit a bike shop for help.

**🔧 TECH TIP:** The tire PSI information is found on the sidewall of the tires. Liberty Trike recommends using 28-35 PSI. Putting more or less PSI will depend on the rider's weight, terrain, and riding preferences.

**🛑 NOTE:** We highly recommend carrying a spare inner tube(s) when you are riding your Liberty Trike. Patching a tube is an emergency repair. Suppose you do not apply the patch correctly or apply several patches. In that case, the tube can fail, resulting in you losing control, falling, and possibly being injured. Replace the patched tube as soon as possible.

Regular maintenance and service are essential for all bicycles. Electric bikes and trikes, in particular, require additional care to ensure safety and optimal performance due to their more complex components and electronics, as well as their potential for longer and faster rides compared to conventional bikes.

## ROUTINE CHECKS (BEFORE EACH RIDE OR WEEKLY)

- 1) **Spoke Check** – Squeeze two spokes together to ensure there is no excessive play between them.
- 2) **Wheel Stability** – Confirm that the wheels do not exhibit side-to-side movement.
- 3) **Bolt Tightness** – Verify the tightness and security of Dropout Bolts and Torque Arm Bolts. **Refer to page 16 for their locations.**
- 4) **Quick-Release Levers** – Ensure that all Quick-Release Levers are tightened securely. **Learn how to do this on page 19.**
- 5) **Wing Nut Inspection** – Confirm that Wing Nuts are properly tightened. **Reference page 26 for their locations.**
- 6) **Tire Pressure** – Check tire pressure, aiming for the recommended 28-35 PSI. Use a bicycle pump to adjust as needed. **Find instructions on how to inflate tires on page 35.**

## ADDITIONAL WEEKLY CHECKS

- 1) **Brake Test** – Test the brakes by lifting the wheel off the ground and slowly applying throttle. Squeeze the e-brake lever to ensure the power cuts off as intended. If necessary, perform a slow roll test by accelerating the trike and then applying the front brake after traveling ten feet. If the power does not cut off, contact customer service at **1-866-894-4620** for assistance.
- 2) **Cable and Wire Check** – Inspect cables and wire connections for signs of corrosion or burn marks. Do not use or charge the Liberty Trike if any warning signs are present. Contact customer service at **1-866-894-4620** for further assistance.
- 3) **Battery Status** – Verify that the battery is fully charged and that all connections are secure and tight.
- 4) **Chain Maintenance** – Examine the chain for dirt and grime. **Refer to page 48 for instructions on how to clean and lubricate the chain.**
- 5) **Brake System** – Check that the brake rotors are straight and not rubbing against the brake pads. Ensure that the braking power is sufficient. If necessary, **follow instructions on pages 33 and 34 for coaster and disc brake usage.**

# MAINTENANCE & SERVICE GUIDELINES (CONTD.)

**⚠ WARNING!** The Liberty Trike uses a powerful front disc brake, and it's essential to realize that there is presumably a flipping over danger, if the front brake was fully applied at a high speed. Be cautious when applying the front brake and use it in unison with the coaster brake for a more controlled stop.

DO NOT use your Liberty Trike if you exhibit any corrosion, rust, or the cables or wire connections look burnt. Contact customer service at 1-866-894-4620 for further assistance.

**⚠ CAUTION:** If you don't have the strength to lift the front of the Liberty Trike, seek a neighbor or friend that can assist you in this procedure. If no one is available then you can try the "slow roll test." Make sure that the area that you use is clear of any objects, that can injure you and wear a helmet for safety.

**Ⓝ NOTE:** How long can you expect the brake pads to last will depend on how much riding you do, the type of riding terrain, the weather conditions, and the rider's weight are factors that influence how long they last.

## ADDITIONAL WEEKLY CHECKS

- 1) **Shutdown Procedure** - Turn off the Liberty Trike by pressing and holding the "i" button on the remote pad.
- 2) **Inspection** - Inspect the frame, wheels, and tires for any damage.
- 3) **Battery Maintenance** - Charge the battery to maintain its health. **Refer to pages 30 and 31 for charging instructions.**
- 4) **Cleaning** - Clean the Liberty Trike **following the guidance on page 48.**

## QUARTERLY MAINTENANCE (EVERY THREE MONTHS)

- 1) **Frame and Component Check** - Inspect the frame and fork for cracks, dents, paint issues, or any signs of damage. Examine components such as the seatpost, seat, stem, handlebar, cranks, and brakes to ensure nothing is bent or loose.
- 2) **Bolt Inspection** - Check the Dropout Bolts and Torque Arm Bolts for tightness and security. **Reference page 16 for their locations.** Also, inspect all other bolts to make sure nothing has loosened due to vibration, see chart below for details.

| BOLT                   | TORQUE       |
|------------------------|--------------|
| Rear Basket            | > 1 Nm       |
| E-Brake Lever          | 5 Nm         |
| Brake Cable Anchors    | 5 Nm         |
| Disc Rotor             | 5 Nm         |
| Disc Caliper           | 8 Nm         |
| Motor Axle Nuts        | 35-40 Ft-lbs |
| Motor Torque Arm Screw | 9 Nm         |
| Rear Axle Nut          | 50-85 Ft-lbs |
| Throttle Clamp         | 17 Ft-lbs    |
| Seatpost Clamp         | 150 Ft-lbs   |
| Handlebat Clamp        | 17 Ft-lbs    |

## BIANNUAL MAINTENANCE (EVERY SIX MONTHS)

- 1) **Bearing Inspection** - Inspect the bearings in the headset, rear axle, pedals, and bottom bracket. These bearings may require periodic adjustment, lubrication, or replacement, and such repairs are best left to a professional bike shop.

# LIBERTY TRIKE SIZING



**A** - Reach: 22"

**B** - Handlebar Rise: 4.5"

**C** - Height: 41-44"

**D** - Standover Height: 13.5"

**E** - Seat Height\* to Pedal: 19-26"

**F** - Seat Height\* to Ground: 25-31"

**G** - Overall Width: 24"

**H** - Wheelbase: 40"

**I** - Overall Length: 55"

**ADDITIONAL SPECS:**

Total Weight: 56 Lbs.

Ground Clearance: 6"

Turning Radius: Approx. 7' 9½"

Rider Height Requirement: 4'5"-6'1"

*\*The seat height was measured from the minimum insertion height (marked on the seatpost) to the lowest seatpost height.*



# LIBERTY TRIKE SPECS

|                       |   |
|-----------------------|---|
| <b>INTENDED USE</b>   | Mobility, Neighborhood, Cargo, Travel, and Shopping                           |
| <b>COLORS</b>         | Red, White, Blue, Teal, Purple, Yellow, Black, Green, Orange, and Pink        |
| <b>TOP SPEED</b>      | 12 Mph with User Adjustable Speed Limit                                       |
| <b>RANGE</b>          | 8 – 20 Miles (Based on Rider Weight, Input, and Terrain Contingent)           |
| <b>MOTOR</b>          | Front Mounted, Direct-Drive Hub Motor with 750 Watts                          |
| <b>TORQUE</b>         | 60Nm   Cruising Speed – Maximum Efficiency 2.8Nm – 4.28Nm                     |
| <b>MAX PAYLOAD</b>    | 400 lbs Includes Rider and Cargo  |
| <b>CHARGE TIME</b>    | 3 Hours (From 0 – 100%)   |
| <b>CHARGER</b>        | 36v 2.5A RCA Type Connector   |
| <b>DRIVE MODE</b>     | Throttle-On-Demand with 5 Speed Levels, Programmable Speed, and Current Limit |
| <b>FRAME</b>          | High Tensile Steel, TIG-Welded  |
| <b>FORK</b>           | Chromoly Steel with Disc Brake Mount  |
| <b>SUSPENSION</b>     | None  |
| <b>WHEELS</b>         | (F) 16" Black Mag Wheel   (R) Two 16" Black Mag Wheels                        |
| <b>TIRES/TUBE</b>     | EBT Black 16" x 2.5"   16" x 2.5" Schraeder Valve Tube at 35 PSI              |
| <b>SEAT</b>           | 9.5" Lgth x 11.5" Width with an Adjustable Backrest Range of 4.5"             |
| <b>SEATPOST/CLAMP</b> | Steel 350mm Lgth x 25.4mm Dia. with Quick-Release Lever                       |
| <b>STEM</b>           | Steel, 22.2mm Dia. Bar Clamp  |
| <b>HEADSET</b>        | Threaded, Caged Bearings  |
| <b>HANDLEBAR</b>      | High Riser Steel 387mm Lgth x 22.2 Dia.                                       |
| <b>BRAKES</b>         | (F) ProMax Mechanical Disc with 160mm Rotor   (R) Coaster Brake               |
| <b>BRAKE LEVER</b>    | Wuxing Left Brake Lever with Parking Brake Latch, and E-Brake Shut-Off        |
| <b>GRIPS</b>          | Black Rubber Grips  |
| <b>DISPLAY</b>        | Easy-To-Read, Backlight, Monochrome LCD with 5v USB Port                      |
| <b>SHIFTER</b>        | None  |
| <b>CRANKSET</b>       | Forged Steel, One Piece 6" Lgth with 40t Chainring                            |
| <b>CHAIN GUARD</b>    | Black Steel Chain Guard   |
| <b>GEARING</b>        | Singlespeed with 22 Tooth Sprocket  |
| <b>PEDALS</b>         | Black Plastic Wellgo  |
| <b>BASKET</b>         | Rear Steel Wired, Black Vinyl Coated 17" Lgth x 14" Width x 8" Depth          |
| <b>FENDER</b>         | Black Front Fender  |
| <b>LIGHTS</b>         | None (Only Offered as an Accessories)   |
| <b>WEIGHT</b>         | 56 lbs (Front and Rear Halves: 25 lbs Each and 6 lbs Battery Pack)            |

**PARTS:** Liberty Trike Battery Pack, Liberty Trike Charger, Liberty Trike Tire, Liberty Trike Tube, Liberty Trike Seat, and Liberty Trike Mag Wheels

**ACCESSORIES:** Thumb Screws, Liberty Trike Cargo Trailer, Pedal Extenders, Liberty Trike Stand, Front Basket, Handlebar Crossbar, 3" Round Mirror, Cygolite Dash Pro 600 Headlight, Sunlite Griplite Headlight/Tail Light Combo Set, Sunlite Ion Tail Light, Sunlite Dot-USB Tail Light, Safety Flag, Memory Foam Seat Cover, and a Fur Seat Cover

# LIBERTY TRIKE BATTERY SPECS

|                                    |  |
|------------------------------------|--|
| <b>NOMINAL VOLTAGE</b>             | 36v  |
| <b>NOMINAL CAPACITY</b>            | 8Ah  |
| <b>BATTERY ENERGY</b>              | Approx. 288Wh                                |
| <b>DIMENSIONS</b>                  | Approx. 10" Lgth x 6" Width x 3" High        |
| <b>TOTAL WEIGHT</b>                | 6.1 lbs                                      |
| <b>CELL ASSEMBLY</b>               | 18650-3.6v-8S 4P                             |
| <b>LIFE CYCLES</b>                 | 800-1000 Cycles                              |
| <b>MAX CONTINUOUS DISCHARGE</b>    | 22.5A  |
| <b>BMS PROTECTION CURRENT</b>      | 30A  |
| <b>DISCHARGE CUT-OFF VOLTAGE</b>   | 30v  |
| <b>MAX CHARGE VOLTAGE</b>          | 42.5v  |
| <b>INNER RESISTANCE</b>            | < = 130mΩ                                    |
| <b>CHARGE TIME</b>                 | < = 3 Hours                                  |
| <b>OPERATION TEMPERATURE RANGE</b> | Charge: 0°C - 45°C / Discharge: -20°C - 60°C |
| <b>STORAGE TEMPERATURE</b>         | 0°C - 40°C (Extended Storage: 15°C - 25°C;)  |
| <b>BATTERY BOX MATERIAL</b>        | Aluminum Box                                 |
| <b>ASSEMBLED PACK CERTIFICATES</b> | UN38.3; MSDS; RoHS; SGS                      |
| <b>LIMITED WARRANTY</b>            | 1 Year                                       |
| <b>MANUFACTURER</b>                | Electric Bike Technologies, Inc.             |