

# ELECTRIC TRICYCLE

Owner's Manual & Assembly Instructions



## Warnings

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**Failure to obey all of the warnings and instructions contained in this manual may result in serious injury, permanent damage to your ELECTRIC TRICYCLE , or legal problems.**

- Always wear a properly fitted and fastened helmet when riding. This is required by law in most states and is an important safety precaution. Failure to wear an approved safety helmet can result in severe injury or death.
- Always obey all traffic laws.
- The purchaser, owner, and /or riders of this ELECTRIC TRICYCLE are directly responsible to know and obey all local, state, and federal laws regarding the riding and use of this ELECTRIC TRICYCLE.
- Always ride cautiously, maintaining complete control and a reasonable speed.
- This Electric Tricycle is not suitable for stunt riding, jumping, competition, or racing.
- Always check that brakes and throttle function properly before each ride.
- Always turn the power off when not in use.
- Only one rider at a time. Riding double, or carrying a person or large object in the basket may interfere with your control of the ELECTRIC TRICYCLE, and can result in loss of control.
- Do not ride at night or in conditions when visibility is impaired , unless you install head lamps and tail lamps that make you visible to all pedestrians and vehicles.
- Wet weather significantly detracts from brake performance. You will need more distance to safely stop in the rain, or on a wet or icy street.
- Do not open or tamper with the batteries in any way. Doing so will cause chemical, electrical and fire hazards.
- This product should not be used by minors without adult supervision.
- Do not tow, pull or be towed or pulled with the ELECTRIC TRICYCLE .
- Keep fingers away from moving parts and belt.

**ALWAYS WEAR A HELMET.**

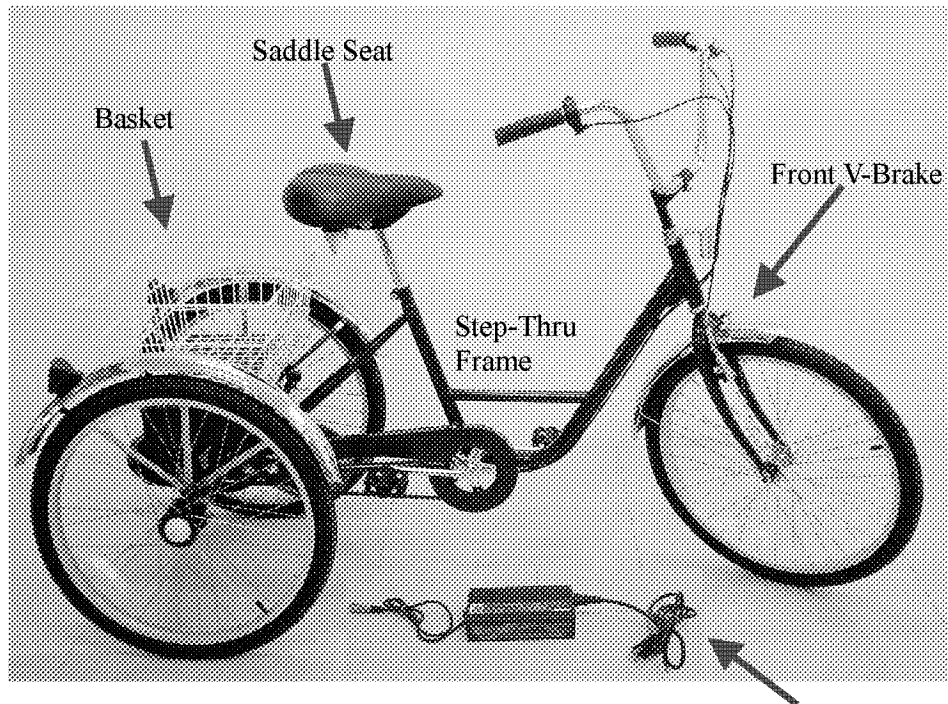
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## FEATURES

- Low Step-Through Frame Design
- 24" Chrome Wheels
- Heavy Gauge Rear Spokes
- Front V-Brake
- Rear Coaster Brake
- Large Rust Resistant Rear Basket
- Comfortable Oversize Gel Saddle
- Locking Brake Lever
- Chrome Fenders
- Battery Level Gauge On Handlebar
- Freewheel-No Motor Drag While Riding



## SPECIFICATIONS

- Motor: 450 Watt High Torque
- Maximum Speed :8 MPH
- Batteries: 24V 20AH
- Charging: 2-Step with Red-Green Indicator, 6-8 Hours
- Adapter: 120V/240V, UL/CE Approved
- Control: Variable 35A Current Limit
- Recommended Maximum Rider Weight : 220lbs. (100kgs)
- Recommended Maximum Basket Load :30lbs. (13.5kgs)
- Total ELECTRIC TRICYCLE Weight:104 lbs. (50kgs)

# ELECTRIC TRICYCLE ASSEMBLY

## INSTRUCTIONS

**!!!Warning!!!** Gomier and Elektrik Motion strongly recommends that a qualified professional bicycle mechanic assembly your ELECTRIC

TRICYCLE . Gomier and Elektrik Motion is not liable for any injury or damage due to improper assembly.

**Be safe! Be secure! Have your ELECTRIC TRICYCLE professionally assembled! Start Here: Open Box 2 of 2. Carefully remove all parts and inspect for damage.**

Set rear assembly (box 2 of 2 ) upside down on Styrofoam.(See Figure 1).

**Install rear wheels (Wheels are located in Box 1 of 2)**

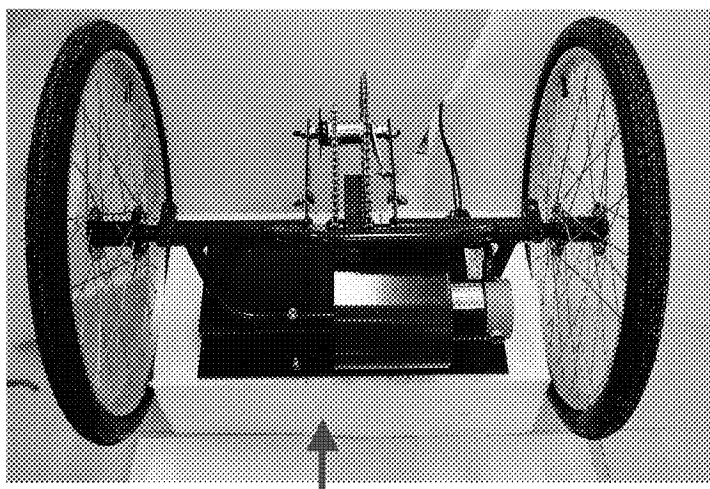
Both rear wheels are the same. The right wheel will be the drive wheel and the left wheel will be the idler wheel. The hub has three holes that fit the pins on the axle on the drive side.

Install the drive wheel on the right side first.

Place washer and large locking nut onto axle (See Figure 3).

Tighten large locking nut just until washer and nut hold wheel on to axle with no side to side play, making sure axle pins are fully engaged into the holes on the hub.

**\*\*CAUTION:** Large nut will be tightened just until snug. Over tightening will damage the bearings.



**Seat Rear Assembly Upside Down on Styrofoam**

Figure 1

Next, install the idler wheel on the left side. First slip the spacer on the axle, then the wheel, followed by a washer and the locking nut (See Figure 2&3). Tighten nut until it touches the bearing. Make sure wheel has no side-to-side play.

**\*\*CAUTION:** Large nut will be tightened just until snug. Over tightening will damage the bearings.

Double check that each wheel is securely installed, and confirm that the locking nuts are tightened only until snug.

Install nut cap on each locking nut.

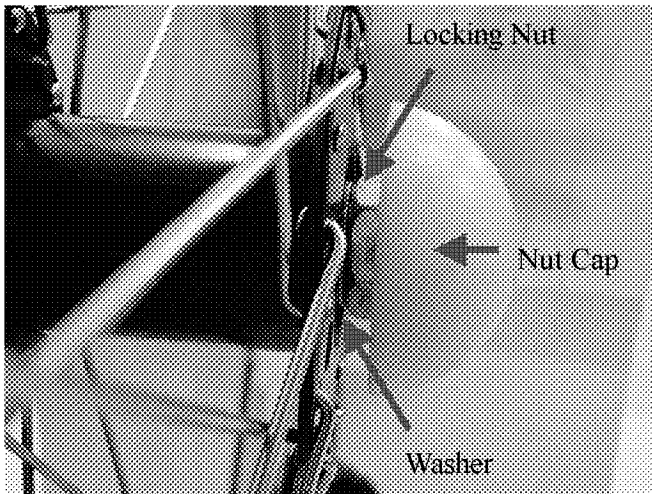


Figure 3

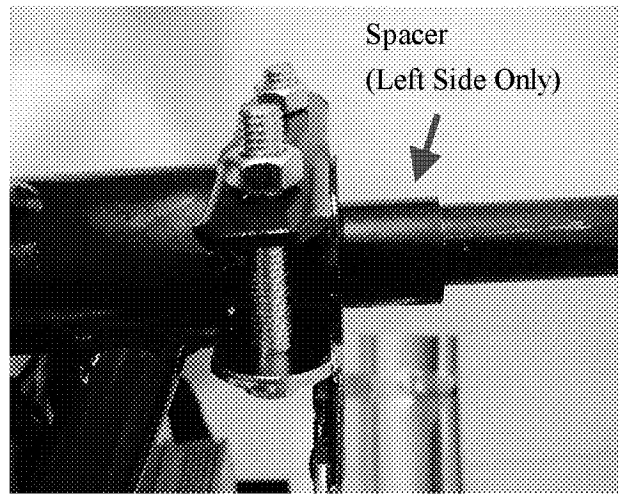


Figure 2

## Continue with Box 1 of 2

Carefully remove all remaining parts and inspect for damage.

### Rear Drive Assembly:

**Note:** Your Electric Tricycle consists of the front bicycle frame and the rear drive assemblies pre-assembled with axle, motor and drive gears.

These two major components must be assembled together below:

The rear drive assembly attaches to the front frame using 4 attachment bolts and washers (See Figure 5). The assembly is described below:

Loosely install two large bolts into the rear holes closest to the axle of each side flange on the rear drive assembly.

Place the bolt through the hole from the inside toward the outside and loosely install the washers and nuts on the outside.

Leave nuts loose so the main frame can slide on (See Figure 4).

Take main frame and turn upside down. Slide front frame on to bolts making sure the frame is to the outside of each attachment flange on the rear drive assembly. Note: place small piece of cardboard under seat post tube to protect frame from scratching (See Figure 4).

Install forward 2 bolts with nuts facing to the outside (See Figure 4).

Slide rear drive assembly as far forward as possible and tighten temporarily just until snug.

Your rear drive assembly is now attached to the main frame.

### Side Front Frame On To Rear Assembly

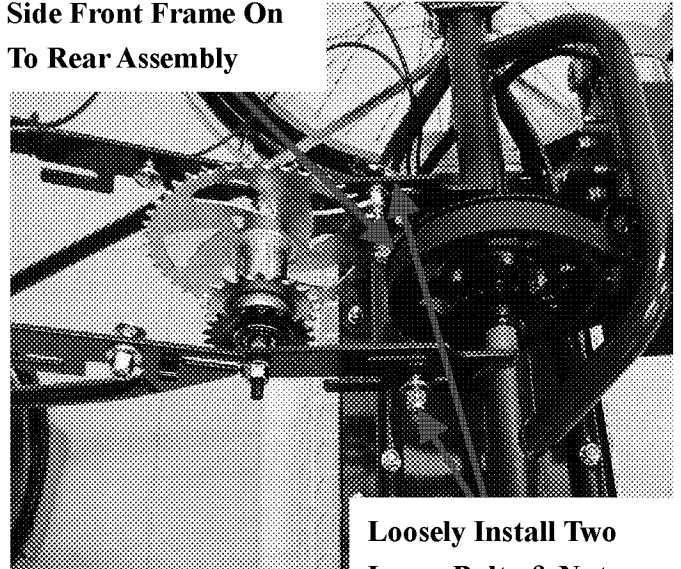


Figure 4

### Attaching Rear Drive Assembly to Front Frame

**Loosely Install Two Large Bolts & Nuts**

Attachment Bolts and Washers Note:  
Nut and washers face outward

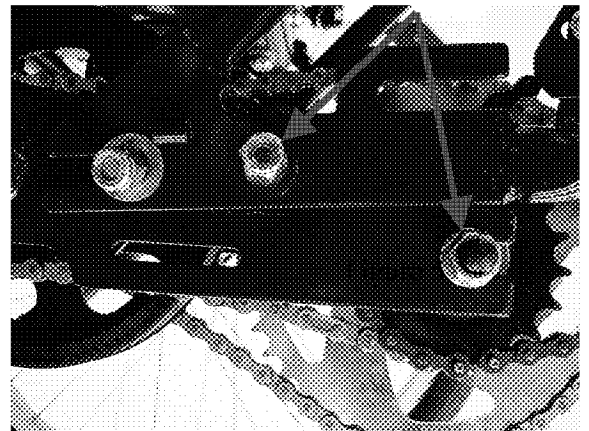


Figure 5

**Leave your Electric Tricycle upside-down for the next important steps.**  
The drive chains must be correctly installed and adjusted for your Electric Tricycle to operate properly. This step is critical for smooth, safe, long lasting operation.

**Chain Installation :Figure 6**

Locate 2 small drive chains.

**Primary Drive Chain:** Install the shorter of the 2 chains around the 22-tooth rear hub sprocket and the 22-tooth axle drive sprocket (See Figure 6).

**Drive Chain Tension:**

Now that the chains are installed, loosen 4 rear frame assembly bolts allowing rear frame assembly to be slid back until chains are tight.

Slide back and tighten rear bolts snug and check chain tension.

**\*\*WARNING: MAKE SURE BOTH CHAINS ARE TIGHTENED UNTIL SLACK IS REMOVED.**

**Note:** Chains are correct length to allow both to be tightened evenly when the rear drive assembly is pulled straight back.

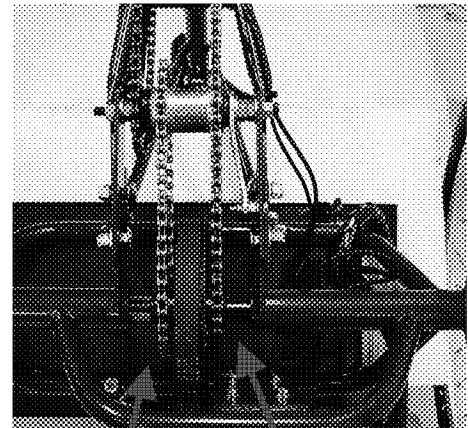
**Note:** Be sure rear drive assembly is square with frame

**Note:** Check each chain for correct tension. If a chain is loose, loosen attachment bolt only on the side of the loose chain side. Pull frame back until chain is tight and re-tighten bolt.

If a chain is too tight, loosen attachment bolt, push frame slightly forward and re-tighten.

**Note:** Once chains are the correct tension, be sure to tighten all 4 attachment bolts securely (Recommended torque 36 ft. lbs.)

Figure 6  
Chain Installation



Secondary  
Drive Chain

Primary  
Drive Chain

## While bike is upside-down install front wheel and fender

### Front Fender Installation:

Fender secures onto fork with bolt.

Align front fender bracket with top fork hole so that the short end of fender faces front.

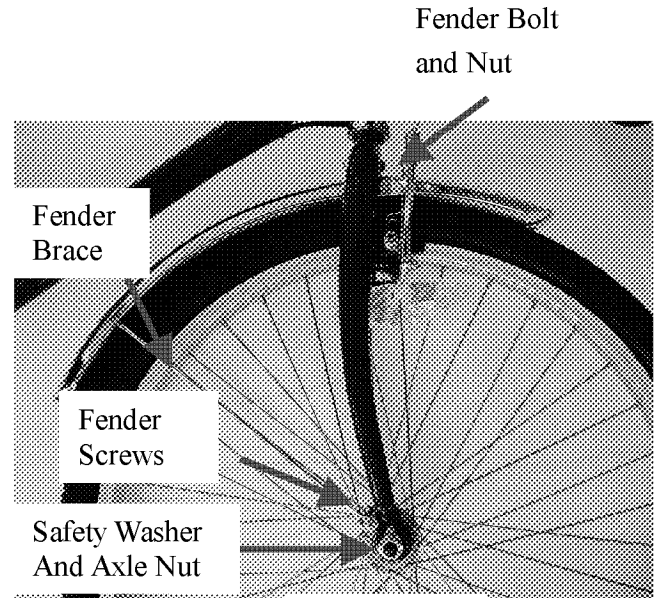
Attach fender braces to fork with little screws

### Front Wheel Installation:

Install front wheel into fork.

Insert tooth of safety washer into safety hole at end of fork.

Install wheel nuts onto front axle, align front wheel and tighten securely (Recommended torque 21 ft.lbs.)



Fender Bolt And Nut  
Figure 7  
Fender Bolt And Nut

### Turn over your Electric Tricycle now

Turn over the ELECTRIC TRICYCLE by lifting front wheel and leaving the rear wheels on the ground (See Figure 7).

**Inflate all three tires to 35 p.s.i**

**Handlebar Installation: Figure 8**

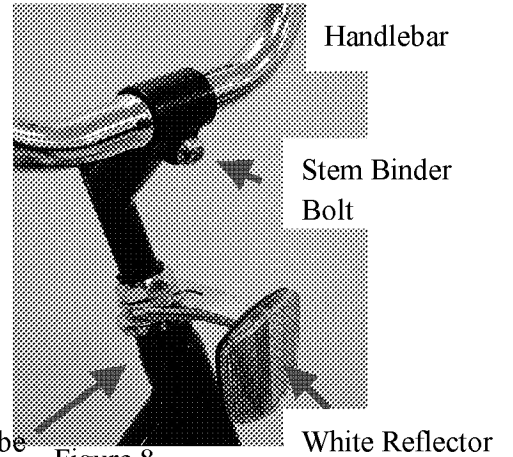
Insert handlebar through stem.

Secure handle bar by tightening front stem binder bolt.

Insert stem into head tube. Penetrate the stem to at least the minimum insertion line.

Secure stem by tightening stem expander bolt.

Be sure to center stem with the front wheel.



Fork Head Tube

Figure 8  
Handlebar Installation

White Reflector

Figure 9  
Throttle Installation

**Throttle and Grip Installation: Figure 9**

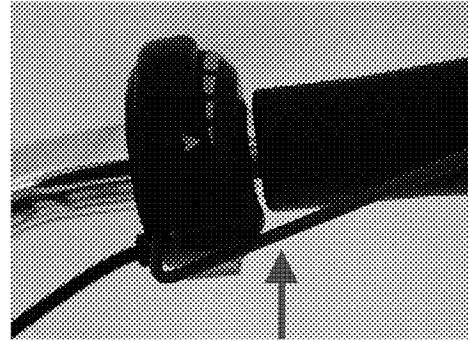
Slide throttle on the right side of the handlebar, do not tighten yet.

Slide right grip all the way onto the handlebar.

Adjust throttle into correct position and tighten small hex bolt on underside of throttle (See Figure 9).

**\*\*\*CAUTION:DO NOT OVER TIGHTEN HEX BOLT!!**

Slide left grip all the way onto the handlebar.



Tightening Bolt with Hex Key  
\_Do Not Over Tighten\_

Trouble question	Light status		
	Red	Yellow	Green
System close	×	×	×
Driver or motor is not set up	×	×	⊗
Controller or motor overheat	×	⊗	×
Out control protective device is working	×	⊗	⊗
The battery voltage below 30V	⊗	×	×
Accelerator wire was damaged	⊗	×	⊗
Over current protected or Driver defect	⊗	⊗	×
The accelerator handle was on while turn on the key switch	⊗	⊗	⊗

**Seat and Seat Post Installation:**

Insert seat post into frame. Penetrate at least to minimum insertion line. Secure by tightening quick release clamp firmly.

Attach seat to seat post by inserting seat clamp onto seat post.

Adjust seat to proper level. Secure by tightening nuts evenly on both sides of seat clamp.



Figure 10  
Seat Installation 11

**Rear Fenders :**

Install reflectors on rear fenders with nut driver before the rear fenders are installed on Electric Tricycle [ See Figure 11 ]



Figure 11  
Reflector  
Installation

Install each rear fender onto rear drive as shown in figure 12.  
Tighten nuts and screws evenly.

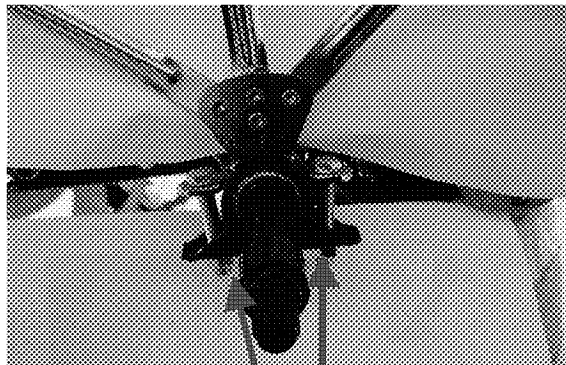


Figure 12  
Rear Fender Screws and Nuts

**Basket Installation: Figure 13**

To install basket loosen the 4 basket attachment bolts and remove retainer bars.

Place basket centered on battery box cover.

Replace retainer bars and bolts and tighten.

\*\*\*CAUTION : Do not open or misalign battery box cover or foam.

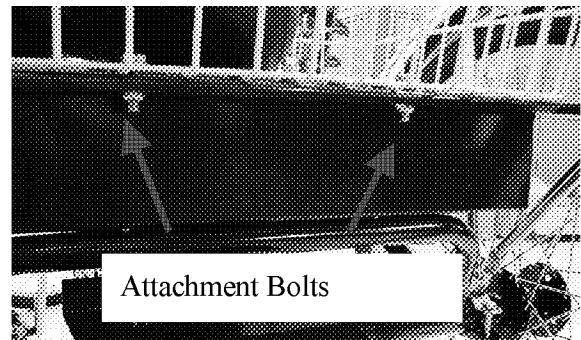


Figure 13  
Basket Installation

**\*\* WARNING: THE BASKET IS NOT INTENDED TO CARRY A CHILD OR ANY OTHER PASSENGER. DOING SO CAN RESULT IN SERIOUS INJURY.**

**Chain guard Installation:**

Install the chain guard around the crank arm on the right hand side of the ELECTRIC TRICYCLE.

Insert and tighten 3 screws.

**Pedal Installation:**

Mount pedals onto crank.

NOTE: there is a left and right pedal indicated by an L or R on the end of each pedal. Left pedal tightens left. Right pedal tightens right . Tighten pedals to a recommended torque of 23 ft. lbs.

**Reflector Installation:**

Install red reflector on the basket. Install white reflector to the reflector bracket on the headset.

**Wire and Cable Routing and Securing:**

Insert throttle wire into cable guides located on lower tubes of the ELECTRIC TRICYCLE frame.

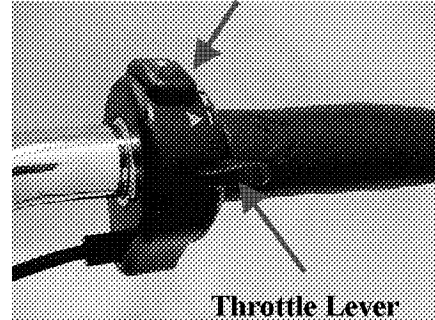
Secure cable with additional plastic cable ties as necessary to keep cable securely fastened.

# Operating and Safety

- Take time to familiarize yourself with your ELECTRIC TRICYCLE.

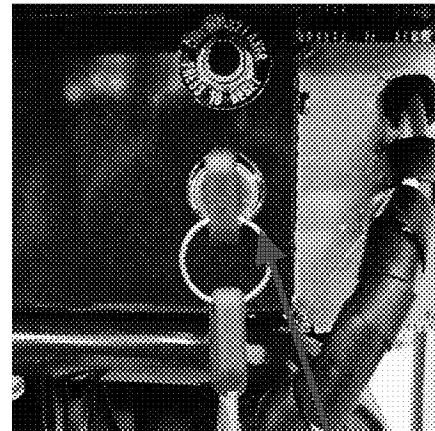
**Battery Lever Gauge**

- To turn on your ELECTRIC TRICYCLE, the switch on the battery cage (See Figure14) and the switch on the rear of the battery cage(See Figure 15) must be in the ON position.
- To activate, use your thumb to **SLOWLY** depress the throttle lever (See throttle lever in Figure 14)



**Figure 14**

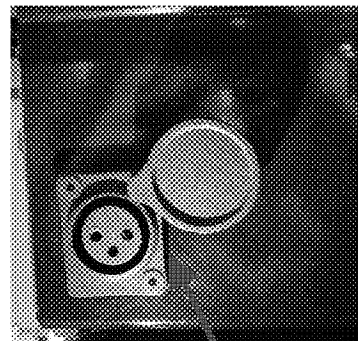
- **IMPORTANT :** Be sure to turn the throttle switch to the off position after every use
- Always observe all traffic regulations, signals, stop right of way, etc.
- Always give pedestrians a wide berth. Your ELECTRIC TRICYCLE is quiet and they may not hear you approaching.
- Always ride like you assume that drivers, pedestrians, and bicyclists do not know you are there.
- Avoid high speed sharp turns, as your ELECTRIC TRICYCLE may tip over.
- Give yourself plenty of braking room. Your ELECTRIC TRICYCLE has the added weight of a motor and batteries that extend braking distance.
- Some localities require that the owner or rider equip their ELECTRIC TRICYCLE with a horn, bell, or other sound making device to use for warning others of your approach.
- Check handlebar and seat adjustments before riding.
- Check all axle, motor mounting, and drive system mounting nuts
- Check your tires for cuts, exposed casing cords, and proper inflation before each ride.
- Check your helmet for proper fit and damage before each ride. **NEVER RIDE WITHOUT A HELMET.**



**Battery ON/OFF Key**

**Figure 15**

**Figure 16**



**Charging Port**

## **Terms & Conditions:**

The Electric Tricycle comes to the original retail purchaser with a limited 180-day warranty from the date of purchase. This warrants that this Electric Tricycle will be free from any manufacturing or material defects to the original retail purchaser for 180 days according to the conditions listed below. The warranty will be valid upon receipt of product registration within 30 days of your date of purchase.

### **This Warranty is non-transferable and is only valid under the following conditions**

1. The set-up instructions were followed
2. The operational instructions have been followed
3. The warnings have been adhered to
4. Valid proof of purchase (dated sales receipt) is furnished upon request when claim is filed.
5. Warranty registration card is furnished upon request when claim is filed (if not already on file)
6. Please contact your dealer (place of original purchase) for initial contact on any warranty related matters
7. A Return Authorization number (RMA#) is required prior to shipping any item back. Any item returned without a Return Authorization number may be refused

Your Warranty will not be extended to any products or components which have been subjected to misuse, accident, used for other than it's intended purpose, or to units which have been repaired or altered outside our factory or authorized service centers. Your electric tricycle Warranty shall be declared null and void where such activities have occurred. Should any warranted part prove defective within the covered warranty period, the customer should call the Service Center for warranty service. All parts, which are supplied as warranty replacements, shall assume the balance of the warranty on the part returned for warranty consideration. Your Warranty assumes no liability beyond the repair or replacement of the

faulty component. Shipping and labor to accomplish any repair is specifically excluded from this warranty. If a faulty component or bicycle is returned to the Service Center, labor will be provided free of charge but shipping to and from the service center is the responsibility of the customer.

### **The following items are excluded from this warranty:**

1. Tubes and tires
2. Brake pads
3. Chains
4. Accessories and electrical parts other than original equipment
5. Batteries (after the 1<sup>st</sup> 90 days)

Batteries are warranted to the original purchaser to be free from any manufacturing or material defect for a period of 90 days. The warranty for the battery does not extend beyond the 90<sup>th</sup> day.

The Limited Warranty constitutes the entire warranty with respect to the product and is in lieu of all others, expressed or implied, including any warranty or merchantability and/or warranty of fitness for a particular purpose. In no event is the manufacturer responsible for any consequential damages of any nature whatsoever.

### **Notice:**

The user assumes the risk of personal injuries, damages or failure of the bicycle or system and other losses if the bicycle is used in any competitive or similar events.

This Warranty gives you specific legal rights and you may have other rights, which vary from state to state.

### **For Technical or Warranty Assistance please contact:**

**Electrik Motion Service Center**  
**Toll Free (866) 353-2245**  
**Outside USA (845) 639-9046**  
**Website: [www.electrikmotion.com](http://www.electrikmotion.com)**