



Go Where There Are No Limits

DO GOOD WHILE YOU GO

# OWNER'S MANUAL

## ETR80

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## INTRODUCTION

Congratulations on the purchase of your new eTrike. This manual is designed to give you the information that you need for the safe operation and maintenance of your eTrike. Please read it thoroughly before riding your eTrike.

Your eTrike's serial or VIN number is stamped on the side of the aluminium frame in the front panel. Please record it below in the event that your eTrike is lost or stolen. You may also want to register your serial number with your local police department. Please retain your sales receipt as proof of purchase and keep with the information below.

MODEL NO: \_\_\_\_\_

SERIAL NO: \_\_\_\_\_

COLOR: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

## GENERAL WARNING

Riding an eTrike involves risk of injury and damage. By choosing to ride an eTrike, you assume the responsibility for that risk, so it is important to know and practice the rules of safe and responsible riding, and of proper use and maintenance. Proper use and maintenance of your eTrike reduces risk of injury.

This manual makes no representation about the safe use of the eTrike under all conditions. There are risks associated with the use of an eTrike which cannot be predicted or avoided, and which are the sole responsibility of the rider. As with all vehicles, practice defensive riding to ensure your safety and the safety of others.

Electric tricycles are relatively new to the vehicle landscape. Riders are at present generally required to obey current state and local bicycle laws and regulations where they ride, in addition to relevant motor vehicle and traffic laws. These laws and regulations vary by jurisdiction. It is the responsibility of the rider to be aware of, understand and obey these laws and regulations and any changes therein as they affect the riding of your eTrike. For information on your state and local laws and regulations, contact the appropriate state and local government offices directly or visit their official websites.

Laws in your jurisdiction may not require wearing a helmet. For your safety, eTrikeCo recommends wearing a helmet and protective eye wear when operating your eTrike. Proper helmets must meet standards set by the Consumer Product Safety Commission (CPSC).

Also, for your safety and the maximum life service of your eTrike, ensure you understand and adhere to the capacities for your eTrike model including load, climbing ability and maximum range.

eTrikeCo further recommends the following resources for helpful information on riding your eTrike under current bicycle laws. (Note: eTrikeCo does not endorse or claim the information provided by these resources to be legally accurate. Please refer to your official state and local laws and regulations to ensure compliance when riding your eTrike.):

The League of American Bicyclists – [www.bikeleague.org](http://www.bikeleague.org)

People For Bikes – [www.peopleforbikes.org](http://www.peopleforbikes.org)

American Disability Act - [www.ada.gov/opdmd.htm](http://www.ada.gov/opdmd.htm)

## ROUTINE INSPECTION BEFORE RIDIN



### CAUTION

To ensure optimal and safe performance of your eTrike, it is important to perform the following checks before every ride. Failure to do so could result in unsafe conditions, poor performance, and/or potential damage to your eTrike.

1. Battery - Check the battery life indicator and charge, if needed. Your eTrike can travel a max range of 50 miles on a full charge. To maximize use per trip, it is recommended you do not allow the battery capacity to decrease to less than 20%. When the battery is at 20% or lower, promptly charge the battery to full capacity.

FIRST RIDE: Charge the battery to full capacity before your first ride.

2. Front/rear brakes – Make sure both the front and rear hand brakes engage effectively to bring the eTrike to a complete stop.
3. Tires – Make sure all tires are at the recommended psi, and that there is no damage or extreme wear that compromises their integrity. NOTE: Improper tire inflation can lead to dangerous conditions including, but, not limited to abnormal tire wear, tire slippage and other compromises in vehicle performance.
4. Lights – Make sure the headlight, front/rear turn signals, taillights including braking lights, function properly.
5. Instrument display – Make sure the display for battery life, speedometer and odometer functions properly.
6. Horn – Make sure the horn sounds when pushed.
7. Parking break – Make sure the parking brake effectively locks and releases the rear brakes.
8. Mirrors – Make sure both mirrors are properly adjusted for effective peripheral viewing on either side.
9. Steering control/alignment – Make sure the steering column is stable and aligned, and turns properly to the left and right.
10. Storage compartments – Check that the latches and/or keyed locks on all storage compartments are secure.

# OPERATING YOUR ETRIKE



## CAUTION

Exercise due caution when operating your eTrike in inclement weather and where conditions on the road, sidewalk or other driving areas may be hazardous.

Although your eTrike is weather-resistant, prolonged exposure to moisture can potentially cause minor, temporary shut down in the vehicle's circuitry. This interruption will self-correct once the eTrike is allowed to sufficiently dry out.

AVOID taking turns sharply and at high speed. This can result in tipping the eTrike. BOTH HANDS must be used on the steering handles at all times. Sudden and abrupt turns, not using both hands or riding in uneven terrain while operating can cause the eTrike to become unstable and tip over.

NEVER drive your eTrike through standing water! Immersion of the motor, battery or other electrical components can cause short circuits and/or serious damage to those components.

## I. IGNITION SWITCH

- a. ON – To engage the electric motor and enable the eTrike to be driven, insert the key into the ignition and turn to the right or ON position. The key cannot be removed while it is in the ON position.
- b. OFF – To disengage the electric motor, turn the key to the left or OFF position. Power to the eTrike will be turned off and the key can then be removed.

## II. REVERSE BUTTON

Hold the REVERSE (R) button to allow the eTrike to drive in reverse when the throttle controller is engaged.

## III. SPEED SETTING SWITCH – 3 SETTINGS

Your eTrike can travel at a maximum speed of 28 MPH. The speed setting switch regulates your top speed to safely or ideally accommodate driving conditions or your speed preference.

- a. Setting 1 – eTrike is limited to a maximum speed of 9 MPH. It is recommended that you use this setting when moving at a slow speed is safer or ideal for the driving conditions, e.g. driving up or down inclines.
- b. Setting 2 – eTrike is limited to a maximum speed of 18 MPH. It is recommended that you use this setting when moving at a moderate speed is safer or ideal for the driving conditions, e.g. inclement weather.
- c. Setting 3 – eTrike can travel up to the maximum speed of 28 MPH. It is recommended that you use this setting when driving conditions are ideal.

# OPERATING YOUR ETRIKE

## IV. THROTTLE CONTROLLER – RIGHT HANDLE

In addition to the Drive/Neutral/Reverse Switch, the eTrike comes with a parking switch on the right handler. This switch disable the throttle.

The throttle controls the flow of electrical power to the motor which propels the eTrike.

- a. Grasp the throttle and roll it backwards/towards you to propel the eTrike.
- b. Release the throttle to stop the eTrike from continuing to propel.



### CAUTION

Release of the throttle does NOT engage the braking system. In order to fully stop the eTrike from moving, you must engage the brakes.

- c. In addition to the speed settings, the current speed of the eTrike within each speed setting can be regulated by adjusting the amount of roll of the throttle. Full roll to the throttle's stopping point allows the eTrike to travel at the maximum speed within each speed setting.

## V. TURNING

In the United States, bicyclists are required to use hand signals to alert surrounding traffic of their intention to turn or change lanes. Your eTrike is equipped with left and right turn signals which may be used in place of hand signals for this purpose. If you opt not to use the turn signals, you must instead use proper hand signals.

- a. No Signal – The turn signal switch should be in the center OFF position when not in use.
- b. Left Turn/Lane Change – Before making a left turn or lane change, move the turn signal switch to the left. The front and rear left turn lights will blink. Move the turn signal switch back to the OFF position once you have completed your turn or lane change.
- c. Right Turn/Lane Change – Before making a right turn or lane change, move the turn signal switch to the right. The front and rear right turn lights will blink. Move the turn signal switch back to the OFF position once you have completed your turn or lane change.



### CAUTION

Avoid taking turns sharply and at high speed. This can result in tipping the eTrike.

# OPERATING YOUR ETRIKE

## VI. SLOWING DOWN/BRAKING

In the United States, bicyclists are required to use a hand signal to alert surrounding traffic of their intention to slow down or stop. Your eTrike is equipped with rear braking lights which activate when you engage either hand brake, and which may be used in place of the hand signal. If the rear braking lights are not functional, you should have the eTrike serviced immediately for repair. The proper hand signal must be used if riding the eTrike without rear braking lights.

- a. Braking: Release the throttle and squeeze both the front and rear hand brakes with equal pressure until the eTrike comes to a full stop.
- b. Slow Down: Release the throttle and squeeze both the front and rear hand brakes with enough equal pressure to slow the eTrike down to the desired speed.

## VII. INSTRUMENT DISPLAY

- a. Speedometer – Displays your current speed.

Note: Travel speed is impacted by the speed setting you select. Refer to section

### III. Speed Setting Switch for more information.

- b. Battery Life Indicator – Displays the current battery life in bars and voltage.
- c. Trip Odometer – Displays the kilometer per trip/ignition.

## VIII. HEADLIGHT

The headlight can be used whenever low visibility in natural light compromises the safe operation of your eTrike.

- a. To turn the headlight on, move the switch on the right hand UP.
- b. To adjust the brightness, move the switch on the left hand UP and DOWN.
- c. To turn the headlight off, move the switch on the right hand DOWN.

## IX. PARKING/PARKING BRAKE

When your eTrike is not in use, engage the parking brake to insure no movement.

- a. Once the eTrike is brought to a full stop, turn the key in the ignition to the OFF position.
- b. Engage the parking brake to insure the brakes are locked:
  - Squeeze the left hand brake fully and hold in place.
  - Push down the pin past the bottom of the handle.
  - Swing the lock tab over the pin to secure the hand brake in the braking position
- c. Remove the key from the ignition.
- d. To disengage the parking brake:
  - Swing the lock tab away from the pin and hold.
  - Push the pin down to disengage it (pin will pop up). This will release the hand brake from the braking position.

## OPERATING YOUR ETRIKE

### **X. STORAGE**

The eTrike offers various onboard storage options including a rear basket and under seat compartment.

Use the provided mechanisms of latch or keyed lock to open, close and/or lock storage.

### **XI. HORN**

To sound the horn, push down on the horn button.

### **XII. KEY FOB CONTROLS**

The eTrike comes equipped with a key fob controller that allows you to engage the alarm system or briefly sound the alarm.

The alarm system locks the wheels and emits a series of loud beeps to alert you to disturbance of the eTrike.

# CHARGING YOUR ETRIKE/BATTERY INFORMATION



## CAUTION

Take reasonable precautions when charging and NEVER use the charger in a damp environment or in the presence of combustible items.

The charger may become hot during the charging process. To prevent a potential fire hazard, NEVER cover the charger while charging to allow for the dissipation of heat.

If you encounter any difficulty charging your eTrike or experience unusual occurrences in the charging process, immediately shut off the power and contact eTrikeco or authorized service vendor for service.

Avoid getting any liquid around the battery as this can potentially cause leakage, overheating smoke and possible explosion.

Your eTrike comes with a battery charger. DO NOT use other chargers to charge your eTrike. Use the battery life indicator on the eTrike instrument display to gauge the battery life. To maximize use per trip, do not allow the battery life to decrease to less than 20%. When the battery life is at 20% or lower, promptly charge the battery to full capacity.

**FIRST RIDE:** Charge the battery to full capacity before you take your first ride.

## I. CHARGING THE BATTERY

- a. Turn the ignition switch to the OFF position and remove the key. DO NOT charge the eTrike with the ignition in the ON position.
- b. Unplug the power wire from the battery.
- c. Plug the receptacle (female) end of the charger power cable into the eTrike battery.
- d. Plug the charger power cable into a standard household AC 110V outlet. NOTE: To protect the eTrike from potential damage as a result of power surges, it is strongly recommended that a surge protective device is used when plugging into a standard household AC 110V outlet. Damage resulting from a power surge is not covered by the warranty.

## II. CHARGER LIGHT INDICATORS

When the charger power cable is plugged in, the charger box light will be activated.

- a. A red light on the charger box indicates that the battery is not fully charged, but that there is a proper connection and the battery is receiving an electrical charge. Full charge can take up to 10 hours depending on the level of depletion in the battery.
- b. A solid green light on the charger box indicates you're your eTrike is fully charged. Promptly unplug the charger once the green light is displayed.

## III. BATTERY INFORMATION

The lithium ion battery that comes with your eTrike can last over 1000 charges or 2 to 3 years with average use and proper care. Do not use the battery for any other purpose than to power your eTrike. Do not attempt to disassemble or modify the battery.

# PREVENTATIVE MAINTENANCE

All vehicles experience some level of wear over the course of operation. In addition to performing the Routine Inspection listed in this manual, it is recommended that you perform preventative maintenance to further ensure the optimal performance and service life of your vehicle, and for your safety. If you are uncertain of how to perform any of the following preventative maintenance, seek professional service. Preventative maintenance should include the following:

## I. GENERAL MAINTENANCE

- a. Keep the motor differential clean to insure proper acceleration and dynamic performance.
- b. Make sure the throttle rotates freely.
- c. Make sure the hand brakes and parking brake are operational.
- d. Inspect the front and rear shock absorbers for damage and insure both are functioning properly.
- e. Make sure all tires are properly inflated to the recommended psi.
- f. Inspect all electrical components to make sure they are functioning properly.
- g. Make sure all fasteners and screws are tightly secured throughout the eTrike body.
- h. Keep your eTrike vehicle clean as a buildup of dirt and other substances can impair proper functioning.
- i. Make sure all lubrication points are well-oiled. Do not allow oil to leak onto the eTrike.
- j. Make sure the battery power cable and any attached wires within the battery compartment are secure.

## II. BRAKE INSPECTION AND ADJUSTMENT

It is essential that the rear brake system, which is engaged by squeezing the left brake handle, be properly adjusted to allow for adequate clearance while the eTrike is moving, but still allow for effective braking.

The disc brake system includes brake fluid/oil and is engaged by squeezing the left brake handle, where the brake fluid/oil reservoir is also located. It can be inspected and maintained as follows:

- a. Check the brake fluid/oil level in the reservoir. If the level falls below the bottom score line, add **ONLY** either DOT3 or DOT4 brake fluid/oil until it reaches the upper score line.

**NOTE:** A drop in the brake fluid/oil level indicates potential plate friction, brake disc wear or brake fluid leakage, and further inspection into these potential issues is needed.

- b. If the brake fluid/oil changes color, replace it with new braking fluid/oil.

## PREVENTATIVE MAINTENANCE

- c. Check the friction plate and brake disc wear condition. When any of the friction plates is worn down to the marking line of 3mm or 3.5mm, it must be replaced in pairs. The disc brake thickness and wear limits may differ slightly from eTrike model to model.
- d. If the left brake handle is spongy or has little resistance or effectiveness when squeezed, exhaust the left brake system as follows:
  - Remove the main cylinder cover and add brake fluid/oil until the fluid level reaches the upper score line. Close the cover to prevent debris from entering
  - Use a hose with one end connected to the caliper oil drain screw and the other end to an appropriate container.
  - Quickly squeeze and release the left hand brake a few times, and then hold the hand brake in place on the last squeeze.
  - While the hand brake is being held in place, loosen the air release screw by turning it counterclockwise one quarter inch. This will allow any foamed brake fluid/oil to be released through the hose and into the container.
  - Tighten the air release screw.
  - Repeat steps 3 through 5 until all of the foaming brake fluid/oil is emptied and the brake handle is no longer spongy and has proper resistance and effectiveness.
  - Tighten the drain screw and disconnect the drain pipe.
  - Add brake fluid/oil to the main cylinder until it reaches the upper score line.
  - Close the cover.

NOTE: Clean any spilled brake fluid/oil immediately as it can corrode painted surfaces, plastic, rubber parts, etc. Brake fluid/oil should always remain visible in the viewing window of the reservoir during the exhausting process. To insure this, add brake fluid/oil to the main cylinder at any time during the process.

### III. SHOCK ABSORBERS

- a. Rear shock absorbers – Inspect the rear shock absorbers after every 125 miles of use. Replace the shock absorbers immediately if looseness or cracks are found.
- b. Front shock absorbers – Inspect the front shock absorbers regularly. Replace the shock absorbers immediately if damage or failure is found. Note: The front fork should be kept clean to insure proper functioning of the front shock absorbers.

### IV. TIRES AND WHEELS

- a. Inspect the tires for cuts, embedded objects or other conditions/damage that can compromise the tires' performance.
- b. Inspect the tires for proper inflation. This inspection should always be performed while the tires are "cold" before driving the vehicle. Recommended tire pressure is 36 PSI.

## PREVENTATIVE MAINTENANCE

- c. Inspect the wheel rims for dents or distortions that can adversely affect the tires' inflation or performance.

### V. REAR AXLE

- a. Inspect the rear axle and differential every week for proper function. Gear oil in the axle should be changed approximately every 650 miles.
- b. Add gear oil, if needed for proper lubrication.
- c. For cold weather, use 80w/90 GL-3 gear oil. For warm weather, use 85w/90 GL-3 gear oil.

### VI. BATTERY

- a. Check the battery wiring and cable regularly to insure they are secure; any looseness can cause potential damage to the circuit virtual access.
- b. It is recommended that you do not discharge the battery to less than 20%. Once the battery has been discharged, it should be promptly charged.
- c. If the battery shows signs of warping or becomes very hot, stop use immediately.

### VII. STORAGE OF YOUR ETRIKE/CHARGER

- a. Store under cover that protects the eTrike from prolonged exposure to the elements; such exposure can cause mechanical failure and decrease the service life of your eTrike.
- b. When storing your eTrike for an extended period, charge the battery at least once per month. The recommended storage temperature is 60 degrees Fahrenheit and at 40% battery capacity.

NOTE: Storing your battery in temperatures below 32 degrees Fahrenheit or above 97 degrees Fahrenheit can limit your battery life.

- c. Charger Storage

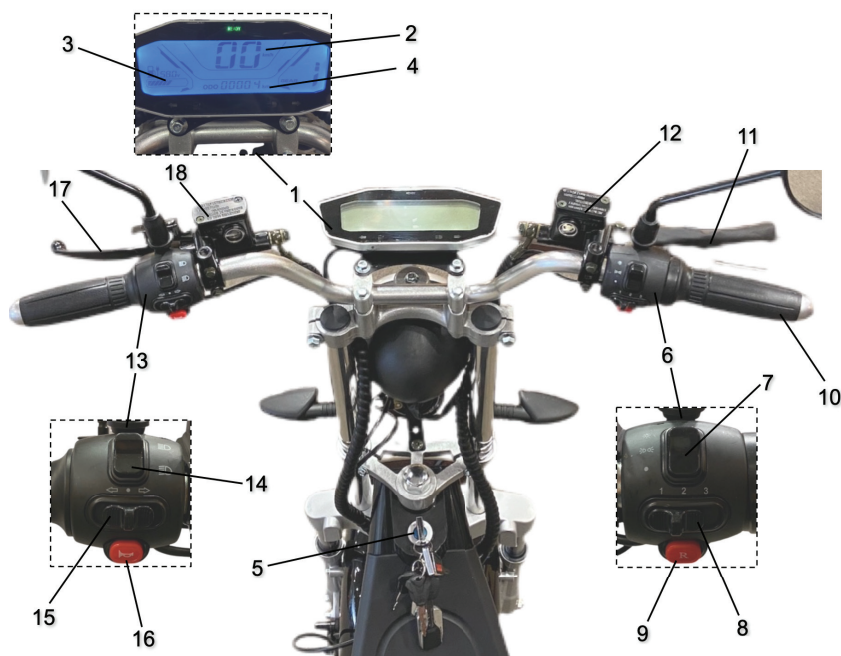
When not in use, store the charger in a dry, cool and clean place, taking care to insure the ventilation holes do not become clogged by dust or other debris.

## ETR80 – GENERAL OVERVIEW



No.	Part Name	No.	Part Name
1	Mirrors	10	Converter
2	Instrument Display	11	Controller
3	Headlight	12	Seat Cushions
4	Horn	13	Backrest
5	Front Turn Signals	14	Taillight/Brake Light
6	Front Fender	15	Rear Turn Signals
7	Front Wheel/Tire	16	Rear Basket
8	Battery	17	Rear Fender
9	Electric Motor	18	Rear Wheel/Tire

## ETR80 – OVERVIEW - STEERING/CONTROLS



No.	Part Name	No.	Part Name
1	Instrument Display	10	Throttle Controller
2	Speedometer	11	Right Hand Brake
3	Battery Life Indicator	12	Right Brake Fluid Reservoir
4	Odometer	13	Left Hand Controls
5	Ignition Switch	14	Bright Light Switch
6	Right Hand Controls	15	Turn Signals
7	Lights Switch	16	Horn
8	Speed Setting Switch	17	Left Hand Brake
9	Reverse Button	18	Left Brake Fluid Reservoir

## ETR80 – MAIN TECHNICAL PARAMETERS

### I. Main technical parameters of the scooter

Product size:	6.8 x 3.2 x 3.7 Feet
Wheelbase:	4.9 Feet
Weight:	210 Pounds
Tire specifications:	225/40-10 inch
Maximum load:	400 Pounds
Design top speed:	≤ 28 Miles Per Hour
Range:	40-50 Miles
Maximum torque:	95N/M
Maximum climbing:	≤ 20°
Braking performance (12.5 miles per hour):	Dry: ≤ 3 feet: Wet: ≤ 9 feet

### II. Main technical parameters of battery

Battery type:	18650 Lithium Ion
Capacity:	20Ah
Nominal voltage:	60V

### III. Main technical parameters of motor

Motor model:	Brushless DC Motor Hub
Rated power:	2000W

### IV. Main technical parameters of controller

Current limiting protection value:	25 ± 1A
Under-voltage protection value:	52 ± 0.5V

### V. Charger main parameters

The input voltage (ac):	100-240VAC	50/60HZ
The output voltage (dc):	67.2-2.0A	
Charging time:	Up to 8 Hours	

## WARRANTY

Your eTrike comes with a 1 year, non-transferable warranty from the date of purchase. If any component of the eTrike is defective or prevents safe and effective operation during the warranty period, please contact eTrikeCo immediately for service before operating the vehicle. Service and repair during the warranty period must be completed by eTrikeCo or an authorized party.

### FOR SERVICE OR TECHNICAL SUPPORT

**Email:** [support@etrikeco.com](mailto:support@etrikeco.com)

**Phone:** 1-844-874-5326 ext.702

The following actions render the warranty null and void:

- Damage caused when the operator fails to use and maintain the eTrike in full compliance with these instructions.
- Improper use of the eTrike, including but, not limited to collisions with other objects, overloading the eTrike, and chemical corrosions.
- Any and all damage caused by human factors.
- Damage as the result of unauthorized disassembly and/or modification of the eTrike or unregulated use.
- Damage caused by improper storage or accident, including as the result of a power surge while charging.

Does not include wearing parts like arm rests, seats, switches, brakes, rims, light bulbs and tire tread. Charger is not included in warranty.



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