



WWW.SCOOTERTEQ.COM

**500/48V Series
*Power Assisted
Electric Bicycles***

User Manual

**500C/48
500D/48
500R/48
500ZX/48**

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Read This Manual Before Using

Report Problems to Your Dealer Immediately!

It is the Owner's responsibility to carefully read all of the contents of this manual and to comply with all laws pertaining to the operation of bicycles and/or electric bicycles in your local jurisdiction. If you have a question, please consult the Laws and Regulations web page on www.Scooterteq.com or consult your local department of motor vehicles for clarification as regulations may vary among states and provinces. These are not motor vehicles, consequently laws relating to motor vehicle insurance do not apply. If you have a question regarding this please check with local authorities.



Scooterteq electric power assisted bicycles are compliant with US Consumer Product Safety Commission Regulations, 16 CFR 1512 and the Canada Motor Vehicle Safety Act, Para. 2(1).

Your Scooterteq Electric Bicycle is a finely made instrument. With proper care and maintenance and attention to bicycle safety rules, it will give you years of enjoyment. Please be considerate of others as you would wish them to be to you.

When you first ride your Scooterteq, Rule #1 is don't panic. Remember that it is designed to travel straight unless you want it turn using the handlebars. Test the brakes to get used to them. Applying the brakes will disengage the motor and the cruise control. When you resume, simply turn the hand grip back towards you to accelerate.



Table of Contents


1.	 Important Instructions	3
2.	Assembly Instructions	3
3.	 Safety Precautions	9
4.	Operation and Caution Notes	10
1)	Starting:	10
2)	Speed Control:	10
3)	Turning:	10
4)	Using Brakes:	10
5)	Parking:	11
6)	Charging the Power Supply:	11
4.	Vehicle inspection and maintenance	11
1)	Each time before riding the vehicle:	11
2)	Check frequently:	11
3)	Brake adjustment:	11
5.	Battery Care and Maintenance	11
6.	Main Technical Specifications	14
★	Periodic Maintenance Schedule (A=Adjust) (L=Lubricate) (C =Change)	15

1.  **Important Instructions**

- Safeguard your battery to insure continued high performance. It should be re-charged after each use.
- The normal full-cycle battery life if it is continuously discharged and recharged is approximately one year or a minimum of 300 cycles or recharges, after which the storage capacity of the battery will gradually decline. If it is not fully discharged and is recharged regularly the service life of the battery will be substantially prolonged. The batteries supplied with this vehicle are UL Listed Maintenance Free Sealed Lead Acid Batteries specifically designed for deep discharge performance.


Battery performance is influenced by temperature and is generally better in warm temperatures. When the temperature falls below 0°C the battery current may decrease by one third. Consequently the travel range on a full charge is reduced in cold environments however full capacity is restored when the temperature reaches 20°C.

The electric bicycle has been tested with a load of 220 lbs (100kg) at a temperature of 25°C, no wind and on a level surface without frequent braking and starting. Under these conditions the normal range using the supplied, new 48V/14Ah battery pack is over 30 miles (50km) on a full charge.

- Frequent braking and starting, riding uphill, traveling against a stiff wind, starting from a standstill and traveling on a muddy or rugged road and carrying one or more persons or heavy goods will consume extra battery power, shortening the travel range. The following procedures can help prolong the range of the bicycle under varying conditions:
 - Ride the bicycle manually before switching on the power supply to reduce current draw at startup.
 - Brake and come to a full stop only when necessary.
 - Use the pedals when going up a steep against a stiff wind.
 - When the instrument voltage indicator glows a low voltage condition is indicated. Switch to manual power and recharge the battery in order to avoid shortening the battery life. If the bicycle is being stored, remove the battery, charge it fully and recharge every 2 months.
-  **Always turn off the motor and remove the key from the ignition before and during charging to prevent serious damage to the controller and batteries.**

★ The bicycle can be used in the rain however **it must not be submerged in water or puddles**. The controller, motor and other electrical devices may be short circuited if they are immersed in water causing the electrical cables to overheat damaging the electrical circuitry.

- The rated load capacity of the bicycle is 220 lbs (100kg). Serious overload can damage the safety and performance of the bicycle including decreased travel range.

 **Do not use chargers or other components other than those approved for use by this company. The company is not responsible for damage caused by the use of products not specifically designed and tested for use with this vehicle. This vehicle is supplied with a cULus Listed Smart Charger with cooling circuitry to prevent overcharging and potential damage to the batteries and controller.**

2. **Assembly Instructions**

- a. Parts Assembly: 1) front wheel, disk brake, 2) handlebars (pre-wired and cabled), 3) rear cargo box, 4) front windshield faring, 5) pedals, 6) power supply unit.
- b. Remove the Scooterteq electric bicycle from the shipping box by opening the top of the box and removing the front wheel, then cut the front out of the box and roll the bike out by lifting carefully on the front cowling and rolling the bike forward on its rear wheel. Once the bike is clear of the box have a helper put the kickstand down and rest the bike on the kickstand. Carefully slide the styrofoam block protecting the front forks of the bike down from and wedge it under the front frame of the bike ahead of the kickstand.

The Power Supply Unit is shipped separately in order to reduce the weight of the main shipping carton for ease of handling. Tools, pedal sets, mirror sets, and charger are shipped in the underseat storage compartment or in the cargo box. Two sets of keys are provided for the ignition & underseat storage compartment and for the cargo box. The ignitions keys will generally be in the ignition or attached to the handlebars.

- c. Install the front wheel using parts provided as follows: From the wheel outward you need 1/2 " spacer, flat washer, fork bracket, retainer washer, then nut. This is the same on both sides of the wheel. Be sure retainer washer fits securely into the hole on the fork bracket, and then tighten the axle nuts securely. Do not overtighten the axle nuts.

WHEEL ASSEMBLY

1.



2.



3.



4.



5.



6.



DISC BRAKE ASSEMBLY

1.



2.



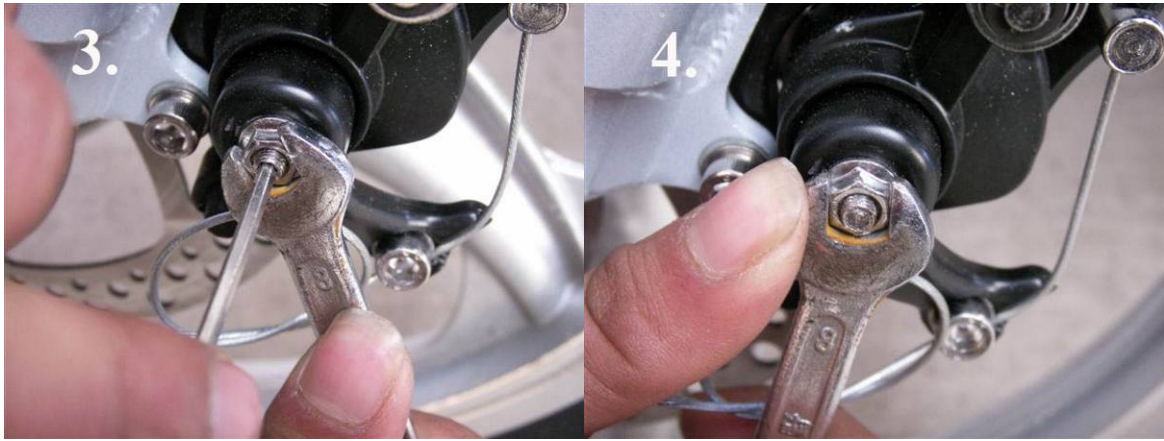
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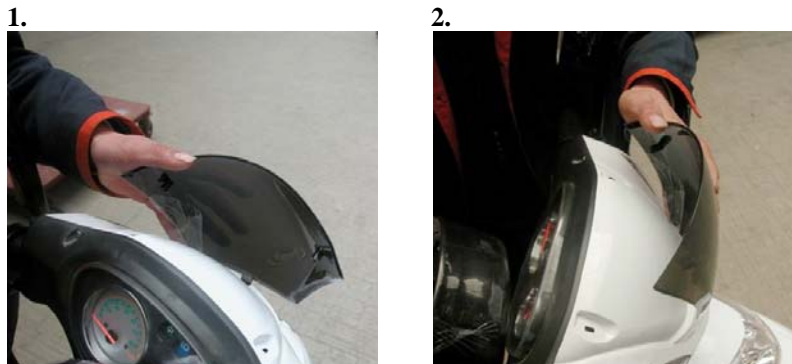
DISK BRAKE ROCKER ARM ADJUSTMENT

1. Loosen the hex nut on the disc brake rocker arm (Fig. 1)
2. Then adjust the inner Allen nut using the Allen wrench contained in the tool kit in a clockwise direction. (Fig. 2)
3. Push the arm inward, reducing the inner/outer distance, then tighten the Allen nut. (Fig. 3)
4. Tighten the outer hex nut. (Fig. 4) Loop the loose end of the brake cable as shown above when finished.





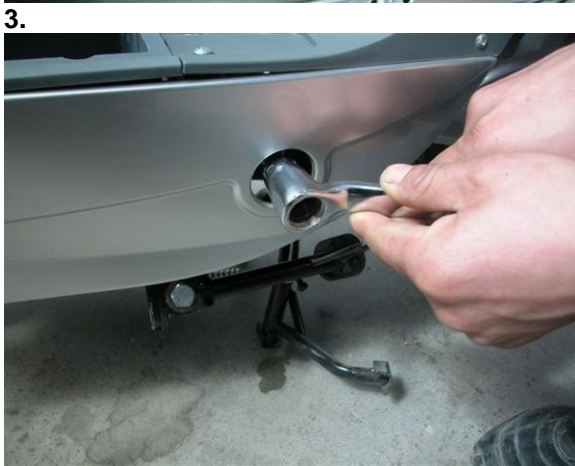
- d. HANDLEBAR ASSEMBLY – Install the handlebar assembly by attaching it to the top of the front fork. If necessary, remove the plastic cowling covering front of handlebars by removing the two screws on the back side of handlebars and gently unclipping the two plastic pieces covering the handlebars. Hold front wheel straight while turning the handlebars until handlebars are at 90 degree angle to the front wheel then attach and tighten the nut on the top of the stem securely with the #14 metric open end wrench provided. Apply a dab of NYLOCK or a similar adhesive to prevent loosening of the nut while in use. Replace plastic cowling over handlebars and refasten with two screws. **It is not intended that end users install the handlebar assembly. This process must be carried out or under direct supervision of a dealer.**
- e. Install the windshield fairing as shown below with the screws provided.



- f. Mount the rear trunk carrier on the back of the bike using the four bolts and nuts provided. Bolts go through the bottom of the trunk from the top with the trunk in the open position. The nuts thread on from the underside of the carrier bracket. Tighten securely.



- g. Remove the pedals from the underseat storage area. The pedal arms are marked on the inside top with a L for left side and an R for right side pedal arm. On the threaded end of the pedals there will be one pedal marked with a stamp, the other pedal will not be marked. The pedal marked with the stamp threads on to the left pedal arm. The pedal without the stamp threads onto the right pedal arm. Tighten pedals securely being careful not to cross-thread. Attach pedals to pedal shaft on bike with the hole in the pedal arm lined up with the ball in the pedal arm shaft. Place a 6mm metric washer and lock washer on the shaft. Using a 6mm socket wrench with extension, tighten the 6mm metric hex nut securely in place.



7.



8.



9.



10.

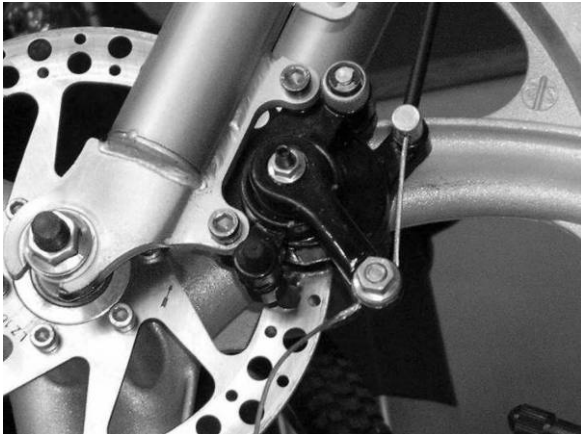


- h. Remove the mirror set packed in the cargo box. Mirrors attach to left and right brake handles by removing the hex bolt with Allen key provided. Nuts on mirrors should be moved all the way to the top of the threads on the mirror, then thread the mirror into the brake handles where the bolt was removed. Adjust the mirror as desired and tighten the nut on mirror down onto the brake handle to secure.



- i. Front Disc Brakes are set up by adjusting brake cable at # 10 metric nut on front left side of the bike. Loosen the nut and slide the cable through the bolt, while holding brake calipers together against the disc rotor. Tighten nut securely while cable is in this position leaving clearance of 1/8" between the disc rotor and brake pad. Perform further adjustments as required after testing.

Front Disc Brake Cable Adjustment



Rear Brake Cable Adjustment



- j. The Rear Drum Brake is set up by adjusting the cable at the brake lever on the bottom of the rear band brake. Loosen the #10 metric nut until the cable will slide through the bolt. Pull the brake lever forward while pulling the cable back through the bolt. Tighten the nut securely in this position. Rear brake adjusted properly will lock up the back wheel while riding. Sometimes due to cable stretch rear brake adjustment will be required a second time after the brake handle has been pumped a number of times to remove any slack.

⚠ IT IS ADVISABLE TO INSPECT ALL NUTS AND BOLTS FOR ANY THAT MAY HAVE COME LOOSE DURING SHIPMENT. IF ANY LOOSE NUTS OR BOLTS ARE DETECTED IT IS ADVISABLE TO APPLY A DAB OF NYLOCK OR A SIMILAR ADHESIVE TO EITHER THE NUT OR THE BOLT BEFORE ATTACHING. ANY SUSPECTED PROBLEMS OR FAULTS SHOULD BE BROUGHT TO THE ATTENTION OF YOUR DEALER IMMEDIATELY FOR RESOLUTION!

3. **⚠** Safety Precautions

- ◆ **Before riding inspect the bicycle carefully to avoid accidents or damage.**
 - Pay careful attention to the following in order to avoid injury:
 - Do not drive too close to other vehicles.
 - Obey all traffic laws relevant to the operation of bicycles and motor-assisted bicycles.
 - Use the turn signals at all times when making turns.
 - Use extreme caution at all entrances and intersections and while leaving a stop.
 - Keep both hands on the handlebars at all times.
 - Do not carry passengers aboard the vehicle.
 - Do not brake suddenly in the rain or on slippery or wet surfaces.
 - Do not hang objects under the handlebars.
- ◆ **Cargo:**
 - Be certain that all cargo is securely fastened.
 - Do not carry cargo in excess of 15kg.
 - When cleaning the bicycle, do not use a direct stream of water. Clean with a cloth to avoid short circuiting electrical components. Your electric bicycle features a scratchproof hard gloss finish. It does not need to be waxed. Cleaning with a mild detergent and buffing will restore it to its original luster.
- ◆ **Clothing:**
 - Wear a safety helmet, glasses, gloves and sturdy footwear at all times.
 - Wear bright clothing.
 - Do not wear loose clothing that can impair visibility or become caught on the bicycle.

4. Operation and Caution Notes

1) Starting:

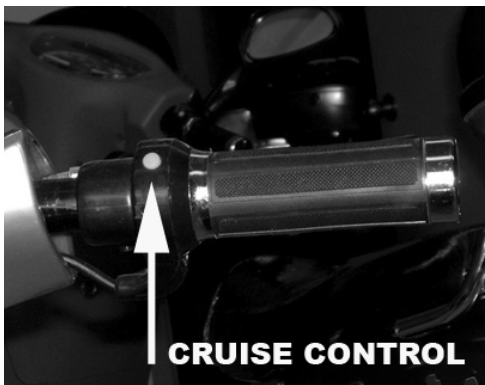
- a. Raise the kickstand.
- b. While seated on the bicycle insert the ignition key and turn it to the ON position.
- c. Slowly turn the throttle handle inward to start the vehicle.
- d. Attention: After the starter has been activated, if the rider is not seated firmly on the vehicle it can cause it to lurch forward out of control. DO NOT turn the starter switch until firmly seated with the rear wheel in contact with the ground!
- e. If the unit is equipped with the extended range power pack engage the pack by switch selection of the backup batteries.

2) Speed Control:

- a. Turn the throttle handle counterclockwise to accelerate, clockwise to slow down.

- b.  **TURN THE HANDLE SLOWLY!**

- c. When the desired travel speed is attained you may depress the cruise control button to maintain constant speed until the brakes are applied. After braking, repeat this process to reset the cruise control on resumption of travel. Depressing cruise control button will disengage the cruise control.



3) Turning:

- a. Move the turn signal handle to the right or left. The turning indicator will light.
- b. After completing the turn return the turn signal handle to the OFF position.

Lights, Horn and Turn Signal Controls



4) Using Brakes:

- a. When the brake handle is activated the vehicle will come to an immediate stop.
- b. Important: When the brake handle is activated power is immediately cut off to the motor. For safety purposes the throttle grip should be restored to the start position.

5) Parking:

- a. After vehicle use, turn off the power supply by moving the key to the OFF position.
- b. Lower the kickstand and insure that the vehicle is firmly in place.
- c. Insuring that the power has been turned off, remove the key.

6) Charging the Power Supply:

- a. Insure that the power is off. For first use open the seat cushion and remove the charger and cable. Attach the charger connector to the charger input plug located below the seat facing toward the handlebars and the AC connector to a 110-120V AC power source. Any household current receptacle may be used.
- b. After the battery is fully charged replace the charger and cable in the storage box beneath the seat or in the rear trunk box for future use.
- c. If the unit is equipped with the optional extended range power pack this will be charged simultaneously with the main power supply.

4. Vehicle inspection and maintenance

Routine inspection and maintenance:

- 1) Each time before riding the vehicle:
 - a. Inspect the operation of the turn signal indicators, brake indicators, and horn.
 - b. Insure that the turning mechanisms are operating properly.
 - c. Insure that all indicator lamps are functioning properly.
- 2) Check frequently:
 - a. Insure that all mechanical parts are firmly secured. Tighten any parts or bolts that have come loose.
 - b. Insure that all electrical cables are firmly attached or have not come loose. Tighten any loose connectors.
 - c. Check that the tires have not become worn or damaged and that the tread is not less than 2mm deep.
- 3) Brake adjustment:
 - a. Free travel of the front and rear brake handles should be 10~20mm.
 - b. Brake
 - c. Testing and Adjustment to Performance Requirements
After adjustment tighten all screws securely;
 - d. While the brake handles are in the free or open position the front and rear wheels should rotate easily.
- 4) Front disc brake maintenance (models 500C, 500D, 500R, 500ZX)
 - a. The degree of wear depends on how your electric bicycle is used and the road surface conditions. (Generally the brake pads wear more quickly on wet and muddy roads.) Check the brake disc each time that regular maintenance is performed.
 - b. Examine the brake disc pads. If either of the two disc pads shows signs of visible wear replace both pads. Please go to a qualified Scooterteq service location for this service.

5. Battery Care and Maintenance

1) Battery Type

Valve regulated sealed lead acid battery with special purpose storage cell designed for manpower operated motor assisted vehicles; high capacity, high energy, low self-discharge, long service life and superior low-temperature performance.

2) Installing the Power Supply

The battery electrolyte is charged during production and can be immediately mounted for use on the vehicle however it is recommended that the user insure that it is fully charged by attaching the charger to the charging input of the vehicle and a 110-120VAC power source for 6-8 hours. The Power Supply Unit is shipped separately from the electric bicycle to reduce weight for handling purposes. The key which opens the PSU compartment is the same as that used for the ignition. Two keys are supplied with each bicycle. Lift the foot carpet to open the

PSU compartment, secure the electric connections supplied and lock the compartment to insure that the PSU will not be dislodged if the vehicle is overturned for any reason.

Power Supply Unit (TOP)



Power Supply Unit (SIDE)



Following the illustrations shown on the next page, insert the power supply unit into the compartment. Insert the plug and lower it in place. Always lock the PSU to prevent it falling out if the vehicle is overturned for any reason.

1.



2.



3.



4.



Charging Stages

The battery undergoes three stages during the charging process.

- a. The first stage is a constant current, limited voltage charge. The charging current is 0.1-0.15A, requiring approximately 6 hours (power input sensing).
- b. The second stage is the constant voltage charge, the voltage is 44.4V, when the electric current gradually falls to 0.5A for approximately 1-2 hour.
- c. The third stage is the trickling charge, the electric current falls from .3A to 0A concluding the charging operation.

cULus Listed 48V Smart Charger

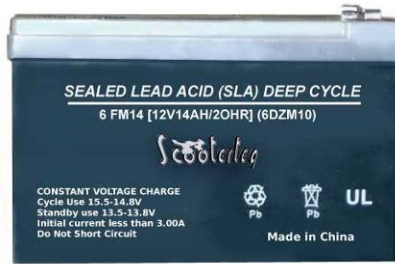


Battery Discharge

While the vehicle is operated under electric power while discharging the batteries, to avoid over discharge, each storage cell (12V) will not discharge below 10.5V.

★ Caution

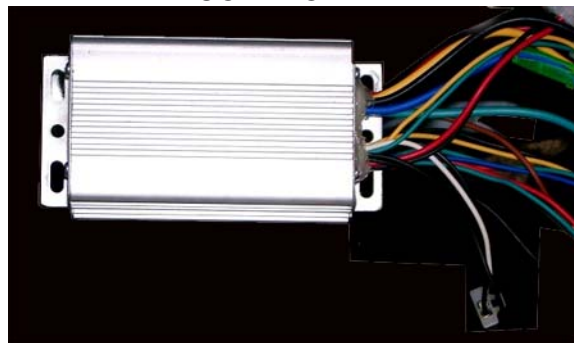
- a. In order to avoid damaging the storage cells, do not overcharge, undercharge or allow the batteries to become overly discharged. Always use the Smart Charger supplied with your electric bicycle. It will cease charging when the power system has been fully charged.
- b. The battery charger must have constant voltage regulation, otherwise it may damage the storage cells. The charger supplied with this vehicle uses voltage regulation.
- c. When the vehicle is not in use it is necessary to maintain a sufficient charge in the batteries to prevent breakdown of the electrolyte which may damage the storage cells and lower performance. The batteries should be brought to a full charge once a month.
- d. Do not permit short circuiting of the battery poles. This may damage the batteries or cause a fire.
- e. Insure that all battery connections are securely fastened to avoid potential fire and reduction of travel.
- f. Operating ambient temperature: -20 °C -50 °C. Do not expose the storage batteries to flame or a high heat source, do not dispose of the batteries in a fire and do not expose the batteries to prolonged exposure to bright sunlight.
- g. If the battery casing is broken or ruptured the battery must be immediately replaced.
- h. The electrolyte is an acid solution. Do not rupture the outer shell of the battery or spill it on skin, clothes or expose to the eyes. If exposed to the electrolyte immediately wash thoroughly with clean water.



★  **Controller**

This section is for component recognition only. **DO NOT** attempt to open the controller casing, or add or remove any connections. This may result in serious damage to the controller and make your electric bicycle inoperable. Any service to the controller must be done by an experienced technician with the aid of technical schematic diagrams.

CONTROLLER



6. Main Technical Specifications

- Vehicle Gross Weight: 125 lbs (52-57kg)
- Rated Load: 220 lbs (100kg)
- Overall Dimensions:

Model	Length IN/MM	Wide IN/MM	Height IN/MM	Seat Height IN/MM
500D	65/1650	25/640	43/1100	29/730
500C	69/1750	25/640	43/1100	29/750
500R	65/1660	24/600	43/1100	28/700
500ZX	70/1780	26/650	45/1150	31/780

- Maximum Speed: 20 mph (32km/h)
- Travel Range on Full Charge: 30 miles (50km)
- Automatic Cruise Control – User selectable 5-20 mph (8-32km/hr)
- Slope Climbing Capacity: 30 degrees with pedal assistance
- Rated Power: 500W
- Rated Average Speed: >13 mph (21km/h) for max. travel range
- Rated Voltage: 48V
- Charging Time: 4-8 hrs
- Voltage: 48V
- Motor Type: 48V Brushless DC
- Battery Type: 12V/14Ah x 4 Deep Cycle Sealed Lead Acid Battery Pack
- Power Supply Weight: 42 lbs (19kg)
- On Board Charging Via External Socket
- Specifications are subject to change

- Compliance: US CPSC, CMVSA, cULus

★ Periodic Maintenance Schedule (A=Adjust) (L=Lubricate) (C =Change)

For your own safety and to prolong the life and enjoyment of your vehicle please observe the following maintenance schedule (estimated usage shown).

Subject	Estimated Usage (KM)						
	200	1000	3000	5000	8000	10000	12000
Motor Bearings				C			C
Controller				A			A
Charger				A			
Front/Rear Brake Disks/Shoes				A			A
Wheel Bearings		A		A			A
Front/RR Shocks				A			A
Front Fork Bearings				A			A
Tires				A			A
Main Side Supports				A			A
Lubricate Chassis		L		L		L	L
All Screws, Bolts and Nuts	A	A	A	A	A	A	A



Vehicle Lubrication – It is important that your electric bicycle be properly lubricated at all times to reduce wear on mechanical parts. Before initial use apply a light lubricant such as WD40 to the chain by spraying it on the chain and turning the pedal. Do the same with the wheels and the front disc assembly taking care to not let the lubricant spill onto the disc brake pads. Repeat periodically to keep your ebike in good working order.

Addendum 1: Anti-theft Alarm System Features

The Scooterteq **Scootalert** Anti-Theft Alarm System is purpose-designed to help prevent tampering or theft of your e-bike. It is fully integrated factory-installed system that will not only warn you if someone tampers with your vehicle, it will shut down the entire electrical system preventing all operation until it is released. Programmable functions permit you to adjust the alarm system to fit your surroundings.

Simply carry it with you with your key attached and control the system from anywhere within 70 meters. Operation is simple using the digital display on the remote control.

Depressing the activation key causes the loudspeaker to emit a "prompt" signal, letting you know that it system is armed.

While in the armed state, if vibration is detected the alarm will trigger immediately, the loudspeaker will sound intermittently for 5 seconds, and the motor is disabled. If vibration continues after 15 seconds the loudspeaker will again emit a long signal for 15 seconds, the motor is disabled until reactivated by the owner.

In the security alert state, attempting to use force to start the vehicle will cause the loudspeaker to emit a continual loud alert, simultaneously disabling the electrical system.

Anti-theft/Anti-Bikejacking - While in the alarmed state depressing the alarm key will cause the loudspeaker to emit a loud continuous sound for 30 seconds and cause the motor and ignition to lock.

Remote Kill Switch - While the vehicle is in motion depressing the alarm key immediately kills power to the motor.

Suspending or releasing the alarm is simple using the remote. To release temporarily while the alarm is sounding,

depress and hold the alarm key to temporarily halt the alarm signal while maintaining the system in the armed state. To release the vehicle from the alarmed state, depress the alarm key, the loudspeaker will sound twice releasing the vehicle from the alarmed position.

The shock and vibration sensitivity is programmable using the remote. While in the alarm system release state, depressing the loudspeaker key for 5 seconds will enter the sensitivity adjustment mode. Select 0 for high sensitivity, 2 for low sensitivity or 3 to circulate. After confirmation the selection is activated.

Can't find where you put your e-bike? In either the armed or unarmed state continuously depressing the alarm key will cause the loudspeaker to emit a continuous sound until the key is released.

Remote Start - Have your e-bike ready to go before you get on. In either the armed or unarmed state depressing the two keys located below the electrical system lock "off" position will start the vehicle immediately.

Operation

1. Acoustical/Optical Security

Depressing the activation key causes the loudspeaker to emit a "prompt" signal. After 3 seconds the alarm apparatus automatically enters the armed state.

2. Motion Alarm

While in the alarm position, when vibration is detected the alarm will trigger for the first time, the loudspeaker sounds intermittently for 5 seconds, and the motor is unable to start; the alarm will again sound after 15 seconds if vibration is detected and loudspeaker will again emit a long signal for 15 seconds, the motor is disabled.

3. Emergency Alarm

In the security alert state, attempting to use force to start the vehicle will cause the loudspeaker to emit a continual loud alert, simultaneously disabling the electrical system.

4. Suspending the Alarm

While the alarm is sounding, depressing the alarm key will temporarily halt the alarm signal while maintaining the system in the armed state.

5. Releasing the Alarm

While in the alarmed state, depress the alarm key, the loudspeaker will sound twice releasing the vehicle from the alarmed position.

6. Anti-theft/Anti Bike-jacking

While in the alarmed state depressing the alarm key will cause the loudspeaker to emit a loud continuous sound for 30 seconds and cause the motor and ignition to lock.

7. Remote Kill Switch

While the vehicle is in motion depressing the alarm key immediately kills power to the motor.

8 . Vehicle Locator

In either the armed or unarmed state, continuously depressing the alarm key will cause the loudspeaker to emit a continuous sound until the key is released.

9. Remote Starting

In either the armed or unarmed state, depressing the two keys located below the electrical system lock "off" position will start the vehicle immediately.

10. Remote Control Shock Sensitivity Adjustment

While in the alarm system release state, depressing the loudspeaker key for 5 seconds will enter the sensitivity adjustment mode. Select 0 for high sensitivity, center (two) for low sensitivity or (three) to circulate. After confirmation the selection is activated.

Specification

1. System working voltage: 36V-48V
2. System Idle Current: <7MA
Discharge Current: <60MA
Controller: Emission Current: <4MA
3. Transmission Frequency: 315MHZ +-75KHZ
4. Remote control service range: 230 feet/70 meters (open area)
5. Alarm Sound Pressure Level: >100dB

Addendum 2- US Code Relevant to Low Speed Electric Bicycles

Your Scooterteq Electric Bicycle bears a label which identifies it as compliant with the Federal law as stated in (b) below, the Federal law supersedes state and local laws to the extent that local authorities may only impose additional regulations related to safety and not to operation of electric bicycles and only if they have been granted a limited exemption for such purposes as stated in (d) below. We encourage you to keep a copy of these Federal regulations below at all times while operating your electric bicycle. Your electric bicycle bears a label clearly stating compliance with the applicable regulations. For Canadian owners the vehicle bears a label clearly stating that it is in compliance with the relevant Canadian Motor Vehicle Act regulations.

TITLE 15 > CHAPTER 47 > § 2085

§ 2085. Low-speed electric bicycles

Release date: 2005-08-01

(a) Construction

Notwithstanding any other provision of law, low-speed electric bicycles are consumer products within the meaning of section 2052 (a)(1) of this title and shall be subject to the Commission regulations published at section 1500.18(a)(12) and part 1512 of title 16, Code of Federal Regulations.

(b) Definition

For the purpose of this section, the term "low-speed electric bicycle" means a two- or three-wheeled vehicle with fully operable pedals and an electric motor of less than 750 watts (1 h.p.), whose maximum speed on a paved level surface, when powered solely by such a motor while ridden by an operator who weighs 170 pounds, is less than 20 mph.

(c) Promulgation of requirements

To further protect the safety of consumers who ride low-speed electric bicycles, the Commission may promulgate new or amended requirements applicable to such vehicles as necessary and appropriate.

(d) Preemption

This section shall supersede any State law or requirement with respect to low-speed electric bicycles to the extent that such State law or requirement is more stringent than the Federal law or requirements referred to in subsection (a) of this section.