

TORQI



Owner's Manual

MODEL: Torqi-ABT-E250

Read and understand this entire manual before riding!

WARNING: APPROPRIATE PROTECTIVE EQUIPMENT TO BE WORN AT ALL TIMES, CHILDREN MUST BE SUPERVISED BY AN ADULT AT ALL TIMES, IT IS ALWAYS AT THE PARENTS DISCRETION AS TO THE AGE OF THE RIDER, OFF ROAD USE ONLY, AVOID PUBLIC ROADS, PAVEMENT AND PATHWAYS, DESIGNED FOR USE ON PRIVATE PROPERTY.

Note: Manual illustrations are for demonstration purposes only. Illustrations may not reflect exact appearance of actual product. Specification subject to change without notice.

Warning:

The use of this product can be dangerous and could potentially cause serious injury. Children must be always supervised when using this bike. Anyone riding this device must wear a helmet, knee pads, elbow pads and gloves. Keep away from steep hills, other vehicles, roads, bodies of water, animals, pedestrians and be vigilant of any other potential hazards before use. Please read all assembly and safety instructions before use. By purchasing this product, you accept responsibility of the devices proper use, maintenance, supervision of rider and all risks associated with its use. The retailer and manufacturer are not responsible for any damage, injury or death resulting from the use of this product. It is always at the parent or person supervising as to the age of the rider.



Importers address:

Torqi
Unit 2 Langshot stud farm
Gracious Pond Road
Chobham
Surrey
GU248HJ
UK

Essential Technical Parameters

1. Vehicle

- Bike net weight: 23kg
- Bike gross weight: 26kg
- Maximum load (weight):50kg;
- Top Speed: 10mph

2. Motor

- Type: DC, with brush;
- Rated continuous output power: P=250W;
- Max RPM: $2700 \pm 7.5\%$ rpm;
- Rated voltage: 24V;
- Rated output torque: 1.21 (N.m)

3. Controls

- Rated input voltage: 24V;
- Input voltage range: 20~28V;
- Input current without load: $\leq 115\text{MA}$;
- Max. output current of the motor: $30 \pm 1\text{A}$;
- Under-voltage protection (Vqn) : $20 \pm 0.5\text{V}$;
- Max. conduction value: $\leq 95\%$ (with the output current of the control $< 2\text{A}$);
- Starting voltage of handlebars: $\geq 1.4\text{V}$;
- Protection voltage of the handlebars: $\leq 1.8\text{V}$;

4. Charger

- Input: 100-240VAC - 50/60HZ 2.0A MAX
- Output: DC 28.8V 3.0A

5. Batteries

- Size 152*65*94 mm;
- Type: Lead Acid Battery, 2x12V, 9AH.

Assembly

Your Torqi arrives almost completely assembled, making it easy to start riding. The only assembly required is to attach the handlebars. All cables and controls already hooked up to the bike, so attaching the handlebars is easy:

1. Place the handlebars into position in the lower clamps. Take care to get the handlebars centered side so side, and set in your desired upright position.

CAUTION Be careful not to lean the handlebars too far forward or backward as this will affect the bike's handling and comfort of the ride.

2. Place the top parts of the clamps in position over the handlebars and tighten the four bolts securely. **DO NOT OVERTIGHTEN.**



Charging the battery

First, be sure that the toggle switch in front of the seat is switched to the off position.

Locate the battery charging port which is on the right side of the bike and flip up the small round black protective cap. Under this cap you will see a round connector with three small contact posts. Note that there is a small locating spline at the bottom of the connector.

On the round end of the battery charger cord, you will see a plug that has three small holes a notch which fits into the connector on the bike.

1. Plug the charger into a wall outlet. If the lights on the charger do not light up. Check the power to the outlet. If necessary, try a different outlet.
2. Turn the bikes power switch OFF before charging. Plug the charger into the charging port on your Torqi.
3. The light on the charger should be red. You need to leave it on charge until this light goes green. The green light indicates that it is fully charged. Once the light goes green remove the charger from the bike and remove the plug from the mains supply. It should take around 4-6 hours to charge.

Warning: Do not leave the bike on charge overnight or unattended. Do not leave the charger plugged into the mains when the bike is not charging.

Please note: It is important to keep your Torqi batteries charged regularly even if you do not plan to use the bike. Do not leave the bike un-charged for more than 2 months. It could result in poor performance from your batteries.

It is important to charge the battery fully before using it for the first time.

Charger safety information

Model: XVE-2880300

Input: 100-240VAC - 50/60HZ 2.0A MAX

Output: DC 28.8V 3.0A

- Keep the charger dry at all time.
- For your own safety never use this device with wet or damp hands due to the possibility of electrocution.
- Only use a soft clean dry cloth to clean the surface of this plug. Do not use water or chemicals to clean.
- Do not drop or knock the charger, this may result in damage. Rough handling can break the internal circuit boards and mechanics.
- Keep away from dust, extreme humidity and direct sunlight.
- Keep away from fire.
- Never attempt to dismantle parts of this device.
- Never leave chargers unattended for long periods of time.
- Dispose of this product safely!
- All products are tested comprehensively to ensure quality. If heat discoloration or transformation are found during usage or storage stop use immediately and contact dealer.
- Children should be supervised to ensure that they do not play with this product.
- Only use the genuine Torqi charger that has been supplied with the bike! Never use a different charger! If you need a replacement charger please contact Torqi ltd or an authorized dealer.

Importers: Torqi, Unit 2 Langshot Stud Farm, Gracious Pond Road, Chobham, Surrey, GU24 8HJ, UK Tel: 01276 485 800

Charger manufacturer: Jin Xin Yu Power Supply Co Ltd, 3-4f, No 36, Yuanxiniu, Tongle, Longgang, Shenzhen, 518116, P.R China

OPERATING CONTROLS

To operate your Torqi you need to be able to operate the throttle, brake and other controls without stopping to look at them. Please study the image below carefully to become familiar with the function and the location each control.



When operating your Torqi there are some key operating controls and components that allow you to operate your bike.

Their location and operation information is shown below.

1.On/Off Switch 2.Throttle 3.Brake

ON/OFF SWITCH

The ON/OFF switch is conveniently located just ahead of the rider and is equipped with a flip-up cover. The cover, when closed also shuts off the On/Off switch. The switch should be left in the off position whenever the bike is not being used to protect the charge that is in the battery. You will know that the switch is on when the charge indicator lights on the throttle are lit.



THROTTLE

The throttle allows the rider to send power to the motor and make the bike move forward. The power and speed is variable due to the twist-grip throttle mechanism.



DANGER When giving the throttle power, twist it slowly at first to avoid sudden acceleration

BRAKE

Your Torqi is equipped with a rear disc brake. The brake lever is hand operated and is on the left hand grip mounted to the handlebars. Squeeze the brake carefully with increasing force to stop the bike.



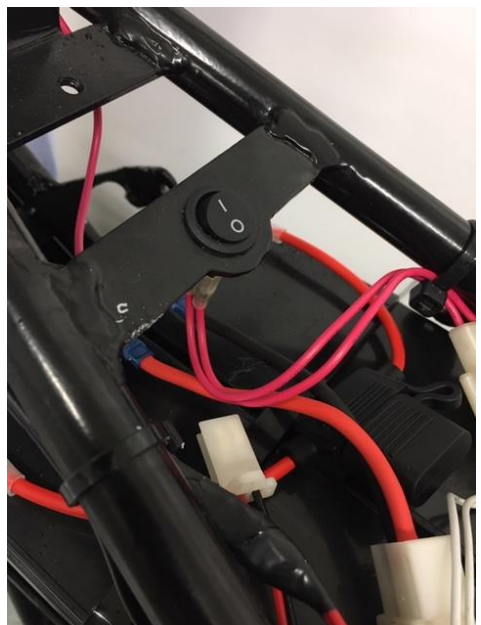
DANGER Applying the brakes too quickly can cause the bike to skid and you may lose control.

2-Stage Safety Speed Limiter

The Torqi is equipped with a special switch that reduces the speed to accommodate younger, smaller riders. The switch is located under the seat in a hard to reach spot to limit access by inquisitive smaller children.

NOTE: The 2-stage safety speed limiter switch should be set at the factory to the slower speed setting. But it is important to confirm this before riding the bike. To switch from slow speed to regular speed, or vice-versa, follow the steps below.

1. Remove the seat using the quick release tab located at the back of the seat. Flick the switch from "I" (slow speed) to "O" (fast speed).
2. Your Torqi is now set to its fastest setting. To return the bike to the slow speed setting follow these steps but flick the switch back to "I".



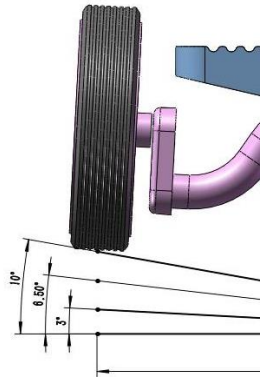
Balance wheels

Your Torqi bike includes a set of balance wheels as shown on the structural components page. We recommend that you use these balance wheels for any novice rider who has no previous riding experience without them.

You have 3 height options for the wheels, this allows you to adjust the side to side movement the bike has when riding.

The balance wheels are easy and simple to fit:

1. Use the 2 bolts supplied to fit the balance wheel kit to the underside of the bike.
2. Choose the height you would like to mount the wheels to set your side to side movement.



CAUTION! Please ensure the balance wheels are done up tight so they cannot move or fall off whilst the bike is been ridden.



MAINTENANCE

Being an electric-powered vehicle, your Torqi is a relatively low maintenance machine. However, it is important to properly care for the unit to keep it operating properly and safely. Below are items that you will need to care for on a regular basis.

STORE INSIDE, OUT OF THE WEATHER AT ROOM TEMPERATURE!

WARNING IT IS EXTEREMELY IMPORTANT TO ALWAYS STORE YOUR Torqi INDOORS AND OUT OF THE WEATHER. THE ELECTRICAL SYSTEM IS COVERED BUT SHOULD NOT BE CONSIDERED SEALED. WATER CAN CAUSE SERIOUS DAMAGE TO THE POWER TRAIN AND CREATE A DANGEROUS SITUATION WATER DAMAGE WILL VOID YOUR WARRANTY.

DRIVE CHAIN TENSION

The drive chain transmits power from the motor to the rear wheel. To work properly it must be lubricated and properly tensioned at all times.

Check the tension on the drive chain by moving it up and down approximately halfway between the sprockets. There should be no more than 1/2cm vertical slack in the chain. If the chain seems too loose, it may be in danger of coming off while riding.

To adjust the chain tension, follow the steps outlined below:

1. Be sure that the Torqi is parked on a flat level surface, is switched off and leaning on the kickstand.
2. Using a spanner, loosen the rear wheel axle nuts on each side.
3. Loosen the bolt holding the brake caliper plate to the frame. If you do not do this the axel will not move on the caliper side.



4. After the axle nuts and caliper plate bolt are loosened, use a 10mm spanner to turn the chain tensioner nuts clockwise (to tighten the chain) about one turn. Adjust both tensioners the same amount to ensure the sprocket stay aligned.
5. Check the tension on chain is correct. If not, repeat steps 3 & 4 until the proper tension is achieved.
6. Tighten the axle nuts and brake caliper plate bolt.

NOTE: To loosen the chain tension, follow the steps above except turn the tensioner nuts counter-clockwise to loosen the chain.



LUBRICATING THE DRIVE CHAIN

The driving chain on your Torqi must be kept lubricated often to avoid excessive wear. To lubricate the drive chain, follow the steps below:

1. Park the bike on a level flat surface using the kickstand.
2. Lean the bike toward the kickstand so that the rear wheel comes off the ground by an inch or two.
3. As you rotate the rear tire by hand, wipe down the chain with a clean cloth to remove as much grime and build up as possible.
4. Spin the wheel by hand and apply chain lube. You may need another person to help you do this.

NOTE: The chain should be thoroughly lubricated but without a buildup of lube, which can collect dirt and grit which causes damage to the chain.

REPLACING THE FUSE

The bike is equipped with a 30-amp fuse to protect system in the event of electrical shorts or overload. When a short or overload in the system occurs, the fuse activates which will protect the wiring and electrical components.

Possible situations that can result in a blown fuse can be:

1. A worn or pinched wire in the system that causes a short.
2. Moisture in the system.
3. Overloaded electrical system.

In the event of a burned-out fuse, your Torqi will not work, when you turn it on the indicator lights will not light up. To check and replace the fuse, follow the steps below:

1. Remove the seat using the quick release tab located at the back of the seat.
2. Locate the black rubber fuse holder in the wiring above the battery kit.
3. Open the rubber flip top lid and carefully pull out the fuse.
4. Inspect the fuse and replace if necessary.
5. Re-assemble the fuse holder and refit the seat, Keep an eye out for any damaged wires.



NOTE: IF THE FUSE CONTINUES TO BURN OUT YOU HAVE ENCOUNTERED AN ELECTRICAL PROBLEM. PLEASE CONTACT SUPPLIER FOR SUPPORT.



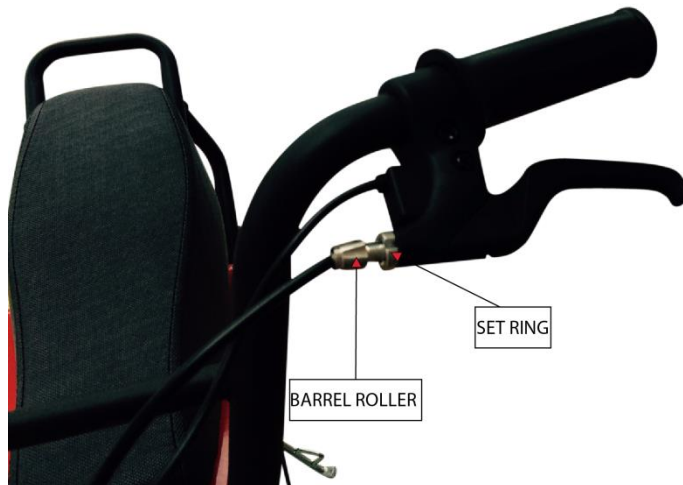
ADJUSTING THE BRAKE

This bike is equipped with a rear disc brake system.

You should check the brake and make sure it is working properly before each ride. The brake should feel firm when the lever is pulled. You should not be able to pull the brake lever all the way back so it touches the hand grip. If you can squeeze the brake lever all the way to the hand grip. Your brake needs adjusting. There are two options to adjust the brake:

OPTION 1: Adjust using the barrel roller.

1. Loosen the set ring on the barrel adjuster.
2. Screw the barrel adjuster out a few turns and then check the tension in the lever.
3. If it feels right, re-tighten the set ring.
4. If not, repeat step 2 until the brake feels right and then tighten the set ring nut.



OPTION 2: Adjust using the actuator arm on the brake caliper.

If you are not able to get enough adjustment using the barrel adjuster, you may need to adjust the brake using the actuator arm on the rear caliper.

1. Adjust the barrel adjuster on the brake lever all the way in, and tighten the set ring.
2. Locate the rear brake actuator arm where the brake cable is connected to the rear brake caliper.
3. Using an allen key, loosen the brake cable bolt that secures the cable to the actuator arm so that the cable can slide freely.
4. Slide the actuator arm forward until it stops, then back it off a small amount.
5. Holding the actuator arm in position, carefully re-tighten the brake cable bolt until it is tight.
6. Check the brakes and make sure they work properly before riding.

NOTE: Be sure the brake is not TOO TIGHT, which will impede performance and cause excessive wear on the brake. The back wheel should spin freely when the brake is not applied.



CHECK THE TIRE PRESSURE

It is particularly important to check the tire pressure before every ride. Running on low tire pressure can create a dangerous situation as the bike will not handle properly and could cause the rider to lose control. To check the tire pressure, locate the air valves inside the rims on each wheel and remove the black plastic cap. Using a tire gauge, check to make sure that there is a minimum of 15psi in each tire, and no more than 30 psi of pressure in each tire.

REMOVING THE BATTERIES

The two batteries on your Torqi can be removed. To remove the batteries, follow the steps outlined below:

1. Ensure the bike is switched off.
2. Remove the seat using the quick release tab located at the back of the seat.
3. Remove the LH and RH plastic side covers so you can gain access to the batteries.
4. Undo the metal bracket that holds the batteries in place.
5. Unplug the battery connector.
6. Once the batteries are disconnected carefully remove them from the battery tray.

WARNING THE TORQI USES LEAD ACID BATTERIES WHICH MUST BE DISPOSED OF PROPERLY. DROP THEM OFF AT ANY LOCATION THAT DESPOSES OF AUTOMOTIVE BATTERIES. DO NOT DISPOSE OF THEM IN YOUR HOUSEHOLD TRASH AND NEVER BURN A LEAD ACID BATTERY AS AN EXPLOSION COULD OCCUR

WARNINGS IF A BATTERY LEAK OCCURS, AVOID CONTACT WITH THE ACID AS IT IS CORROSIVE, POISONOUS AND DANGEROUS. IF ACID COMES INTO CONTACT WITH SKIN OR EYES, FLUSH WITH COOL WATER FOR AT LEAST 15 MINUTES AND SEE A DR IMMEDIATELY.

WARNING DO NOT MIX OLD AND NEW BATTERIES. DO NOT MIX ALKALINE, STANDARD OR RECHARGEABLE BATTERIES TOGETHER, AND ONLY USE SPECIFIED BATTERIES SUPPLIED BY TORQI.

Warranty

Torqi warranty

The manufacturer warrants this product to be free of manufacturing defects for a period of 90 days from the date of purchase! This limited warranty does not cover normal wear and tear parts, tyres, tubes, chains, sprockets, cables or any damage, failure or loss caused by improper assembly, maintenance, storage or use of the Torqi product.

This limited warranty will be void if this product is ever:

- Used in a manner other than for recreation and transportation.
- Modified in anyway.
- Rented.
- Used in wet conditions.

Torqi does not offer an extended warranty. If you have purchased and extended warranty it must be honored by the company who the product was purchased from.

For your records save your original sales receipt with this manual and write your Torqi chassis number below: