
COTIC BIKES EBIKE MANUAL

WARNING

The Cotic Rocket ebike meets the requirements of ISO17404:2022 and ISO4210.

This bike is not designed or equipped for use on public roads. Before it can be used on public roads, it must be fitted with the legally prescribed equipment for your country (eg, reflectors, lights etc). It is designed to be used off-road, but not for competitions. The manufacturer accepts no liability for damage resulting from any use beyond this definition and/or failure to comply with the safety information and instructions in this and other Cotic Bikes user guides. This applies particularly to, but no limited to, the use of this bike in competitions, overloading, and the failure to properly rectify faults. Intended use also includes conformance with the specified operating, service, and repair conditions in the user guide. Fluctuations in the consumption and power of the battery and a reduction of the capacity with increasing age are common and technically unavoidable, and as such, do not constitute material defects.

The maximum combined rider and bicycle total weight for the Cotic Rocket is 145kg. It is not permitted to carry cargo or tow a trailer.

BICYCLE SAFETY

You must contact Cotic with your original invoice and order number in order make a warranty claim (see the instructions on www.cotic.co.uk/warranty).

This document is a supplement to the Cotic Bikes General User Manual and Droplink User Manual. Refer to full General User Manual for complete safety information and installation on components, suspension set up and general rider safety advice. If you don't have the hardcopy versions, they can be downloaded from <https://www.cotic.co.uk/PDF>

Keep this manual for your reference. It is critical that you consult Cotic and component manufacturer's instructions where indicated in this manual, as many tasks should only be done by a qualified mechanic.

The Shimano E-Bike System is not serviceable by the consumer and any tampering will void the warranty. Always take your bicycle to a verified Shimano dealer or Cotic Bikes for E-Bike system service.

Adhere to all torque and sizing specifications for press fits and thread fits. Over-tightening can damage threads or cause parts to fail. Using the wrong size part can cause parts to fail and may cause a crash, which can result in serious injury and/or

death.

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail and may cause a crash, which can result in serious injury and/or death. Any form of crack, scratch, dent, delamination, unusual noise, or change of colouring indicates that the life of the component has been reached and it should be replaced before riding.

In the event of an impact or crash, damage to composite components may be invisible to the user. Consult Cotic Bikes or the component suppliers dealer immediately for inspection. Your bicycle requires regular maintenance, frequent inspection, and the replacement of parts to address any issues.

After any crash or impact, or if you have exceeded the maximum weight limits, immediately contact Cotic for consultation.

Excessive vibration or “harmonic oscillation” from imbalances of the wheels or frame indicates a serious problem. Stop riding the bike immediately and get the bicycle inspected by a qualified mechanic.

Do not place your hands near a moving drivetrain. The areas where the chain contacts the front and rear sprockets or derailleurs can pinch fingers and hands.

Do not place your hands near a moving wheel. A moving wheel can catch your hand between the spokes and frame or other components and can crush your hand.

Do not place your hands near sprocket teeth or disc brake rotors, which have sharp edges and can cut skin.

BATTERY SAFETY

Batteries are subject to the dangerous goods regulations. Private users are permitted to transport them on the road without further conditions. If transported by commercial third parties (e.g. by air freight, logistics companies, or postal service), special conditions apply to packing and labelling. For questions about transporting batteries, please contact Cotic Bikes. www.cotic.co.uk/contact

Damaged batteries must not be charged, used, or transported. They can explode and cause serious burns or fires. Contact your local government authority waste disposal and/or fire service for advice on safe disposal.

Gases can be released from damaged batteries that irritate the airways. Ensure there is a supply of fresh air and consult a doctor in the event of discomfort. Liquid can escape

and cause skin irritation. Avoid contact with this liquid, but in case of accidental contact, wash off with water. If liquid gets into the eyes, flush out with water and seek medical attention.

Batteries must not be submerged in water. There is a risk of explosion. Do not attempt to extinguish a burning battery with water, only the surrounding burning material. For burning batteries, use a Class D Fire Extinguisher. If it is possible to take the battery safely outside, smother it first with sand.

You do not need to worry that you are in danger when riding in the rain; the battery is protected from moisture and condensation.

E-BIKE SYSTEM

This bike uses a full Shimano E-Bike Systems drive. For the latest specifications and power delivery levels, see Shimano E-Bike Systems website for the drive unit and battery configuration supplied on your bicycle.

In accordance international law, this bicycle is categorised as a Class 1 EPAC-Mountain Bike, with a maximum power assisted speed as follows:

UK, EU and Rest of the World: 25km/h or 15.5mph.

USA: 32km/h or 20mph.

Your Cotic ebike will be configured for the maximum power assisted speed for the market it is shipped to, and this is not user adjustable. Increasing the power assisted speed beyond the speed limit in your market voids the warranty and is illegal.

Installing and Removing the Battery

The Cotic Rocket uses the Shimano Gen2 batteries and Battery Mount. The battery is secured on the bicycle with an ABUS lock in the battery mount that uses a key to secure. This lock and key is supplied with the bicycle and is unique to your bicycle, so keep the key safe. However, you do not need the key for installing the battery. The lock latches automatically.

- 1) To install a battery, approach the bicycle from the left hand (non-drive) side. Simply line up the vertical tab on the lower battery mount with the slot in the face of the battery, and use this as a pivot to swing the battery into the mount. A small amount of resistance as the battery pushes home is to be expected. The Cotic hose guide on the down tube doubles as a battery stabiliser and fits tight to the underside of the battery.

The battery is correctly installed when the locks 'clicks' and you can't pull the

battery out sideways or move it in any way. If it can still slide towards you, it's not properly installed and you cannot ride your bicycle.

- 2) To remove the battery, push the key supplied with your bicycle into the lock on the left side of the upper battery mount. Twist through 90 degrees/a quarter turn, grab the battery and pull towards you on the left hand side of the bike. It will swing towards you. There will be some resistance, so be careful of where your fingers are relative to the battery, as it can take a bit of force to get it moving and then it will move quickly.

Charging The Battery

NOTICE: Please refer to the Shimano battery charger manual included with your bike for complete charging information.

- 1) The charge port is located on the left side of the battery, under a rubber cover. Open the cover by hand.
- 2) Insert the charge plug into the port. The green lights on the battery should light up, and the orange light on the charger should show solid. This is healthy charging. If the orange light flashes, there is a charge error and you should unplug everything immediately and refer the battery to your Shimano E-Bike Systems dealer.
- 3) Once charging is complete, the orange light will go out on the charger and your battery will show all 5 green lights lit up when you switch on. Remove the charge plug and carefully, but firmly push the rubber charge cover back into place, flush with the battery casing.
- 4) The battery can be charged on or off the bike using the same plug and same procedure.

Temperature during charging (°C)	0 to 40
Temperature during operation (°C)	-10 to 50
Temperature during storage (°C)	10 to 20
Recommended level of charge for long period of non-use	70%
Recommended period between charges for long periods of non-use	6 months

CONNECTION TO THE APP - E-TUBE PROJECT

The display layout and switch operation can be customized through the Shimano E-Tube Project. The Cotic base settings will be pre-installed, but this is just a starting point to tuning your Cotic E-Bike for your riding.

The Shimano E-Tube Project app is available in the App Store for iOS devices, or the Google Play Store for Android devices, or through the Shimano software. Make sure to check Shimano's website for the latest information regarding the E-Tube Project software.

Updates

It's important you connect your E-Bike to the E-Tube app regularly because Shimano update the firmware for the various components on your bike as they continuously improve the product. To ensure you are getting the best performance and reliability out of your E-Bike, keep the system updated.

RIDING YOUR EBIKE

When you switch on your ebike, the handlebar screen will illuminate and show you a display of speed, power level, battery capacity and other items. You can configure this to show what you prefer. The default mode for the bike is Power Off. You can ride the bike in this mode, but no motor assistance will be provided.

To add assistance, use your left thumb to press the upper mode switch button. This will put the bike in it's lowest power setting. You can now pedal away (assuming it is safe to do so) with some assistance. Use the mode switch buttons to cycle up and down through the power modes.

You will probably want a higher power mode for riding up hills, but don't forget to shift gears as well. You will make the most of your battery life and work best with the motor by shifting down to an easier gear for riding up hills, as well as changing the motor settings. This will also prolong the life of your drivetrain components.

We recommend setting off from standstill in one of the lower power settings. The higher Trail modes and Boost are extremely powerful and make setting off safely from a standing start quite difficult.

If you have never ridden an ebike before, we recommend taking it to a quiet, traffic free area and trying out the various modes and power settings so you can get used to what they do to the bike.

If you need to get off and push your bike, there is a Walk assist mode. With the bike

stationary, press and hold the lower mode switch and the Walk mode will appear on the handlebar display. Let go of the mode switch at this point, then press and hold the lower mode switch again and your bike will gently power along next to you. To restart normal operation, just hit the upper mode switch.

For all the details of the operation and features of your Shimano EP-801 drive system, see the Shimano website.

TROUBLESHOOTING

Warnings or errors may appear on the cycle computer display if the system detects an issue. System errors and warnings can also be indicated by various lighting patterns on the battery's power panel. Please refer to the Shimano E-Bike Systems user manual for information on warning codes, error codes, and battery LED codes. The code will clear once the issue is resolved. If any issues persist after the recommendations below, contact Cotic and/or your Shimano E-Bike Systems dealer immediately.

Internal Cable Routing

The motor control wire runs internally through the down tube, following the dropper post cable. If you are concerned this might be damaged and causing issues, the motor needs to be removed from the frame in order to fully inspect this wire.

Drive Unit Connections

If you receive an error code to check the connections, follow the instructions below.

1. Use a 2mm allen key to remove the three drive unit cover screws on the left side of the bike.
2. Check the connections of the main power cord (far left) that goes from the battery to the drive unit, the speed sensor wire (centre), and the standard Di2 wire from the display (right).

NOTE: The speed sensor wire has a notch on the plug that aligns with the port.

3. Ensure the rubber seal is reinstalled around the top end of the drive unit cover.
4. Use a 2mm allen key to reinstall the three drive unit cover screws.

Suspension and Bicycle Specifications For the Cotic Rocket

The general torque, bearing and suspension specifications, plus the procedure for setting up the suspension on a Cotic bike, are all in the Cotic droplink manual which accompanies this Ebike manual. However, the Cotic Rocket uses our Rocklink suspension layout. This Rocklink suspension is close in performance and character to

the droplink suspension, because that is what makes a Cotic a Cotic, but it does use a different type of shock to our other suspension bikes, and some different bearings too.

The Cotic Rocket additional/different specifications are:

Front Wheel/Tyre	29"/622 wheel. Max tyre 29x2.6 / 757mm diameter
Rear Wheel/Tyre	27.5"/584 wheel. Max tyre 27.5x2.6 / 725mm diameter
Shock Specification	185 Trunnion Fitting. 55mm Stroke
Recommend shock sag	16mm
Minimum Fork Length	561mm static length/150mm travel
Recommend Fork Sag (150mm)	34mm
Maximum Fork Length	575mm static length/160mm travel
Recommend Fork Sag (160mm)	36mm
Trunnion Bearings	SKF HK1214-2RS Needle Roller
Trunnion Bolt Torque	10Nm
Seatstay/Rocker Bearing	Enduro 398-LLU-MAX-EE
Seatstay/Rocker Bolt Torque	10Nm

All other bearings, torque and specifications are same as the droplink bikes and as such are covered in that manual. We have dedicated suspension setup guides on the product page of the Cotic website as well.

There is also a suspension setup guide video at <https://vimeo.com/575401071>

Don't forget, you can always talk to us if you have any questions. Drop us an email on info@cotic.co.uk if you want any advice.

WIRING

Mode Switch and Cycle Computer Wiring

Install the mode switch in the correct location next to the grip on the rider's left side of the handlebar, ensuring the mode switch wire is positioned under the bar. Use a 3 mm hex wrench to tighten the mode switch clamp bolt to 1.5 Nm (13.8 in-lb).

Install the Shimano cycle computer onto the handlebar, directly to the right of the stem. Use a 3 mm hex wrench to tighten the clamp bolt to 0.8 Nm (7.1 in-lb).

The motor control wire is routed via a protective wrap to the dropper post cable, to an area of the handlebar close to the Mode Switch on the left side. Run both wires under the handlebar towards the Cycle Computer (see diagram). Use Shimano or Jagwire handlebar guides or electrical tape to secure the two Di2 wires along the handlebar. Plug both Di2 wires into the junction box sockets under the Cycle Computer.

NOTICE: Make sure to leave enough slack in the motor wire and dropper post cable so

that you can fully rotate the handlebars to each side without pulling the wire tight or the Di2 plug from the device it's plugged into. Failure to do so may result in damage to the wire when the handlebars are rotated.

See the Shimano E-Bike Systems user manual for the most up-to-date descriptions of mode switch and Cycle Computer.

Speed Sensor Magnet

The speed sensor magnet comes preinstalled on the rotor using two of the rotor bolts, or the magnet is integrated into the rotor, depending on the specification of your bike. The magnet must align with the speed sensor on the inside of the non-driveside rear dropout.

NOTICE: When changing out wheels, make sure to swap the magnet carrier over and install it on your new rear wheel. Torque the rotor bolts to your rotor manufacturer's specifications.

The speed sensor comes pre-installed on the inside of the rear triangle using two bolts. The speed sensor must align with the sensor magnet on the rotor.

GENERAL STORAGE AND CARE

STORING

Store your bicycle where it will not be an obstruction and has protection from dangerous conditions.

Do not park your bicycle near machinery that emits ozone or exhaust, which can damage rubber and paint. Rain or snow can cause the metal on your bicycle to corrode. Ultraviolet radiation from the sun can fade the paint and crack the rubber or plastic on your bicycle. Before you put away your bicycle for an extended time, clean and service it and apply frame polish. Hang your bicycle off the ground with the tires at approximately half the recommended inflation pressure. Before you ride your bicycle again, be sure it operates correctly.

CLEANING

Clean your bicycle with a soft, moist cloth and bicycle cleaner or a solution of salt free soap or bike wash (not dish soap) and water and a sponge.

Do NOT use high-pressure water (eg hose or pressure washer)

Do NOT use industrial solvents or harsh chemicals that can damage the paint or moving parts.

INCIDENTAL DAMAGE

Do not let your bicycle fall. Do not set your bicycle down with the frame or derailleur touching the ground. Use care with car racks and work stands. Clamping devices, such as those found on a work stand or car carrier, can cause damage to the paint or tubes of bicycle frames. To hold the bicycle for repairs, clamp the seatpost.

To hold the bicycle for transportation on a motor vehicle, clamp the bicycle carefully as instructed on your vehicle rack. Do not carry your Cotic ebike hung over the rear tailgate of a pickup. Steel does not take kindly to being loaded in this way, even with a protective pad in place, and your warranty will be void if transported in this fashion.

If you accidentally apply a bending force to the fork, do not ride the bicycle until your retailer has inspected the fork for damage.

The finish, or paint, on your bicycle can be damaged by chemicals (including some sports drinks) or abrasive contact, or the application of certain protective films with aggressive adhesive. If you want to protect your frame we recommend RideWrap. Dirt can scratch or remove paint (and even frame material), especially where a cable rubs or a strap is placed around a tube. Keep the bicycle clean.

TRANSPORT

When packaging your bicycle for travel, use a hard case or carton that will protect it from damage.

Attach padding to all the frame and fork tubes, and use a rigid block to protect the fork dropouts and maintain structural support of the fork lowers. If the bicycle is not packaged correctly, it could be easily damaged in transit. If you are not sure, ask your local bike shop to package your bicycle for you.

MAINTENANCE

Bicycle service requires special knowledge and tools and should be performed by a professional bicycle mechanic. This user manual is to be used in conjunction with the manuals supplied by the component manufacturers. If you did not receive the manual provided by the component manufacturer, download the materials off the Internet or contact your local dealer. Consult your local dealer to create a maintenance plan and refer to the Maintenance Schedule on the next page as a guide for frequent inspection, service, and replacement of parts. The E-bike system is not serviceable by the consumer and any tampering will void the warranty.

REPLACEMENT PARTS DISCLAIMER

As with all mechanical components, EPAC-MTBs are subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of colouring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

Only use genuine Cotic Bikes parts to replace any frame components, and only replace wear parts with parts specified expressly by Cotic Bikes. Using replacement parts other than those specified as original equipment or approved by Cotic Bikes can cause potential functional, safety, or performance issues, and may void your warranty. If you are at all unsure, contact Cotic for compatibility advice, and always fit items that are E-25 rated (Ebike 25kg) as a minimum.

5 YEAR FRAME AND FORK WARRANTY

Cotic Bikes will repair or replace at its option any frame or rigid fork made by Cotic Bikes it determines to be defective in materials or workmanship. The warranty will be in effect for 5 years from the date of purchase of the frame or fork and is available only to the original owner.

For the latest terms and conditions, see our website www.cotic.co.uk/terms

NO-FAULT REPLACEMENT

In the event of a non-warranty situation, Cotic Bikes will make replacement parts available to the original owner at a reduced charge for the applicable warranty period described above.

FILE A WARRANTY CLAIM OR NO-FAULT REPLACEMENT CLAIM

Something not right? Contact Cotic Bikes on warranty@cotic.co.uk with your name and original order number. We'll do everything we can to get you back to riding as fast as possible.

LIMITATIONS, EXCLUSIONS, AND DISCLAIMERS

The sole remedy available under the foregoing express warranty and all implied warranties is the repair or replacement of defective parts with those of equal or greater value, as determined by Cotic Bikes in its sole discretion. The warranty does not cover labour costs, custom finishes, normal wear and tear, or damage from commercial use. The warranty is void if the part is modified from its original condition in any manner or

used outside normal intended use, as determined by Cotic Bikes in its sole discretion.

The warranty for damage arising from accidents, crashes and other impacts is limited to offered replacement at a reduced charge as set forth above. Any implied warranties (including without limitation the warranties of merchantability and fitness for particular purpose) which may not be disclaimed under applicable law are limited in duration to the period set forth above or the applicable statute of limitations, whichever is shorter.

The foregoing warranty is the sole and exclusive warranty offered by Cotic Bikes. To the maximum extent permitted by applicable law, all other express and implied warranties (including without limitation the warranties of merchantability and fitness for a particular purpose) are hereby disclaimed. To the maximum extent permitted by applicable law, in no event shall Cotic Bikes or any of its owners, officers, employees, representatives, agents, or affiliates (or any of their respective successors or assigns) be responsible or otherwise liable for any direct, incidental or consequential damages arising from the purchase, use, or ownership of its products, including without limitation damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other theory.

Some states and countries do not allow some or all of the foregoing exclusions or limitations, so they may not apply to you. If any portion of the foregoing warranty (or the exclusions or limitations thereto) is deemed invalid or unenforceable pursuant to applicable law, it shall be deemed modified so as to be valid and enforceable to the maximum extent consistent with such law. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.