

GEEKAY®

*Generations Ahead
Ride the Future*



ECOBIKE PRO OWNER'S MANUAL

THIS MANUAL

Please keep in mind that your bicycle is a legal vehicle. When you ride it, you will be amidst other traffic and need to use your common sense and remember the laws and safety tips pertaining to your bicycle.

Read this manual carefully to reduce your risk of injury.



WARRANTY

Geekay Bikes provide high-quality products to its customers. Geekay Bikes are sold through online platforms like Amazon, Flipkart & Meesho & our own official website <https://geekaybikes.com/> and offline stores all over India.

All Geekay Bikes come with a “Lifetime Warranty” on frames, 1 year on batteries, and 6 months on motors and controllers. The Lifetime frame warranty is guaranteed against the manufacturing defects.

This warranty is void by misuse, stunt, improper maintenance, or alternations of the product & does not cover any normal wear & tear that might occur. All warranty claims should be directed to the company.

HOW TO REGISTER YOUR BIKE?

To claim your warranty, it's highly recommended that you register your product on our official website <https://geekaybikes.com/> under “REGISTER YOUR BIKE” or scan the below QR code to register your bike. For conversion kits or accessories, please retain your original invoice for a seamless experience and support. You will receive a warranty confirmation email.

HOW TO CLAIM YOUR WARRANTY?

- If you want to claim your warranty of the product you bought offline, all you need to do is contact the dealer from where you bought your product.
- If you want to claim your warranty of the bike you bought online, then the unique numbered certificate is needed. All you need to do is contact our customer support via call or WhatsApp to claim your warranty.

KEEP A RECORD OF YOUR NEW BICYCLE

OWNER: _____

ADDRESS: _____

PINCODE: _____

BRAND & SERIAL NO: _____

MODEL: _____

FRAME STYLE: _____

FRAME SIZE: _____

FRAME COLOR: _____

WHEEL SIZE: _____

TYRE SIZE & TYPE: _____

BRAKE TYPE & BRAND: _____

TRANSMISSION BRAND: _____

SADDLE BRAND: _____

OTHER ACCESSORIES (LIST & BRAND NAME):

PURCHASED FROM SHOP NAME: _____

SHOP ADDRESS: _____

TEL: _____

DATE OF PURCHASE: _____ / _____ / _____

PRICE PAID ₹: _____

**Remember the advice about LOCKING YOUR BICYCLE.
A Good Quality Lock is cheap Insurance.**

IMPORTANT SAFETY WARNINGS



FOR YOUR OWN SAFETY, IS HIGHLY RECOMMENDED TO HAVE YOUR GEEKAY BICYCLE ASSEMBLED BY A SKILLED MECHANIC.



Components to be Assembled:

- Handlebars
- Stem Assembly
- Front Wheel
- Seat & Post-Seat Assembly
- Brake Reflectors & Brackets
- Pedals
- Headlight



Tools Needed:

- 3,4,5 mm Allen Keys
- 14-15 mm Spanner Set
- Pliers
- Phillips Screwdriver
- Flat Head Screwdriver
- *Torque Wrench Recommended



TYPES OF BIKES



Electric

E-Bikes use Motor & rechargeable batteries that can travel up to 25 km/h, Getting you to your destination quicker and in better shape. In a nutshell they offer low cost, energy efficient, and emission-free transportation which also has physical and health benefits.

Road or Touring

Typically used for racing, these lightweight bikes usually have narrow handlebars, wheels and tires.

Mountain or Off-Road

Designed for off-road cycling, these bikes incorporate certain features to perform well on rough terrain. They have a much thicker frame than road bikes and are built to provide stability and absorb shock.

Cross & Hybrid

Cross & hybrid bikes offer the same comfort as a city bike, yet are equipped to handle rougher terrain as well. They are built to offer the benefits of both road and mountain bikes in one.

City & Comfort

City & comfort bikes are only designed to go short distances for commuters or for enjoyment. Many cities have public bike sharing brands like electric bikes that would also classify as a comfort or city bike.

BMX

BMX or Bicycle Motocross is a sport that involves racing on a cross-country course with obstacles. BMX bikes are made to support this, racing, and stunt riding.

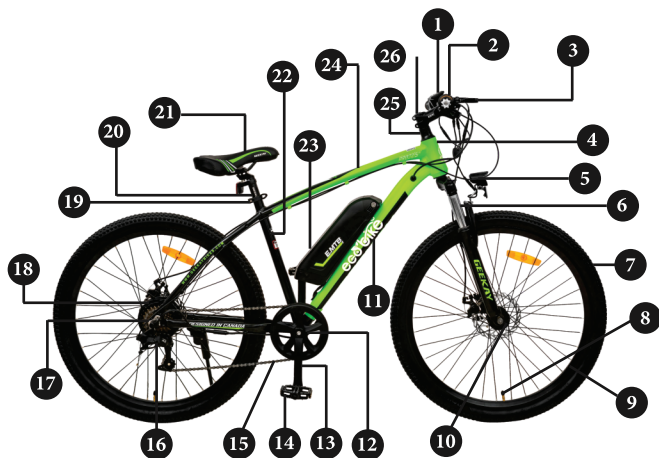
Freestyle

These bikes come with both rear and front brakes. The front cable is routed through a "rotor" that allows the handlebars to be spun around without tangling the brake cable.

INSTALLATION GUIDE

STEP 1

KNOW YOUR BIKE



- | | | |
|-----------------------------------|---------------------|--------------------------|
| 1. LED Display | 9. Rim | 18. Hub Motor |
| 2. Throttle | 10. Hub | 19. Seatpost Binder Bolt |
| 3. Brake Levers with Auto cut off | 11. Down Tube | 20. Seatpost |
| 4. Head Tube | 12. Pedal Assist | 21. Saddle |
| 5. LED Light with Inbuilt Horn | 13. Crank Arm | 22. Seat Tube |
| 6. Fork | 14. Pedal | 23. Battery |
| 7. Tyre | 15. Chain | 24. Top Tube |
| 8. Valve | 16. Rear Derailleur | 25. Headset |
| | 17. Cogset | 26. Stem |

SPECIFICATIONS



**Mechanical dual
Disc Brakes with
Auto cut off**



**7 Speed
LTWOO
Gears**



**36V 250W
Geekay Rear
Hub Motor**



**2.125"
Wide Tyres**



**Alpha Alloy
Hydro Formed
Frame**



**Lockout
Suspension
Fork**



**European Standard
5 Level Pedal Assist**



**36V 10.4 ah Li-ion
Battery with
BMS & Fuse**



**Wide Sporty Saddle
with Quick Release**



**Alloy Grip with
Full Throttle**



**Front LED Light
with Inbuilt Horn**



**Smart LED
Display**

INSTALLATION GUIDE (CONTINUED)

STEP 2

PREP AND TOOLS

You'll only need
3 basic tools
to assemble the
whole bike

- | | | |
|---|-------------------|---|
| 1 | 3mm Hex Allen Key |  |
| 2 | 4mm Hex Allen Key |  |
| 3 | 5mm Hex Allen Key |  |
| 4 | 14-15mm Spanner |  |

NOTE : Different tools required for kids bicycle models

STEP 3



UNBOXING

Your dream bike comes in this package. Make sure your bike is upright with the arrows printed on the box pointed upward.



Let's open it and explore the contents



INSTALLATION GUIDE (CONTINUED)

STEP 4

ASSEMBLE THE WHEEL

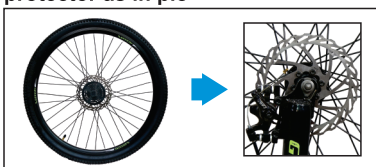
Step 4.1

Remove this fork protector

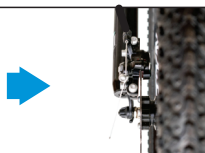


Step 4.2

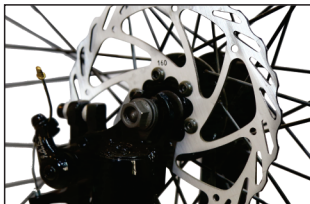
Fix the front wheel in the fork holder from where you removed the fork protector as in pic



Make sure the disc brake plate goes inside the Disc Brake Machine while installing the front wheel.



Step 4.3 Fix the lock plate in the fork hole and tighten



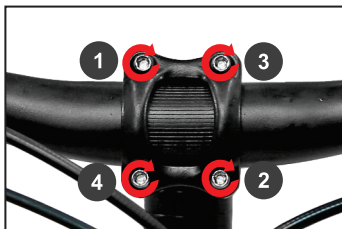
Fully tighten both nuts and ensure the wheel set straight in the forks

INSTALLATION GUIDE (CONTINUED)

STEP 5

INSTALLING THE HANDLE

Step 5.1



Tighten Bolts Equally

As you are tightening the bolts, the gap between the face plate and stem body needs to be equal all the way around. Making sure that you have equal tension is just as important as making sure that the handlebar is tight.



Tighten the 2 nuts on both sides of stem as in pic.

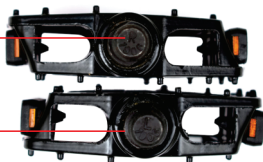
INSTALLATION GUIDE (CONTINUED)

STEP 6

INSTALLING THE PEDALS

6.1 Your Pedals have L & R marked on them as in pic.

R=Right



L=Left

L will be installed on the left crank and tighten with spanner



R will be installed in Right ride crank and tighten with spanner



FOLLOW MARKS FOR TIGHTENING CRANK



WARNING

VERY IMPORTANT

PLEASE NOTE :

That damage caused by INCORRECT ASSEMBLY (Such as installing the pedals the wrong way around) is not covered by your warranty.

INSTALLATION GUIDE (CONTINUED)

STEP 7

INSTALLING THE SEAT

Step 7.1

Unscrew the Seatpost plates shown in following images



Step 7.2

Put the plates on Saddle as Shown



Step 7.3

Insert the Bolt in the plates



Step 7.4

put the nut on top & Tighten the Bolt



INSTALLATION GUIDE (CONTINUED)

Step 7.5

Open the quick release on the frame and put the seat post in the frame hole



Step 7.6

Insert the reflector on the seat post (if available in your model)



Step 7.7

Install the seat in the seat post and tighten screw



Step 7.8

Adjust height of seat post as required and tighten quick release on the frame

ALIGNING THE SEAT POST



STEP-1

While standing over the bike, look down. Align the nose of the saddle to run parallel with the top tube of the frame, so that it is pointing directly at the head stem.



STEP-2

You may want to re-adjust the saddle's tilt (so that the nose of the saddle is in line with the rear of the saddle and not pointing up or down) To do this. Loosen the bolt (s) that clamp the saddle's rails. Adjust the tilt and then re-tighten the bolt (s).



STEP-3

Grab the seat and try to turn it. If it turns, re-align it and continue tightening the seat post clamp until it does not turn anymore.

INSTALLATION GUIDE (CONTINUED)

STEP 8

INSTALLING THE SIDE STAND



Step 8.1

fix it on the frame as illustrated.



Step 8.2

Tighten the nuts as in pic

STEP 9

INSTALLING THE LIGHT



Step 9.1

Unscrew the nut Bolts



Step 9.2

Tighten the nuts as in pic

INSTALLATION GUIDE (CONTINUED)

STEP

10

CONNECTIONS

Join All the Sockets with same color as Shown



STEP

11

INSTALLING THE BATTERY

Install the Battery as Shown



CHECK YOUR E-BIKE

Step 1

Press & Hold the Button to Turn On the Battery as shown



Step 2

Press & Hold to Turn On the Display as shown



Step 3

Press & Hold the + Button to Turn On the Light as shown



Step 4

Press the Horn Button & Check the Beep



CHECK YOUR E-BIKE

Step 5

Accelerate the Throttle & Check the Motor



Step 6

Pedaling the Bike & Check the Motor



CHARGING GUIDE

- 1 INSERT CHARGING PORT ON BATTERY FIRST, THEN INSERT CHARGING PLUG TO MAIN SOCKET.**

STEP 1



STEP 2



- 2 THE CHARGING SIGNAL IS RED DURING CHARGING; IT TURNS TO GREEN WHEN FULLY CHARGED.**

CHARGING



CHARGED



LOAD/UNLOAD THE BATTERIES

Please turn the keys left/right to lock or unlock the batteries. Because the battery is a relatively heavy component and likely to get loose as a matter of road vibration, make sure you have enough rigidity and support for your battery case assembly. If you cannot fit both water bottle bolts on battery frame, drill the required place on the battery frame. Use other type of belt fasteners in case you are not confident about the firmness of the fasteners.

7 SPEED GEAR SYSTEM

The Eco Bike Pro is equipped with a 7 speed LTWOO freewheel which provide a convenient level of effort and pedaling speed during different terrains. First gear is the lowest gear of this drivetrain and 7th gear is the highest gear. By using lowest gear (the largest sprocket), you would be able to pedal up hills easier. When you are riding in downhill or flat terrain, highest gear (the smallest sprocket) helps you to reach higher speed. Use the thumb shifter on the right handlebar to shift gears up or down.

Pull Index finger for down shifts. Push thumb button for up shifts.

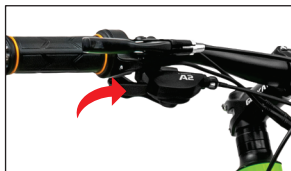


CAUTION!

Avoid changing gears too fast because it could cause the chain to fall off and you will lose your control, which could result in serious injury. If the chain fell OFF you have to turn the ebike off to fix the chain. If you do not turn off the E-bike and the motor turns ON you could face serious injury.



Push the lever to change gears from 7 to 1



Press the blue button to change gears from 1 to 7

OPERATING YOUR NEW E-BIKE

OPERATING SAFETY

Make sure you read and understood this manual completely before turning on and operating your ebike. Ensure you understand how to turn on, activate the pedal assist and throttle.

⚠ CAUTION! For the first time you should ride in an open and safe area which is far from pedestrian, cars, other bikers or other objects that could be potentially dangerous. Start slowly in a low level of pedal assist for a period of time. This period of time could be different for individuals. When you feel comfortable and you have sufficient experience in riding the ebike, then move up pedal assist levels. The higher pedal assist levels will accelerate you to higher speeds more quickly. So, you have to be careful and be able to control your ebike precisely when riding the ebike at any speed.

⚠ CAUTION! Failure to follow to the warnings and guidelines which is mentioned in this manual can lead to serious harm, injury or death. Damage sustained by the ebike from not following instructions, guidelines, and warnings in this manual is not covered under warranty.

⚠ CAUTION! What E-bike riders need:

- be 16 or older
- wear an approved bicycle or motorcycle helmet
- keep your e-bike in good working order
- You also need to follow the same rules of the road as regular cyclists.
- You must check your local regulation to ensure that you are riding legally and safely. These laws may specify the need for mandatory equipment, use of hand signals, and where you can ride.

HOW TO TURN ON/OFF E-BIKE

- To power ON/OFF the Bike, please use power key on the right side of your handlebar.
- To turn ON/OFF the LCD display, please use the Power Button that is located on the Button Pad on the left handlebar.

TO TURN ON YOUR E-BIKE:

1. Please turn the Power Key to ON position.
2. Turn on the Power Button on the button pad so the display comes ON.
3. For CITO 20 Plus: If you want to use the second battery as well, make sure the power key which is located on the top left side of the second battery is in ON position.

TO TURN OFF YOUR E-BIKE:

1. Turn OFF the Power Button on the button pad, so display comes OFF.
2. Turn the Power Key to OFF position and take out the key. make sure the power key which is located on the top left side of the second battery is in ON position.

INFLATING THE TYRES

INFLATION LEVEL ON EACH TYRE IS DIFFERENT, PLEASE CHOOSE THE MAX INFLATION LEVEL ON YOUR TYRE BEFORE INFLATING

KILOPASCAL FROM PSI CONVERSION TABLE

PSI	BAR	KPA	PSI	BAR	KPA
35	2.4	241	100	6.9	689
40	2.8	276	105	7.2	724
45	3.1	310	110	7.6	758
50	3.5	345	115	7.9	793
55	3.8	379	120	8.3	827
60	4.1	414	125	8.6	862
65	4.5	448	130	9.0	896
70	4.8	483	135	9.3	931
75	5.2	517	140	9.7	965
80	5.5	552	145	10.0	1000
85	5.9	586	150	10.3	1034
90	6.2	621	155	10.7	1069
95	6.6	665	160	11.0	1103



TROUBLESHOOTING

THE TABLE BELOW IS BY NO MEANS A COMPREHENSIVE TROUBLESHOOTING GUIDE, BUT RATHER A GENERAL GUIDE FOR THE MOST COMMON ISSUES. EACH PROBLEM MUST BE LOOKED AT ON A CASE-BY-CASE BASIS. FOR ANY ADDITIONAL TROUBLESHOOTING HELP, REFER TO OUR CUSTOMER SUPPORT REPRESENTATIVE FROM [CONTACT US](#)

ISSUE	CAUSE	SOLUTION
Charger gets hot	This is normal	Give the charger plenty of space in a well ventilated room
Power cuts and screen turns off	Low charge LED display connector is loose	Charge the battery Reconnect and check all other connections inside the controller housing
Mounting bracket is melted	Dust and dirt may cause loose connections between connection pins which can cause sparking that leads to melting	Make sure to frequently keep connections clean and secured. Order replacement parts
Battery does not charge up with standard charger	Battery is already fully charged	Read battery voltage when the system is on, Above 41V for 36V is considered full, and above

TROUBLESHOOTING (CONTINUED)

ISSUE	CAUSE	SOLUTION
Battery does not charge up with standard charger	Charger does not function	Green LED may turn on when charger is plugged into battery but not connected to the wall. Check all connections are tight Try different plugs as well as different charger cables
System is on, Pedal Assist is not working, but the throttle is working	PAS sensor is disconnected	Check wires and connections or restore parameters to default
System is on and the throttle not working but the Pedal Assist is working	Throttle has a connection issues Throttle magnet can see interference from any nearby metal objects Error info 01	Check connections Try moving metal objects further away from throttle Check throttle positioning. Clean throttle area. It may be stuck on something, make sure you leave some space around the throttle
Motor making noise	This is normal when motor is under heavy load (hills, heavy cargo) Motor vibrations causing resonance on other bicycle components	Try giving motor more assist under heavy loads Reposition parts and add vibration damping between parts, make sure motor is secured

TROUBLESHOOTING (CONTINUED)

ISSUE	CAUSE	SOLUTION
System is on but motor has no power	Loose connections Brake cut off sensor is malfunctioning Battery not sufficiently charged	Check connections and reconnect, make sure to align arrows Disconnected the brake cut off sensor, check if motor is powering Check battery voltage. If below 34V the system will turn on but motor will not give power
Everytime I restart the ebike the display clock needs be reset	LCD has small battery inside that does not come fully charged	Small battery needs to be charged for 72 hours. Refer to section 5.3.
Gears skipping	Derailleur not in optimal position for gear	Adjust derailleur position with barrel adjuster located on the shifter
Brakes making noise	Brake pads are rubbing on the rotor Brakes not bedded in properly, material buildup is causing noise	Pads need to be adjusted. Adjust the cable tension to shift the left pad, use an Allen key to adjust the right pad. The pads should be adjusted so the rotor spins freely in the middle of the two pads Lightly sand and clean rotors and pads. Bed in your brakes.

TROUBLESHOOTING (CONTINUED)

● Vehicle Status Display Area

Error Code Err



Vehicle Status Code Meaning

Status Code (Decimal)	Status Meaning
0	The Normal State
1	Keep
2	The Brake
3	Assist sensor fault (Riding logo)
4	6 km/H Cruise
5	Real-time Cruise
6	Battery under Voltage
7	Motor Fault
8	Turn the Fault
9	Controller Failure
10	Communication Receiving Failure
11	Communication Transmission Failure
12	BMS Communication Failure
13	Headlight Fault



SAFETY: BIKE FIT

PROPER FITTING IS ESSENTIAL FOR A SAFE RIDE. A BIKE THAT IS EITHER TOO BIG OR TOO SMALL CAN BE EXTREMELY UNCOMFORTABLE AND DIFFICULT FOR THE RIDER TO CONTROL, POSSIBLY LEADING TO A RISK OF INJURY. MAKE SURE YOUR BIKE IS FITTED SO YOU DO NOT LOSE BALANCE OR CONTROL.

FRAME SIZE	RIDER LEG LENGTH
14.5"	25-26"
15"	26-27"
16"	27-28"
17"	28-30"
18"	29-31"
19"	30-32"
20"	31-33"
21"	32-34"
22"	33-35"
23"	34-36"
24"	35-37"
25"	36-38"

Your bike's saddle fit is equally as important as fitting the frame size to your leg length. Adjusting the saddle to fit you well allows you to pedal efficiently. A loose seat may cause you to lose control and fall.

The correct height of your saddle will be when (while seated on it), your knee is slightly bent when the crank is at the maximum down stroke or when the pedal is closest to the ground.

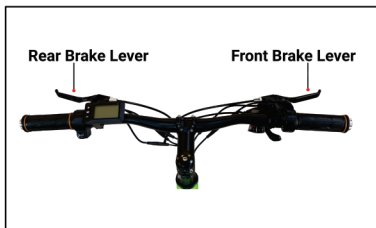
Adjust the saddle height by loosening the seat binder bolt or the quick release and move the seat post up or down as required. Re tighten the seat post tight enough so that you cannot twist the saddle out of alignment.

***Note:** After adjusting the saddle, adjust the handlebars for a safe and comfortable ride. When in doubt, ask your local bicycle retailer for advice.

SAFETY: BRAKE LEVERS & HANDLEBAR

WARNING: The head stem should NEVER, under any circumstances be re-tightened with its "Minimum Insertion" or "Maximum Extension" mark visible.

CONTROLS POSITION AND ADJUSTMENT



- **Important Note:** Front wheel brake lever must be mounted on the right hand side; rear brake lever on left hand side.
- Fit pedals to crank in correct order; pedal marked R on the right hand side; L on the left.

WARNING: If you are unsure about correct assembly and/or adjustment, seek advice from a qualified bicycle mechanic.

SAFETY CHECK BEFORE RIDING YOUR BIKE

BRAKES

- Check brake pads for wear and ensure they are not over worn and are correctly positioned in relation to the rims. Make sure brake cables are lubricated, properly adjusted, and show no obvious wear.
- Pull the brake levers to make sure your brakes are free from damage and are working accurately. When you fully squeeze the brake levers, ensure neither the front or rear brake levers touch the handlebar. If you find a problem take your bike to a certified, trustworthy bike mechanic to have the brakes repaired.
- Your wheels should always spin straight. If they wobble side to side or up and down or if the wheels become untrue or spokes loosen, they must be repaired. Do not attempt to true or tighten unless you have adequate knowledge, tools and experience. It is highly recommended to ask a certified, reliable bike mechanic for repairment.

MOTOR DRIVE ASSEMBLY AND THROTTLE

Check all power cables running to the motor to be secured and undamaged and make sure the motor is spinning smoothly and motor bearings are in good working order.

ELECTRICAL CABLES

Check connectors to be fully seated and free from debris and make sure all cables and cable housing to be free from damage. Make sure headlight, taillight and brake light are functioning properly.

BATTERY AND BATTERY CHARGER

The battery **MUST** be locked onto the frame battery mount properly before use and make sure the battery is operating properly. It is recommended to unplug the battery charger from the outlet, and store it in a safe location before you ride.

BICYCLE TERMONOLOGY

BREAKAWAY

A rider or group of riders that breaks away or separates themselves ahead of the group they are racing or riding with.

CADENCE

The number of revolutions of a bike's crank per minute, or the rate at which a cyclist is turning their pedals.

CHAIN GUARD

An enclosure for a bicycle chain and sprocket, typically used in utility bicycles. Protects the rider from getting trapped in the chain rings.

CHAIN RING

A round piece on your bicycle that connected the cranks to pull the chain around.

CRITERIUM

A multi-lap road bike race, usually less than a mile in length.

DERAILLEUR

Derailleur gears are commonly used on bicycles and consist of a chain, multiple sprockets, and a mechanism to move the chain from one sprocket to the other.

DRAFTING

Riding in the wind stream or slipstream of another rider ahead. Drafting another rider can expend about 30% less energy.

DRIVE SIDE

The side of the bike where the chain and other bicycle components are.

DOWNSHIFT

To shift into a lower gear.

DROPOUT

The slots on a bike frame in which the front and rear wheel axles are placed.

FREEWHEEL

A group of cogs screwed onto the rear wheel; allows you to coast.

BICYCLE TERMONOLOGY (CONTINUED)

GEAR RATIO

The ratio of how many times the back wheel will rotate for each full turn of its pedals.

HARD TAIL

A type of full-suspension bike that features a suspension fork in front and a rear shock.

JUMP

A quick acceleration.

NEUTRAL SUPPORT

Refers to when a biker has mechanical issues and receives assistance from a group available to all riders.

OVER-GEAR

Using a gear ratio too big for your fitness level or terrain style.

PANNIERS

Bags that are mounted to front and/or rear racks for carrying gear; also commonly referred to as "saddlebags."

PATCH KIT

A kit for repairing flat tires, this usually fits in a small plastic box and should include patches, glue, and sandpaper.

PSI

Abbreviation for "pounds per square inch." This is a unit to measure tire inflation and air pressure.

QUICK RELEASE

A type of clamping mechanism used to hold on wheels.

ROAD RASH

A skin abrasion caused by scraping layers of skin against the road in a bike crash.

RIM

The outermost part of the wheel that the tire mounts to.

SLIP STREAM

A pocket of calmer air moving behind a rider (or the draft).

GEEKAY[®]



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