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If you want to print the user manual, is designed to be printed double sided with a flip on the short side.







Frame	6061 Aluminum Alloy
Battery	36V 14 AH Li-Ion Battery (504 Wh)
Motor	350 Watt Bafang Rear Hub Motor
Controller	36V 15A
Charge Time	6-8 Hours
Max Speed	32 Kph (Program) - 38-40 Kph (Unlocked)
Range Distance	45 Km (Throttle) - 90 Km (Pedal Assist 1)
Brake	Front & Rear Disc Brake
Light	Front & Rear Lights
Display	LCD SW900 Display
Fork	Al Alloy Suspension Fork
Tires	26x1.95
Derailleur	7 Speed Shimano
Packaging	147*27*86cm - 23.2 Kg (51lbs) Net













Frame	6061 Aluminum Alloy
Battery	36V 14 AH Li-Ion Battery (504 Wh)
Motor	350 Watt Bafang Rear Hub Motor
Controller	36V 15A
Charge Time	4-6 Hours
Max Speed	32 Kph (Program) - 38-40 Kph (Unlocked)
Range Distance	45 Km (Throttle) - 90 Km (Pedal Assist 1)
Brake	Front & Rear Disc Brakes
Light	Front & Rear Lights
Display	LCD SW900 Display
Fork	Zoom Al Alloy Suspension Fork
Tires	26x1.95
Derailleur	7 Speed Shimano
Packaging	138*27*63cm - 23.2 Kg (51lbs) Net











	Frame	6061 Aluminum Alloy
tor Brushless	Battery	48V 15 AH Li-ion battery (720 Wh)
	Motor	500 Watt Bafang Rear Hub Motor
	Controller	48V 22 A
	Charge Time	4-6 Hours
	Max Speed	32 Kph (Program) - 40-45 Kph (Unlocked)
	Range Distance	45 Km (Throttle) - 90 Km (Pedal Assist 1)
	Brake	Front & Rear Disc Brakes
	Light	Front & Rear Lights
	Display	LCD SW900 Display
	Fork	Al Alloy Suspension Fork
	Tires	26x2.5
	Derailleur	7 Speed Shimano
	Packaging	163*27*82cm - 28.6 Kg (63 lbs) Net

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## EBC-S07B













Frame	6061 Aluminum Alloy
Battery	48V 13AH Li-Ion Battery (624 Wh)
Motor	500 Watt Bafang Rear Hub Motor
Controller	48V 22A
Charge Time	4-6 Hours
Speed	32 Kph (Program) - 40-45 Kph (Unlocked)
Range Distance	40 Km (Throttle) - 80 Km (Pedal Assist 1)
Brake	Front & Rear Disc Brakes
Light	Front & Rear Lights
Display	LCD SW900 Display
Fork	Al Alloy Suspension Fork
Tire	26x4.0
Derailleur	7 Speed SHIMANO
Packaging	158 X 27 X 83cm - 31.4 Kg (69lbs) Net

## EBC-S07D



# EBC-S07D



Frame	6061 Aluminum Alloy
Battery	48V 13 Ah Lithium Ion Battery (624 Wh)
Motor	500 Watt Rear Bafang Hub Motor
Controller	48V 22A
Charge Time	4-6 hours
Max Speed	32 Kph (Program) - 40-45 Kph (Unlocked)
Range Distance	40 Km (Throttle) - 80 Km (Pedal Assist 1)
Brake	Front & Rear Disc Brakes
Light	Front & Rear Lights
Display	LCD SW900 display
Fork	Al alloy suspension fork.
Tire	26x4.0
Derailleur	7 speed Shimano
Packaging	158 X 27 X 83cm - 31.4 Kg (69 lbs) Net





## Assembly Instructions

## Basic Assembly Guidelines

- 1. Open carton.
- 2. Remove small accessories box and set aside.
- 3. Remove bike from carton, place on a soft surface to avoid scratches.
- 4. Cut zip ties securing the front wheel to the frame, and set aside.
- 5. Remove the protective foam and remaining zip ties.
- 6. Open your accessories package and take out your tool kit.
- 7. Keys are tied to the handle bar stem clamp. Cut zip tie and remove this clamp with the allen wrench in your tool kit.
- 8. Place handle bars in centre position, attach stem clamp and tighten screws with included allen wrench.
- 9. Carefully flip the bike upside down.
- 10. Remove the large securing bolt on the front fork.
- 11. Grab the front tire, loosen the side bolts on the tire, and align the brakes with the wheel rotors, then carefully drop tire into place.
- 12. Tighten both bolts with the included 15 mm wrench.
- 13. Attach Pedals. The right pedal is turned clockwise, and the left pedal is turned counter-clockwise.
- 14. Flip the bike upright.
- 15. Push the seat post into the frame, hold it at the desired position, tighten the screw and flip the lever. The seat clamp tightness should leave a light imprint in the palm of your hands for a few seconds when closing the seat clamp.
- 16. Grab your bike light, twist lens to open. Remove the plastic insulator, twist lens back on, and press the power button. Attach your bike light to the screw above the front fork along with the front fender, if your model came with one.

### Test brakes and electric functionality before riding your ebike.

Remember to charge your battery for 8-10 hours before you take your first ride. This will help to extend the life of your battery.

IMPORTANT- IF YOU ARE MISSING PARTS, OR REQUIRE ASSISTANCE, CONTACT OUR CUSTOMER SERVICE TEAM FOR PROMPT SUPPORT. DO NOT DISPOSE OF THE SHIPPING BOX & PACKAGING MATERIAL UNTIL YOUR BIKE IS FULLY ASSEMBLED.

## Routine Checks

## To ensure your safety, make the following functional checks before riding:

### Before you turn on the power

- 1. Check for rubbing brakes pads and adjust as needed.
- 2. Check that the brake levers return to the neutral disengaged position when released.
- 3. Check that the throttle is free flowing and returns to it's off position when released.
- 4. Check the handlebars for tightness and adjust if needed.
- 5. Check that the front & back wheel lug-nuts are securely tightened before every ride.
- 6. Tire pressure should be at around 30 psi. Use PSI marked on tire wall for best results.
- 7. Check that your battery is well secured to the frame of your ebike.
- 8. Check your battery charge level indicator, if your battery model has one.

## Turn on the power

- 9. Check the battery level on your display.
- 10. Set your PAS level to 0 or 1 to begin your ride.





LCD SW900 Meter

It is good practice to set PAS level to zero before you leave. Turn up the pas level as you are riding. Set the PAS level back down to zero when you stop. No PAS level 0? Start and stop your ride with power off for the safest operation of your electric bike.

## Battery Charging

## Charging Methods

You can charge the battery while it is attached to the bike, or detach the battery from the bike frame, and charge it separately.

Please follow the best practice battery charging guidelines listed below to extend the life of your battery.

## With Battery Removed

- 1. Unlock the battery from the base (both the top & bottom locks for S05 & S18 models) using the included key.
- <sup>2</sup> Press power switch once to discharge any residual energy from controller.
- 3. Remove battery from the base by grabbing the battery and push it slightly upwards towards handlebars before sliding it out. Do not force the battery removal, doing so may damage the base rails. Double check that the battery is unlocked. and give it a push from the other side to help loosen if necessary.
- 4. Rotate and pull rubber charging socket to expose charging port.
- 5. Plug input charger into battery first, then insert 120 V plug into the wall outlet.

## With Battery Attached to Ebike

- 1. Turn off the battery and LCD display, remove key.
- 2. Press power switch once to discharge any residual energy from controller.
- 3. Gently pull on the rubber cap to expose the charging port.
- 4. Insert input plug into battery first, then insert 120 V plug into the wall outlet.

## Avoid overcharging - Do not leave on charger over 24 hours.



## About Charging

## Charging Guidelines

- \* When the input and output terminal are connected, the red indicator light of the charger will turn on, showing that the battery is being charged.
- \* 10 to 12 hours should be spent charging the battery before your first ride, regardless of light colour. After the first charge, when the indication light of the charger turns green, it will mean your battery is charged. Normal charging times are typically 2 to 8 hours.
- \* This charger has a trickle mode protection device for over-charging **but** charging for more than 24 hours will reduce the output capacity and life time recharging cycles of the battery.

Never charge your lithium ion battery for more than 24 hours. Doing so greatly reduces the capacity and the number of recharging cycles you will get.

## Important Charging Information

- \* When the battery is detached, do not touch the "+" and "-" contacts, particularly with wet hands or metallic objects.
- \* To prevent overheating, do not cover the charger while charging a battery.
- \* The charger is for indoor use. Please keep it in a dry and well ventilated area.
- \* If you notice a strange smell coming from the charging area, or if it get too hot, please stop charging and replace or repair the charger or battery.
- \* If the battery or charger seem excessively hot, stop charging and investigate cause.
- \* Keep the charger in a safe place, away from young children or heat sources.
- \* Charge your battery at or near room temperature. Avoid charging when the temperature is below the freezing point. Doing so may reduce its life span.



## Driving

## **Important Tips While Driving:**

- 1. To reduce consumption, increase autonomy, and extend the motor life span, try to use the pedals during initial startups and climbs.
- 2. Maintain a 30 PSI tire pressure or as indicated on your tire wall. Low tire pressure will influence ease of use and decrease speed.
- 3. Do not activate the throttle too quickly. You should accelerate slowly, reducing power peaks and risk of damage to the electrical system.
- 4. To increase security and reduce power consumption, it is advised to avoid sudden stops and starts.
- 5. The ebike controller has a charge overload protection. In case of energy overload, power will be automatically cut from the motor, then restored when it returns to a normal load.
- 6. While driving, avoid using the throttle as you brake as it may damage the motor.
- 7. The maximum load is 140 Kg (300 lbs) for the 48V models and 110 Kg (250 lbs) for the 36V models. Avoid riding with higher weights,
- 8. Our ebike controllers have a top speed limiter. For security reasons, removal is strictly prohibited & voids the warranty.

## Important Tips When Parking:

- 1. When pushing the bike manually, turn off the power to avoid unintentional acceleration and accidents.
- 2. It is recommended to park indoors, in a dry secure area.
- 3. In a public place, the bike must be parked in accordance with local traffic rules. Do not forget to switch off the power, remove the key, and lock the bike well to something solid. Note: Not all models have an ignition switch. The S03, S04 and S07 series ebikes do not have an ignition style power on/off switch for your display. The key on those models is simply a battery locking mechanism.

## Driving

## How to Start Up the Ebike:

For the S05 and S18 series, insert key and turn it to the ON position. The display will turn on, indicating that the bike is powered on.



Press the key in slightly deeper to lock and unlock your battery. Insert key, do not press it in deep, and gently turn forward or right to activate the display.



Top left is indicating the battery power. Bottom left is indicating the PAS pedal assist level.

Level 0 = That's 100% all you Level 1 = 20% motor 80% you Level 2 = 35% motor 65% you Level 3 = 50% motor 50% you Level 4 = 65% motor 35% you Level 5 = 80% motor 20% you

## Basic Maintenance

## For a safe driving experience, please keep your bike in optimal riding condition. Maintenance should be performed on a regular basis.

## Regular Self-Checks

- 1. Test for tightness and alignment of the handlebars, and align/tighten if needed.
- 2. Tighten wheel lug-nuts, test for correct tire free rotation and wheel alignment.
- 3. Maintain a tire pressure of 30 PSI (or PSI as specified on your tire wall) at all times.
- 4. Check for correct gear-shift operation.
- 5. Test braking systems for kinks, bends, or too much tension on the brake line. These can temporarily disable the motor.
- 6. If you do not use the bike for long periods of time, charge the battery every 45-60 days, to prevent reducing battery life span.

## Maintenance and Cleaning Tips

- 1. Do not wash your ebike with high pressure jets or water may infiltrate and destroy the electrical system.
- 2. Dirt on painted surfaces should be removed with a non-abrasive cleaner and then, wiped with a clean soft dry cloth.
- 3. Lubricate chain, always remove any debris, dust and dirt/sand. Do not apply lubricant on the brakes, brake levers, rims, tires, battery and controller.
- 4. This bike has a top speed limiter. For security reasons, it's removal is strictly prohibited. Removal voids the warranty.

## Diagnose and Troubleshoot

Symptoms	Possible Causes	Most Common Solutions
It does not start	<ul><li>(1) Insufficient battery power</li><li>(2) Faulty connections</li><li>(3) Key in wrong position</li></ul>	<ul><li>(1) Charge the battery</li><li>(2) Clean the connections</li><li>(3) Turn the key into the correct position</li></ul>
Irregular acceleration and/or reduced top speed	<ul><li>(1) Insufficient battery power</li><li>(2) Loose throttle magneto</li><li>(3) Damaged throttle spring</li></ul>	<ul><li>(1) Charge the battery</li><li>(2) Weld and adjust or replace throttle</li><li>(3) Contact a qualified service centre or replace throttle</li></ul>
Bike powers on, motor does not engage	<ul> <li>(1) Loose wiring</li> <li>(2) Loose throttle magneto</li> <li>(3) Loose or damaged motor wiring plugs</li> </ul>	<ul><li>(1) Repair and/or reconnect</li><li>(2) Weld and adjust or replace throttle</li><li>(3) Contact a qualified service centre or replace throttle</li></ul>
Reduced range	<ul> <li>(1) Low tire pressure</li> <li>(2) Low or faulty battery charge</li> <li>(3) Driving with too many hills headwind, breaking, departures and excessive load.</li> <li>(4) Battery discharged for long period of time, without regular charges, aged or damaged</li> </ul>	<ul> <li>(1) Adjust the tire pressure</li> <li>(2) Check the connections and/or fully charge the battery for 10-12 hours.</li> <li>(3) Help with the pedals</li> <li>(4) Make a prolonged 10-12 hour battery charge. Replace the battery if damaged or at end of life</li> </ul>
The battery won't charge	<ul> <li>(1) Charger not well connected</li> <li>(2) Battery case fuse blown</li> <li>(3) Battery wiring disconnected or with a bad contact</li> </ul>	<ul><li>(1) Adjust the connections</li><li>(2) Replace the fuse</li><li>(3) Have a qualified service centre reconnect/repair the wiring</li></ul>
Driving wheel makes strange noises	(1) Damaged motor bearing (2) Bent or misaligned rim	(1) Replace the bearing / Drop off at qualified service centre (2) Adjust/Replace the damaged rim

## For your safety, perform regular maintenance and tightening checks. If you find anything abnormal, repair immediately.

Parts	Torque Required (Nm)
Handlebar	18-20
Handlebar-stem	18-20
Saddle	18-20
Seat-pillar	18-20
Front Wheel	16-25
Rear Wheel	25-35
Bottom Bracket Parts	35-55

## LCD Display & Controller Operating System





#### What is the distance I can go on a single charge?

Many variables impact how far you will be able to travel on a single charge. Wind, hills, weight load, level of power assist, as well as rider size, all impact on the range. Typically a ride is powered between 35-45 Km to 70-90 Km. When you pedal, you extend your range. The more you pedal, the less power your motor consumes, the longer you will be able to travel!

#### How fast does it go?

Our ebikes are limited to a top speed of 38-45 Kph by design. The ebikes are programmed to a max speed of 32 Kph as per Canadian law but can be unlocked quickly by the user via the LCD display for off-road adventures.

### How much power does it have?

S05, S07B, S07D, S18 and S18Mini have Bafang 48V 500 Watt motors S03 and S04 models have Bafang 36V 350 Watt motors

#### How do you control the motor?

Our ebikes are equipped with both a throttle and a pedal sensor. You can use either system to control the motor. If you want to cruise without pedalling, the twist throttle can be used, or if you enjoy pedalling and want to feel more like you are riding a regular bike (with an awesome silent electric motor) you can use the pedal sensor by entering one of the 5 levels of pedal assist.

#### What is pedal assist, how does it work, and why do your ebikes have it?

Pedal assist uses a cadence sensor built into the drive train of the ebike which reads when you pedal and automatically turns the motor on to provide assistance. Start pedalling and the sensor tells the motor to turn on. You can adjust the level of assistance with the LCD screen with 1 being the lowest amount of assistance to 5 being the highest amount of assistance. Using your ebike in pedal assist mode will generally result in a longer ride through conservation of your battery. Throttle only mode will drain your battery the fastest & the pedal assist level 1 allows you to ride the furthest.



### How many charges will my battery last for?

The lithium-ion battery cells will provide approximately 800 "complete" charge cycles before a replacement is recommended. A complete charge cycle is considered one complete discharge, so if you only discharge the battery halfway before recharging, it would mean you can recharge it 1600 times.

### Does the battery have a memory effect?

No, the battery has no memory effect, meaning you can charge your battery after each and every use, even if you just take a spin down the block. The battery is completely self managing and the charger will stop charging and go to trickle mode automatically when the battery is fully charged. That said, do not trickle charge for more than 24 hours.

### How long does it take to charge the battery?

On average the battery takes 4-6 hours to charge with the included 2 amp charger, but that time is cut considerably on shorter trips where you only partially discharge the battery pack.

### Do I have to pedal?

No, you do not need to pedal! There is both a twist throttle and a pedal assist system. You can pedal and the electric motor will kick in and provide you with assistance, but there is also a twist throttle that will override the pedal assist and allow you to ride the ebike more like a motorcycle, only silent! The level of pedal assist will determine how much boosting power the motor provides. Level 1 will be just a little pedal assist and Level 5 will get you moving fastest. The throttle is set to be 0 to 100% on demand power depending on how much you twist your wrist.



### Do your ebikes have regenerative braking?

No, instead of using a direct drive hub motor which would allow the ebike to have regenerative braking enabled, we opted for a brushless geared hub motor which increases the efficiency on hills and at lower speeds. The geared hub motor also freewheels when you are coasting or just pedalling making it feel more like pedalling a regular bike without fighting the cogging or magnetic resistance of regenerative braking systems.

### Is it street legal?

Electric bikes are considered bicycles and can be used in the same way as a pedal only bicycle in most locations, however there are a multitude of localities with restrictions so users must check with local law enforcement to be sure they are riding within the law.

Users should check and follow their local regulations on peak power. It is normally 500 Watts per axle in Canada with a top speed limit set to 32 Km/h. Ebikes-Canada brand ebikes are all under 500 Watt per axle unless clearly stated in the product title and description. Our Ebike-Canada brand ebikes are programmed at the factory to be limited at 32 Km/h for use on Canadian public roads, but can be unlocked via programming for off-road use.

It is our duty as ecyclists to obey the rules of the road so please ride responsibly, share the road, and enjoy the ride.

#### Will your ebike fit me?

Our ebikes are built for adults and are suitable to most people between 152 cm and 195 cm (5'0" and 6'5"). We do offer options and accessories for both smaller and larger riders. Fat tires add height to the ebike so they tend to be better suited for taller people and we also offer a full-suspension fat tire S-18 model with 20"x4" tires that may suitable for some of the shorter riders



### What is the weight limit?

The recommended weight limit for our 48V 500W ebikes is 300 lbs or roughly 140 kg including rider and gear. The recommended weight limit for our 48V 500W ebikes is 240 lbs or roughly 110 kg including rider and gear.

### Can I put a rear rack on it?

Most of our ebikes already come with rear racks. The exception is our line of full-suspension models S05, S18 and S18-20 series which are not designed to be able to accommodate a normal rear bike rack.

### How will it perform on hill?

Hill performance depends on the weight of rider and gear, the steepness of the hill, as well as some other factors like wind and weather conditions. The 48 volt 22 amp motor controller will provide the best performance on hills but the 36 volt 15 amp combination we use on our S03 & S04 models tends to pleasantly surprise most that go for a test ride.

### What is the lowest and highest the seat sits off the ground?

On most models, on average, with the seat post fully extended, the top of the saddle sits around 45'' from the ground and at its lowest point the seat is around 29-31" from the ground.

### How much does the bike weigh?

The weight of our ebikes (including battery) are listed in the product description of this user manual.

### How much does the battery pack weigh?

A battery weighs roughly 7-9 lbs (3-4 kg) depending on the capacity and style of the battery.



### How many gears does the ebike have and why does it have gears if it is electric?

The ebike has a thumb shift Shimano 7-speed gearing system. We find that users rarely change gears because the electric motor takes away all the strain. It is still useful to have gears whenever you decide to pedal while cruising, or trying to get more exercise, or looking to extend your range. The combination of mechanical gears, and the 5 levels of variable pedal assist power ensures that you can always find the most efficient gear and power assist level to comfortably go the distance.

### Is there a power usage or battery gauge on the bike?

Yes, there is a full screen LCD display. There is also an additional LED battery gauge on the battery pack. 2x the info!

### How do I lock it up and what can I do to help minimize the chance of it being stolen?

The ebike has some great anti-theft features including a locking battery pack that can either be locked onto the frame or removed and brought inside for charging and safe-keeping. The rear wheel is bolted down to the dropouts to reduce the chances of a thief stealing the wheel from the bike. Most standard U-locks and cable locks work fine to secure the ebike. We recommend using the strongest possible lock you can get when securing your ebike.

### Does it work in the rain?

The components are all water resistant and work well in wet conditions, but you should take care to keep your bike parked indoors whenever possible, and in a dry location when in storage. The display, motor, battery pack, and throttle are all designed to operate fine in heavy rain, normal drizzle, or a soggy wet commute to work, but you should always take care to dry off your bike and to store it properly between use. The Bafang motor & display are IP65 waterproof rated.



### WARRANTY AND REPAIR

### Can I replace or add parts to the ebike?

If you require replacement parts check with your local bike experts or reach out to us if you have any questions about compatibility Adding unapproved after market parts may void the warranty. The motor and controller were programmed to work together and perfectly balance the energy loads, adding additional parts may cause conflict with this balance.

#### How do I replace the tires when they have worn?

Your tires are on standard 26" or 20" rims. The tires can be purchased and replaced at your local bike shop.

#### What is the warranty?

Every bike is covered under our manufacturer's one-year warranty, for the original owner, against manufacturing defects. It covers the motor, battery, controller and display for 1 full year. Damage that occurs during shipping is also covered under warranty.

#### What will we do to correct a problem with your ebike?

Any damaged components that are covered under warranty will be replaced. We will assist you in replacing any defective part through our warrant ticket tracking system. We could provide written instructions, video tutorials, and use other means to instruct you on how to Correct the issue reported.

#### What is not covered?

Items that are classified as consumables (parts that are designed to wear out over time) are not covered under warranty. Parts such as tires, paint, tubes, brake pads, chains, etc.... are classified as consumables and are not covered under a limited manufacturer warranty. We do carry some accessories and consumables, and you can order from us.



Elikes-Canada

www.Ebikes-Canada.com