HAVEN

BICYCLE CO.

POWER FOLD FOLDING E-BIKE OWNER'S MANUAL

THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION.
PLEASE READ AND KEEP THIS MANUAL FOR FUTURE REFERENCE.





Motorized bicycles are new to most riders so in the interest of safe cycling make sure you read, understand, and follow all the instructions in this manual for your safety and the safety of others around you!

This manual contains important safety signal words such as **DANGER**, **WARNING**, **CAUTION**, **IMPORTANT**, and **NOTE** or **NOTICE**. **These are important signal words telling you to pay special attention to that text as rider safety is involved.**

A This symbol will appear in areas of critical rider safety.

A DANGER and **WARNING:** Pay special attention to these words since failure to do so could result in serious injury or death to the rider or others.

CAUTION: If not followed these instructions could result in injury to the rider, or mechanical failure or damage to the bicycle.

NOTE or **NOTICE** or **IMPORTANT:** These specify something that is of special interest. Read and pay close attention as your safety, that of your bicycle, and others around you are involved.

IMPORTANT: Read the **BEFORE RIDING** section and check that all parts are installed and working as per this manual. If you understand how the bicycle operates, you will get the best performance. When you read this manual, compare the illustrations to the bicycle. Learn the location of all the controls and parts as well as how they work. **KEEP THIS BOOK FOR FUTURE REFERENCE.**

CAUTION Before you ride the bicycle, check the brakes and all other parts of the bike. Make sure all parts are assembled correctly, securely tightened and working properly. Take your first ride in a large, open, level area away from traffic. If you have a problem, consult your dealer.





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PREFACE

WARNING: Electric bikes are fun to ride but can be dangerous if not used properly. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising as a result of using the bicycle.



DO NOT DISASSEMBLE, MODIFY OR REPLACE ELECTRICAL PARTS. If you need to change any parts, please buy our standard parts from your local dealer or contact us if parts are not available to you.



NOTE: YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS OR LOSS INVOLVING THE USE OF THIS BICYCLE. TO DETERMINE IF COVERAGE IS PROVIDED YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT BEFORE USE.

Your bike has been delivered to you fully assembled. If parts of your bike have not been installed, please consult your dealer to arrange for final assembly. **This manual contains important safety, performance and service information. Read before riding.** The purpose of this Owner's Manual is to help you use your bike safely in the manner it is intended and allow you to enjoy the benefits it offers for many years to come. **Please read this manual completely before you take the first ride on your new bicycle, and keep it for reference.**

Additional safety, performance and service information for specific components such as suspension or pedals on your bicycle, or for accessories such as helmets or lights that you purchase, may also be available. Make sure that your dealer has given you all the manufacturers' literature that was included with your bicycle or accessories.

If you have any questions or do not understand something, take responsibility for your safety and consult with your dealer or the bicycle's manufacturer.

IMPORTANT: This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please see your dealer for all service, repairs or maintenance. Your dealer may also be able to refer you to classes, clinics or books on bicycle use, service, repair or maintenance.



ALWAYS WEAR A PROPERLY FITTED HELMET WHEN YOU RIDE YOUR BICYCLE. DO NOT RIDE AT NIGHT. AVOID RIDING IN WET CONDITIONS. MAKE SURE YOUR HELMET IS PROPERLY ON YOUR HEAD AND SECURELY FASTENED.

NOTE: Max weight of rider+luggage = 265lbs/120kg





PREFACE

RESPONSIBILITY OF THE OWNER!

IMPORTANT: Reading and following the information and instructions in this manual are essential to the ability of the owner or any other persons allowed to use this bicycle to ride safely.

- 1. It is the responsibility of the owner or in the case of a younger rider, the parents of the rider to be certain all assembly instructions have been followed, even if the bike has been assembled by the seller or a professional assembly company. Check all components before riding.
- 2. Brakes are essential to rider safety. Be sure they are checked and working properly before each use. Remember that any mechanical system changes condition during use and must be maintained and checked before each use.
- 3. Rules for bicycle use (bicycle laws) vary from location to location so be certain the rider knows and understands the rules that apply to bicycle usage in all areas where the bicycle will be used. Wearing a helmet, light or reflective clothing, using lights and reflectors are examples of rules which may exist and which make sense as rider safety precautions at all times.
- 4. Know how to operate the bicycle and all equipment on it before first use and be certain anyone allowed to use the bike knows how to properly and safely use the bike as well and its controls.
- 5. There are many different types of bicycles and often these types are designed for different uses. Make sure you know what type unit you have and do not exceed its service limitations. Be sure you check and understand the bicycle classifications set in this manual, including size of the unit that is proper for the rider to insure good control during use. Riders who are too small or large may have control problems. Do not overload a unit with a rider that is too heavy or too large, and do not attempt to carry extra passengers, packages or loads on the bicycle. Do not use street bikes for off road riding.
- 6. Your electric bike is water-resistant, but must be properly maintained to preserve this condition. Please do not submerge the bicycle or any electric components in water. Water entering electric components can cause a short circuit and damage the electric components with possible injury to the rider and others. Imersion in water can also cause long term damage to the bicycle.
- 7. The battery's performance can be effected by its environment. Generally speaking, battery's discharge performance is better in a higher temperature. Electric power will drop by more than 1/3 when the temperature is below 32°F (0°C). Thus, this e-bike's riding distance per charge will become shorter in winter or cold areas. It returns to normal / optimal when the temperature is higher than 68°F (20°C).
- 8. Do not put any metal objects in charge hole or battery circuit, it may cause a short circuit, start a fire, or cause an explosion with personal injury or property damage.





PREFACE

A CAUTION: For your safety you must carefully read this manual and follow its instructions. Your bicycle may come with additional instruction sheets that cover features unique to your bike. Please ensure that you read and become familiar with their contents and retain them with this manual for future reference. Remember bicycles, in most areas, are subject to the same laws, rules, and regulations as motor vehicles.

Always wear a CPSC approved helmet when riding your bike. Make sure your helmet is properly and securely mounted before riding.

Learn and follow local and state traffic use laws.

Any major service or adjustments on your bike not covered in this manual should be carried out by your bicycle dealer. If you wish to make adjustments yourself, this manual contains important tips on how to do it.

CAUTION: Any adjustments you make are entirely at your own risk. Do **NOT** use your bike for freestyle and stunt riding, jumping or competitive events. Even if you are riding a mountain bike. you should know that off-road use or any similar activities can be dangerous, and you assume the risk for personal injury, damages or losses incurred from such use. Do not ride vour bike when any part is damaged or not working properly. You must, for your safety and the safety of other users, consult your bicycle dealer for any questions on repairs or maintenance.

WARNING: As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components react to wear or stress fatigue in different ways. As your bicycle ages, you should inspect it more frequently to look for deformed, cracked, bent, or loose components. Such conditions may lead to sudden failure. This may possibly cause injuries to the rider. If something is cracked or broken - take the bicycle to your dealer for inspection and repair as needed.



Forehead Exposed

Forehead Covered

A properly fitting, CPSC approved, bicycle helmet should be worn at all times when riding your bicycle.

> The correct helmet should: - be lightweight and comfortable - have good ventilation

- cover the forehead and fit the user correctly - be securely fastened on the rider's head

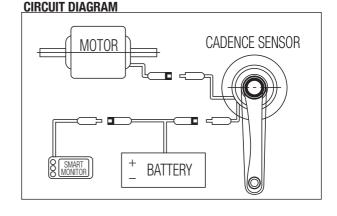


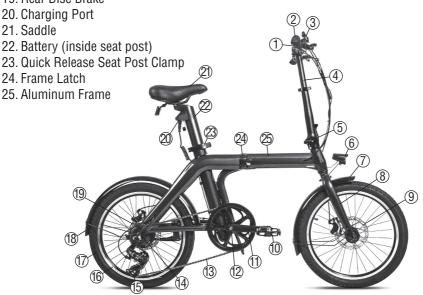
PARTS IDENTIFICATION

- 1. Smart Monitor (Power Switch)
- 2. Handlebar
- 3. Brake Lever
- 4. Adjustable Handlebar Post
- 5. Handlebar Latch
- 6. Front Light
- 7. Front Fender
- 8. Fork
- 9. Front Disc Brake
- 10. Pedal
- 11. Pedal Crank Arm
- 12. Cadence Sensor
- 13. Chain
- 14. Motor
- 15. Rear Derailleur
- 16. Wheel
- 17. Tire
- 18. Rear Fender
- 19. Rear Disc Brake
- 20. Charging Port
- 21. Saddle
- 22. Battery (inside seat post)











- 1. AWARNING ON AND OFF ROAD CONDITIONS: The condition of the riding surface is very important to your safety as a bike rider. If the surface is wet, or has sand, leaves, small rocks or other loose debris on the surface where you plan to ride, carefully decrease the speed of the bicycle and ride with extra caution. It will take a longer time and more distance to stop. Apply the brakes sooner and with less force. Always apply the rear brake first allowing time and distance for it to take effect. Then follow by cautiously applying the front brake, in order to maintain control of the bicycle. Rapid front brake application first may cause a front pitch over or fall. Learn to use your brakes properly under controlled conditions until you learn proper braking under all road conditions.
- **2. NOTICE:** State and federal regulations require a full set of reflectors. Some state and local laws may require that your bike be equipped with a warning device, such as a horn or bell and most states require a light. The manufacturer and many legal authorities **DO NOT** approve or encourage riding at night. Vision is quite limited at dawn, dusk and at night for bike riders, motorists and by-standers. If you must ride at night, take extra precautions, use front and rear lights, wear flashers on your arms, wear light-colored clothing, and plan your route to ride in well lighted areas avoiding heavy traffic areas.
- 3. When riding, ALWAYS WEAR A CPSC APPROVED BIKE HELMET. It may save your life.
- **4. NOTE:** Always wear shoes when riding a bicycle and avoid loose fitting clothes. Wear a cuff band or trouser clip to keep pants or other loose clothing from getting caught in the chain wheel. Long sleeves, long pants, gloves, eye protection, a CPSC approved helmet, elbow and knee pads are recommended.

 $oldsymbol{oldsymbol{\mathbb{A}}}$ Helmet use is required by law in many states and is always a good idea for your safety.

- **5. CAUTION: WET WEATHER WARNING:** Check your brakes frequently. The ability to stop is critical to your safety. Roads are slippery in wet weather so avoid sharp turns and allow more distance for stopping. Brakes become less efficient when wet. Leaves, loose gravel and other debris on the road can also lengthen stopping distance. If at all possible, do not ride in wet weather. Vision and control are impaired, creating a greater risk of accidents and injury.
- **6. CAUTION:** A bicycle rider's best defense against accidents is to be alert to road conditions and traffic in the area. Do not wear anything that restricts your vision or your hearing.
- **7.** Obey all traffic regulations. Most traffic regulations apply to bike riders as well as automobile operators. Observe all state and local traffic regulations, signs and signals. Check with your local police station on bicycle licensing and inspection, and where it is legal to ride your bike.





- **8.** Keep to the **RIGHT SIDE** of the road. Follow the traffic flow in a straight line close to the curb or edge of the road. Watch out for opening car doors and cars moving in and out of traffic. Use caution at intersections.
- **9.** Never carry passengers. This is dangerous and it makes the bicycle harder to control. Never carry anything that can reduce your ability to control the bicycle.
- **10.** When riding in pairs or in larger groups, form a single line along the right side of the road. Set up a sensible distance between riders. Don't follow too closely.
- **11.** Always be alert. Animals or people may dart in front of you. Give pedestrians the right-of-way. Don't ride too close to pedestrians, and don't park your bicycle where it can get in the way of foot/vehicle traffic.
- **12.** Be careful at all intersections. Slow down and look both ways before crossing. Obey all traffic control signs.
- **13.** Use hand signals. Always let other drivers and pedestrians know what you are going to do. Signal 100 ft. before turning unless your hand is needed to control the bike.
- **14. WARNING: NIGHT TIME OPERATION:** We do **NOT** recommend riding your bike at night. If you have an emergency that requires you to ride at night you must have proper lights and reflectors. NEVER ride at night without a helmet, taillight, a white front reflector, a red rear reflector, pedal reflectors and white wheel reflectors. You must be able to clearly see the surface where you are riding and be seen by others.
- **15.** Never hitch rides. Never hold onto moving vehicles while riding. Never stunt ride or jump your bike.
- **16. ON AND OFF ROAD OPERATION:** Avoid the following road hazards: drain grates, pot holes, ruts, soft road edges, gravel, leaves (especially when they are wet), uneven pavement, railroad crossings, manhole covers, curbs, speed bumps, puddles, and debris as all have an effect on your riding and may result in loss of control. Adjust your speed and the way you use your brakes if you must ride in such areas.
- **17.** If any components becomes loose while riding, **(STOP!!)** immediately and tighten, or bring to a mechanic for repair.
- **18.** If your bicycle is equipped with a quick release feature on the front and rear hubs, seat post, stem, it should be checked for proper assembly and tightness **BEFORE** each ride.





Just a minute spent before each ride can significantly improve your safety and the enjoyment of your ride. **EACH TIME** before you ride make a habit of performing the following safety checks:

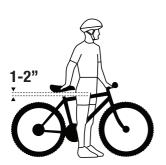
- Stand in front of the bicycle facing rearward and hold the front wheel securely between your legs. Try to twist the handlebar and verify that it does not move.
 Then pull the handlebar up, trying to lift the bike. There should be no movement.
- Try to push the front wheel from side to side and confirm that it feels tight and will
 not wobble. Lift the front wheel up by the handlebars and strike the wheel downward
 with the heel of your hand to confirm that it is securely attached to the bicycle. Spin
 the front wheel and confirm that it does not wobble or contact the fork.
- Try to lift/push down on and twist the seat to confirm it is tight.
- Look at the connection of the pedals to the crank arm. You should not see pedal screw threads and the pedal should feel firm and be parallel to the ground. Replace any damaged pedals.
- Apply your brake(s) and make sure they feel firm to the touch, and then spin the wheel(s). Apply the brakes. The brakes should stop the wheel(s) promptly.
- Check to be sure that the fenders, chainguard, and accessories (if equipped) are firmly attached and will not contact any moving parts. Make sure all reflectors are in position and not broken. Make certain any lights on the bicycle are in working order.

Now, put on your **BICYCLE SAFETY HELMET** and enjoy your ride. Your safety is well worth *just a minute*. Also, be sure to read and follow the warnings and instructions in this manual, on the bicycle, or supplied by the dealer.



CORRECT FRAME SIZING:

When selecting a new bicycle, the correct choice of frame size is a very important safety consideration. The ideal clearance will vary between types of bicycles and rider preference. This makes straddling the frame when off the saddle easier and safer in situations such as sudden traffic stops. Women can use a man's bicycle to determine the correct size women's model.





THERE SHOULD BE A CLEARANCE OF NO LESS THAN 1-2 INCHES BETWEEN THE GROIN AREA OF THE INTENDED RIDER AND THE TOP TUBE OF THE BICYCLE, WHILE THE RIDER STRADDLES THE BICYCLE WITH BOTH FEET FLAT ON THE GROUND.

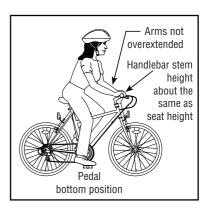


THE SEAT POST "MINIMUM INSERTION" / "MAXIMUM HEIGHT"
MARK SHOULD NOT BE VISIBLE WHEN THE SEAT POST IS
INSERTED INTO THE SEAT MAST OF THE BIKE. DO NOT RAISE THE
SEAT POST BEYOND THIS MARK. THE SEAT POST OR FRAME MAY
BREAK CAUSING YOU TO LOSE CONTROL AND FALL. ALWAYS
CHECK TO MAKE SURE THE SEAT POST ADJUSTING MECHANISM
AND HANDLEBARS ARE TIGHTENED SECURELY BEFORE RIDING.

RIDING POSITION

SADDLE HEIGHT

In order to obtain the most comfortable riding position and offer the best possible pedaling, correct saddle height should not allow leg strain from over-extension, and the hips should not rock from side to side when pedaling. While sitting on the bicycle with one pedal at it's lowest point, place the ball of your foot on the pedal. The correct saddle height will allow the knee to be slightly bent in this position.



REACH

To obtain maximum comfort, the rider should not over extend his or her reach when riding. There should be a slight bend in the rider's elbows. Refer to the section regarding seat and seat posts to learn how to adjust the seat post height.





UNFOLDING THE BICYCLE

STEP 1: Separate the frame's magnetic buckle. Unfold the frame and lock the frame latch lever. Verify it is securely locked in place.







STEP 2: Lift the handlebar post from folded position and lock the handlebar latch lever. Verify it is securely locked in place.













UNFOLDING THE BICYCLE - continued

STEP 3: Open the seat post clamp. Adjust the seat height. Lock the clamp to hold position.







STEP 4: Open the QR clamp on the handlebar. Adjust the handlebar height. Lock the clamp to hold position.















FOLDING THE BICYCLE

STEP 1: Open the QR clamp on the handlebar. Lower the handlebar. Close the clamp.







STEP 2: Open the seat post clamp. Lower the seat height. Close the clamp.









FOLDING THE BICYCLE - continued

STEP 3: Open the handlebar latch lever. Fold the handlebar post over.



STEP 4: Unlock and open the frame fold latch lever. Fold frame front to back. Connect frame's magnetic buckle.







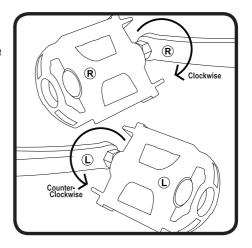


PEDAL ASSEMBLY

- 1. Apply a small amount of grease to the threads of each pedal. Look for the letter "L" or "R" on the side or end of each pedal spindle (picture). Turning the spindle clockwise by hand (Picture), thread the pedal marked "R" into the crank arm on the right (drive) side of the bicycle. Make sure that you are not "cross-threading", which can strip the threads in the crank arm. If the threads do not turn easily, don't force them. Back the spindle out and start over. Once the pedal is threaded into the crank arm, tighten the spindle securely to the crank arm with a 15mm open end or an adjustable wrench.
- 2. Turning the spindle counterclockwise by hand, thread the pedal marked "L" into the crank arm on the left side of the bike. Make sure that you are not "cross-threading", which can strip the threads in the crank arm. If the threads do not turn easily, don't force them. Back the spindle out and start over. Once the pedal is threaded into the crank arm, tighten the spindle securely to the crank arm with a 15mm open end or an adjustable wrench.

WARNING! IMPROPERLY INSTALLED AND TIGHTENED PEDALS CAN WORK LOOSE, DAMAGING THE BICYCLE AND CAUSING POSSIBLE SERIOUS INJURY OR DEATH TO THE RIDER.

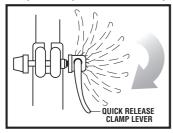
Torque Requirement 15-18 ft. lbs.



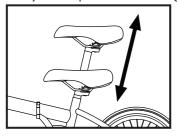


SEAT HEIGHT ADJUSTMENT

1. Open the quick release seat post clamp.



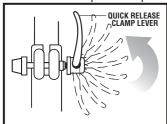
2. Adjust seat post to desired height.



The seat post "minimum insertion"/
"maximum height" mark should not be
visible when the seat post is inserted into
the seat mast of the bike. Do not raise the
seat post beyond this mark. The seat post
or frame may break causing you to lose
control and fall.

Always check to make sure the seat post adjusting mechanism is tightened securely before riding. Riding with an improperly tightened seat post can allow the seat to turn or move and cause the rider to lose control and fall with possible injury.

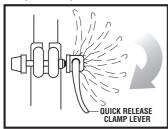
3. Close the seat post clamp locking securely into position.



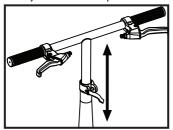


HANDLE BAR HEIGHT ADJUSTMENT

1. Open the quick release handlebar post clamp.



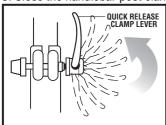
2. Adjust handlebar post to desired height.



The handlebar post "minimum insertion"/ "maximum height" mark should not be visible when the post is inserted. Do not raise the handlebar post beyond this mark. The post or frame may break causing you to lose control and fall.

Always check to make sure the handlebar post adjusting mechanism is tightened securely before riding. Riding with an improperly tightened handlebar post can cause the rider to lose control.

3. Close the handlebar post clamp locking components into position.





This is a 20" folding EPAC with a 350w rear hub motor, allowing you to pedal up to 15mph with motor power assistance. With a seatpost-integrated 36V/7.5Ah battery, a full battery charge can cover a 20~25 mile trip

START YOUR E-BIKE:

Press the ON/OFF BUTTON on the monitor display for 3 seconds. The monitor display will turn on.

Once the monitor display are ON, verify that the Power Meter shows sufficient charge for your ride. If the battery power is considered too low for your ride, please charge the battery as per instructions.

START YOUR RIDE:

Once you begin riding, you can choose the appropriate assistance level using the INCREASE MOTOR ASSIST [>] or DECREASE MOTOR ASSIST [<] buttons on your display. The motor will assist you once you start pedaling. There are 6 levels of assistance on the display.

NOTES DURING RIDING:

Frequent braking and again accelerating will deplete the battery faster. The motor will stop assisting once you stop pedaling. Your e-bikes rated maximum load is 265lbs (120kg) including the rider, do not overload.



WARNING: When stopped, turn off the battery in case the crank arm keeps turning while you push the bike. The motor would start suddenly which may lead to an accident.

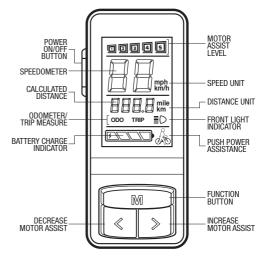
FOR YOUR SAFETY, PLEASE MAINTAIN AND CLEAN YOUR E-BIKE REGULARLY.



MONITOR DISPLAY:

Your e-bike is equipped with an smart monitor display that monitors motor assist, speed, odometer, trip distance, riding time, and battery energy level. To turn the meter on, make sure the battery is charged in the e-bike and the on/off switch is in the on position.

Press the power on/off button on the button selector located near the left grip on the handlebars to turn the meter on. You can adjust the motor assist power level to have more power by hitting the INCREASE MOTOR ASSIST [>] button



and can move to a lower level power by hitting the DECREASE MOTOR ASSIST [<] button.

During your ride, you will notice that the motor assist function is active and motor will provide assist power when you pedal forward.

Motor assist power varies from level 0 to level 5. At level 0, there's no motor assist power and you can ride the e-bike like a normal bicycle; at levels 1, you will get 30% of the max motor assist power; at level 2, you will get 50% of the power; at levels 3, the assist power goes up to 65%; at level 4, it will reach 85%; while at level 5, you will get 100% of the assist power. Either you want to exert yourself, or enjoy outdoor leisure or ease off during climbing, it's up to you to choose the appropriate levels of assist for different riding conditions.

The bars of the battery charge indicator display the amount of power remaining in the battery. The more bars that are displayed, the more battery power available.

After 10 minutes of inactivity, the LCD display will automatically turn off to conserve power. You can also turn off the display by pushing the ON/OFF BUTTON for several seconds when not riding.

FUNCTIONS OF THE MONITOR DISPLAY:

- Battery charge indicator
- Choosing motor assistance level from 0 5
- Speedometer / Odometer
- On/Off Button





HOW TO CHARGE THE BATTERY:

This e-bike comes with a 100~240V broadband charger. With the monitor display off, plug the DC end of the charger into the battery charging port on your e-bike, and then plug the AC end into a standard household power outlet. The charger indicator remains red when the battery is being charged, and it turns green when the charging is complete and the battery is fully charged.

It takes about 3-5 hours to fully charge a battery. When the charging is complete, make sure to unplug the charger from the power outlet before disconnecting it from the e-bike

This is a lithium battery, it has no memory effect, so you can charge or discharge anytime. In normal circumstances, the battery can be used for more than 2 years. Recharge the battery every 60 days when not in use to maintain its functionability.

NOTES FOR CHARGING:

- Make sure to charge your bike before rides. Do not attempt to ride with too little power available.
- PLEASE CHARGE THE BATTERY IN A DRY, WELL VENTILATED AREA WITH ADEQUATE POWER SUPPLY.
- To protect the battery, only use the original charger. Please do not use this charger to charge other e-bike batteries.
- The charger contains a high-voltage circuit. Do not dismantle it.
- Please avoid any liquid or foreign substance from entering the charger. Please protect the charger from impact. Never let it drop or drop objects onto it.
- Do not cover the charger when it is charging.
- Please keep and use the charger in a dry and well ventilated area.
- During charging, if the charger emits any smell or it becomes excessively hot, you must stop charging and send or take it to your dealer for inspection and repair.



SHIFTING GEARS:

Your bike is equipped with 7 speeds. The first gear is for easier and uphill pedaling, and the last gear is for maximum speed on level or downhill terrain. Change gears only while pedaling. The rear wheel contains seven chain sprockets. When the chain is around the largest sprocket, you are in 1st gear, or the lowest gear. The high gear will have the derailleur positioned so that the chain is directed around the smallest gear. Every position on the gear selector should cause a gear change. Adjustments require fine tuning and should only be made by a qualified technician.

NOTE: Avoid changing gears very rapidly from first gear to the last gear or vice versa. If you change multiple gears too quickly, you could have the chain come off the front sprocket.



WARNING: ONLY SHIFT GEARS WHILE PEDALING! Shifting gears while using only the motor assist can cause the chain to become loose or come off the bike.

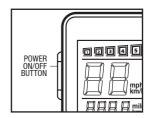


SMART MONITOR DISPLAY

Your Haven folding e-bike is equipped with a Smart Monitor Display. This monitor display is powered by the bike's battery. The bike must be powered on for the monitor display to function.

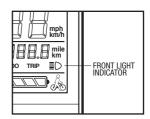
TURNING THE MONITOR DISPLAY ON:

To power on the monitor display, press and hold the ON/OFF BUTTON. To turn the monitor display off, press and hold the ON/OFF BUTTON. **PLEASE NOTE: When the bike is not used for 10 consecutive minutes, the monitor display and the power supply will automatically shut off.**



TURNING ON THE BIKE'S HEAD AND/OR TAIL LIGHT:

To turn on the display's backlight function press and hold the INCREASE MOTOR ASSIST [>] button. The bike's head/tail lights (if equipped) will be on default when the display is turned on while the monitor display should show the headlight function icon (\equiv).

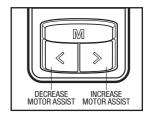




SMART MONITOR DISPLAY

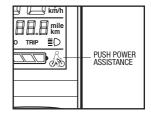
ENGAGING THE MOTOR ASSIST FUNCTION:

To engage and select the motor assist function, press the INCREASE MOTOR ASSIST [>] or DECREASE MOTOR ASSIST [<] and choose your level of assistance. Motor assistance is available in 6 different levels (0-5). Level 1 is minimum assistance. Level 5 is maximum assistance. Level 0 is no assistance. The assistance level will reset to 1 when the display is powered on.



PUSH POWER ASSISTANCE:

Press and hold the DECREASE MOTOR ASSIST [<] button to engage the push power assistance. When engaged, the symbol will show. The bicycle will not drive more than 3.75mph (6km/h) when push power assistance is active. To disengage, release the DECREASE MOTOR ASSIST [<] button.





SMART MONITOR DISPLAY

Below are the icons that will be used for the monitor display along with their meanings.

<u>ICON</u>	FUNCTION	<u>ICON</u>	FUNCTION
>	INCREASE MOTOR ASSIST	KM/H	RIDING SPEED (METRIC)
O	POWER ON/OFF BUTTON	MPH	RIDING SPEED (IMPERIAL)
\ll	DECREASE MOTOR ASSIST	KM	DISTANCE (METRIC)
	BATTERY CHARGE INDICATOR	MILE	DISTANCE (IMPERIAL)
$\blacksquare \bigcirc$	HEADLIGHT	0D0	TOTAL DISTANCE
	PUSH POWER ASSIST	TRIP	TRIP DISTANCE



Correct routine maintenance of your new bike will ensure a longer life for your bike and a safer ride for you.

Every time you ride your bike, its condition changes. The more you ride, the more frequently maintenance will be required. We strongly recommend you spend a little time on regular maintenance tasks. The following schedules will assist you in knowing what tasks need to be performed and how often. If you have any doubts about your abilities to accomplish these tasks, we recommend you take your bike to a professional bicycle mechanic periodically to have them done.

Schedule 1 - Lubrication

Frequency	Component	Lubricant	How to Lubricate
Weekly	chain derailleur wheels	chain lube or light oil chain lube or light oil	brush on or squirt brush on or squirt
Monthly	derailleurs brake calipers brake levers shift levers	oil oil oil lithium based grease	oil can 3 drops from oil can 2 drops from oil can disassemble
Every Six Months	freewheel brake cables	oil lithium based grease	2 drops from oil can disassemble
Yearly	Bottom braket pedals derailleur cables wheel bearings headset seat pillar	lithium based grease lithium based grease lithium based grease lithium based grease lithium based grease lithium based grease	Bicycle Mechanic disassemble disassemble Bicycle Mechanic Bicycle Mechanic disassemble

Note: The frequency of maintenance should increase with use in wet or dusty conditions. Do not over lubricate - remove excess lubricant to prevent dirt build up. Never use a degreaser to lubricate your chain (WD- 40^{TM})







SERVICE CHECKLIST:

Frequency	Task
Before every ride	Make sure all folding latches are fastened securely
	Check wheel and pedal tightness
	Check tire pressure
	Check brake operation
	Check wheels for loose spokes, loose axle nuts or quick release
	Make sure all fasteners are tightened securely
	Check that all reflectors are present and securely mounted
After every ride	Quick wipe down with damp cloth
Weekly	Lubrication as per schedule 1
Monthly	Lubrication as per schedule 1
	Check derailleur adjustment
	Check brake adjustment
	Check brake and gear cable adjustment
	Check tire wear and inflation pressure
	Check wheels are true and spokes tight
	Check hub, head set and crank bearings for looseness
	Check pedals are tight
	Check handlebars are tight
	Check seat and seat post are tight and comfortably adjusted
	Check frame and fork for trueness
	Check all nuts and bolts are tight
	Check that all reflectors are securely mounted and not damaged
Every six months	Lubrication as per schedule 1
	Check all points as per monthly service
	Check and replace brake pads, if required
	Check chain for excess play or wear
Yearly	Lubrication as per schedule 1

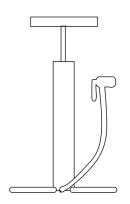






TOOLS REQUIRED FOR MAINTENANCE:

- 1. Open ended wrench or box wrenches: 8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm
- 2. Open end or pedal wrench 15mm
- 3. Allen key wrenches: 4mm, 5mm, 6mm, 8mm
- 4. Adjustable wrench
- 6. Standard Phillips head screwdriver
- 7. Standard slip joint pliers
- 8. Tire pump
- 9. Tube repair kit
- 10. Tire levers



TRAVEL TOOLS:

We suggest you take the following items with you when going on a long bike ride. Tools should be fully secured in a sturdy bag or container attached to the seat or frame of the unit during travel:





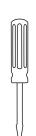


- 1. Spare tube
- 2. Patch kit
- 3. Pump
- 4. Tire levers
- 5. Multi-tool
- 6. Cell phone















WHEEL INSPECTION:

It is most important that wheels are kept in top condition. Properly maintaining your bicycle's wheels will help braking performance and stability when riding. Be aware of the following potential problems:

Dirty or greasy rims:

Caution: These can render your brakes ineffective. Do not clean them with oily or greasy materials. When cleaning, use a clean rag or wash with soapy water, rinse and air dry. Don't ride while rims are wet. When lubricating your bicycle, don't get oil on the rim braking surfaces.

• Wheels not straight:

Lift each wheel off the ground and spin them to see if they are crooked or out of true. If wheels are not straight, they will need to be adjusted. This is quite difficult and is best left to a professional bicycle mechanic.

• Broken or loose spokes:

Check that all spokes are tight and that none are missing or damaged.

Caution: Such damage can result in severe instability and possibly an accide

Caution: Such damage can result in severe instability and possibly an accident if not corrected. Again, spoke repairs are best handled by a mechanic.

• Loose hub bearings:

Lift each wheel off the ground and try to move the wheel from side to side. Caution: If there is movement between the axle and the hub, do not ride the bicycle. Adjustment is required.

Axle nuts:

Check that axle nuts and all fasteners are tight before each ride.







TIRE INSPECTION:

Tires must be maintained properly to ensure road holding and stability. Check the following areas:

Inflation:

Ensure tires are inflated to the pressure indicated on the sidewall of the tire. Improper inflation is the biggest cause of tire failure. Due to the slightly porous nature of bicycle inner tubes, it is normal for your tires to lose pressure over time. For this reason, it is critically important to maintain the proper tire inflation on your bike. Caution: Use a hand or foot pump to inflate tires. NEVER inflate tires with an air compressor at a gas station. This can cause the tubes to over inflate and blowout.

Bead Seating:

When inflating or refitting the tire, make sure that the bead is properly seated in the rim.

• Tread:

Check that the tread shows no signs of excessive wear or flat spots, and that there are no cuts or other damage.

CAUTION: Excessively worn or damaged tires should be replaced. Use of the bicycle is strictly discouraged until worn/damaged tires are repaired or replaced.

Valves:

Make sure valve caps are fitted and that valves are free from dirt. A slow leak caused by the entry of dirt can lead to a flat tire and possibly a dangerous situation.

RECOMMENDED TIRE PRESSURES:

The recommended pressure is molded on the sidewall of your bicycle tires. Always you a quality pressure gauge to check tire pressures when inflating.







HOW TO FIX A FLAT TIRE: If you need to repair a tire, follow these steps:

- 1. Remove the wheel from the bicycle.
- 2. Deflate the tire completely via the valve. Loosen the tire bead by pushing it inward all the way around.
- 3. Press one side of the tire bead up over the edge of the rim. Note: Use tire levers, not a screwdriver, otherwise you may damage the rim.
- 4. Remove the tube, leaving the tire on the rim.
- 5. Locate the leaks and patch using a tube repair kit or replace the tube. Note: Ensure that the replacement tube size matches the size stated on the tire sidewall and that the valve is the correct type for your bicycle.
- 6. Match the position of the leak in the tube with the tire to locate the possible cause and mark the location on the tire.
- 7. Remove the tire completely and inspect for a nail, glass, etc. and remove if located. Also inspect the inside of the rim to ensure there are no protruding spokes, rust or other potential causes. Replace the rim tape which covers the spoke ends.
- 8. Remount one side of the tire onto the rim.
- 9. **Using a hand pump,** inflate the tube just enough to give it some shape.
- 10. Place the valve stem through the hole in the rim and work the tube into the tire. NOTE: Do not let it twist.
- 11. Using your hands only, remount the other side of the tire by pushing the edge toward the center of the rim. Start on either side of the valve and work around the rim
- 12. Before the tire is completely mounted, push the valve up into the rim to make sure the tire can sit squarely in position.
- 13. Fit the rest of the tire, rolling the last, most difficult part on using your thumbs. NOTE: Avoid using tire levers as these can easily puncture the tube or damage the tire.
- 14. Check that the tube is not caught between the rim and the tire bead at any point.
- 15. **Using a hand pump,** inflate the tube until the tire begins to take shape. Check that the tire bead is evenly seated all the way around the rim. When properly seated, fully inflate the tire to the pressure marked on the sidewall. Check tire pressure with a good quality gauge.
- 16. Replace the wheel into the frame checking that all gears, brakes and quick release levers are properly adjusted. Tightly secure the wheel to frame or fork.





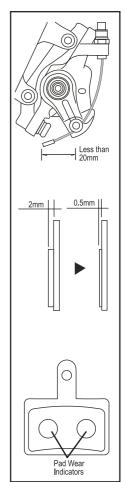


DISC BRAKES:

We suggest that if your bike comes equipped with a disc brake that you consult a professional bicycle mechanic for any adjustments or repair needed for this brake.

SAFETY PRECAUTIONS

- 1. Adjust the inner cable so that the protruding length is less than 20mm. If the protruding length is any longer, the end of the cable may become stuck in the rotor, which could cause the wheel to lock and the bicycle could fall forward causing injuries.
- 2. The calipers and rotor will become hot when the brakes are operated, so do not touch them while riding or immediately after dismounting from the bicycle, you may get burned. Check that the brake components have cooled down before attempting to adjust the brakes.
- 3. Always make sure that the front and rear brakes are working correctly before you ride the bicycle.
- 4. Before riding the bicycle, check that the pad thicknesses are 0.5mm or more
- 5. If noise occurs when the brakes are operated, it may indicate that the brake pads have worn down to their usage limit. After checking that the brake system has cooled down sufficiently. check the brake pad thickness. Replace the brake pads if the wear indicators are visible.
- 6. Be careful not to allow any oil or grease to get onto the rotor and brake pads, otherwise the brakes will not work correctly.
- 7. Check the brake cable for rust and fraying, and replace the cable immediately if such problems are found. If this is not done, the brakes may not work correctly.
- 8. The required braking distance will be longer during wet weather. Reduce your speed and apply the brakes early and gently.











DISC BRAKES: continued

- 9. If the road surface is wet, the tires will skid more easily. If the tires skid, you may lose control of the bicycle. To avoid this, reduce your speed and apply the brakes gently.
- 10. Check that the quick release lever is on the right side (the opposite side to the rotor). If the quick release lever is on the same side as the rotor, there is a danger that the lever may interfere with the rotor causing a sudden stop, which may result in a serious accident. Make sure that it does not interfere by rotating the wheel and making sure it rotates freely. Make sure wheel is securely tightened to forks.
- 11. It is important to completely understand the operation of your bicycle's brake system. Improper use of your brake system may result in loss of control or an accident, which could lead to severe injury. Because each bicycle may handle differently be sure to learn proper braking technique (including brake lever pressure and bicycle control characteristics) and operation of your bicycle. This can be done by consulting a professional bicycle mechanic and referring to the disk brake instruction sheet included with your bike. This can also be done by practicing your braking technique in a safe area before hitting the trails/roads.

CAUTION: Disc brakes have a burn-in period, and the braking force will gradually increase as the burn-in period progresses. Make sure that you are aware of any such increases in braking force when using the brakes during the burn-in period. The same thing will happen when the brake pads or rotor are replaced.







DISC BRAKES: continued

If the brake cable is not connected at the brake lever, line up brake barrel slot with brake lever slot before installing the cable. Slide the head of the brake cable into the brake lever per the diagram. Thread the cable through the slot in the brake lever so the cable end rests squarely in the adjusting barrel. Turn the adjusting barrel to close. (See pg. 20)

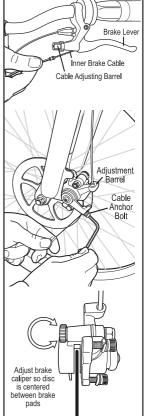
If the brake cable is disconnected at the disc caliper, thread the brake wire through the adjustment barrel, loosen the cable anchor bolt until you can see a hole through the anchor bolt for the cable wire to attach. Thread the cable wire through the cable anchor and tighten by hand.

Centering brake - First determine if the wheel is centered. Look at the space between the tire and the frame on either side. If it is not even, loosen the wheel axle nuts and center the wheel, then proceed to center the brake.

If the brake is not centered, look at the disc brake caliper for centering adjustment screws at the center of the brake pad on either side. Looking down into the brake where the brake pads contact the disc rotor, determine which side needs to move away or towards the disc. Turn the centering adjustment screws so that there is about 1/32 of an inch of clearance on either side of the disc rotor. Spin the front wheel and listen for any rubbing noise or excess friction. Repeat the steps until the brake is centered.

Brake is correctly adjusted when:

- The brake pads do not drag on the rotor when the brake is open.
- When the brake is applied, the brake pads contact the rotor before the brake lever reaches about 1/3 of the way to the handlebar.









DISC BRAKES: continued

After adjusting the brake, reinspect the brake pads, centering, and brake lever travel. If the brake pads are no longer square to the rim, repeat brake pad adjustments. Be sure that the brake pads return to a centered position by spinning the wheel and listening for the brake pad rubbing the rotor on either side. Readjust as needed.

Check that the brake cable tension allows the brake lever about 1/3 of the travel before the brake pads contact the rotor. If the cable has stretched or slipped, readjust brake cable tension by loosening the cable anchor bolt and pulling more cable through the anchor or use the brake adjustment barrel for fine tuning the brake cable tension.



WARNING! DISC GETS HOT! SEVERE INJURY COULD RESULT FROM CONTACT WITH THE HOT DISC. ALLOW DISC TO COOL COMPLETELY BEFORE TOUCHING.

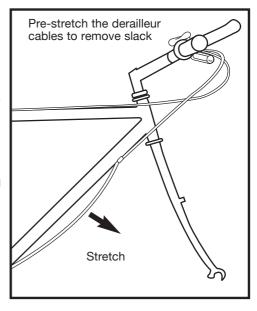






DERAILLEUR SYSTEMS:

The derailleur system consists of the rear derailleur, the shift lever, and the derailleur control cables, all of which must function correctly for smooth gear shifting to occur. There are several different types of derailleur systems but all operate using similar principles. Your new bicycle is fitted with an "index" system (e.g. SIS) which links each different gear position to a positive click mechanism in the shifter, and makes shifting simple and precise.



INSPECTION:

The operation of the derailleur system should be checked at the start of each ride and thoroughly checked at least every month.

Check the operation of the derailleur first. The rear derailleur should shift the chain cleanly from one cog to the next without hesitation. Each notched position in the shifter equates to a new gear position. After shifting, the rear derailleur should not rub on the chain.

The derailleur should never cause the chain to fall off the inner or outer freewheel cogs. Derailleur control cables are a critical component that must be well maintained for accurate shifting performance. Check them for any sign of rust, fraying, kinks, broken strands, and any damage to the cable housing. If you find any problems, the cables or other involved components should be evaluated as it may need replacing before you ride.







REAR DERAILLEUR ADJUSTMENT:

The Low Gear Adjustment Screw (A) determines how far the rear derailleur will travel toward the wheel of the bicycle, while the High Gear Adjustment Screw (B) determines how far the cage will travel toward the frame.

- Shift the rear shifter to the largest number indicated, disconnect the rear derailleur cable from the cable anchor bolt and place the chain on the smallest sprocket.
- High Gear Adjustment Screw (B)

 Low Gear Adjustment Screw (A)

 SIS Cable Adjuster

 Rear Derailleur Side View
- Adjust the High Gear Adjustment
 Screw (B) so the chain and the smallest sprocket are lined up vertically. Remove any
 slack in the cable by pulling it taut, then re-connect the cable and tighten the cable
 anchor bolt securely.
- 3. Some derailleurs have an SIS Cable Adjuster. Use the adjusting barrel and turn clockwise to move the derailleur outboard away from the wheel while turning it counter-clockwise will direct the chain inboard towards the wheel.
- 4. Shift the chain onto the largest sprocket; adjust the Low Gear Adjustment Screw (A) so the chain and the largest cog are lined up vertically. If you are unable to get the chain to the largest cog, turning the Low Gear Adjustment Screw (A) counter-clockwise will enable the chain to move towards the wheel.
- 5. Shift through the gears ensuring each gear is achieved quietly and without hesitation.

NOTE: It may take several adjustments to achieve the desired positioning. Please refer to the troubleshooting section for more assistance. Check to be sure how the components on your bike function.

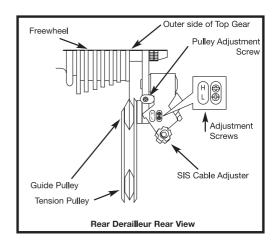






DERAILLEUR LUBRICATION:

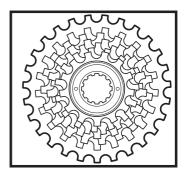
All the pivoting points of the derailleur should be lubricated with light oil at least every month. Be sure to wipe off any excess oil to prevent attraction of dirt into the mechanisms. The shifting cables should be cleaned and re-coated with a thin layer of grease every six months, or whenever new cables are being installed.



FREEWHEEL INSPECTION:

Like the chain, the freewheel must be kept clean and well lubricated using light oil in small quantities. If the chain has become worn and needs replacing, then it is likely that the freewheel will also have become worn and should be carefully checked and also be replaced.

Take the chain off the freewheel and rotate it with your hand. If you hear a grinding noise or the freewheel stops suddenly after spinning it, it may need adjustment or replacement. Such action is beyond the scope of this manual and you should consult your bicycle dealer.











PEDAL INSPECTION: Pedals should be inspected every month, taking note of the following areas:

- Check that the pedals are tightened securely against the crank arm. If pedals are allowed to become loose, they will not only be dangerous to the rider but will also cause irreparable damage to the mating threads of the cranks.
- Check that pedal bearings are properly functioning. Move the pedals up and down, and right to left, and also rotate them by hand. If you detect any looseness or roughness in the pedal bearings then lubrication or replacement is required. Check your pedals to see if adjustment is possible to correct the looseness.
- Ensure that the front and rear pedal reflectors on each pedal are clean, not cracked, and securely fitted.



WARNING! Never ride with loose pedals. Improperly installed or improperly tightened pedals can work loose, damaging the bicycle and causing possible serious injurty or death to the rider.



Always wear solid, well-constructed shoes while riding.







PEDAL LUBRICATION AND ADJUSTMENT: Many pedals cannot be disassembled to allow access to the internal bearings and axle. However, it is usually possible to inject a little oil onto the inside bearings, and this should be done every six months. If the pedal is the type that can be fully disassembled, then the bearings should be removed, cleaned and greased every six to twelve months. Because of the wide variety of pedal types and their internal complexity, disassembly procedures are beyond the scope of this manual and further assistance should be sought from a professional bicycle mechanic.

PEDAL ATTACHMENT - Note: The right and left pedals of a bicycle each have a different thread and are not interchangeable. Never force a pedal into the incorrect crank arm. Check for the right (R) and left (L) letters on each pedal bolt end. Not all crank arms are marked but the right pedal crank arm is on the right side of the bike with a rider in normal riding position and the left crank arm is located on the left side of the bike.

Match the appropriate pedal to each crank (right to right and left to left) for assembly. Insert the correct pedal into the crank arm and begin to turn the thread with your fingers only. When the axle is screwed in substantially all the way then securely tighten using a 15mm narrow open-ended wrench so that the shoulder of the pedal spindle is securely tightened against the crank arm. If removing a pedal, remember that the right pedal axle must be turned counter clockwise, i.e. the reverse of when fitting.

If replacing the original pedals with a new set, make sure the size and the axle thread is compatible with the cranks on your bicycle.

NOTE: Never try and force a pedal with the wrong thread size into a bicycle crank. If the pedal is too loose or too tight, it is the wrong pedal and might come loose in use causing an accident

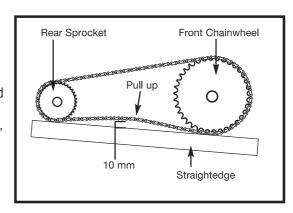






CHAIN INSPECTION:

The chain on your bicycle must be kept clean, rust free and frequently lubricated in order to have the best possible performance when riding and extend its life as long as possible. It will require replacement if it stretches, wears, breaks, or causes inefficient gear shifting due to excessive dirt or debris embedded in the chain. Make sure that there are no stiff links; they must all move freely to seat and shift properly.



CHAIN LUBRICATION:

The chain should be lubricated with light oil at least every month, or after use in wet, muddy, or dusty conditions. Take care to clean the chain of debris before lubrication. After lubrication, wipe off excess oil. **NOTE:** Do not get oil on the tires or rim braking surfaces.

CHAIN ADJUSTMENT AND REPLACEMENT:

On derailleur geared bicycles, the rear derailleur automatically tensions the chain. To adjust the chain on a single speed (non-derailleur geared) bicycle:

- 1. Loosen the rear axle nuts (and coaster brake arm clip if fitted) and move the wheel forward to loosen, or backward to tighten the chain, in the frame.
- 2. When correctly adjusted, the chain should have approximately 10mm of vertical movement when checked in the center between the chainwheel and rear sprocket.

Chains require a special tool to fit and remove damaged chain links, or to change the length. We strongly recommend that you go to your bicycle dealer to replace or change the length of your chain. They will have the special tools required to perform the repairs correctly.







TROUBLESHOOTING

Problem	Possible Cause	Remedy
Gear shifts not working properly	 Derailleur cables sticking/ stretched/damaged Rear derailleur not adjusted properly Indexed shifting not adjusted properly 	 - Lubricate/tighten/clean replace cables - Adjust derailleur - Adjust indexing - Seek advice from your dealer
Slipping chain	 Excessively worn/chipped chain-ring or freewheel sprocket teeth Chain worn/stretched Stiff link in chain Non compatible chain/chainring/freewheel 	 Replace chainring and sprockets Replace chain Lubricate or replace master link Seek advice from your dealer
Chain jumping off freewheel sprocket or chainring	 Chainring out of true Chainring loose Chainring teeth bent or broken Rear derailleur side-to-side travel out of adjustment 	 Re-true if possible, or replace Tighten mounting bolts Repair or replace chainring/set Adjust derailleur travel
Constant clicking noises when pedaling	 Stiff chain link Loose pedal axle/bearings Loose bottom bracket axle/bearings Bent bottom bracket or pedal axle Loose crankset 	 - Lubricate chain / Adjust chain link - Adjust bearings/axle nut - Adjust bottom bracket - Replace bottom bracket axle or pedals - Tighten crank bolts
Grinding noise when pedaling	 Pedal bearings too tight Bottom bracket bearings too tight Chain fouling derailleurs Derailleur jockey wheels dirty/binding 	Adjust bearingsAdjust bearingsAdjust chain lineClean and lubricate jockey wheels



TROUBLESHOOTING

Problem	Possible Cause	Remedy
Freewheel does not rotate	- Freewheel internal pawl pins are jammed	- Lubricate. If problem persists,replace freewheel
Brakes not working effectively	 Brake pads worn down Brake pads/rim greasy, wet or dirty Brake cables are binding/stretched/damaged Brake levers are binding Brakes out of adjustment 	 Replace brake pads Clean pads and rim Clean/adjust/replace cables Adjust brake levers Center brakes
When applying the brakes they squeal/ squeak	Brake pads worn downBrake block toe-in incorrectBrake pads/rim dirty or wetBrake arms loose	Replace padsCorrect block toe-inClean pads and rimTighten mounting bolts
Knocking or shuddering when applying brakes	Bulge in the rim or rim out of trueBrake mounting bolts looseBrakes out of adjustmentFork loose in head tube	 True wheel or take to a bike shop for repair Tighten bolts Center brakes and/or adjust brakeblock toe-in Tighten headset
Wobbling Wheel	 - Axle broken - Wheel out of true - Hub comes loose - Headset binding - Hub bearings collapsed - QR mechanism loose 	 Replace axle True wheel Adjust hub bearings Adjust headset Replace bearings Adjust QR mechanism
Steering not accurate	 Wheels not aligned in frame Headset loose or binding Front forks or frame bent Stem wedge bolt not tight 	 Align wheels correctly Adjust/tighten headset Take bike to a bike shop for possible frame realignment Tighten stem bolt



TROUBLESHOOTING

Problem	Possible Cause	Remedy
Frequent punctures	 Inner tube old or faulty Tire tread/casing worn Tire unsuited to rim Tire not checked after previous puncture Tire pressure too low Spoke protruding into rim 	 Replace Inner tube Replace tire Replace with correct tire Remove sharp object embedded in tire Correct tire pressure File down spoke
The power indicator on meter flashes	- Battery running low	- Charge the battery
Abnormal motor noise	- Broken motor gear or broken hall sensor	- Replace the motor
Display can not turn on	- Broken controller	- Replace the controller
Battery can not be charged	- Battery failure or poor connection at charging port - Broken charger	- Replace the battery - Replace the charger
No motor assistance during ride	- Broken cadence sensor	- Replace the cadence sensor



LIMITED WARRANTY

This Limited Warranty extends only to the original retail purchaser, who must produce proof of purchase in order to validate any claim. This warranty is not transferable to anyone else.

What does this Limited Warranty cover?

This limited warranty covers all parts of the bicycle to be free of defects in workmanship and materials. It does not cover abuse, misuse, or alterations.

What must you do to keep the Limited Warranty in effect?

This limited warranty is effective only if:

- The bicycle is completely and correctly assembled and maintained.
- The bicycle is used under normal conditions for its intended purpose, by a person that properly fits and is capable of controlling the bicycle.
- The bicycle receives all necessary service maintenance and adjustments.

What is not covered by this Limited Warranty?

This limited warranty does not include labor and transportation charges. The bicycle is designed for general transportation and recreational use only. This warranty does not cover normal wear and tear, paint, rust, normal maintenance items, personal injury, or any damage, failure, or loss that is caused by accident, improper assembly, improper maintenance, adjustment, storage, or use of the bicycle.

This Limited Warranty will be VOID if the bicycle is ever:

- Used in any competitive sport.
- Used for stunt riding, jumping, aerobatics or similar activity.
- Installed with a non-standard motor or modified in any other way.
- Ridden by more than one person at a time.
- Rented or used for commercial purposes.
- Used in a manner contrary to the instructions in this Owner's Manual. Haven Bicycles
 Co. will not be liable for incidental or consequential loss or damage, due directly or
 indirectly from use of this product.





LIMITED WARRANTY

For how long does this Limited Warranty last?

The frame is warranted for the usable life of the bicycle. Haven Bikes will replace the frame at no charge, should it fail in any weld point when the cycle has been used in a normal manner, and determined by our inspection Haven Bikes will also replace the bicycle fork if it should fail at any weld point.

You must receive prior authorization from Haven Bicycle Company's Customer Service, before returning any product or parts. All mechanical components are warranted against defects for six months from the date of purchase when properly assembled and used in a normal manner, unless it's easily worn parts like tire, brake pad, grip and saddle.

All the electrical components on the bike including the motor, monitor display, battery, controller, charger and cadence sensor, are warranted as outlined:

Item	Warranty Term	Description
Battery	18 months	Free battery replacement if battery failure or capacity below 60%
Motor	12 months	Free motor wheel replacement
Display	12 months	Free replacement
Charger	12 months	Free replacement
Controller	12 months	Free replacement
Sensor	12 months	Free replacement

What will Haven Bicycles do?

We will replace, without charge to you, any frame, fork, or component found to be defective by Haven Bicycle Company. CONSUMER MUST PAY ALL LABOR AND TRANSPORTATION CHARGES CONNECTED WITH THE REPAIR OR WARRANTY WORK.

How do you get service?

If any part of your bicycle should fail to meet your expectations, first contact an authorized Haven Bicycle retailer or distributor to initiate a warranty claim. All warranty claims must be submitted by contacting the Haven Bicycle Company Customer Service Department at 1-973-543-2599 or info@havenbikes.com.

What rights do you have?

This limited warranty gives you specific legal rights. You may also have other rights which vary from State to State.





IMPORTANT INFORMATION

- 1. The battery's performance can be effected by its environment. Generally speaking, battery's discharge performance is better in a higher temperature. Electric power will drop by more than 1/3 when the temperature is below 32°F (0°C). Thus, the e-bike's riding distance per charge will become shorter in winter or cold areas. It returns to normal or optimal distance per charge when the temperature is higher than 68°F (20°C).
- Do not put any metal objects in charge hole or battery circuit, it may cause short circuit or start a fire.
- 3. Do not dismantle or change any parts without authorization of the manufacturer. Any loss caused by inappropriate use, misuse or dismantling can cause dangers to the rider where manufacturer or dealer cannot be liable for. Be reminded e-bikes warranty can be affected, too. In general, if you think there might be any problem with your e-bike, please contact your local dealer.
- 3. Speeding especially on downhill roads can be dangerous. Slamming brakes at high speed might cause the bike to skid and lead to a road accident. Do not use the front brake to hard, it can cause you to fall forward over the handlebars and can severely hurt you.
- 4. Oil in the brake pad's or rim's surface can or will put brakes out of order. This can cause danger and accident. Beware of this.
- 5. Do not hang anything on the handlebar while riding. Verify the monitor display and any accessories are securely attached to avoid failure or loss during operation.
- 6. This e-bike is fit to be ridden by one person only, do not carry a passenger.
- 7. To protect your battery and avoid danger, do not connect battery's positive and negative side with one another or any conductor.
- 8. Adjust the brake caliper position each month, change the brake pad each half year or one year to keep the brake function in good condition.
- 9. The front wheel is fixed with the fork by quick-release lever. Make sure the handle can be pressed tight. If not tight, unscrew the nut then press it again until the handle is tight after lock. Please regularly check the rims of bike, especially for the caliper brake, to avoid the damage of regularly using the brakes. Regular brake use causes the rim edge to thin affecting the strength of the rim, resulting in possible tire blowout and user's injury.
- 10. Do not ride while intoxicated. Do not ride when taking medicine or when you are not feeling well.







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