Electric Bicycle Owner’s Manual

Model: ____________________
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INTRODUCTION

Thank you for choosing our bicycle. We developed a new type of electric bicycle; convenient, comfortable, safe, and conform to the environment. It has characteristics of both automotive vehicles and bikes, so it can be driven by either manpower or accumulator. It is easy to operate and will bring great convenience for your life, traffic and entertainment.

It is important for you to read this manual carefully before your first ride. By reading this manual you will know how to get better performance, comfort, and enjoyment from your new bicycle.

Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Improper operation may result in losing control of the e-bike, or serious accident.

Laws
Your e-bike is designed and manufactured to meet safety requirements as a battery-operated bicycle. However, state and local laws governing the use of battery-operated bicycles on public roadways, parks, and other open areas may differ, such as the use of helmets and infant seats. Please check with your local authority before using your e-bike in public areas.
ESSENTIALS BEFORE RIDING

Maintenance
In order to maintain the best performance of the e-bike, please carry out the Regular Inspection List according to this manual, and send the e-bike to a qualified technician periodically. Proper maintenance of your bicycle is your responsibility as it helps reduce the risk of injury.

Warnings and Cautions
This manual contains many Warnings and Cautions concerning the consequences of failure to operate or inspect your bicycle. Many of the warnings and cautions say that you may lose control and fall. Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death whenever the risk of falling is mentioned. Therefore, please read this manual thoroughly in order to prevent any information missing.

E-bike Modification
Any unauthorized modifications or changes will seriously affect the e-bike riding performance and safety, and result in serious injury.

For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

A special note for parents
It is a tragic fact that most bicycle accidents involve children. As a parent or guardian, you bear the responsibility for the activities and safety of your minor child. Among these responsibilities are to make sure that the bicycle which your child is riding is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned, understand and obey not only the applicable local motor vehicle, bicycle, and traffic laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual before letting your child ride the bicycle. Please make sure that your child always wears an approved bicycle helmet when riding.
CAUTION!

When you are ready to get on your e-bike for the first time be very careful because the e-bike moves significantly faster than a regular bicycle, when in active power-assisted mode.

Before the first ride, please read the instructions carefully and check whether all the parts are in good conditions for safety purpose.

- Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

- Controller of the electric bicycle having under-voltage protection function, the power supply will be cut off automatically when the battery voltage becomes inadequate.

- Do not lock up the brakes. When braking, always apply the rear brake first (Right hand), then the front. The front brake is more powerful and if it is not correctly applied, you may lose control and fall.

- The power supply will be cut off automatically when the speed is more than 25km/h.

- The power is cut off automatically when the rider stops tapping, with 2 to 3 seconds delay.

- The bicycles should be driven by manpower on muddy or bumpy roads.

- Cut the power supply whenever the riding-aid function is not working properly to avoid damage on electric parts.

- Use correct hand signals to indicate turning or stopping.

- Concentrate on the path ahead. Avoid pot holes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.
WET WEATHER AND NIGHT RIDING

- Cross train tracks at a 90 degree angle or walk your bicycle across.

- Expect the unexpected such as opening car doors or cars backing out of concealed driveways.

- Be extra careful at intersections and when preparing to pass other vehicles.

- Familiarize yourself with all the bicycle's features. Practice gear shifts, braking, and the use of toe clips and straps, if fitted.

- If you are wearing loose pants, use leg clips or elastic bands to prevent them from being caught in the chain. Wear proper riding attire and avoid open toe shoes.

- Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distances and forces are subject to the prevailing weather conditions.

An advisory note to draw attention to the rider concerning possible national legal requirements when the bicycle is to be ridden on public roads (e.g. Lighting and reflectors):

CAUTIONS!

It is recommended to not ride in wet weather.

- This Electric Aided-bicycle can work properly under rainy or snowy conditions. However water has soaked into the hub of the rear wheel motor the internal circuit would be destroyed.

- In wet weather you need to take extra care.

- Break earlier, you will take a longer distance to stop.

- Decrease your riding speed, avoid sudden braking and take corners with additional caution.

- Be more visible on the road.

- Wear reflective clothing and use safety lights.

- Pot holes and slippery surfaces such as line markings and train tracks all become more hazardous when wet.
It is strongly advised that a properly fitting, ANSI or SNELL approved, bicycle safety helmet be worn at all times when riding your bicycle.
In addition, if you are carrying a passenger in a child safety seat, they must also be wearing a helmet.
The correct helmet should:
- be comfortable
- be lightweight
- have good ventilation
- fit correctly
- cover forehead

Correct routine maintenance of your new bike will ensure:
Smooth running - Longer lasting components - Safer riding - Lower running costs

Every time you ride your bicycle, its condition changes. The more you ride, the more frequently maintenance will be required.
We recommend you spend a little time on regular maintenance tasks. If you require assistance, we recommend you see a bicycle specialist.


**ASSEMBLY AND ADJUSTMENT INSTRUCTIONS**

**WARNING!**
If you purchased your e-bike unassembled, please follow these instructions to assemble your e-bike under the guidance of an adult or a qualified technician.

Assembly is quite easy as most of parts are already assembled.

Check that the Package is Complete and Undamaged.

Your e-bike comes in a carton containing the following:

- The main body of the e-bike:
  - consisting of the frame, the rear wheel, the gear and chain, the rear brake, the carrier, the rear fender.
- The handle bar:
  - the brake levers, LED panel and gear shifter.
- The Seat:
  - the seat is attached to its pedestal stem.
- The front wheel:
  - the front wheel fender with supports, the front light.

**Tools Required**

Phillips head screw driver: 4mm, 5mm 6mm & 8mm
Allen keys
Adjustable wrench or a 9mm, 10mm, 14mm & 15mm open and box end wrenches
A pair of pliers with cable cutting ability.
ASSEMBLY-STEP 1: HANDLEBAR

1. Insert the stem of the handle bar subassembly into the steering column that is at the front of the main body frame. Make sure that the fork (that will hold the front wheel) is pointing forward, and orient the handle bar accordingly.

2. Insert the stem all the way and tighten from the top using the big hex wrench.

3. Adjust the handlebar and stem to a suitable position for your riding, ensure that the safety mark on the stem can not be seen. Fix the handlebar following the figures' order above. Tighten the screw by following the Torque Table.

WARNING!
Over tightening the stem bolt or headset assembly may cause damage to the bicycle and/or injury to the rider.
ASSEMBLY-STEP 2: FRONT WHEEL

Make sure that the fork from the steering column is pointing forward. Place the front wheel within the fork and between the two brake pads on either side, seat the axial stem properly within the receptacles at the tips of the fork, and tighten the nuts with the wrench.

Make sure that the front wheel moves freely and does not wobble from side to side. Reposition the wheel and re-tighten if necessary.

Do not adjust the suspension system of the front fork by yourself, please ask help from the qualified technician.
ASSEMBLY-STEP 3: FRONT BRAKE

WARNING!
Do not operate the e-bike until you are satisfied that both the front and rear brakes are operational.

Using the small hex wrench, loosen the screw that tightens the cable so that the cable is completely free to slide back and forth.

Squeeze the brake arms so that the brake pads are against the wheel, but leave sufficient clearance of 1/8 inch on each side (you might want to insert some scrap material, such as a piece of cardboard, between the wheel and the brake pad to ensure there is sufficient clearance). Pull the cable at the end to take out all the slack, tighten the cable by means of the small hex wrench.

Test the brake by lifting the front of the e-bike and setting the wheel in motion (turn it) and apply the brake at the handlebar to stop it. If you could not set the wheel in free motion, or if you could not stop it by apply the brake, you need to re-adjust by increasing or decreasing the clearance.
ASSEMBLY-STEP 4: SEAT

Insert the pedestal stem of the seat into the seat column of the main body frame.

Lift the seat post to a comfortable position for your riding, ensure the safety mark on the seat post cannot be seen. Tighten the screw on the stem firmly.

Adjust the angle to a comfortable position, then tighten the screw according to the Torque Table.
ASSEMBLY-STEP 5: CARRIER

Adjust height of the carrier, then tighten screws which shown in above pictures. The permissible total weight: 25+25+100=150Kg (bicycle+ rider+luggage)

WARNING!
- Maximum load capacity of the carrier is 25kg.
- The carrier is not suitable for the attachment of a child-seat.
- The carrier is not designed to pull a trailer.
- Please be careful that the bicycle may behave differently (particularly with regard to steering and braking) when the luggage carrier is loaded.
- Please distribute luggage evenly between the two sides of the carrier.
- Please notice that the position of reflectors and lamps are not obscured when luggage is attached to the carrier.

Make sure the seat level is horizontal.

Please pay attention to the marking on the carrier.
ASSEMBLY-STEP 6: PEDAL AND REAR WHEEL

Attach a pedal on each side of the crank, tighten with the wrench.

Tighten the screw on the rear hub as shown in above picture.

Make sure the rear wheel is in the center of the bicycle frame.
Your e-bike is driven by a motor embedded in the hub of the wheel. The motor is powered by a battery. The amount of power delivered to the motor, and hence the accelerating force on the e-bike, is controlled by you in a way according to the power-assisted mode you choose.

Electric-Assisted: (Not available on all bikes) You must turn on the battery to use the e-bike in Electric-Assisted mode.

In the Electric-Assisted mode, power assist is triggered when you pedal forward, and power assist stops when you stop pedaling. In other words, power assist happens as long as you pedal. You don’t need to pedal hard. All you need is to apply a light force to the pedals continuously to maintain the current flow. When you apply one of the brakes, power assist will automatically stop, allowing the e-bike to slow down and stop. Power assist will turn itself off when the e-bike has reached the maximum speed of 25 km/h.

You should use the shifter at the handlebar to set the gears appropriately according to road conditions and pedal as usual, you will find that you need to exert a lot less effort and the e-bike travels faster and at a more steady speed.

Note that the Battery level indicators on the handle bar will show the correct level only when power is not being drawn from the battery.
BATTERY

1. Keep away from heat, water and fire.
2. Don't disassemble, reassemble, dissection battery or battery group.
3. No disassemble and refit of the charger.
4. Don't reverse the battery positive electrode and negative electrode.
5. Don't short circuit the battery positive electrode and negative electrode.
6. Don't put the charger and battery in water or wet place.
7. Don't cast charger and battery randomly.
8. Don't puncture, scar the battery.
9. Don't use the battery in other fields.
10. Don't mix our battery with dry battery or other batteries.
11. Don't use other chargers to charge battery.
12. Carefully read the specification before using the battery.
13. The old battery should be placed in appointed location and dealt with in appropriate way.
14. Every two months the battery should be charged two hours.

Battery Charger
Please read this manual carefully before you use it and at the same time, to ensure that use it correctly according to the specifications indicated in the manual.

Performance
Perfect protection function.
Over voltage
Over current
Short circuit
Reserve connection
Prevent to flow backward
Heat protection
**Requirement usage**
Such product should be charged with special charger. Before first using the battery must be charged and charging time not more than 12h.

**Charge-up method**
Before charging, please rotate the key counterclockwise to “OFF” position, the battery job switch will be closed, first plug the charge to bike then plug the charge to the power source. Alternating current source voltage should conform to the charger nominal voltage.

**Discharge method**
Before using, please rotate the key to “NO” position, the battery work switch will be opened, and the indicator lamp glittering. We recommend the battery to be used in 20°C ±5°C with the constant current of 5 ampere and the terminal voltage should not less than 3.0×nV, when indicator lamp turn to red which indicate electric consumption is insufficient the battery group need to be charged immediately.

**Transportation**
In transportation, the battery loaded retention should be lower than 40%, and no mechanical collide, insulation, drench and inversion of the battery. The battery should be gently moved in the delivery period, throw, roll and pressure is forbidden to the battery.

**Storage**
In the process of storage, the loaded retention should be less than 40% and have a charge every six months. Optimum storage temperature is 5~30°C in dry, clean and ventilation room. Storage battery should avoid direct sunshine and placed more than 2m away from heat source.
CONTROL PANEL

LED Panel

+  – There are 3 power-aid levels, which are “low”, “medium”, and “high”.

The bike travels around 18km/h at level “low”, 22km/h at level “medium”, and 25km/h at level “high”.

Press the “+” and “–” button to switch between different assist levels, please note that power-aid will be turned off if pressing “–” button when the bike is already at level “low”.

When push the bike on a uphill slope, press and hold “6km/h” button on the panel for power-aid.

To the right of the “walk” button is the battery monitor, all of the 4 leds are active, which indicates that the battery is full. Please recharge the battery whenever the number of active led is less than 2.
START, PARKING AND MILAGE

Maximizing the Riding Range

Many factors affect the rate of use of the electrical energy and the riding range.
- Fully charge the battery before a long journey.
- Rough road conditions and hilly terrain will consume more energy.
- Frequent change of speed will consume more energy.
- Carrying more weight on the e-bike will consume more energy.
- Keeping the tires properly inflated and keeping the e-bike clean and well lubricated will save energy.
- Making sure that both wheels move freely when brakes are not applied will save energy. You should check brake adjustments frequently.
- Pedaling as you ride will consume less electrical energy and increase the riding range.

Start:
Press the button on the side of the battery to turn on the power the bike.

Parking:
- The power must be turned off for parking.
- Lock the e-bike when you do not use it to avoid any lost.
- Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.
FOR THE LOCK:

Firstly, press the button on the side of the battery to turn off the power.
Unlock the Battery Case, turn the rear light downwardly, then pull the handle of the battery case to remove the battery.
Replace the battery after charging and lock the case.
Make sure the battery is in position and not movable.

Unlock

INSTRUCTIONS FOR RECHARGING

There are 4 active leds on the battery case, press the button to check the remaining of power.

- 3 green lights: power is full
- 2 green lights: half power is remaining
- 1 green light: low battery

Must recharge the battery immediately when the red light is on.
Please recharge the battery whenever possible.
WAYS OF RECHARGING

**WARNING!**
- The power must be turned off firstly.
- Do not charge with the battery upside down.
- Place the charger on an even surface.

There are two ways of battery recharging

- Take out the battery for recharging.
- Recharge directly with the battery on the bike.

**WARNING!**
Do not reverse the order.
- Start recharging
  connect the output plug of charger to the battery firstly, then connect the input plug of charger to the power socket in house.
- Finish recharging
  pull out input plug from power socket in house first, then output plug from battery.
SAFETY NOTES FOR BATTERY AND CHARGER

You should never charge your battery with a substitute charger that is not designed for this use. Use of an unsuitable charger to charge a battery will result in over-heating, fire or even explosion. If your charger is lost or damaged, contact your dealer to order a replacement.

- Charge your battery while the e-bike is not in use. You should turn off the battery before you charge it. You may charge your battery while it is mounted on the e-bike, or after it has been removed from the e-bike.

- Do not place either the charger or the battery near flammable substances while charging is taking place. Charging should not be done in the vicinity of infants and small children. It is also prudent to remove valuable objects from the immediate vicinity of the battery while it is being charged.

- The length of charging time depends on the level of charge the battery still holds. If a battery is completely discharged, it will take hours to be fully recharged. When a battery is fully charged, the LED on the charger will transition from RED to GREEN. At this point, you should disconnect the charger. Do not leave the charger connected to the battery for very long period of time after charging is complete. (Leaving it connected for an overnight charging is OK.)

- It is normal for the charger and the battery to be slightly hot while charging is on-going.

- The battery is half-charged when it is new. Please charge it as soon as possible once you buy it. For the first three times, please keep on charging the battery at least 12 hours.

- There is an information light on charger. It means the battery is being charged when it is red, and it had been fully charged when it is green. (It is also green color when there is no battery connected.)

- Please make sure that voltage in your district is suitable for the input requirement of charger before you charging.

- Please make sure that output voltage of charger is suitable for the input requirement of battery before you charging.
SAFETY NOTES FOR BATTERY AND CHARGER

- Please make sure that you had turned off the power switch and taken away the key before you charging.

- Please do not let any liquid or metals to get into the charger.

- This charger is only to be used in house.

- Do not use the charger at places which are rich of oils, powders, dust, wet, directly sun-shinning or un-balanced. Do not use the charger when it is thundering or fulgurating.

- When charging, please try to place battery where kids can not touch.

- Please do not open the charger yourselves, since there maybe high-voltage in charger.

- Please put the charger on places where is good on aeration and cooling.

- Please do not touch the two electrodes on battery by your hands or other electric things. It will most probably get into accident.

- It is strictly prohibited to place the battery near to hot facilities such as andirons or flames.

- It is strictly prohibited to charge on the output socket of battery, and to release from the input socket of battery.

- Do not shake, extract or hit the battery violently.

- Please charge the battery at least one time during a period of two months; Please keep on charging for two hours at least each time.

- It is strictly prohibited to open the battery container or separate the batteries by yourselves. Battery which is opened or separated by customers themselves will not be under guarantees.
**SIGNS OF BATTERY AND CHARGER**

You should understand those signs on Battery and Charger. The safety precautions are provided for your benefit to protect you and those around you. Please read and follow them carefully to avoid unnecessary injury, damage to the product, or damage to other property.

- Battery
  - Comply with CE
  - Containing lithium-ion

- Charger
  - Product Safety Electrical
  - Federal Communications Commission
  - Must disposed of properly
Before every ride, it is important to carry out the following safety checks:

1. **Brakes**
   - Ensure front and rear brakes work properly.
   - Ensure brake shoe pads are not over worn and are correctly positioned in relation to the rims.
   - Ensure brake control cables are lubricated, correctly adjusted and display no obvious wear.
   - Ensure brake control levers are lubricated and tightly secured to the handlebar.

2. **Wheels and Tires**
   - Ensure tires are inflated to within the recommended limit as displayed on the tire sidewall.
   - SAFETY WARNING! Danger of wheel failure due to rim wear. Replace wheel immediately when any part of groove wears off.
   - Ensure tires have tread and have no bulges or excessive wear.

   - Ensure rims run true and have no obvious wobbles or kinks.
   - Ensure all wheel spokes are tight and not broken.
   - Check that axle nuts are tight. If your bicycle is fitted with quick release axles, make sure locking levers are correctly tensioned and in the closed position.

3. **Steering**
   - Ensure handlebar and stem are correctly adjusted and tightened, and allow proper steering.
   - Ensure that the handlebars are set correctly in relation to the forks and the direction of travel.
   - Check that the headset locking mechanism is properly adjusted and tightened.
   - If the bicycle is fitted with handlebar end extensions, ensure they are properly positioned and tightened.

4. **Frame and Fork**
   - Check that the frame and fork are not bent or broken.
   - If either are bent or broken, they should be replaced.
REGULAR INSPECTION LIST

5. Chain
- Ensure chain is oiled, clean and runs smoothly.
- Please go to the qualified technician for adjusting the correct chain tension
- Extra care is required in wet or dusty conditions.

7. Bearings
- Ensure all bearings are lubricated, run freely and display no excess movement, grinding or rattling.
- Check headset, wheel bearings, pedal bearings and bottom bracket bearings.

8. Cranks and Pedals
- Ensure pedals are securely tightened to the cranks.
- Ensure cranks are securely tightened to the axle and are not bent.

9. Derailleurs
- Check that front and rear mechanisms are adjusted and function properly.
- Ensure control levers are securely attached.
- Ensure derailleurs, shift levers and control cables are properly lubricated.

10. Accessories
- Ensure that all reflectors are properly fitted and not obscured.
- Ensure all other fittings on the bike are properly and securely fastened, and functioning.
- Ensure the rider is wearing a helmet.

CAUTION!
If any safety-critical components need to change, please go to authorized retailer for changing genuine replacements.
<table>
<thead>
<tr>
<th>Failure Phenomena</th>
<th>Causes of Failure</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| - Can not adjust speed  
  - Speed is less than 10km/h                                      | - The voltage of battery is too low  
  - Control Panel is damaged                                                   | - Fully charge the battery  
  - Replace the Control Panel                                                   |
| Mileage is obviously inadequate after fully charged                | - Inadequate tyre pressure  
  - Failure of charger  
  - Battery can not be fully charged  
  - Failure of controller  
  - Battery aging or battery damaged                                         | - Inflate tyre with appropriate air pressure  
  - Repair the charger  
  - Examine and repair the controller  
  - Replace the controller  
  - Replace the battery                                                        |
| Wheel hub stop running after switching on the power                | - Connection of battery is loosen  
  - Poor contact of controlling line  
  - Connection of wheel hub is loose or damaged  
  - Fuse of battery is broken                                                   | - Re-connect the battery  
  - Replace the connection line  
  - Replace the battery fuse with a new one                                     |
| No power assistance                                              | - Loose connection of Control Panel, Controller and sensor                        | Check and repair wires connection                                           |
| Some electric devices do not work                                 | Loose connection between devices and controller                                  | Check and repair wires connection                                           |
| Front/Rear light does not work                                   | - Short circuit  
  - Loose connection  
  - Bulb is broken                                                              | - Check and repair wires connection between light and battery  
  - Change to new bulb                                                           |

In case of doubt, please consult qualified technician for service, repairs or maintenance.
MAINTENANCE

- Your e-bike is designed for regular road use for a single person. Using your e-bike for extreme maneuvers, such as extreme off-road use, jumping, or carrying excessive load will damage the e-bike and could cause serious injury.

- Do not use high pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electric parts or short circuits. Please use damp cloth with neutral detergent to clean the bike body. Do not use alkali-based or acid based detergent such as rust cleaners as it may result in damage and/or failure of the bike body.

- Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.

- Once strange sound is found on motor, it should be replaced or repaired immediately to avoid the collateral damage to other part of the motor.

- During daily use, please keep the controller clean and dry, keep it away from water, vibration and contamination, otherwise the controller may be damaged.

<table>
<thead>
<tr>
<th></th>
<th>every 6 months</th>
<th>Put 4 drops of oil where each pedal axle goes into the pedal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain</td>
<td>every 6 months</td>
<td>Put 1 drop of oil on each roller of the chain.</td>
</tr>
<tr>
<td>B.B.</td>
<td>every 6 months</td>
<td>Contact a professional technician</td>
</tr>
<tr>
<td>Motor</td>
<td>every 1 year</td>
<td>Contact a professional technician</td>
</tr>
</tbody>
</table>

WARNING!
Do not over lubricate. If oil gets on the wheel rims or the brake shoes, it will reduce brake performance and a longer distance to stop the bicycle will be necessary. Injury to the rider or to others can occur.

- The chain can throw excess oil onto the wheel rim. Wipe excess oil off the chain. Keep all oil off the surfaces of the pedals where your feet rest.

- Using soap and hot water, wash all oil off the wheel rims, the brake shoes, the pedals, and the tires. Rinse with clean water and dry completely before you ride the bicycle.

- Using a light machine oil (20W) and the following guidelines, lubricate the bicycle:
<table>
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<tr>
<th>Frequency</th>
<th>Component</th>
<th>Lubricant</th>
<th>How to Lubricate</th>
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</thead>
<tbody>
<tr>
<td>Weekly</td>
<td>chain</td>
<td>chain lube or light oil</td>
<td>brush on or squirt</td>
</tr>
<tr>
<td></td>
<td>derailleurs wheels</td>
<td>chain lube or light oil</td>
<td>brush on or squirt</td>
</tr>
<tr>
<td></td>
<td>derailleurs</td>
<td>oil</td>
<td>oil can</td>
</tr>
<tr>
<td></td>
<td>brake calipers</td>
<td>oil</td>
<td>3 drops from oil can</td>
</tr>
<tr>
<td></td>
<td>brake levers</td>
<td>oil</td>
<td>2 drops from oil can</td>
</tr>
<tr>
<td>Monthly</td>
<td>shift levers</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td>Every Six Months</td>
<td>freewheel</td>
<td>oil</td>
<td>2 squirts from oil can</td>
</tr>
<tr>
<td></td>
<td>brake cables</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td>Yearly</td>
<td>bottom bracket</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td></td>
<td>pedals</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td></td>
<td>derailleur cables</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td></td>
<td>wheel bearings</td>
<td>lithium based grease</td>
<td>disassemble</td>
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<tr>
<td></td>
<td>beadset</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
<tr>
<td></td>
<td>seat pillar</td>
<td>lithium based grease</td>
<td>disassemble</td>
</tr>
</tbody>
</table>

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.
# SCHEDULE 2 - SERVICE CHECKLIST

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before every ride</td>
<td>Check tire pressure</td>
</tr>
<tr>
<td></td>
<td>Check brake operation</td>
</tr>
<tr>
<td></td>
<td>Check wheels for loose spokes</td>
</tr>
<tr>
<td></td>
<td>Make sure nothing is loose</td>
</tr>
<tr>
<td>After every ride</td>
<td>Quick wipe down with damp cloth</td>
</tr>
<tr>
<td>Weekly</td>
<td>Lubrication as per schedule 1</td>
</tr>
<tr>
<td>Monthly</td>
<td>Lubrication as per schedule 1</td>
</tr>
<tr>
<td></td>
<td>Check derailleur adjustment</td>
</tr>
<tr>
<td></td>
<td>Check brake adjustment</td>
</tr>
<tr>
<td></td>
<td>Check brake and gear cable adjustment</td>
</tr>
<tr>
<td></td>
<td>Check tire wear and pressure</td>
</tr>
<tr>
<td></td>
<td>Check wheels are true and spokes tight</td>
</tr>
<tr>
<td></td>
<td>Check hub, head set and crank bearings for looseness</td>
</tr>
<tr>
<td></td>
<td>Check pedals are tight</td>
</tr>
<tr>
<td></td>
<td>Check handlebars are tight</td>
</tr>
<tr>
<td></td>
<td>Check seat and seat post are tight and comfortably adjusted</td>
</tr>
<tr>
<td></td>
<td>Check frame and fork for trueness</td>
</tr>
<tr>
<td></td>
<td>Check all nuts and bolts are tight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every Six Months</td>
<td>Lubrication as per schedule 1</td>
</tr>
<tr>
<td></td>
<td>Check all points as per monthly service</td>
</tr>
<tr>
<td></td>
<td>Check and replace brake pads, if required</td>
</tr>
<tr>
<td></td>
<td>Check chain for excess play or wear</td>
</tr>
<tr>
<td>Yearly</td>
<td>Lubrication as per schedule 1</td>
</tr>
</tbody>
</table>