# HYPER METRO BMX 20in Freestyle Spokewheel

## Assembly Manual

203/9567



**Important**– Please read these instructions fully before starting assembly

These instructions contain important information that will help you get the best from your bike,ensuring safe and correct assembly, use and maintenance.
If you need help or have damaged or missing parts, **call the Customer Helpline on 0345 640 0800**.

March 2013

# Contents

Customer Helpline **0345 640 0800**


Safety Information....3
In the Box....5
Parts....5
Tools....5
Assembly....6
Step 1....6
Step 2....6
Step 3....9
Step 4....10
Step 5....11
Step 6....14
Step 7....14
Riding Advice....15
Before Riding....15
Using the Brake....15
Riding in Bad Weather....16
Riding in the Dark....16
Riding Using Personal Music Players....16
Using Child Seats....16

# Safety Information

Customer Helpline **0345 640 0800**

## Important – Please read these instructions fully before starting assembly

**WARNING!** This Bike has been designed, assembled and tested in accordance with the BS EN 16054:2012 CAT2 standard to ensure your safety. To make sure the bike remains safe, it should only be used for recreational use. Under no circumstances should it be used for competitive cycling, stunting, jumping or acrobatic manoeuvres. These types of cycling may result in serious personal injury and damage to the bike.

**WARNING!** Always wear a cycle helmet when riding the bike. The helmet should be the correct size for your head and must conform to the European Standard EN1078

**WARNING!** When riding in the dark, always make sure that the bike is fitted with suitable reflectors and use a white front light and a red rear light.

**WARNING!** Always take extra care when riding in wet, foggy, windy or icy conditions. The brakes may not be as effective and the braking distances may be increased.

**WARNING!** Always wear suitable cycling clothing when riding the bike. Loose clothing which may get caught in moving parts should be avoided.

**WARNING!** This bike is only suitable for use byriders (including any panniers and/or luggage) with a weight of less than 80 kg (176 lb).

**WARNING!** When assembling the handlebars and stem to the bike frame, make sure the suspension forks are facing in the correct direction. If the suspension forks are assembled correctly, the brakes should be facing forwards. Failure to observe this warning may prevent their correct operation and may lead to personal injury and damage to the bike.

**WARNING!** When assembling the handlebars and stem, make sure it is inserted beyond the minimum insert mark. Failure to observe this warning may lead to a potentially unstable bike and may result in serous personal injury.

**WARNING!** When assembling the seat post, make sure it is inserted beyond the minimum insert mark. Failure to observe this warning may lead to a potentially unstable seat post and may result in serous personal injury.

**WARNING!** The front and rear tyres must be fully inflated before attempting to ride the bike. Under no circumstances should the tyres be inflated above the maximum pressure stated on the side of the tyres.

**WARNING!** Only inflate the front and rear tyres of the bike using a bicycle pump. Do not attempt to use another type of pump to inflate the tyres.

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

**WARNING!** Ensure only genuine replacement parts are used, especially for safety critical parts.

# Safety Information

Customer Helpline **0345 640 0800**

## Important – Please read these instructions fully before starting assembly

**CAUTION!** Only use suitable tools to assemble the bike. The use of unsuitable tools may lead to personal injury and damage to the bike.

**CAUTION!** Always ensure all packaging is removed from the bike before assembly and use. Failure to remove the packaging may prevent the correct operation and may lead to personal injury and damage to the bike.

**CAUTION!** The safety and smooth running of the bike can only be preserved with regular maintenance. Always ensure the bike is maintained in accordance with the supplied maintenance manual.

**CAUTION!** Before attaching the handlebar assembly, make sure all the cables are free to move and are not tangled. Failure to observe this caution may prevent correct operation and may lead to personal injury and damage to the bike.

**IMPORTANT!** Before assembling the bike, check all the parts indicated in the manual are in the box. Inspect the parts for signs of damage. Do not assemble the bike if you observe any damaged components.

**IMPORTANT!** Always take care when removing the packaging to prevent damage to the bike.

NOTE

**NOTE!** Always recycle the packaging in accordance with local recycling schemes.

**NOTE!** The pedals and crank arms have colour coded stickers to indicate which pedal matches which Crank Arm.

**NOTE!** The threads on the left and right pedals are different. To prevent damage to the threads, only tighten the pedals in the direction indicated on the stickers.

**NOTE!** The tyres may have a 'direction of rotation' arrow embossed on the side of the tyre. When the front wheel is assembled, the arrow should be pointing in the direction that the wheel will rotate.

## Recommended Tightening Information

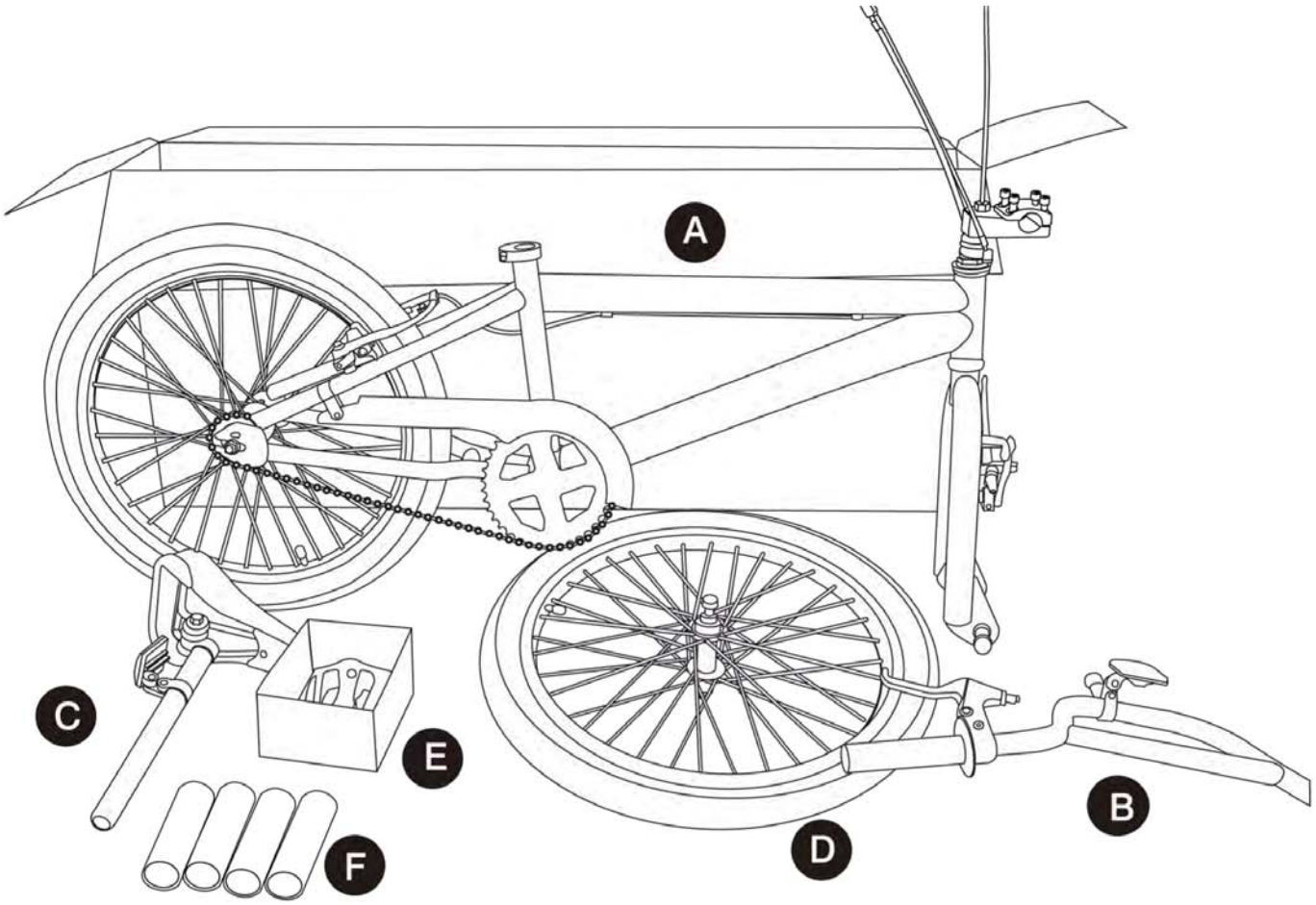
While assembling the bike, it is recommended that, where possible, a torque wrench is used to tighten nuts and bolts. The table below provides a list of torque settings for the various nuts and bolts.

| Nut/bolt | Newton meters | Foot Pounds |
|---|---|---|
| Front wheel axle nuts | 20-23 | 14.75-16.96 |
| Rear wheel axle muts | 24-28 | 17.7-20.65 |
| Handlebar clamp nut/bolt | 19-20 | 14.00-14.75 |
| Handlebar stem bolt | 24-25 | 17.70-18.45 |
| Seat pillar clamp/nut/bolt | 17-19 | 12.54-14.00 |
| Brake mounting nut/bolt | 10-12 | 7.38-8.85 |
| Brake cable anchor nut | 7-11 | 5.25-8.12 |
| Seat clamp nut | 12-17 | 8.85-12.55 |
| Cottetless crank nut | 27 | 19.93 |
| Pedals | 36.3-41.2 | 26.75-30.36 |

# In the Box

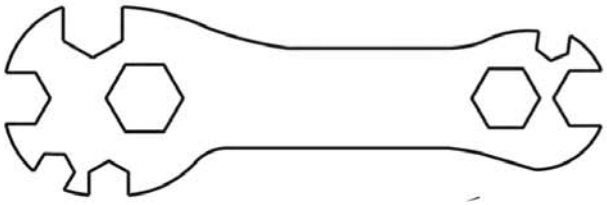


## Parts

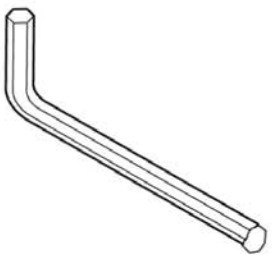



- A Bike (supplied with rear wheel assembled)
- B Handlebar and stem
- C Seat post and saddle
- D Front wheel
- E Pedals (supplied in separate box)
- F Pegs

## Tools



Multitool (supplied in separate box)



Hexagonal key (supplied in separate box)

# Assembly



## Step 1

**IMPORTANT!** Before assembling the bike, check all the parts indicated in the manual are in the box. Inspect the parts for signs of damage. Do not assemble the bike if you observe any damaged components.

**IMPORTANT!** Always take care when removing the packaging to prevent damage to the bike.

1a. Remove the bike from the box and carefully remove all packaging. The following types of packaging are used to protect the bike during transit:

- Cardboard Wrapping - This is used to protect the painted surfaces of the bike frame.
- Cable Ties - These are used to secure loose parts to the partially assembled bike.
- Stem Caps - These are placed in unprotected ends of the bike frame.
- Axle Protectors - These are used to protect the outer edges of the front and rear wheel axles.
- Fork Protectors - These are used to prevent the suspension forks from bending or being damaged.
- Handlebar Stem Protector - This is used ensure the wedge nut remains in the correct orientation during transit.

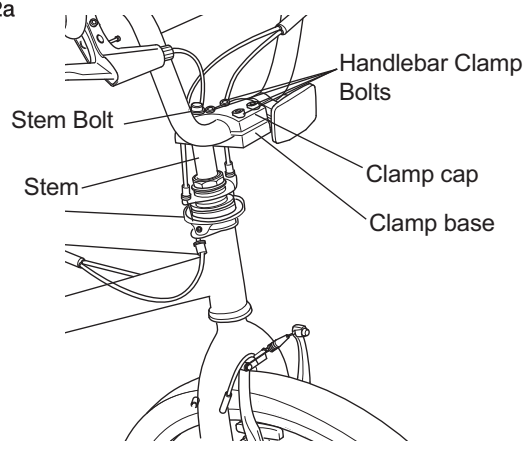
1b. The packaging should be retained until the bike is fully assembled. Use the box to store the packaging during assembly.

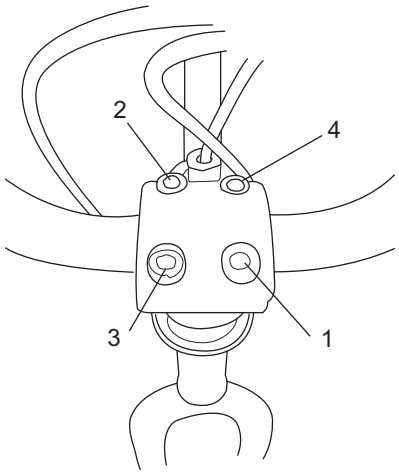
NOTE

**NOTE!** Always recycle the packaging in accordance with local recycling schemes.

## Step 2

2a




**2a Attaching the handlebars**

**WARNING**! Ensure that the cables are not tangled or twisted as this may affect braking performance

Loosen the Bolts from the stem and remove the cap.

Place the centre of the Handlebar in the open and replace the cap in position.

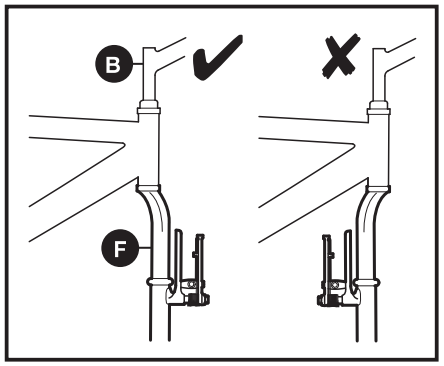
Ensure the cap is level with the clamp base. Cross-tighten the bolts gradually in the order shown to the recommended torque. Check the bars are secure.

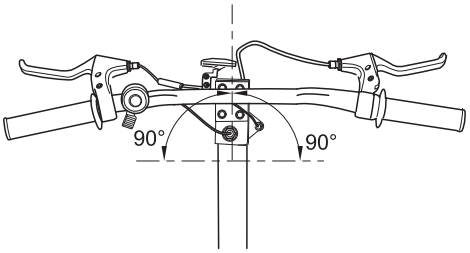
# Assembly

Customer Helpline **0345 640 0800**

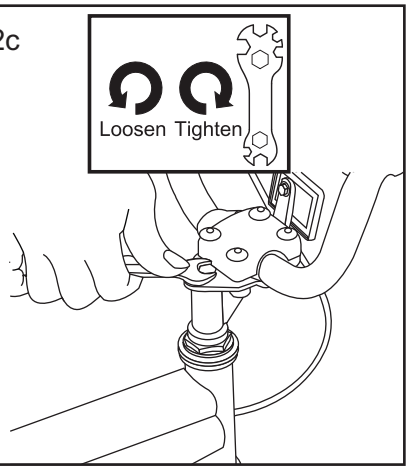
## Step 2

2b




2c




**2b Align the Stem**

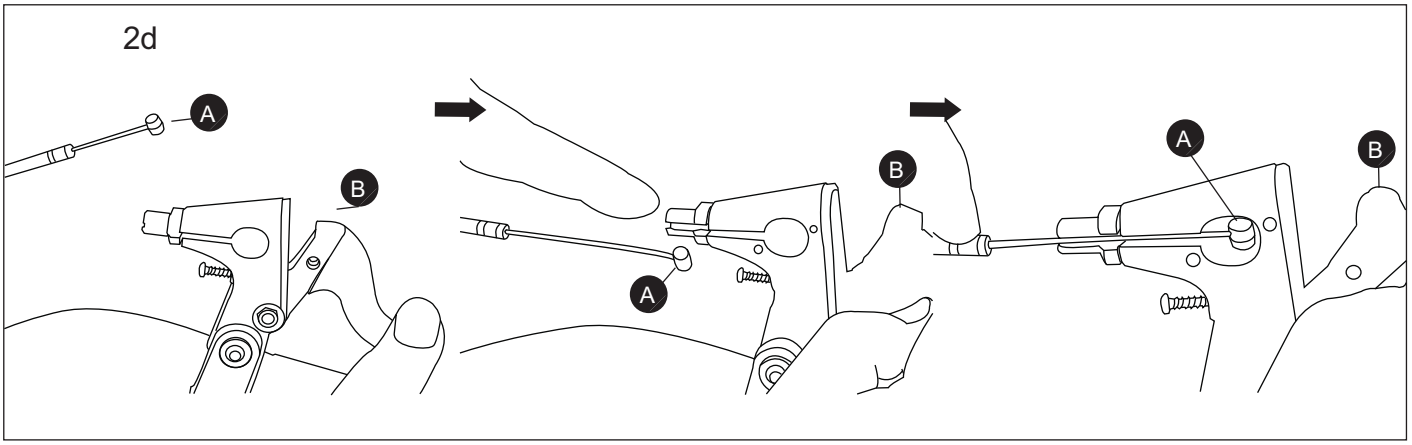
WARNING! When assembling the handlebars and stem to the bike frame, make sure the forks are facing in the correct direction. If the suspension forks are assembled correctly, the front brake should be facing forwards. Failure to observe this warning may prevent their correct operation and may lead to personal injury and damage to the bike.

Adjust the handlebars and stem B to the desired height and align with the forks F.
The forks must be facing in the right direction as shown.

**2c Securing the Stem**

Using the supplied hexagonal key, tighten the stem bolt firmly.

2d



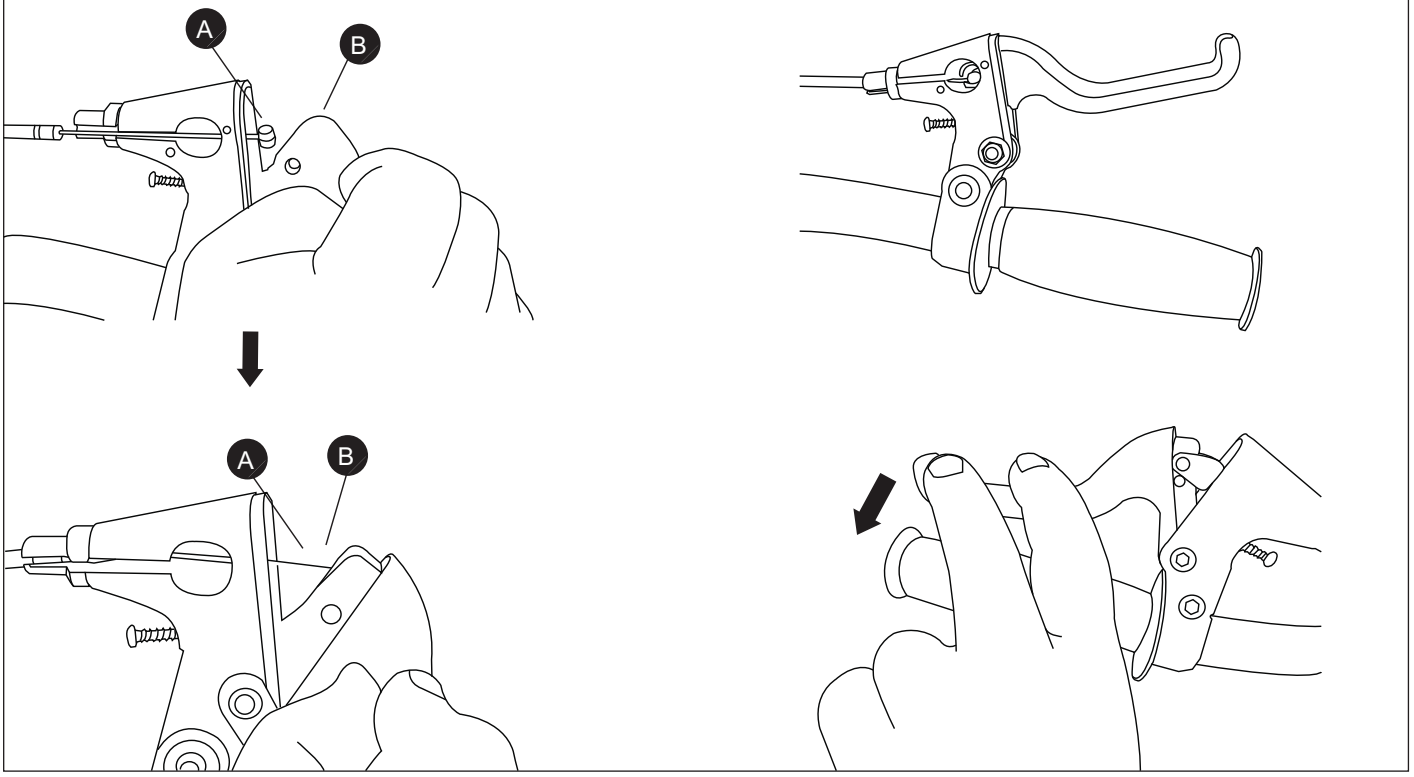

**2d Brake lever installation**

Please make sure the brake cable with inner wire has followed the cable routing to the right position.

Before connect the brake inner wire with brake lever, please kindly line up the slot of two adjust bolts attached with brake lever. The purpose of these two adjust bolts is to help brake cable to be tighten or loosen.
Now, insert the inner cable block A into the brake lever cable link B , and
let inner cable line up through the cap and slot of the adjust bolts then tighten up with adjust bolts make no even slot to each other to prevent wire coming out.

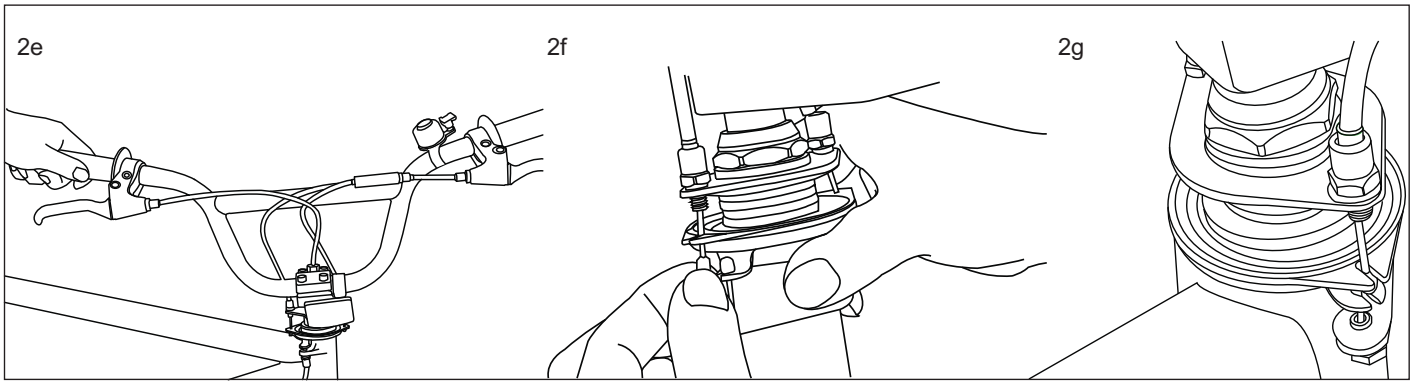
## Step 2 (continued)

**Brake lever installation(continued):**




Line up with the brake cable into the adjust bolts.
Trying to make hand brake to see if brake is functioning.

**WARNING!** Without correct brake cable installation could cause brakes multifunction, and this could cause personal injury. Do not riding the bike unless brakes are function, and we strongly recommend to have professional installer or bike shop install or check for you before you operate the bike. You can check any local dealers for further assistant.



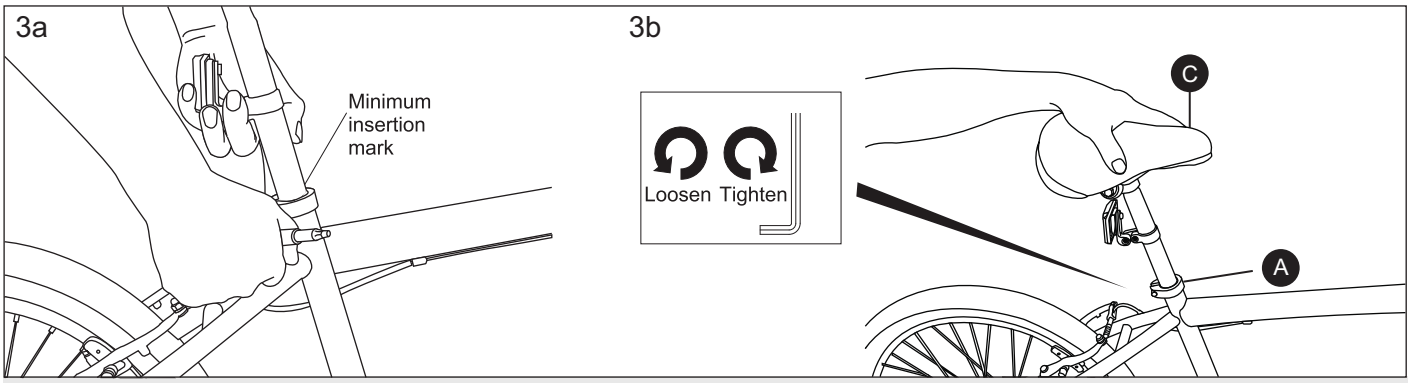

**Brake cable routing for Freestyle rotor system**

2e Please follow the “2e” picture to position all brake cable routing.

2f Please connect the brake inner cable link into the threaded holes as indicate on “2f” picture.

2g Marking sure the rotor system can be pulled up when you using brake levers as show on “2g” picture.

## Step 3



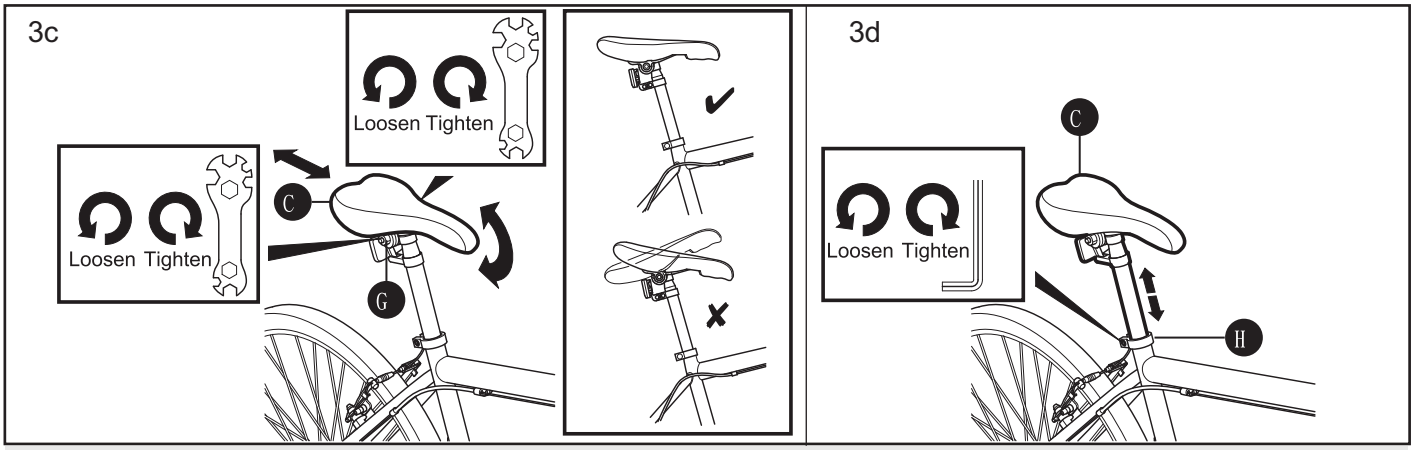

**3a Insert the Seat Post and Saddle**

**WARNING!** When assembling the seat post, make sure it is inserted beyond the minimum insert mark. Failure to observe this warning may lead to a potentially unstable seat post and may result in serous personal injury.

Insert the lower end of the seat post and saddle C into the seat tube of the bike A.

**3b Securing the Seat Post**

Using the supplied hexagonal key, tighten the seat post bolt H firmly after adjusting the position of the saddle.




**3c Adjusting the Position of the Saddle**

The angle of the saddle C should be adjusted so that it is horizontal to the floor. To adjust the tilt of the saddle, loosen the saddle clamp nuts G a quarter of a turn at a time using the multitool supplied until the saddle can be moved.

If required, the saddle C can be moved forwards or backwards on the seat post while the saddle clamp nuts G are loose.

Once the saddle C is positioned correctly, retighten the saddle clamp nuts G.

**3d Adjusting the Height of the Saddle**

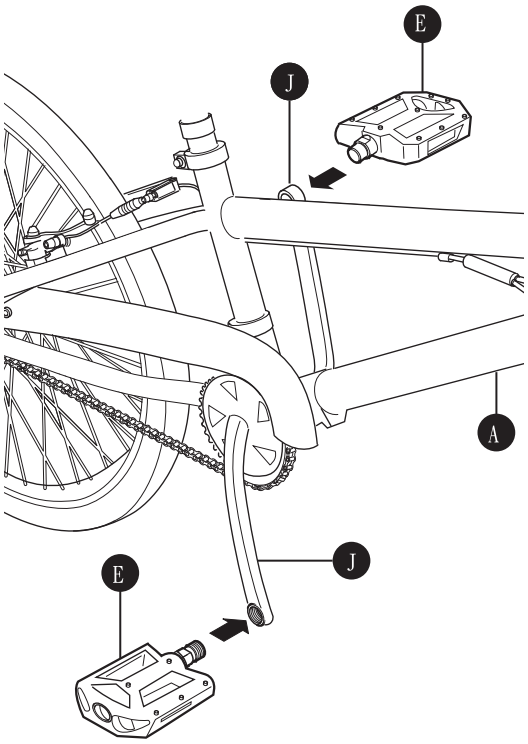
The height of the saddle C should be adjusted so that the Rider can comfortably touch the ground with both feet. To adjust the height of the saddle C, loosen the seat post bolt H until the seat post can move freely.

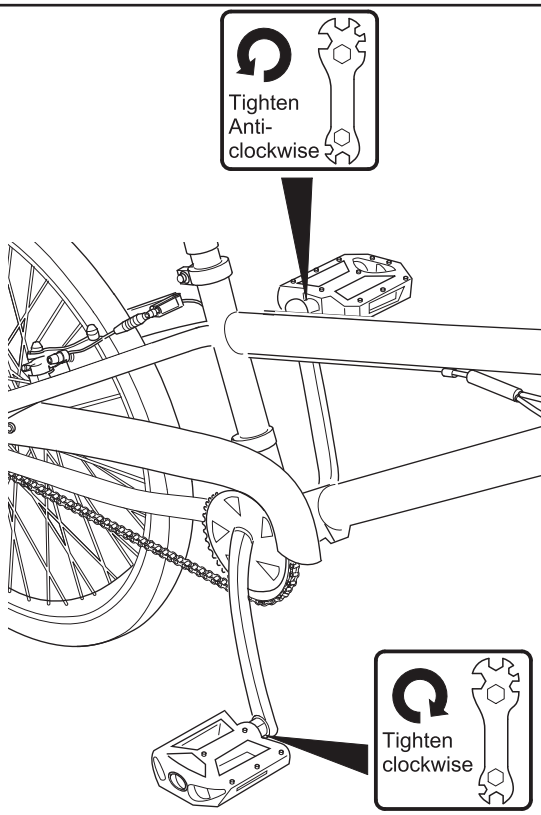
Once the saddle C is positioned correctly, retighten the seat post bolt H.

WARNING! When assembling the seat post, make sure it is inserted beyond the minimum insert mark. Failure to observe this warning may lead to a potentially unstable seat post and may result in serous personal injury.

## Step 4

4a & 4b




NOTE

**NOTE!** The pedals E and crank arms J have colour coded stickers to indicate which pedal E matches which crank arm J.

**NOTE!** The threads on the left and right pedals are different. To prevent damage to the threads, only tighten the pedals in the direction indicated on the stickers.

**4a Fitting the Right Hand Pedal**

Locate the right hand pedal E. This will have a blue sticker attached.

Locate the right hand crank arm J on the bike A. This will also have a blue sicker Attached.

Remove the sticker from the right hand peda E.

Insert the threaded shaft of the right hand pedal E into the threaded hole of the right hand crank arm J. Initially tighten the pedal using only your fingers in the direction indicated on the colour coded stickers. Fully tighten using the multitool supplied.

**4b Fitting the Left Hand Pedal**

Locate the left hand pedal E. This will have a red sticker attached.

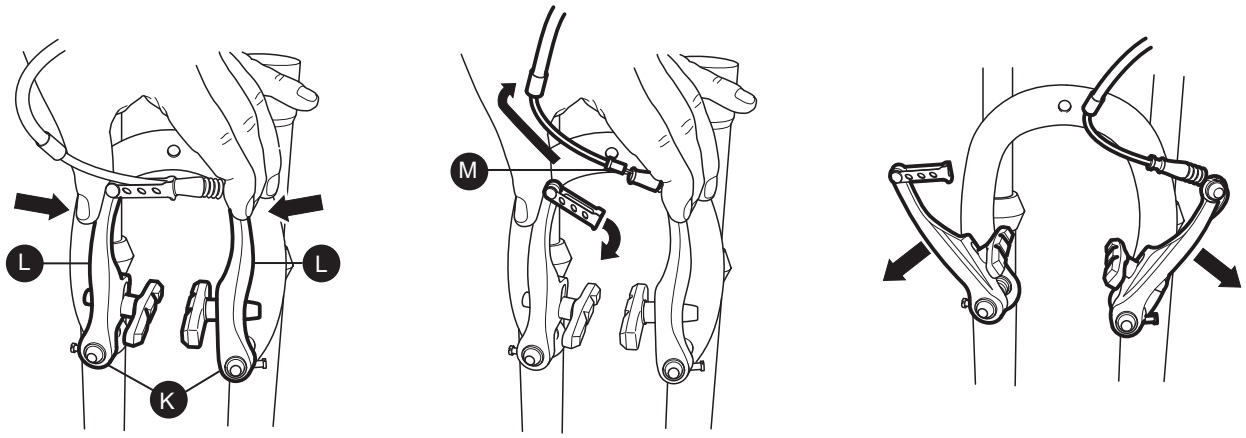
Locate the left hand crank arm J on the bike A. This will also have a red sticker attached.

Remove the sticker from the left hand pedal E.

Insert the threaded shaft of the left hand pedal E into the threaded hole of the right hand crank arm J. Initially tighten the pedal using only your fingers in the direction indicated on the colour coded stickers. Fully tighten using the multitool supplied.

## Step 5

5a



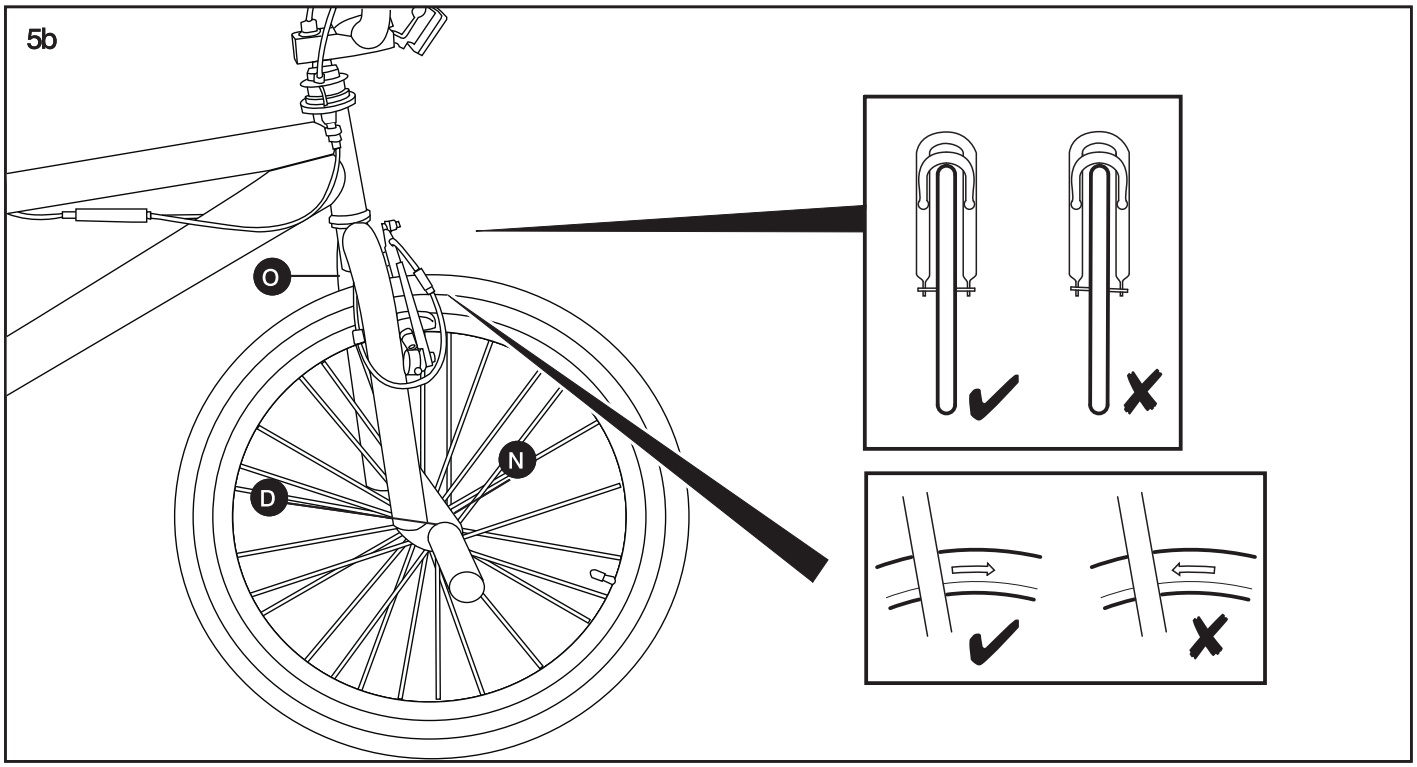

**5a Disconnect the Front Brake**

Before the front wheel D can be installed, the front brake K must be disconnected. This allows the front tyre to pass between the brake pads during assembly.

Squeeze the two arms L of the front brake K together with one hand.

Using your other hand, pull the guide pipe and cable M across and up to release it from the right hand arm.

## Step 5 (continued)




**5b Insert the Wheel**

Loosen the wheel nuts (N) on both ends of the front wheel (D) axle.

NOTE

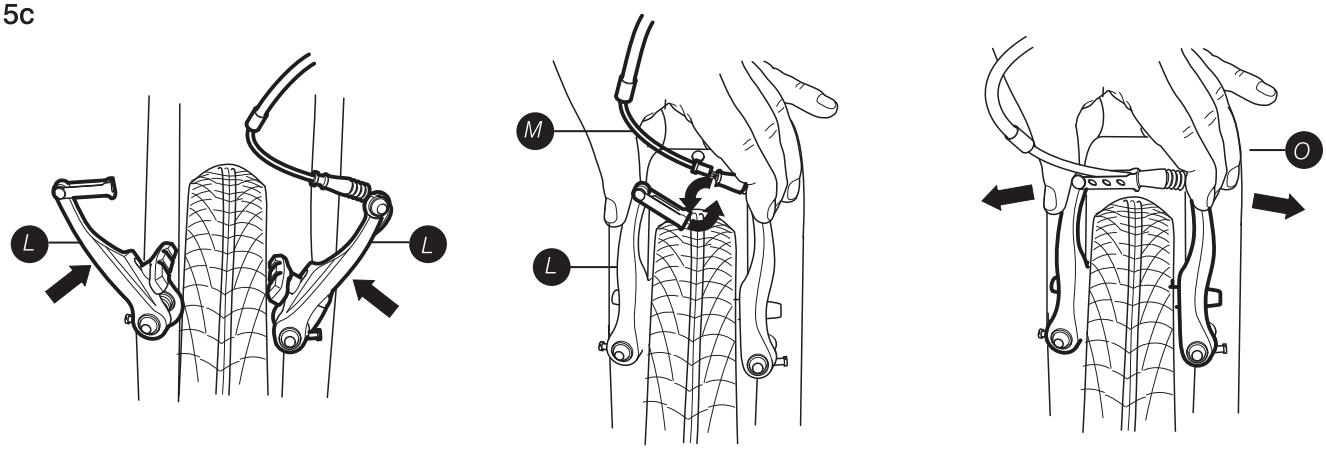
NOTE! The tyres may have a 'Direction of Rotation' arrow embossed on the side. When the front wheel (D) is assembled, the arrow should be pointing in the direction that the wheel will rotate.

Insert the axle of the front wheel (D) into the slots at the bottom of the forks (O).

While ensuring the wheel is centralised in the forks (O), fully tighten the wheel nuts (N) using the supplied multi tool. Ensure that the wheel is seated evently in the dropouts.

## Step 5 (continued)

5c




**5c Refit the Front Brake**

Squeeze the two arms L of the front brake K together with one hand.

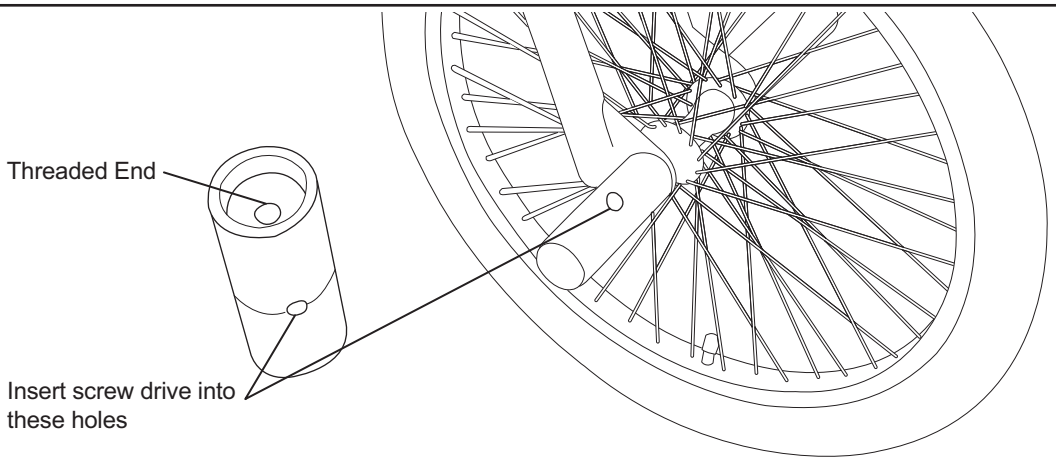
Using your other hand, locate the guide pipe and cable M into retaining plate slot of the right hand arm L.

Once the guide pipe and cable is located, release the pressure on the two arms L.

Check that the front wheel D rotates freely. If it does not, the front wheel D may not be located centrally between the suspension forks O. Alternatively, the front brakes may need adjusting. Please refer to the supplied Maintenance Manual.

## Step 6

6




### 6 Attaching the axle pegs

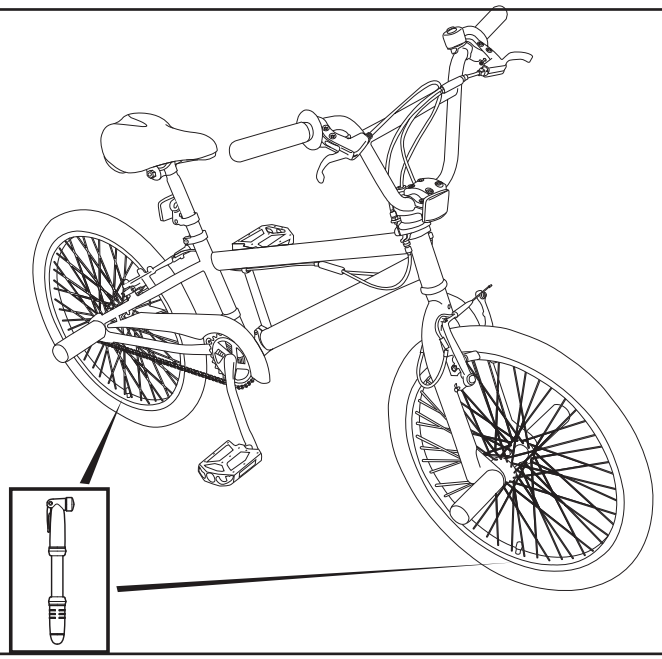
Depending on the model,your BMX may have one or two pairs of axle pegs.Axle pegs are steel extensions that can be attached to the end of the wheel axles.

Ensure that the wheels are securely attached

Thread the axle peg onto the threadede end of the axle
Insert a screw driver through the holes to tighten the pegs onto the axle(see above)

## Step 7

7



### 7 Inflate the Front and Rear Tyres

**WARNING!** The front and rear tyres must be fully inflated before attempting to ride the bike. Under no circumstances should the tyres be inflated above the maximum pressure stated on the side of the tyres.

**WARNING!** Only inflate the front and rear tyres using a bicycle pump. Do not attempt to use another type of pump to inflate the tyres.

Before riding the bike, the front and rear tyres must be fully inflated the pressures indicated on the side of the tyre.

# Riding Advice



## Before Riding

You should perform the following checks before riding your bike to ensure it is safe to use and operating correctly.

**1. Is the Saddle Secure?**

While standing next to the bike, try and move the saddle from side to side. If the saddle moves you should retighten the seat post bolt or the saddle clamp bolts.

**2. Are the Front and Rear Tyres Inflated Correctly?**

Squeeze the sides of the front and rear tyres. If they are soft they will need inflating. Re-inflate to the pressure indicated on the sides of the tyres using an approved bicycle pump.

**3. Are the Pedals Tight?**

Using the supplied multitool, ensure both the left and right pedals are fully tight. Remember that the threaded shafts of the left and right pedals tighten in different directions.

**4. Do the Brakes Work?**

Stand next to the bike and apply the front brake and push forwards. If the wheels move, the front brake may not be working correctly. If required, adjust the front brake as described in the Maintenance Manual.

Repeat the above check for the rear brake.

**5. Do the Handlebars Move?**

Hold the front wheel between your legs and try to move the handlebars. If the handlebars move, the stem bolt may have become loose. Retighten the stem bolt.

**6. Is the Bike Clean?**

The bike should be cleaned and re-oiled regularly to ensure it operates correctly.

## Using the Brakes

The bike is fitted with front and rear brakes to stop the bike effectively.

The brakes are operated using two brake levers mounted on the handle bars . The left hand brake lever operates the rear brake and the right hand brake lever operates the front brake.

# Riding Advice

Customer Helpline **0345 640 0800**

## Riding in Bad Weather

**WARNING!** Always take extra care when riding in wet, foggy, windy or icy conditions. The brakes may not be as effective and the braking distances may be increased.

When riding in bad weather i.e. wet, foggy, windy or icy, always wear bright, reflective clothing which is warm and waterproof.

You should always give other road users clear signals in plenty of time particularly when approaching junctions. Always brake earlier than you would in the dry as the required braking distance will be increased.

Be aware that all types of surface become greasy or slippery in bad weather. Do not turn or brake suddenly.

## Riding in the Dark

**WARNING!** When riding in the dark, always make sure that the bike is fitted with suitable reflectors and a white front light and a red rear light.

It is essential that other road users can clearly see you when riding in the dark. Always wear bright, reflctive clothing. Suitable reflectors should be fitted to the front and rear of the bike and if possible the wheels. A white light must be fitted to the front of the bike and a red light at the rear.

Before starting any journey in the dark or even twilight, ensure the lights are working correctly and are turned on.

Clean lights and reflectors regularly and make sure they can be seen from a distance.

## Riding Using Personal Music Players

It is recommended that personal music players are not used while riding a bike. These devices prevent you from hearing approaching vehicles and may prove to be a distraction.

## Using Child Seats

If a child seat is fitted to the bike, make sure the child remains calm at all times. Take time to check that the child's arms, feet and clothing cannot be trapped in moving parts such as the wheels and gears.

Child seat installations some times may interfear with rear brake or proper gear functions.These need to be checked as to proper function before riding bike(after child seat installation).

The child seat must be installed and used in accordance with the Manufacturer's information.

**Lubrication -**

| Frequency | Component | Lubricant | How to Lubricate |
|---|---|---|---|
| Weekly | chain | chain lube or light oil | brush on or squirt |
| | derailleur wheels | chain lube or light oil | brush on or squirt |
| | derailleurs | oil | oil can |
| | brake calipers | oil | 3 drops from oil can |
| | brake levels | oil | 2 drops from oil can |
| Monthly | sift levels | lithium based grease | at Bicycle Technician |
| Every Six Months | freewheel | oil | 2 squirts from oil can |
| | brake cabbles | lithium based grease | at Bicycle Technician |
| Yearly | bottom bracket | lithium based grease | at Bicycle Technician |
| | pedals | lithium based grease | at Bicycle Technician |
| | derailleur cables | lithium based grease | at Bicycle Technician |
| | wheel bearings | lithium based grease | at Bicycle Technician |
| | heatset | lithium based grease | at Bicycle Technician |
| | seat pillar | lithium based grease | at Bicycle Technician |

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 (WD-40) to lubricate your chain.