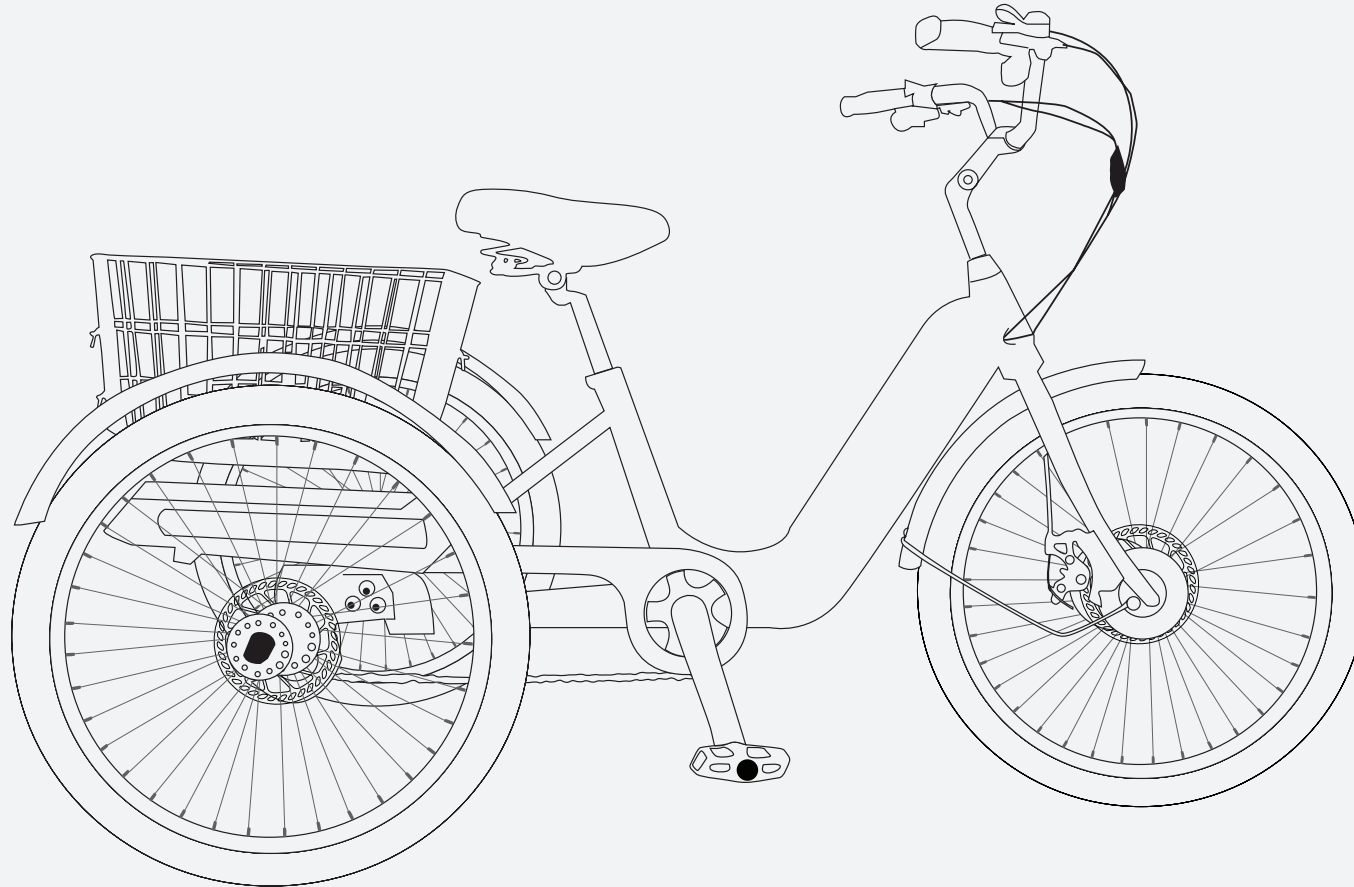


PROGEAR

E-FREE FX

TRIKE OWNER'S MANUAL



ONLY TO BE ASSEMBLED BY A SKILLED BICYCLE MECHANIC.

Read all instructions carefully before using this product. Retain this owner's manual for future reference. Skilled mechanic assembly is recommended. not only to be assembled by a skilled mechanic.

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I. IMPORTANT SAFETY INSTRUCTION



WARNING

Failure to obey all of the warnings and instructions contained in this manual may result in serious injury, or permanent damage to your bike.

- Always wear a properly fitted and fastened helmet when riding. This is required by law in most states and is an important safety precaution. Failure to wear an approved safety helmet can result in severe injury or death.
- Check your helmet for proper fit and damage before each ride.
- Always obey all traffic laws.
- The purchaser, owner, and/or riders of this bike are directly responsible for knowing and obeying all local, state and federal laws regarding the riding and use of this e-bike.
- Always ride cautiously, maintaining complete control and a reasonable speed.
- The rider should hold the handlebars and stop before getting on or off the bike.
- This bike is not suitable for stunt riding, jumping, competition, or racing.
- Always check that brakes are functioning properly before each ride.
- Only one rider at a time.
- Do not ride at night or in conditions when visibility is impaired, unless you install head lights and tail lights that make you visible to all pedestrians and vehicles.
- Wet weather significantly detracts from brake performance. Always allow a longer distance for safely stopping in the rain, or on a wet or icy road surface.
- This product should not be used by minors without adult supervision.
- Do not modify the bike.
- Do not tow or pull with the bike. Do not allow the bike to be towed or pulled.
- Keep fingers away from moving parts.
- Some localities require that the owner or rider equip their bike with a bell, or other sound making device to use for warning others of your approach.
- Check handlebar and seat adjustments before riding.
- Check your tires for cuts, exposed casing, casing cords, and proper inflation before each ride.
- Ensure you wear safe footwear and keep loose articles of clothing clear of moving parts on your bike while riding.

II. BATTERY PACK OPERATION INSTRUCTION

1. Charge the battery pack before use (please refer to page 6 for more information about the charger).
2. Place the battery pack properly and safely on the bicycle.
3. Connect the power cable of the electric bicycle to the output socket of the battery pack and tighten the screw-lock to secure the connector.
4. Switch on the power by turning the key lock of the battery pack to "ON" position and the power on indicator light on the electric bicycle will turn on. The bicycle is ready for use.
5. Switch off the power by turning the key lock of the battery pack to "OFF" position when the electric bicycle is not in use.
6. Use the battery pack temperature range of -20-50°C. The running mileage will be less than normal if the battery pack is being used out of this range.
7. Avoid constant exposure to sun and rain for a long period of time. Should the electric bicycle ever be placed under such condition, it is recommended that the battery pack be dismounted from the bicycle.
8. Measures have been put in place to preserve the life of the battery. When your battery is completely depleted of power, it is no longer functional and cannot be charged again. To prevent this, the battery comes with a 10% reserve; this means that when your battery is at 0%, there is actually 10% charge left, ensuring that the battery remains functional.
9. Store the battery pack in a cool, dry ventilated area with temperature between -20-40°C.

WARNING

1. Battery Safety: Recognising any fault in the battery is essential to your safety. Signs that your battery may be faulty include: Overheating, leaking, deformation and smell/smoke. If any of these signs are apparent, immediately move to a safe distance, and contact the appropriate authorities.
2. The battery pack is designed for electric bikes only. Do not use the battery pack on other applications.
3. Use only the specified charger to charge the battery. To avoid damaging the battery pack, do not use a charger that is not certified by our company.
4. To avoid damage to the battery pack, do not place the battery pack over the radiator or any heated objects, such as any microwave oven and high pressure container. Keep the battery pack out of reach from children.
5. For extended storage of the battery pack, it is recommended that you charge the battery with 30%-50% capacity, i.e. Repeat the same procedure every 4 months. Totally discharged battery should be recharged immediately. If not will damage and make the battery useless.
6. If the battery pack or charger is found defective, please return it to our customer service team immediately for repair. Please do not attempt to open the casing of the battery pack or charger to avoid hazard or damaging the parts inside. Warranty will be voided if the battery pack or charger is found being opened.
7. Do not use gasoline and other chemical solvents to clean the casing of the battery pack and charger. Use a soft cloth to wipe clean any water or dirt on the surface of the battery pack or charger.
8. Do not place the battery pack at exposed environment for long period of time to avoid rain and strong sunlight damaging the battery pack.
9. Do not leave battery on charge after full charge. Leaving it on charge over a long period of time will cause damage and potential fire.

III. CHARGER INSTRUCTION

1. Before charging the battery pack, you should connect the DC jack from the charger to the socket on the pack properly and connect the charger to the AC wall outlet. The "POWER" indicator on the charger will turn red.
2. During charging, the charge indicator will turn red, then will turn green once charging is complete. Please insure the charger is not left on or unattended.
3. After charging, unplug the AC plug from wall socket first and disconnected the DC jack from the battery pack.
4. This charger should only be used to charge the battery packs manufactured and supplied by our company.
5. The operating temperature of this charger is -0-45°C.
6. Avoid using this charger in humid and wet locations. To fully charge a 24V/36V 9Ah battery pack requires approximately 5 hours.
7. Do not allow water to go into the charger.
8. Charger must NOT be left on overnight, if left on, overheating of battery may cause severe damage or fire.

WARNING

1. Do not attempt to open or modify this unit. All work should be carried out by an authorised service personnel only.
2. Use only with compatible batteries, charging non-compatible batteries may cause fire, electrical shock or other accidents.
3. When connecting to the battery, be sure the DC output plug is connected to the charging socket firmly.
4. During charging, the temperature of the charger will rise, this is normal and not a malfunction. Do not put anything above the cover of the adaptor. Do not place inflammable substances within the distance of 30cm from the adaptor to avoid danger.
5. A short circuit between the plus (+) and minus (-) charger pins may cause fire, electrical shock or other accidents. Make sure that the charger connector is isolated from any metal parts when a battery is not connected.
6. Only use the AC power cord included with the charger or the ones specified.
7. Do not continue charging if charging takes longer than expected. In case of abnormal smell, leak or case deformity during use, turn off the power and unplug the cable from socket to avoid possible injury.
8. When charging the battery and handling the charger, ensure this is done by a responsible and able adult. Adults with physical, sensory, and or mental disorders must be supervised by the person responsible for their safety; this is also the case for those under the age of 18.
9. Children should be supervised to ensure that they do not play with the charger.
10. Never attempt to charge a non-rechargeable battery. It might explode.
11. Risk of injury. Change only Li-ion/Feli type rechargeable batteries, other types of batteries may explode causing personal injury and damage.



BFP

YOU SHOULD READ THIS MANUAL

Your bicycle is legally a vehicle. It can be ridden on roads mixing with other traffic. You need to know about certain legal and common sense requirements for the enjoyable, safe and trouble free use of your bicycle.

II. OWNER'S INFORMATION AND RESPONSIBILITY

To reduce the risk of serious personal injury, you should read the instructions in this manual carefully.



There are **warnings** throughout this manual. Follow all warning instructions. Don't risk injury, mechanical failure or damage.

If your bicycle has been supplied in a form not ready for use you must obtain "assembly instructions" from your supplier.

Know how to operate all standard and accessory equipment on the bicycle.

Ensure that anyone who uses the bicycle has been fully instructed in the operation of bicycle functions.

Your bicycle conforms to relevant Australian Standards. Other local regulations may apply. Check with your bicycle retailer.

Many bicycle product manufacturers and suppliers provide additional information on Web sites.

The Bicycle Industry in Australia Web site includes many useful links and other information at: www.bikeoz.com.au

The Cycling Promotion Fund offers helpful hints and links at: www.rideabike.com.au

WHAT KIND OF BICYCLE IS IT?

Bicycles can be broadly categorised into four types:

- Road or Touring
- Mountain or Off Road
- Cross, Hybrid, City or Comfort n BMX
- Freestyle

Bicycles for younger riders use are generally scaled down versions of adult bicycles including the step through design. Other bicycles include tandems, recumbents and folding bicycles. Which type is your new bicycle?

ROAD OR TOURING

Typically has narrow tyres and drop handlebar.

Variations include bicycles suited for touring, commuting, sports, and recreational riding.

MOUNTAIN OR OFF ROAD

The Mountain Bicycle is designed to give the rider maximum control and durability on a wide variety of harsh terrain. Everything about the Mountain Bicycle is more rugged. Its frame geometry provides maximum ground clearance and allows you to quickly and easily shift your weight to change the balance of the bicycle as terrain conditions demand.



WARNING: Not all Mountain type bicycles are intended for off road or competition use. Check specifications and technical advice from your bicycle retailer before use.

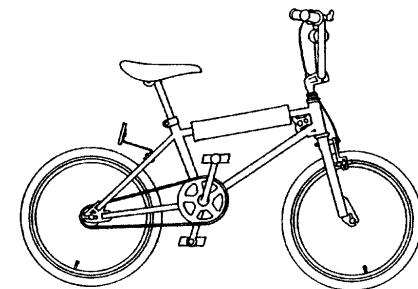
CROSS, HYBRID, CITY OR COMFORT

Usually something of a mixture of characteristics of the Road and Mountain types but may include evolving frame shapes and components. Suited for general purpose riding.

BMX

BMX, are general purpose bicycles for younger riders.

The BMX type Bicycle is a versatile machine usually of 20" (510mm) or less sized wheels with wide section tyres, ideal for general purpose use by younger riders.



WARNING: General purpose Freestyle and BMX bicycles are not designed for stunting, racing or competition use.

FREESTYLE

Modelled on a trick riding style machine, featuring 360 degree revolving handlebar/fork assembly, axle pegs and wide profile tyres. Using a freestyle type bicycle for trick or competition riding may void warranty.

POWER ASSISTED BICYCLES

Have characteristics and equipment which may require special instruction, adjustment, care and maintenance. Read carefully all instruction manuals. Ask your bicycle retailer for advice on maintenance, adjustments and repair.

Unauthorised work may limit or void the warranty.

FOLDING BICYCLES

Designed for easy storage. May require special instruction before use. Ensure that all locking devices are correctly secured before riding a Folding bicycle.

WHAT IS IT CALLED?

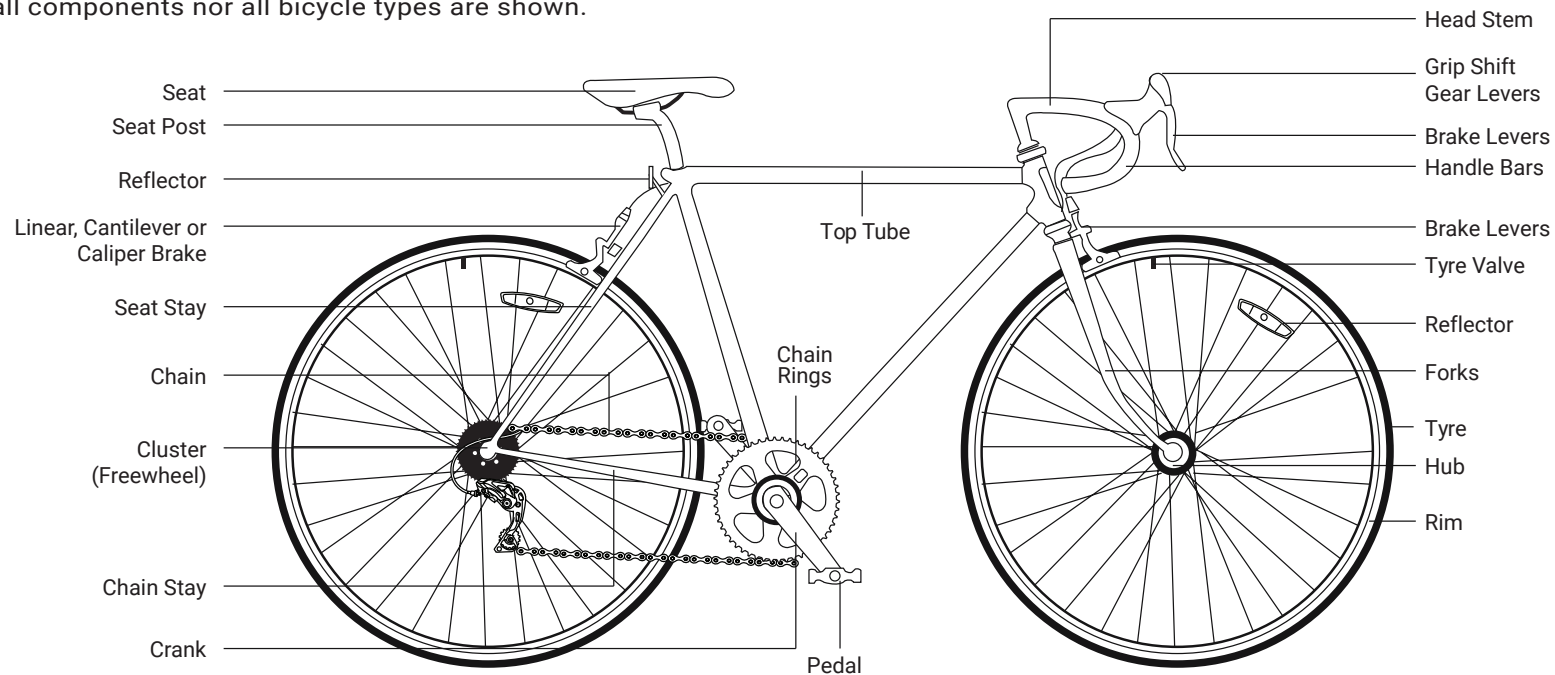
Although bicycle components vary in design, weight and method of use, basically all bicycles are the same.

A bicycle is made up of a frame, wheels, drive train, brakes, stem, handle bars and saddle. Frames must show a makers ID label.

Familiarise yourself with the bicycle's terminology; it will make basic maintenance instructions much easier to follow.

TYPICAL PARTS OF A BICYCLE

NOTE: Not all components nor all bicycle types are shown.

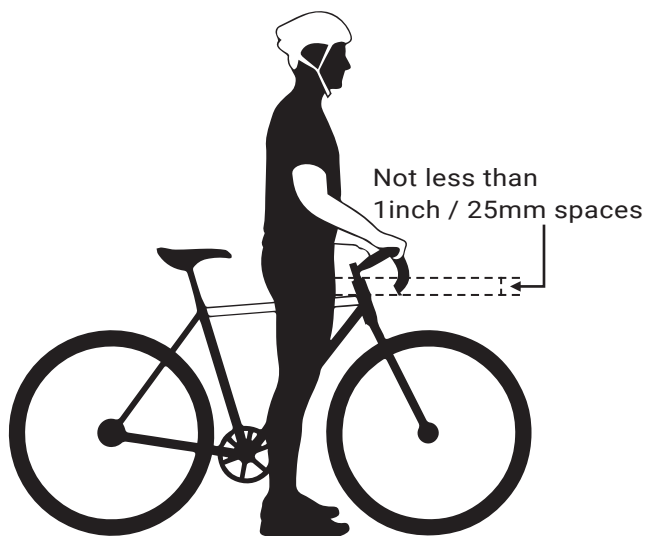




WARNING: Handlebar handgrips or tube-end plugs should be replaced if damaged. Unprotected tube-ends can cause injury. Bicycles used by children should especially be checked to ensure bar end handgrips are in good condition.

FOR ALL TYPES

Where a suspension unit, disk and/or hydraulic brake units, multi-gear hub, electric gear changing system, etc, are fitted, consult manufacturers specification and warranty documents. For correct selection and repair advice, ask your bicycle retailer. Unauthorised work may limit or void a product warranty.



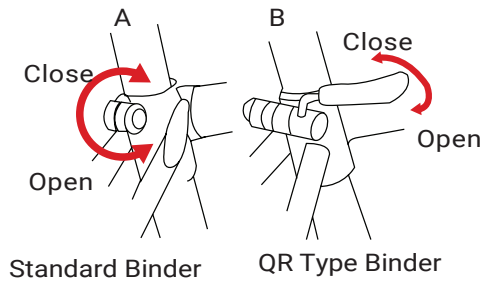
1. SAFETY PRECAUTIONS

1.1 FITTING YOUR BICYCLE FOR A SAFE RIDE

To ride safely and comfortably a bicycle and its equipment must be matched properly to the size and skills of the rider.

MAKE SURE THE BICYCLE FITS

A bicycle that is too big or too small for the rider is hard to control and can be uncomfortable. If your bicycle does not fit properly, you may lose control and fall.



SADDLE HEIGHT

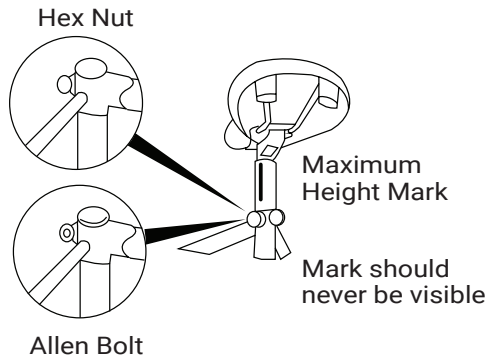
To ride comfortably and pedal efficiently, it's very important to have the saddle at the correct height. Your leg length determines the correct saddle height. The saddle is at the correct height for you when, while seated on the saddle, your knee is slightly bent when the crank is at the maximum down stroke (pedal is closest to the ground).

To adjust the saddle height, loosen the seat binder bolt (A) or the quick release (B) and move the seat post up or down as required. Make sure that the saddle is parallel to the top tube of the bicycle. Retighten the seat post tight enough so that you cannot twist the saddle out of alignment.

A loose seat post will allow the saddle to turn or slip and may cause you to lose control and fall. Therefore:

1. Ask your bicycle retailer to help you make sure you know how to correctly clamp your seat post.
2. Before you ride the bicycle, first check that the seat post is securely clamped.

Under no circumstances should the seat post project from the frame beyond its 'Minimum Insertion' or 'Maximum Extension' mark.



WARNING: do not replace the seat post with a post which is: A) not of the same diameter or B) longer than the original. Either will void the warranty and could lead to seat post failure, loss of rider control and injury.

HANDLEBAR HEIGHT AND ANGLE

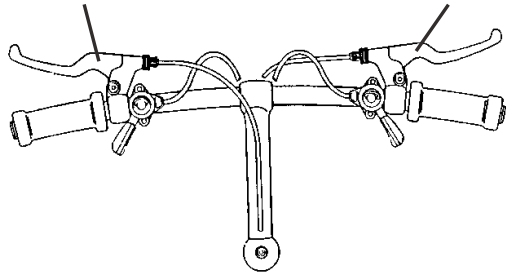
After you have set the saddle height and tilt, adjust the handlebar for a safe and comfortable ride. Ask your bicycle retailer for advice.



WARNING: Under no circumstances should the head stem be retightened with its 'Minimum Insertion' or 'Maximum Extension' mark visible. 'Threadless' headset. DO NOT over tighten the two securing bolts. If unsure, consult your bicycel retailers.

Rear Brake Lever

Front Brake Lever



If the front brake cable is attached to the handlebar stem moving the stem up or down will require a readjustment of the brake. If in doubt, ask your bicycle retailer to make the adjustment.

CONTROLS POSITION ADJUSTMENT

The brake and shifting controls on your bicycle are positioned where they work best for most riders. The angle of the controls and the position on the handlebars can be changed. **Ask your bicycle retailer to make the adjustments for you.**



WARNING: Front wheel brake lever must be mounted on the **right** hand side; rear brake lever on the **left** hand side.

HAND BRAKE LEVER 'REACH'

Many bicycles have brake levers which can be adjusted for 'reach'. If you have small hands and find it difficult to squeeze the brake levers, your bicycle retailer can either adjust the reach or fit shorter reach brake levers.

1.2 SAFETY CHECK BEFORE RIDING YOUR BICYCLE

- Check and tighten any loose nuts, bolts and straps. If you're not sure, ask your bicycle retailer to check.
- Tyres** correctly inflated? Check by pushing down with your thumb on the top of the tyre. The tyre should depress slightly. Compare to how it feels when you know the tyres are correctly inflated.
Replace damaged tyres before they puncture.
- Wheels** true? Spin each wheel and check for brake clearance and side-to-side wobble. If a wheel wobbles or hits the brake pads, take the bicycle to your bicycle retailer.
- Brakes:** Check that the brakes operate effectively.
- Gears:** Ensure gears are adjusted correctly and shifting smooth. Failure to check the bike properly before riding may cause damage to the bike and void any warranty.

QUICK RELEASES

- Are the front wheel, rear wheel and seat post quick releases properly adjusted and in the locked position? Check all quick release mechanisms are correctly and securely closed.

CHECK LIGHTS AND REFLECTORS

- Working
 Correctly aligned

HANDLEBAR AND SADDLE

- Are the handlebar and saddle system: horizontal? tight enough so they won't twist? handlebars secure, good condition? handle bar ends plugged?
 Is a bell fitted and working?

Any broken or worn parts should be replaced before the bicycle is used.

Certain activities may damage your bicycle and result in serious personal injury. Take these precautions:

- avoid jumping kerbs
- avoid potholes and gratings
- avoid stunt riding and jumping



WARNING: Do not remove protective safety equipment fitted to your bicycle, including handlebar end covers or plugs; reflectors fitted to frame, wheels and pedals; reflector mount brackets (where cantilever brakes are fitted); front chain ring guard; rear wheel spoke protector (right hand side); chain guard where fitted; warning stickers affixed to frame.



NOTE: A replacement fork must be the same length and maintain the same rake and trail characteristics as the original. Ask your bicycle retailer for advice.

1.3 SAFETY EQUIPMENT AND SENSIBLE RIDING

As a road user you have responsibility for your own safety and the safety of others.

You need to know:

- the road rules
- how to ride safely

YOUR BICYCLE (CONT)

- Know how to work all bicycle controls.
- For riding in low light and night conditions, fit your bicycle with appropriate front and rear lamps.

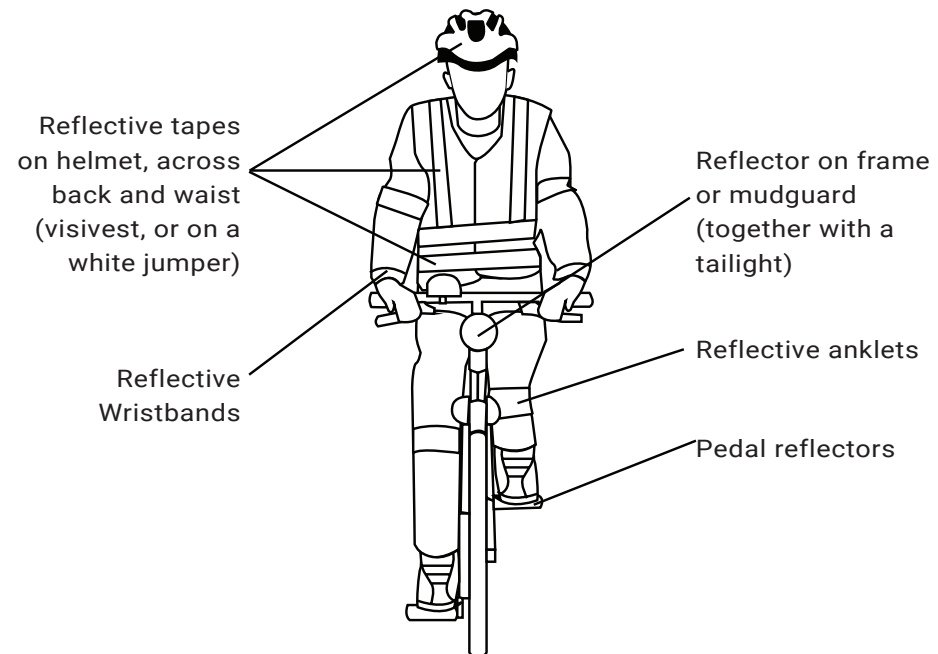


WARNING: Check reflectors and mounting brackets regularly to make sure that they are clean, straight, unbroken and securely mounted. Equip your bicycle with lights: white front and red rear. Riding in low light or at night time without reflectors and lights is extremely dangerous.

The mounting position for reflectors shall be above the level of the back axle, and shall be such that the reflector(s) are not obscured from view eg. By the riders clothing or by the wheel.

YOUR CLOTHING

- Wear a correctly fitted and fastened Approved helmet.
- **Be seen:**
wear brightly coloured clothes - yellow, green and orange are best for day, reflective tape improves the conspicuity of riders at night.
- Wear shoes, not thongs or ride with bare feet.





WARNING: Always wear a correctly fitted and fastened helmet when riding your bicycle.

Correct Fit



Incorrect Fit



BE ALERT

- Obey all road rules
- Watch out for other road and pathway users.
- Adapt your riding to suit the conditions.

HOOK TURN

This manoeuvre can assist in safer right hand at intersection.

There are three steps to the hook turn:

1. Stay on the left, go straight ahead and cross the intersection. Stop on the other side of the intersection.
2. Swing your bike around to face the new direction.
3. Obey any traffic lights and complete your turn when it is safe.

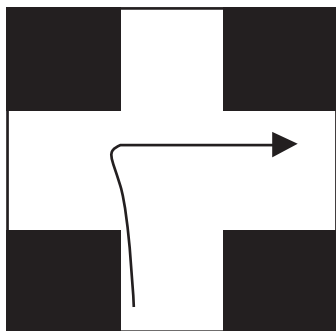
CARRYING LOADS

- Use correctly fitted carriers, racks, panniers or a back intersections. pack for parcels.

RIDING IN THE WET

Wet weather affects visibility for all road users.

It is harder for you, and other vehicles, to stop in the wet. Allow more distance to brake.



RIDING IN LOW LIGHT

Riding when light levels are low:

- use lights and reflectors.
- wear bright reflective clothing.

BE RESPONSIBLE

Follow the road rules. Use common sense. If riding in remote areas:

- go with a friend.
- leave details of route and return time with a responsible person.
- tell them when you get back!

PARENTS

Most cycling incidents involve small children and teenagers.

Make sure:

- The bicycle is in good working order.
- The rider knows:
 - How to use the controls.**
 - The road rules.**
- Clothing, helmet, lighting are appropriate for the bicycle trips undertaken.

QUICK SAFETY SUMMARY

- Obey all traffic laws
- Be predictable
- Be alert
- Use reliable safety equipment
- Use the bicycle for the manufacturer's recommended purpose
- Adjust riding to traffic and weather conditions
- Wear appropriate clothing
- Follow the manufacturer's instructions for any adjustments

2.1 MAINTAINING YOUR BICYCLE

SERVICE AND BASIC MAINTENANCE

Bicycles perform best when they are kept clean, lubricated and serviced regularly.

How much of your bicycle's service and maintenance you can do yourself depends on your level of skill and experience, and whether or not you have the special tools required.



WARNING: Some bicycle service and repair tasks require special knowledge and tools. Do not begin any adjustments or service on your bicycle if you have doubt about your ability. Unauthorised or incorrect service and repairs may void product warranty.

CLEANING

Mud and dust can be highly abrasive. Regular cleaning will help maintain your bicycle in good condition. Always dry and lubricate your bicycle after washing to prevent rust.

LUBRICATION

Keep your bicycle regularly lubricated for good performance and durability. Lubrication reduces friction and helps protect against rust.

All bearings and other moving parts require regular appropriate lubrication:

- Grease type lubrication:- bearings in head stem, wheels, bottom bracket and pedals (requires disassembly refer to your bicycle retailer).
- Oil type lubrication:- Brake and derailleur pivot points and jockey wheels, chain, free wheel.

For advice on appropriate special lubricants, ask your bicycle retailer.

2.2 MONTHLY SERVICE CHART

Monthly servicing of your bicycle is recommended. This consists of lubrication and adjustment of components.

Use the correct type of lubricants and tools, service the bicycle's components in logical groups and clean before you start.

TYRES AND TUBES

- Clean the tyres and inspect treads for wear.
- Remove any debris from tread or walls.
- Check tyre pressure is correct.
- Replace faulty tubes.

WHEELS

- Clean rims and check they are not dented or dimpled.
- Check rims for trueness and spokes for evenness of tension.
- Replace any bent or broken spokes.

CHAIN

- Check chain for excessive wear or stretching.
- Check for any stiff links.
- Use recommended lubricant.

BRAKES

- Check brake block and brake lever mounting bolts.
- Check brake blocks for wear. Replace if necessary.
- Check block toe-in is correct.
- Lubricate brake pivot bolts and adjust where necessary.

GEAR AND BRAKE CABLES

- Inspect all cable housing for damage. Replace if necessary.
- Clean and examine all cable wires for kinks and frayed ends. Replace if necessary.
- Adjust barrel adjusters and/or cable anchor bolts to compensate for cable stretch.

HUBS

- Check front and rear hub bearings for excess play or binding. Have adjustable cup-and-cone bearings, tightened or loosened if necessary.
- Check hubs are correctly lubricated.
- Tighten hub axle nuts and check quick release levers.

FRONT AND REAR DERAILEURS

- Clean derailleur cages bushings.
- Check the accuracy of the indexing and adjust cable tension at barrel adjusters and/or cable anchor bolts as required.

BRAKES

- Check brake block and brake lever mounting bolts.
- Check brake blocks for wear. Replace if necessary.
- Check block toe-in is correct.
- Lubricate brake pivot bolts and adjust where necessary.

CRANK/CHAINRINGS AND FREEWHEELS

- Clean chainrings; check they are true and have no excessively worn, or broken teeth.
- Check crank arms are tight on bottom bracket spindle.
- Clean and lubricate freewheel and check for wear.
- Check freewheel sprockets for worn or broken teeth.

BOTTOM BRACKET/AXLE

- Test bottom bracket bearings for excess play or binding.
- Check that the locknut is tight.
- Check bottom bracket is correctly lubricated.

HEADSET

- Check headset for excess play or binding.
- Check the locknut is tight.

PEDALS

- Check pedal bodies are not cracked.
- If pedals are loose, tighten the mounting bolts firmly.
- Inspect toe clips/toe straps for damage.

GENERAL

- Check frame alignment and all the tubes for dents or damage.
- Check all bolts and nuts are secure. Tighten bolts with the correct tools.

CAUTION: Alloy bicycle parts can be damaged by overtightening.

STORAGE

The best protection for your bicycle is to store it under cover in a dry environment and away from corrosive materials such as battery acid and swimming pool chemicals. Thoroughly dry off your bicycle after use in wet conditions. Wax or lubricate as required.

Failure to follow this procedure may lead to rust and corrosion of metal work.

3. ADDITIONAL INFORMATION HELPFUL HINTS, SPECIAL INSTRUCTIONS AND WARRANTY

3.1 ABOUT YOUR BICYCLE RETAILER

Your bicycle retailer will help you to select bicycle accessories for the kind of riding you wish to do. Bicycle shop staff have the knowledge, tools and experience to give you reliable advice and provide maintenance services. If you have a problem with your bicycle or your riding, talk to your bicycle retailer.

3.2 TOOLS AND BICYCLE ASSEMBLY

Should you intend to undertake maintenance the following tools are considered to be the basic requirement:

- Adjustable wrench 5-10cm
- Adjustable wrench 32cm
- Flat screw driver 15mm
- Phillips head screw driver 15mm
- Allen Key set 2mm-6mm
- Set of open end spanners 7-17mm
- Set of tyre levers
- Chain link remover
- Wire cutters
- Torque wrench

All nuts and bolts should be checked on a regular basis for tightness. To assist in achieving the correct tension when tightening nuts and bolts the use of a torque wrench is recommended. Apply the following torque for the nominated parts of your bicycle:

Front Wheel Nuts	22-27 Newton Metres
Rear Wheel Nuts	24-29 Newton Metres
Seat Binder Nut	12-17 Newton Metres
Seat Pillar Clamp Nut	4-19 Newton Metres
Brake Anchor Nut	7-11 Newton Metres
Handle Bar Clamp Nut	5-19 Newton Metres
Head Stem Expander Bolt	17-19 Newton Metres
Crank Cotter Pin Nuts	5-10 Newton Metres
Brake Centre Bolt	5-7 Newton Metres
Pedals	35-40 Newton Metres

The following checklist presumes a bicycle which is assembled except for the handlebar & stem, brake and gear levers, saddle and seat stem, pedals, frame reflectors and wheels.

- Fit wheels to frame and align. Secure axle nuts or Quick Release (QR) mechanism.
- Lubricate handlebar stem, slacken wedge bolt and wedge, slide into head set to below minimum insert mark, align square to front wheel, tighten wedge bolt. Tighten wedge bolt. Check head stem lock nut is tight and that the handlebar will not rotate.
- If your bicycle is equipped with a 'threadless' headset, check fitting adjustments with your bicycle retailer. DO NOT OVER TIGHTEN the two securing bolts.
- Slide brake and gear lever assemblies onto handlebar in correct configuration. Tighten locking bolts. Adjust brake assembly cables and align brake blocks for prescribed clearance.
- Fit handlebar tape or handgrips, stop ends to bar if bar is taped, and bell.
- Assemble saddle onto seat stem. Tighten fixing nuts. Lubricate seat stem and insert in seat tube to below minimum insert mark. Tighten seat binder bolt or Quick Release mechanism.

- Fit pedals to crank in correct order; pedal marked R on the right hand side; L on the left.
- Fit frame mounted reflector brackets and reflectors. Align reflectors to vertical. Tighten all bolts. Confirm that wheel reflectors are fitted.
- Recheck that all components are correctly assembled, all bolts, nuts and QR correctly secure. Check that handlebar and saddle cannot be swivelled sideways.
- Check derailleur gears/hub gears for correct operation; adjust to manufacturer's specification. Check both brakes for correct operation.



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

'Threadless' head sets: some bicycles, especially those equipped with a front fork suspension system, are fitted with a 'threadless' head set. Special tools and/or procedures may be required to correctly secure such devices.

3.3 LOCK YOUR BICYCLE

A carbon fibre frame requires special care due to the nature of its construction.

Lock your bicycle to something solid e.g. a tree, a parking meter or a post. Make sure the bicycle cannot be lifted from the post or the post lifted out of the ground or pavement. Use a good quality U-Lock.

A good quality, hardened steel U-lock is your bicycle's best protection from theft. U-locks are more secure than cables or chains with padlocks. Combination locks provide least security.

Make sure the lock or cable is not in a position which makes it easy to be removed or cut.

- A front wheel with Quick Release can be removed and locked to the frame.
- A good quality U-Lock may be the most secure device for locking your bicycle.
- Bicycle parking rails should comply with Australian Standard AS2890.3 (1993).

- Refer to Guide to Traffic Engineering Practice Part 14 - Bicycles (AUSTRROADS 1999).
- www.bikeoz.com.au - provides additional information.
- www.cyclingpromotion.com.au - helping you get more out of your riding.

3.4 KEEP A RECORD OF YOUR BICYCLE

Take a colour photograph of your bicycle, write the frame number on the back of the photograph and keep it in a safe place. Less than one in ten stolen bicycles is returned, partly because the owner cannot describe the bicycle. Engraving a registration number on the bicycle will also help. The police, Neighbourhood Watch and service clubs run bicycle registration programs.

If you keep a record of the details of your bicycle it will greatly increase the possibility of getting it back should it be lost or stolen.

Remember the advice about LOCKING YOUR BICYCLE.

A good quality lock is cheap insurance.

See the record chart at end of this manual.

TROUBLESHOOTING CHART

PROBLEM	POSSIBLE CAUSE	REMEDY
Frequent punctures	Inner tube old or faulty	Replace inner tube
	Tyre tread / casing worn	Replace tyre
	Tyre unsuited to rim	Replace with correct tyre
	Tyre not checked after previous puncture	Remove sharp object embedded in tyre
	Tyre pressure too low	Correct tyre pressure
	Spoke protruding into rim	File down spoke

continued over ►

TROUBLESHOOTING CHART (CONTINUED)

PROBLEM	POSSIBLE CAUSE	REMEDY
When applying the brakes they squeal/squeak	Brake blocks worn down	Replace blocks
	Brake block toe-in incorrect	Correct block toe-in
	Brake blocks / rim dirty or wet	Correct block toe-in
	Brake arms loose	Tighten mounting bolts
Brakes not working effectively	Brake blocks worn down	Replace brake blocks
	Brake blocks or rims greasy, wet or dirty	Clean blocks and rims
	Brake cables are binding / stretched / damaged	Clean / adjust / replace cables
	Brake levers are binding	Adjust brake levers
	Brakes out of adjustment	Centre brakes
Steering not accurate	Wheels not aligned	Align wheels correctly
	Headset loose or binding	Adjust / tighten headset
	Front forks or frame bent	Seek advice at a bicycle shop
Knocking or shuddering when applying the brakes	Bulge in the rim or rim out of true	True wheel or take rim to a bicycle shop for repair *
	Brake mounting bolts loose	Tighten bolts
	Brakes out of adjustment	Centre brakes and / or adjust brake block toe-in
	Disk brakes: disk may be bent or blocks not free	Seek advice at a bicycle shop
	Forks loose in head tube	Tighten headset
Wobbling wheel	Axle broken	Replace axle
	Wheel out of true	True wheel
	Hub cones loose	Adjust hub bearings
	Headset binding	Adjust headset
Gear shifts faulty	Derailleur cables sticking stretched / damaged	Lubricate / tighten / replace cables
	Front or rear derailleur not adjusted properly	Adjust derailleurs
	Indexed shifting not adjusted properly	Adjust indexing

* Repair of damaged front wheel rim not recommended. Replace wheel rim.

continued over ►

TROUBLESHOOTING CHART (CONTINUED)

PROBLEM	POSSIBLE CAUSE	REMEDY
Slipping chain	Excessively worn / chipped chainring or freewheel	Replace chainring, sprockets and chain
	Chain worn / stretched	Replace chain
	Stiff link in chain	Lubricate or replace link
	Non compatible chain / chainring / freewheel	Seek advice at a bicycle shop
Chain jumping off	Chainring bent	Replace Chainring
	Chainring loose	Tighten mounting bolts
	Chainring teeth bent or broken	Replace Chainring
	Rear or front derailleur side-to-side travel out of adjustment	Adjust derailleur travel
Constant clicking noises when pedalling	Stiff chain link	Lubricate or replace link
	Loose pedal spindle / bearings	Adjust bearings / spindle nut
	Loose bottom bracket spindle / bearings	Adjust bottom bracket
	Bent bottom bracket / pedal spindle	Replace bottom bracket / spindle
	Loose crank	Tighten crank bolt
Grinding noise when pedalling	Pedal bearings too tight	Adjust bearings
	Bottom bracket bearings too tight	Adjust bearings
	Chain fouling derailleurs	Adjust chain line
	Derailleur jockey wheels dirty / binding	Clean and lubricate jockey wheels
Freewheel does not freewheel	Freewheel internal pawl pins are jammed	Lubricate. If problem persists, replace freewheel

Regular maintenance by your bicycle retailer is recommended

KEEP A RECORD OF YOUR NEW BICYCLE

OWNER:

ADDRESS:

POSTCODE:

TEL:

BRAND & SERIAL NUMBER:

MODEL:

FRAME STYLE:

FRAME SIZE:

FRAME COLOUR(S):

WHEEL SIZE:

TYRE SIZE & TYPE:

BRAKE TYPE & BRAND:

TRANSMISSION BRAND:

SADDLE BRAND:

OTHER ACCESSORIES (LIST & BRAND NAMES):
.....
.....
.....PURCHASED FROM (SHOP NAME):
.....SHOP ADDRESS:
.....
.....

TEL:

DATE OF PURCHASE: / / /

PRICE PAID: \$

Remember the advice about LOCKING YOUR BICYCLE.
A good quality lock is cheap insurance.

KILOPASCAL FROM PSI CONVERSION TABLE

PSI	BAR	KPA
35	2.4	241
40	2.8	276
45	3.1	310
50	3.5	345
55	3.8	379
60	4.1	414
65	4.5	448
70	4.8	483
75	5.2	517
80	5.5	552
85	5.9	586
90	6.2	621
95	6.6	655

PSI	BAR	KPA
100	6.9	689
105	7.2	724
110	7.6	758
115	7.9	793
120	8.3	827
125	8.6	862
130	9.0	896
135	9.3	931
140	9.7	965
145	10.0	1000
150	10.3	1034
155	10.7	1069
160	11.0	1103

NOTES

III. BATTERY CARE AND SAFETY

- Do not disassemble the battery pack and modify the unit or your warranty will be void and you will be responsible for the modification.
- Make sure that the battery pack has been fully charged before first use, and remove the charger after fully charging. Turn the main battery switch off while charging or not using.
- Check that all electrical connections and mechanical parts are securely locked and fastened before use.
- The performance and mileage of the unit will be varied with the battery condition, temperature, terrain, wind speed, tire pressure, rider weight and the maintenance.
- Always handle the battery pack with care and do not drop it.
- Do not connect the terminals of battery pack with any foreign object.

1. BATTERY CHARGING

Battery should be charged timely after riding the power assist vehicle. The lithium battery should only be charged with the designated charger of the same brand. Connect the output plug to the charger and then connect the charger to 240V alternating current power supply. The battery becomes usable after being charged for 6 to 7 hours, until the charging indicator light changes color from red to green.

2. BATTERY DISCHARGING

Riding the power assist vehicle discharges the battery. Avoid over-discharging, as this can harm battery life. If the instrument indicates low battery voltage, the controller will stop the power supply immediately

3. BATTERY STORAGE & ADDITIONAL CHARGING

There is a slight loss of stored electricity during storage or transportation. Charge the battery before use. Follow the charging method mentioned earlier.

4. BATTERY USE, MAINTENANCE & ATTENTION

- A. Never put battery close to heat source of high temperature
 - B. The ideal charging environment is below 37°C
 - C. Avoid charging under direct sunlight
 - D. Only use designated charger to charge the battery
 - E. Short circuit is not allowed at battery charge port
 - F. Never put battery in wet places or in water
 - G. Never randomly dismantle the battery or do any unauthorized modification
 - H. Never impose external forces on the battery or drop it from high places
 - I. When battery is not in use, it should be fully charged and stored in a dry and cool place. Ensure that the battery is 1m clear of any flammable objects.
- The battery should be kept away from clutter and children. Check and charge the battery every 2 months.

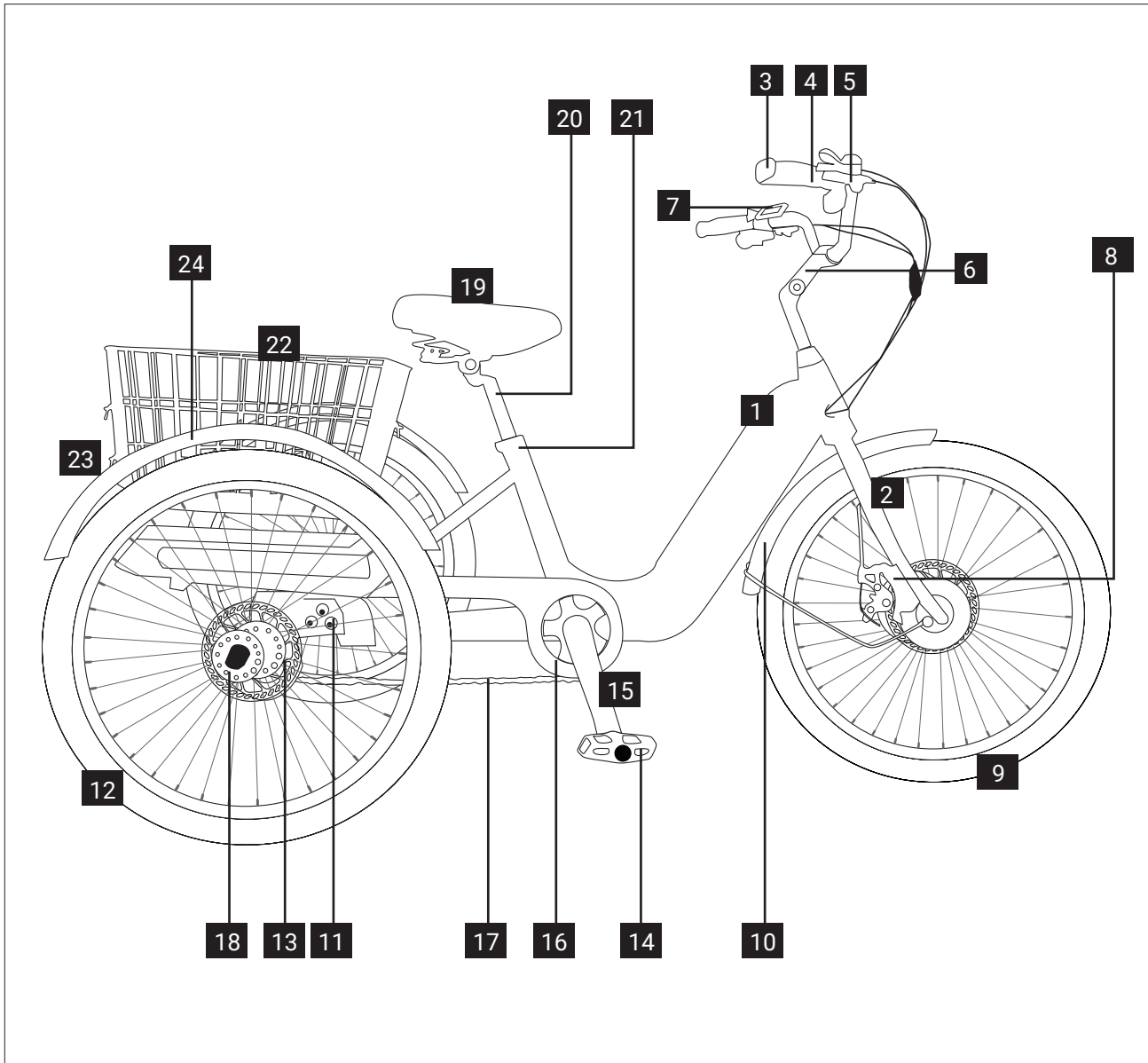
5. SPECIAL WARNING

- A. Never clean the vehicle with hydraulic monitor which may cause damage to electrical components due to water intake.
- B. If the product smokes or burns when damaged by external forces, put it out with dry-chemical fire extinguisher or sandy soil.
- C. Although the lithium battery is an environmentally friendly product, it contains various chemical. If it breaks due to aging, it has the potential to pollute the environment. Please give it to a skilled professional to properly dispose of or fix the battery.

6. DISCLAIMERS

- A. No responsibility for any damages caused by not following the requirements in the instruction manual.
- B. No responsibility for any damages caused by any unauthorized modification.
- C. No responsibility for any damages caused by excessive force.

III. PARTS LIST



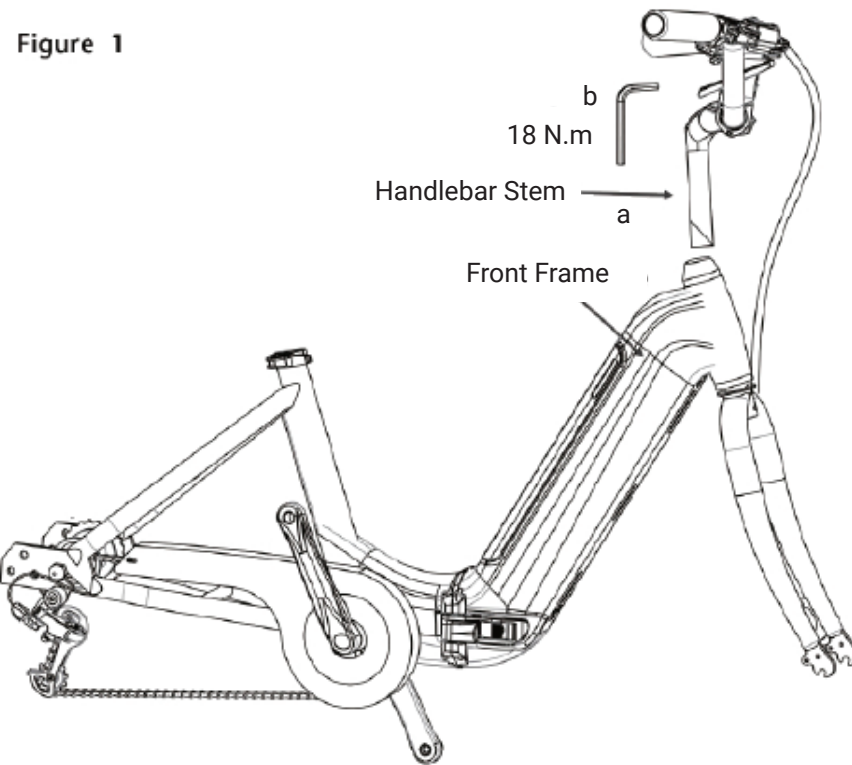
PART	DESCRIPTION
1	Front Frame
2	Front Fork
3	Handlebar
4	Brake Lever
5	Gear Shift
6	Handlebar stem
7	LCD Display Panel
8	V-Brake
9	Front Wheel Set with Motor
10	Front Fender
11	Disc brake
12	Battery
13	Seat Clamp
14	Seat Post
15	Saddle
16	Chainguard
17	Chin
18	Rear Axle
19	Saddle
20	Seat Post
21	Seat Post Clamp
22	Basket
23	Rear Fender
24	Li-Battery

IV. ASSEMBLY INSTRUCTIONS

1 HANDLEBAR ASSEMBLY

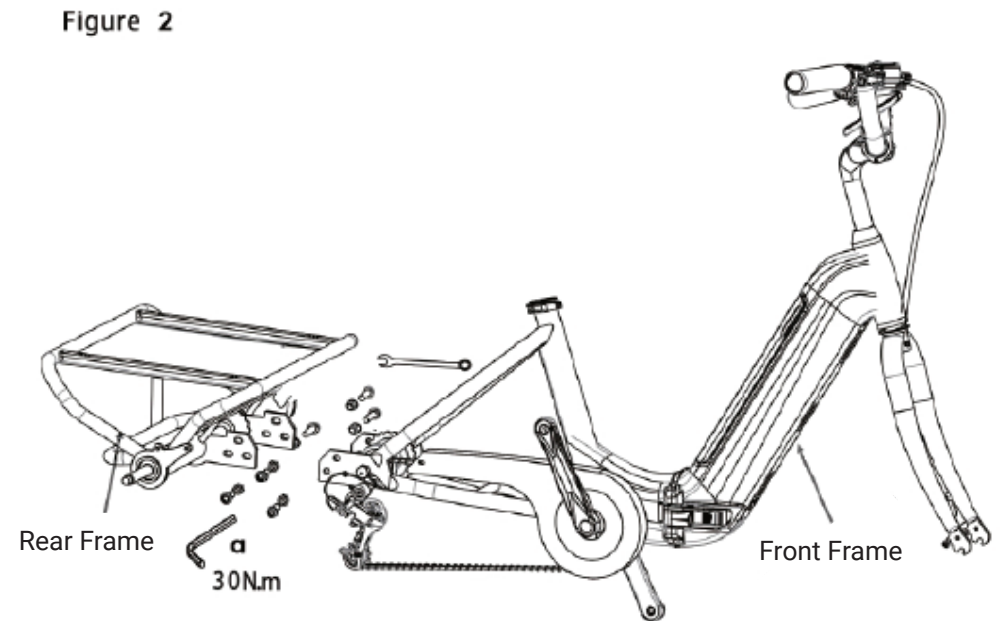
STEP 1.A Insert the handlebar stem into head tube of front frame.

STEP 1.B Adjust head stem height and tighten step bolt.
(NOTE: Safety line should be covered)



2 CONNECT THE FRONT FRAME AND REAR FRAME

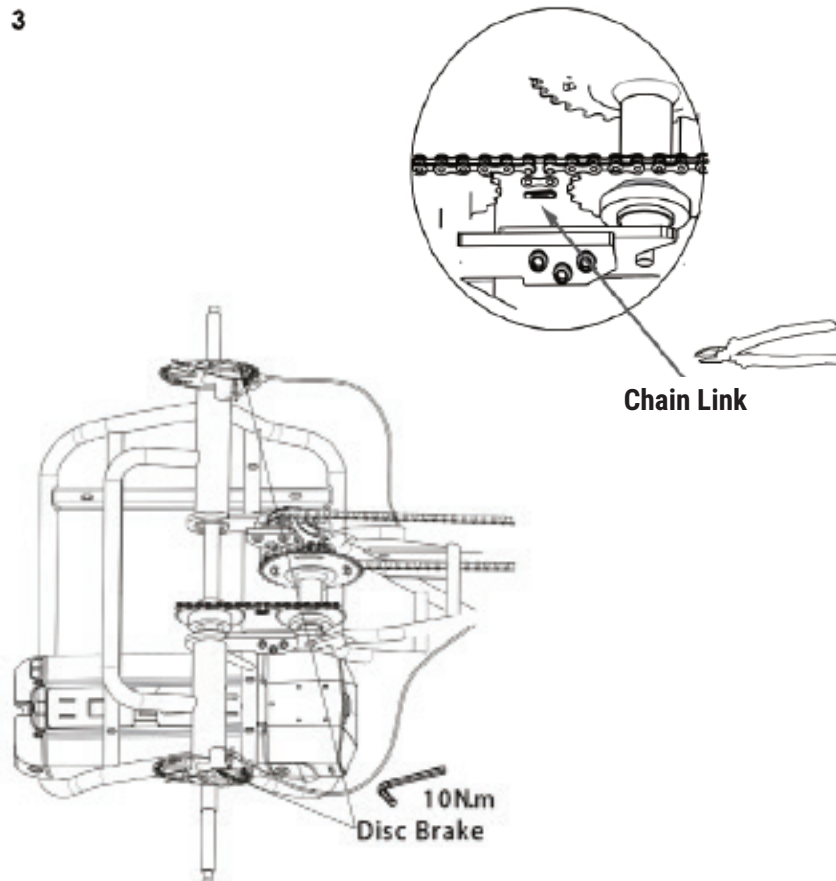
STEP 2.A Refer to Fig.2. Connect the front frame and rear frame with:
- bolts
- Nuts
- Washers



4 CHAIN ASSEMBLY

STEP 3.A Refer to Fig.3. Assemble the chain (Gear adjustment see Attachment 1 and 2). Adjust the suitable position of the disc brake and secure with fixing bolts.

Figure 3

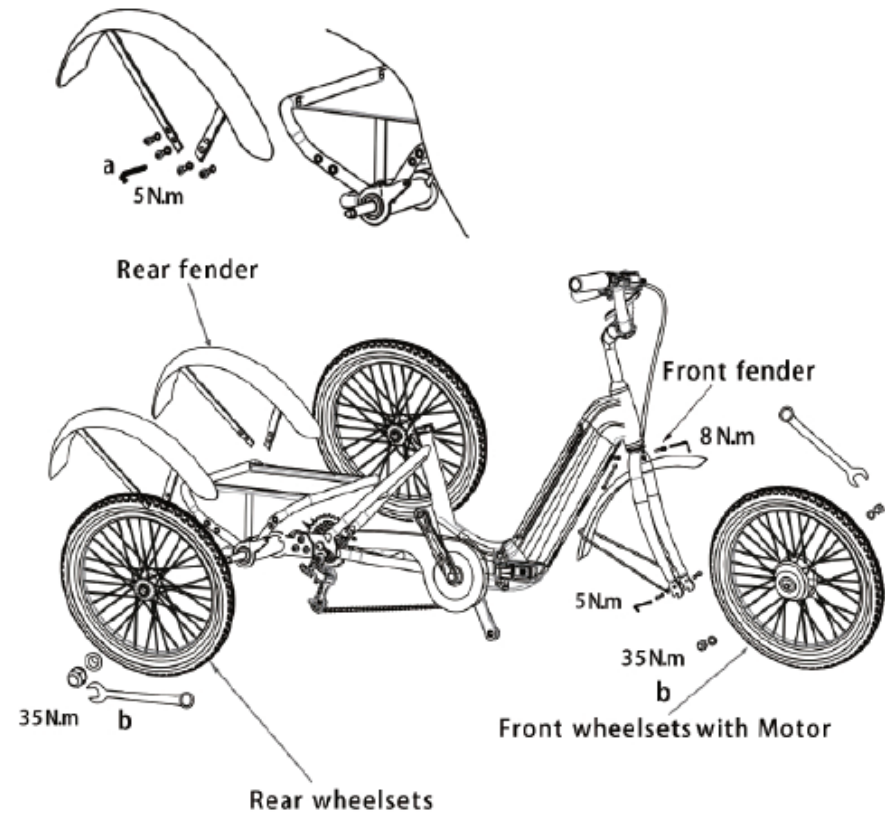


5 FRONT AND REAR FENDERS ASSEMBLY

STEP 4.A Front and rear fenders Assembly
Refer to Fig.4. Secure the front and rear fenders to the correct position on frame with screws. (Assembly of fender is optional)

STEP 4.B Front and rear wheel sets Assembly
Refer to Fig.4. Attach the front and rear wheel with nuts and washers. (Note: Cable of the front wheelsets motor should be on right side)

Figure 4

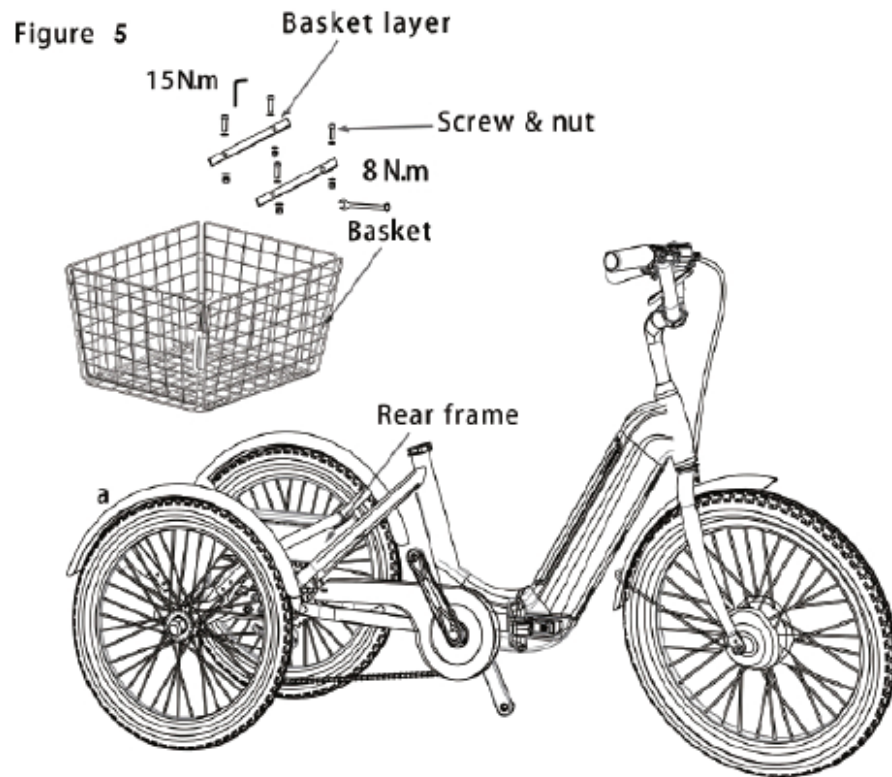


6 BASKET ASSEMBLY

STEP 5.A

Refer to Fig.5. Attach the basket to the rear frame with:

- Basket Layer
- Screws
- Nuts



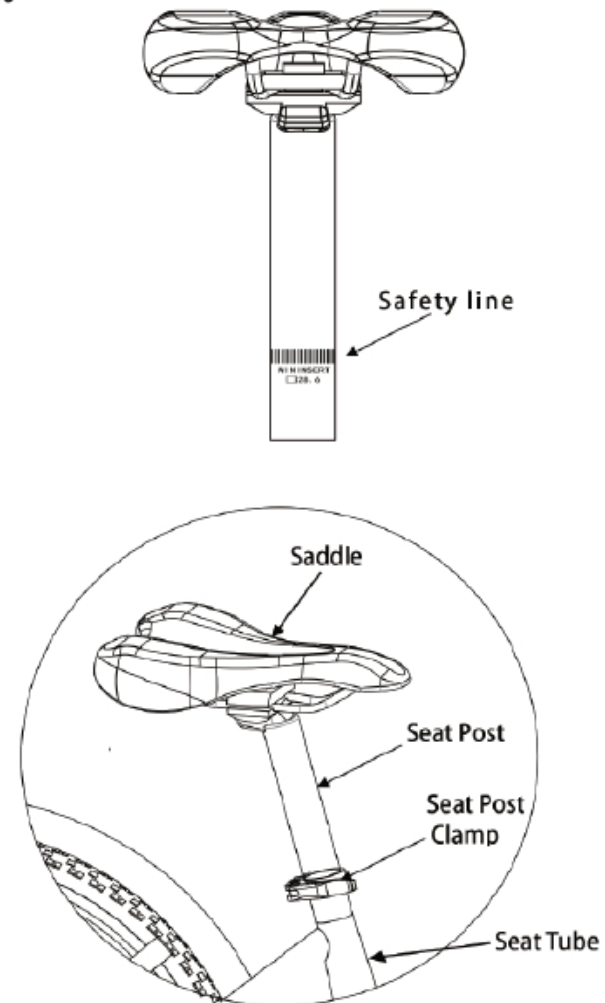
7 FENDER AND FRONT CHAIN AND COVER ASSEMBLY

STEP 6.A Attach saddle to seat post clamp and tighten slightly.

STEP 6.B Insert the seat post into the seat tube and tighten bolts (NOTE: Safety line should be covered)

STEP 6.C Adjust seat angle and retighten seat clamp.

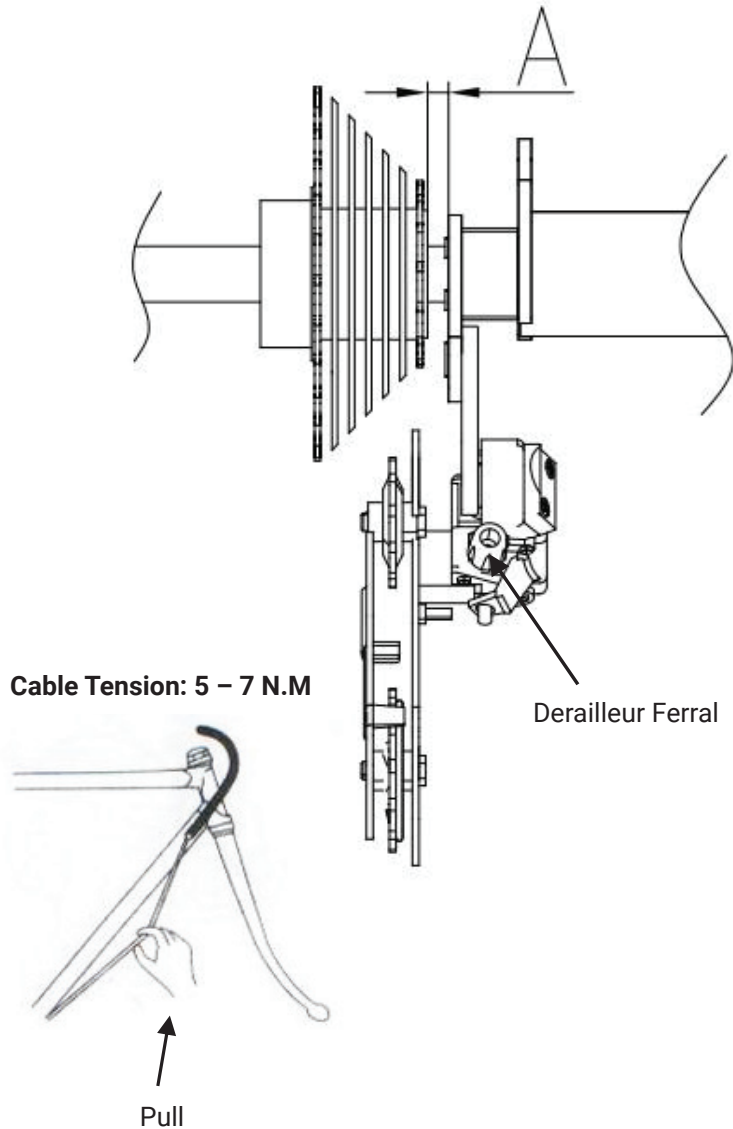
Figure 6



ATTACHMENT 1

Adjust the position of freewheel to make sure the distance between gear free-wheel and derailleur is equal to 5~6mm.

Feed the inner gear cable through the derailleur ferral and secure with lock nut.

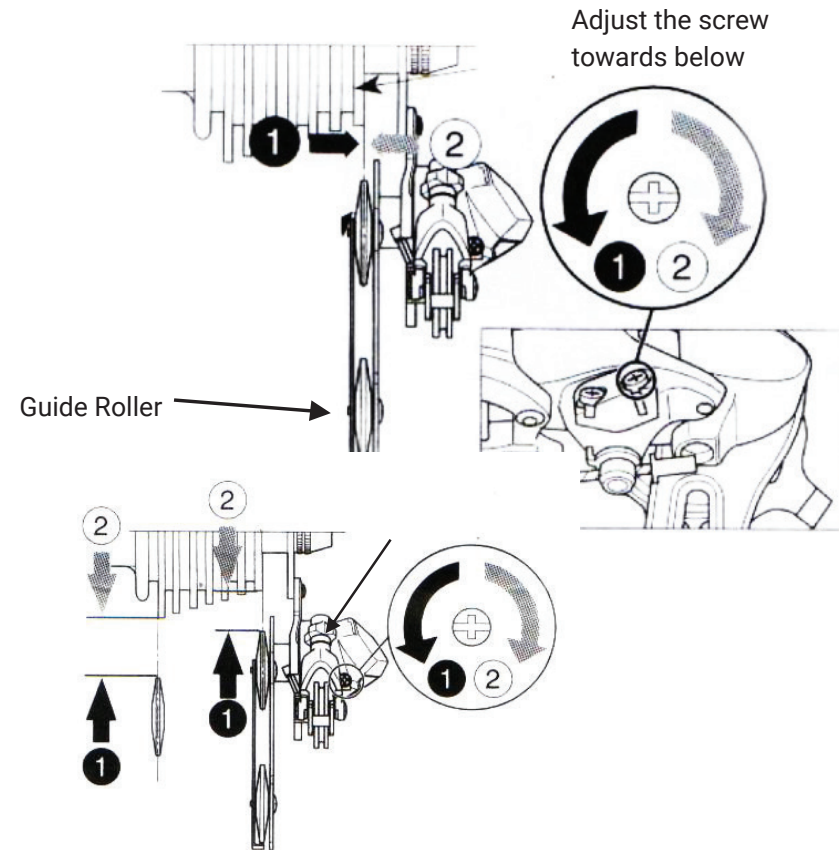


ATTACHMENT 2

A. Turn the top (marked H) adjustment screw to so that the guide roller is below the outer line of the smallest sprocket when looking from the rear.

B. Turn the low (marked L) adjustment screw so that the guide pulley moves to a position directly below the largest sprocket. Ensure it does not over shift.

NOTE: These screws are stop screws only so the derailleur does not over shift.



Adjust the tightness of inner cable to ensure the derailleur shifts smoothly.

If the cable is too loose:

The derailleur will not upshift to the larger sprockets

If the cable is too tight:

The derailleur will not downshift to the smaller sprockets

V. COMPONENTS

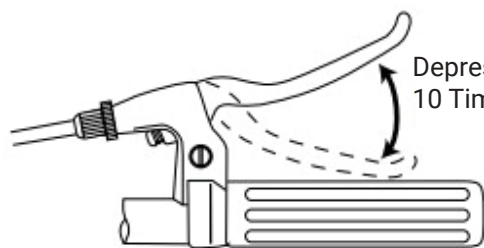
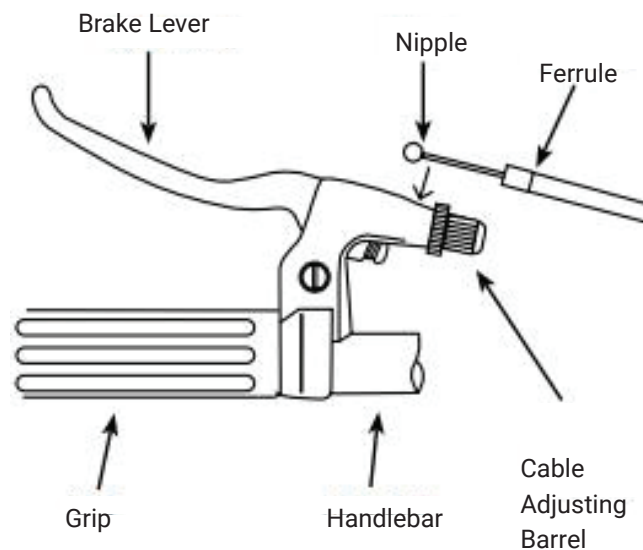
Disc-Brake Adjustment

The city bike uses the Australian style of the brake system. The right brake lever is for the front wheels while the left for rear wheel.

Important:

Brake pad wear limit: replace the brake pads before the friction material has been worn down to less than 2.5 mm.

1. Open the brake lever and place the nipple end of the short brake cable into the lever, then close the lever. Secure the ferrule against the lever using the cable adjusting barrel.



2. Depress the brake lever about 10 times as far as the grip to check that everything is operating correctly and that the shoe clearance is correct before riding the bike.

TIRES

Bicycle tires are available in many designs and specifications, ranging from general-purpose designs to tires designed to perform best under very specific weather or terrain conditions. If, once you've gained experience with your new bike, you feel that a different tire might better suit your riding needs, your dealer can help you select the most appropriate design.

The size, pressure rating, and on some high-performance tires the specific recommended use, are marked on the sidewall of the tire. The part of this information which is most important to you is Tire Pressure.

WARNING: Never inflate a tire beyond the maximum pressure marked on the tire's sidewall. Exceeding the recommended maximum pressure may blow the tire off the rim, which could cause damage to the bike and injury to the rider and bystanders.

The best and safest way to inflate a bicycle tire to the correct pressure is with a bicycle pump which has a built-in pressure gauge.

Tire pressure is given either as maximum pressure or as a pressure range. How a tire performs under different terrain or weather conditions depends largely on tire pressure. Inflating the tire to near its maximum recommended pressure gives the lowest rolling resistance; but also produces the harshest ride. High pressures work best on smooth, dry pavement. Very low pressures, at the bottom of the recommended pressure range, give the best performance on smooth, slick terrain such as hard-packed clay, and on deep, loose surfaces such as deep, dry sand.

Tire pressure that is too low for your weight and the riding conditions can cause a puncture of the tube by allowing the tire to deform sufficiently to pinch the inner tube between the rim and the riding surface.

TIRE VALVES

The tire valve allows air to enter the tire's inner tube under pressure, but doesn't let it back out unless you want it to. There are primarily two kinds of bicycle tube valves used in Australia: the Schraeder Valve and the Presta Valve. The bicycle pump you use must have the fitting appropriate to the valve stems on your tire.

The tires use a Schraeder valve, which is like the valve on a car tire. To inflate a Schraeder valve tube, remove the valve cap and push the air hose or pump fitting onto the end of the valve stem. To let air out of a Schraeder valve, depress the pin in the end of the valve stem with the end of a key or other appropriate object.

1. Check whether rim is deflected or loosened and whether spoke is loosened or broken before riding. If any unusual condition, ask professional technician for adjustment or change.
2. Please change the tyre if cover tyre grain is worn and torn.
3. Please guarantee proper PSI. When inflating, please take nominal value of cover tyre as reference. Never inflate over the pressure or under the pressure.

CAUTION: PLEASE MAKE SURE THE CONTACT AREA OF TYRE AND GROUND SHOULD NOT BE LESS THAN 10CM WHILE RIDING.

CHANGE OF PEDALS

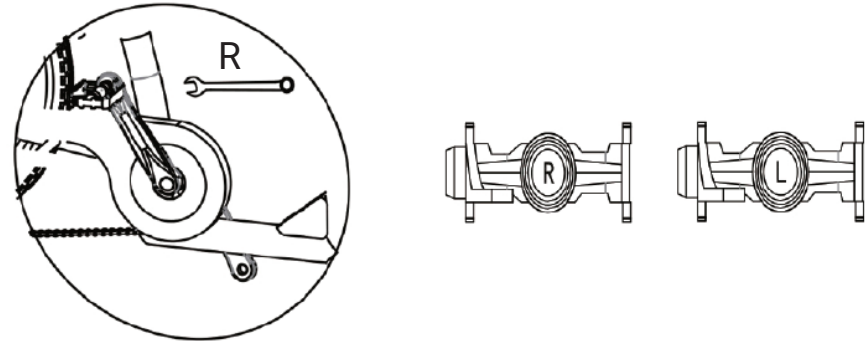
Left pedal and right pedal should be clarified when changing. Pedal spindle is usually engraved with "R" and "L".

Tool: 15mm open end wrench

When changing Right side, clockwise rotation is to lock and anticlockwise rotation is to disassemble.

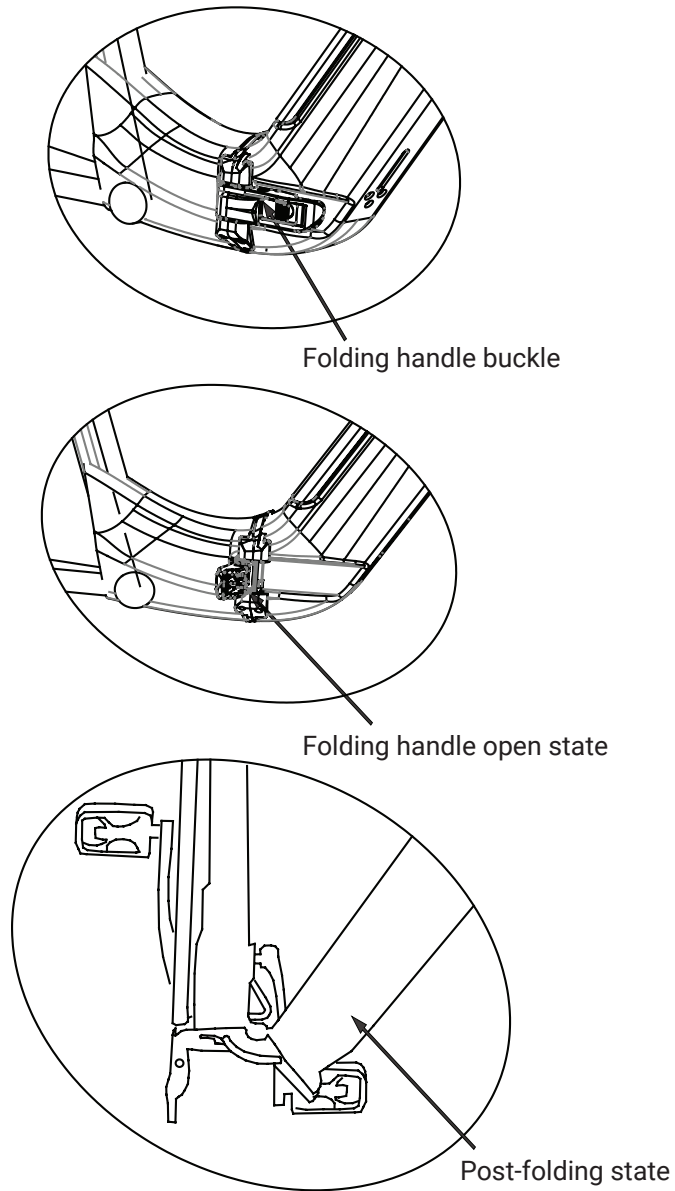
When changing Left Side, clockwise rotation is to disassemble and anticlockwise rotation is to lock.

Tightening torque should be more than 18N.m



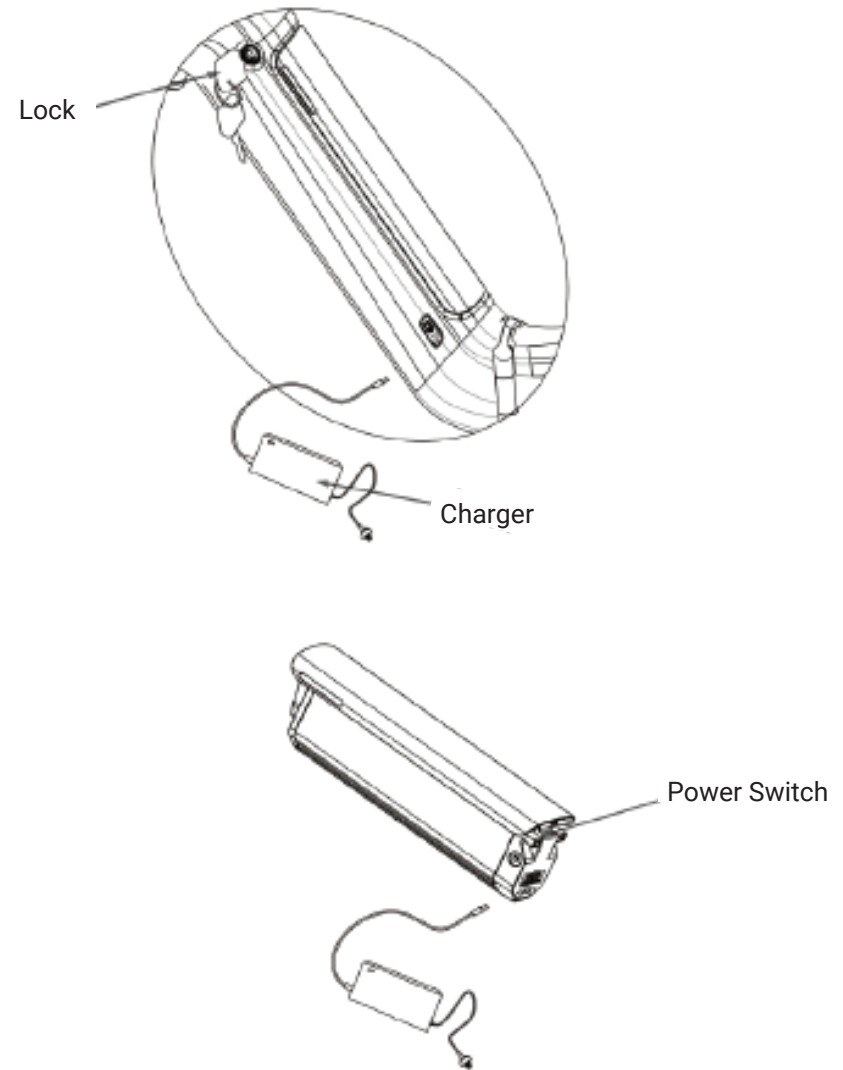
FOLDING DIAGRAM

- A) Slip the folding handle buckle to the right. Open the folding handle.
- B) Fold the front frame to the left

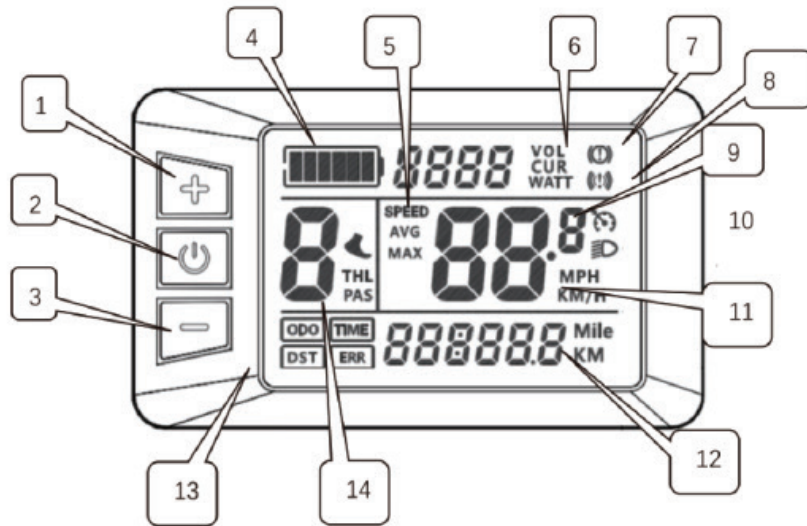


VI. ELECTRONICS

1. Battery Diagram



2. LCD Control Panel - Buttons and Indicators



1		Up Button
2		Power On/Off Button
3		Down Button
4		Battery Voltage Level
5	SPEED	Speed in Real Time
	AVG	Average Speed
	MAX	Max Speed
6	VOL	Battery Voltage
	CUR	Current in Real Time
7		Brake enabled
		Com Error
9		Cruise Mode

10		Real time speed
11	MPH	Speed unit in mile
	KM/H	Speed unit in km
12	Mile	Distance unit in mile
	KM	Distance unit in km
13	ODO	Total distance
	DST	Single trip distance
	TIME	Single trip time
	ERR	Error alarm
14		Push-Assistance mode
	THL	Throttle mode enabled
	PAS	PAS mode enabled

It is the responsibility of the supplier of your bicycle to include with this Owner Manual all relevant WARRANTY details.

Proof of ownership may be required before warranty provisions can be processed.

YOUR CONSUMER RIGHTS:

White pages telephone directories list State and Territory consumer and fair trading office numbers.

Key Words: CONSUMER AFFAIRS / FAIR TRADING

Government web sites provide extensive information. Check these sources.

Warranty enquiries should be made to the point of sale (the retailer) in the first instance.

**THE INFORMATION CONTAINED IN THIS MANUAL
COMPLIES WITH RELEVANT AUSTRALIAN AND NEW
ZEALAND STANDARDS AT THE TIME OF PRINTING.**

**THIS MANUAL MAY NOT BE REPRODUCED WITHOUT
THE WRITTEN PERMISSION OF BIA LTD.**

VII. WARRANTY

AUSTRALIAN CONSUMER LAW

Many of our products come with a guarantee or warranty from the manufacturer. In addition, they come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage.

You are entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Full details of your consumer rights may be found at www.consumerlaw.gov.au.

Please visit our website to view our full warranty terms and conditions:
www.progearbikes.com.au/pages/warranty-repairs

WARRANTY AND SUPPORT

Please email us at support@progearbikes.com.au for all warranty or support issues.

For all warranty or support related enquiries, please lodge a support ticket first by sending us an email.

PROGEAR

www.progearbikes.com.au