

BENEVO MOTORS

ADVENTURE



OWNER'S MANUAL

Read and understand this entire manual before using!

NOTE: Manual illustrations are for demonstration purposes only.

Illustrations may not reflect exact appearance of actual product.

Specifications subject to change without notice.

OFF ROAD USE ONLY!!!

NEVER OPERATE THIS VEHICLE IF YOU ARE UNDER

AGE 6!!!

INTRODUCTION

Thank you for purchasing this product. The proper care and maintenance that your vehicle requires is outlined in this manual. Following these instructions will ensure a long trouble-free operating life of this vehicle and your satisfaction with it.

SAFETY WARNING

This vehicle is NOT A TOY and ONLY used in closed off areas remote from public road traffic.

Never permit children under age 6 to operate this vehicle.

Adult's supervision is required if children under age 16.

WARNING:

Riding this vehicle can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. Like other vehicles, the Mini Dirt Bike can and is intended to move, and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur you can be seriously injured or die, even when using safety equipment and other precautions. **RIDE AT YOUR OWN RISK AND USE COMMON SENSE.**

This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use your mini dirt bike. Because any incident can result in serious injury or even death, we do not repeat the warning of possible serious injury or death each time such a possibility is mentioned.

APPROPRIATE RIDER USE AND PARENTAL SUPERVISION

This manual contains important safety information and use tips to help you and your child operate and handle the mini dirt bike. Carefully read the manual in its entirety together with your child before letting your child ride it for first time. The manual also contains important information on servicing the vehicle.

It is your responsibility to review the manual and make sure that all riders understand all warnings, cautions, instructions and safety topics and assure that the riders are able to safely and responsibly use this product and protect your child from injury. We recommend that you periodically review and reinforce the information in this manual with your child, and that you inspect and maintain your children's vehicle to insure their safety. **The recommended rider age of 6 years** is only an estimate, and can be affected by the rider's size, weight or skills. Any rider unable to fit comfortably on the mini ATV should not attempt to ride it.

It is important and necessary to conduct the technical training for your child before first use. To get the training information, please contact the dealer who you purchase the vehicle from. Before your child complete the training, do not let your child use this vehicle.

Children often underestimate or fail to recognize the dangerous situation, you should make it clear to your child that should not, under any circumstances, operate the vehicle without supervision and that your child may only drive at speed that are commensurate with the child's riding ability and other road condition.

A parent's decision to allow his or her child to ride this product should be based on the child's maturity, skill and ability to follow rules.

Keep this product away from small children younger than age 6 and remember that this

product is intended for use only by persons who are, at a minimum, completely comfortable and competent while operating the vehicle

Do not exceed **135lbs (60kgs)** total weight on this vehicle. Rider weight does not necessarily mean a person's size is appropriate to fit or maintain control of this vehicle.

Do not touch the brakes or motor on your bike when in use as they can become very hot.

ACCEPTABLE RIDING PRACTICES AND CONDITIONS

Always check and obey any local laws or regulations which may affect the locations where the vehicle may be used.

Ride defensively. Watch out for potential objects that could catch your heel or force you to swerve suddenly or lose control. Be careful to avoid pedestrians, skaters, skateboards, scooters, bikes, children or animals who may enter your path, and respect the rights and property of others.

This vehicle is meant to be used only in controlled environments free of potential traffic hazards and not on public streets or sidewalks. Do not ride your vehicle in any areas where pedestrians or product traffic is present.

Do not activate the speed control on the hand grip unless you are on the vehicle and in a safe, outdoor environment suitable for riding.

The vehicle was manufactured for performance and durability but are not impervious to damage. Jumping or other aggressive riding can over-stress and damage any product, including this vehicle, and the rider assumes all risks associated with high-stress activity. Be careful and know your limitations. Risk of injury increased as the degree of riding difficulty increases. The rider assumes all risk associated with aggressive riding activities.

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Never use headphones or a cell phone when riding.

Never hitch a ride with another vehicle.

Do not ride the vehicle in wet or icy weather and never immerse the vehicle in a water, as the electrical and drive components could be damaged by water or create other possibly unsafe conditions.

The vehicle is intended for use on flat, level ground without loose debris such as rocks or gravel. Wet, slick, bumpy, uneven or rough surfaces may impair traction and contribute to possible accidents. Do not ride the vehicle in mud, ice, puddles or water. Avoid excessive speed that can be associated with downhill rides. Never risk damaging surfaced such as a carpet or flooring by use of the vehicle in doors.

Do not ride at night or when visibility is limited

PROHIBIED ITEMS

★ Do not touch the brakes or engine when the vehicle is in use as they can become very hot.

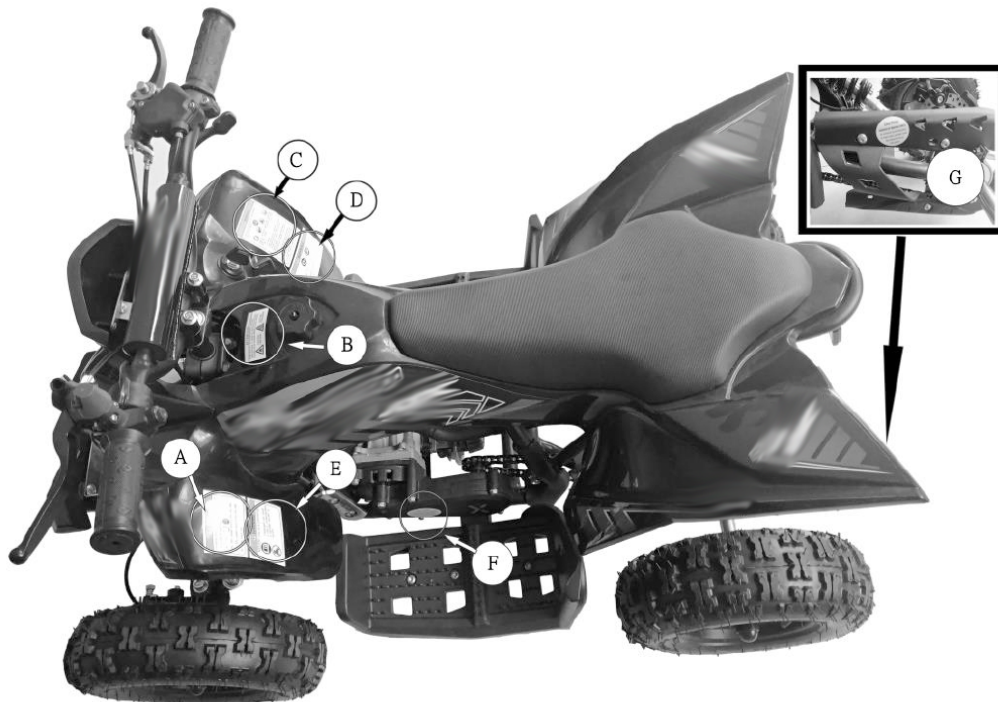
- ★ This vehicle should use mixture of the unleaded gasoline and the two cycle engine oil. The volume ratio is 25:1. Do not use any degraded fuel (which smells sour) or fuel of wrong mixture ratio. It will cause a poor start, insufficient output or damage the engine.
- ★ Do not use 4 cycle engine oil. (Otherwise, it causes the plug to be degraded, the piston ring to seize or the muffler to be clogged)
- ★ Do not run the engine in a room or poor ventilated area. (the exhaust gas includes odorless but hazardous carbon monoxide.)
- ★ Do not put your fingers and other body parts near to the drive chain, steering system, wheels and all other moving components.
- ★ Do not store, spill or use any gasoline near a fire, stove, oven, boiler or other instruments which uses a pilot light or spark. (Otherwise, it may cause an explosion.)
- ★ Smoking is strictly prohibited while refilling the fuel
- ★ While the engine is running or while it remains hot soon after stopping, do not remove the Lid of the fuel tank or refill the fuel. (Before refilling the fuel, stop the engine and cool it down 2 minutes or more)
- ★ If any gasoline is spilled or smelled or any danger of explosion felt, do not run the engine.
- ★ Do not check any spark while keeping the spark plug removed.
- ★ Do not run the engine with the muffler or air cleaner cover removed.
- ★ Do not touch any hot muffler or engine part. (Otherwise, it may cause a burn.)
- ★ When the engine runs, do not touch any spark plug cap or high tension cord. (Otherwise, it may cause an electric shock and harm your body.)
- ★ Never use alcohol or drugs before or while operating.
- ★ Your insurance policy may not provide coverage for accidents involving the use of this vehicle. Consulting your insurance agent before using this vehicle.

PROPER RIDING ATTIRE

Always wear proper protective equipment such as an approved safety helmet, elbow pads and kneepads. A helmet may be legally required by local law or regulation in your area. A long-sleeved shirt, long pants and gloves are recommended. Always wear athletic shoes, never drive barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system.

FAILURE TO USE COMMON SENSE AND HEED THE ABOVE WARNINGS INCREASES RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.

LOCATION OF WARNING STICKER



Sticker A as below is located on the left front fender.



Sticker B as below is located on the front of fuel tank cap

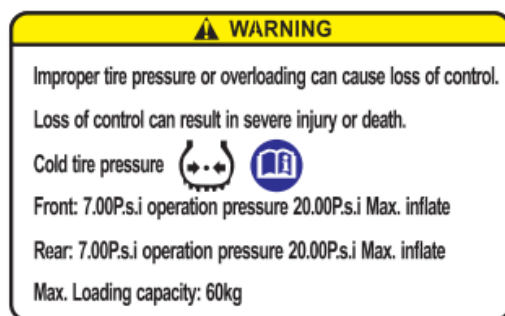


Sticker C as below is located on the right front fender



Sticker D as below(left) is located on the right front fender

Sticker E as below(right) is located on the left front fender.

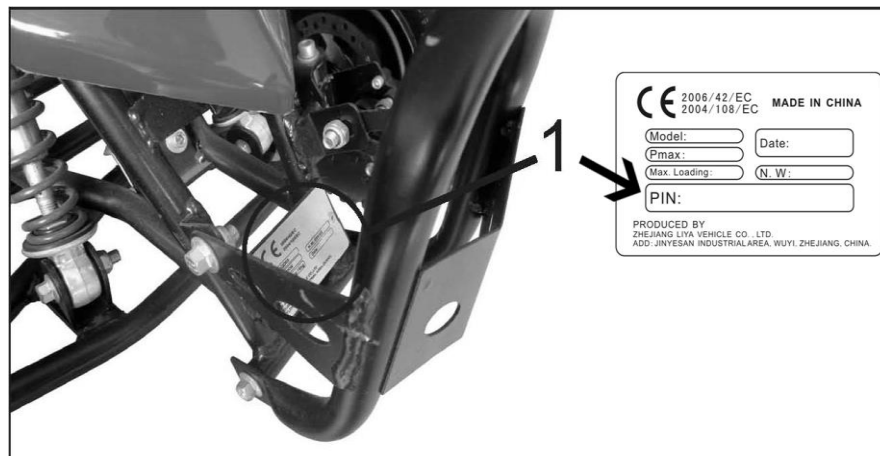


Sticker F as below(left) is located on the left side of engine

Sticker G as below(right) is located on the chain cover.



PIN LOCATION



PIN is stamp marked on an aluminum plate that is riveted on the front frame. (see picture 4).
PIN means the Product Identify Number which is unique for each unit.

BEFORE YOU BEGIN

Remove contents from box. Remove the foam separators that protect the components from damage during shipping. Inspect the contents of the box for scratches in the paint, dents or kinked cables that may occur during shipping. Because the product was 85 percent assembled and packed at the factory, there should not be any problems, even if the box has a few scars or dents.

Estimated Assembly and Set-Up Time

We recommend assembly by an adult with experience in motorbike or bicycle mechanics.
Allow up to 30-40 minutes for assembly.

Required Tools

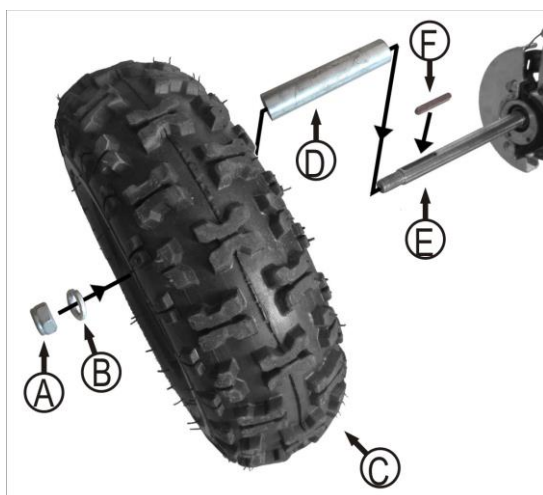
Some tools may be supplied; however, we recommend the use of mechanic's grade tools. Use the supplied tools only as a last resort.

The list of tool required is as follows

- Open end wrench 10mm / 13mm/ 17mm / 22mm
- Allen wrench 5mm / 6mm/ 8mm
- Bicycle style tire pump with pressure gauge

Assembly illustration and instruction

ASSEMBLY REAR WHEEL



A: Nut M14 / 2pcs

B: Washer $\Phi 14$ / 2pcs

C: Rear wheel

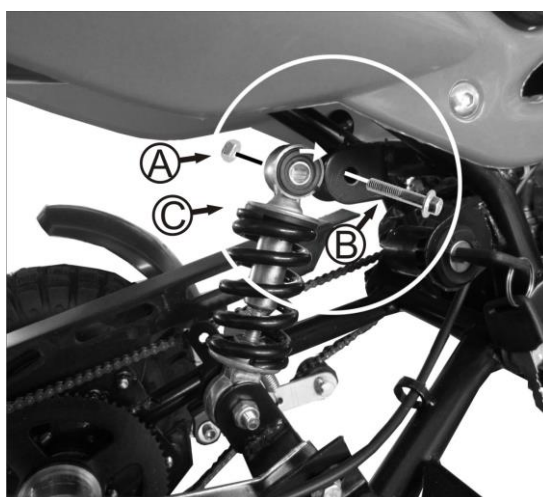
D: Sleeve $\Phi 22 \times 1.8 \times 112$ / 2pcs

E: Rear axle

F: Pin / 2pcs

1. Install the sleeve(D) to the rear axle (E).
2. Put the pin(F) into the groove on the axle.
3. Fix the wheel(C) through the axle.
4. Mount the spring washer (B) and then tighten the nut(A) securely with 22mm open end wrench.

ASSEMBLY REAR SHOCKER



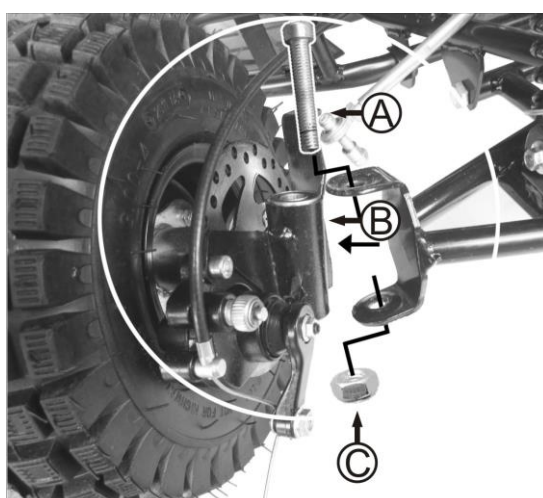
A: Nut M8 / 1pc

B: Bolt M8 $\times$ 40 / 1pc

C: Rear shock

1. Uplift the frame to align the shock (C) mounting hole to the shackle joint hole.
2. Fix the bolt (B) through the shock mounting hole and shackle joint and tighten the nut (A) securely with 10mm -13mm open end wrench

ASSEMBLY FRONT WHEEL



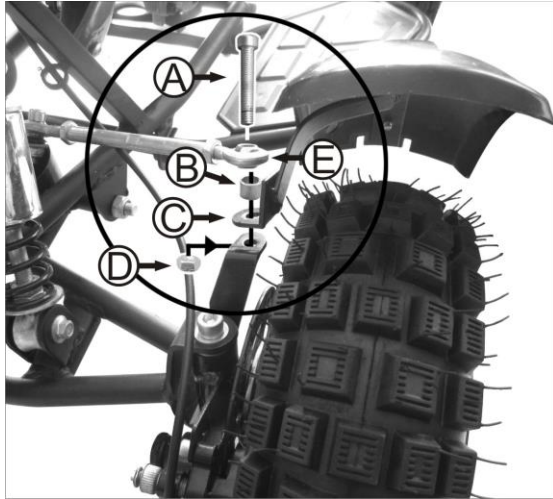
A: Bolt M10 $\times$ 90 / 2pcs

B: Wheel suspension left and right

C: Nut M10 / 2pcs

1. Put the front wheel suspension (B) into the front swing arm joint, align the bearing hole to the joint upper and bottom hole.
2. Mount the bolt (A) through the hole and twist the nut (C),tighten it securely with 17mm open end wrench and 8mm hex wrench.

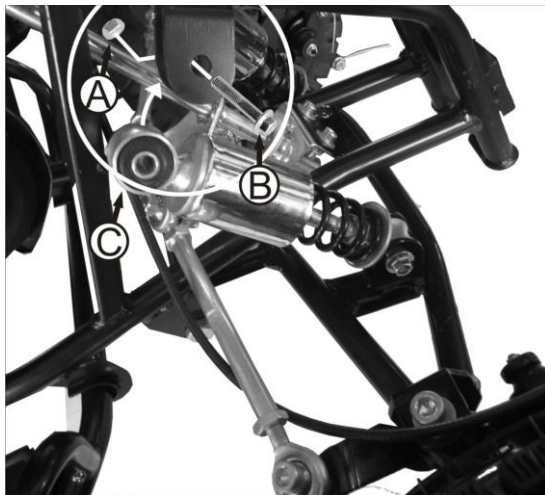
ASSEMBLY TIE ROD



- A :Bolt M8×40 / 2pcs
- B: Bush $\Phi 10 \times 1.5 \times 10$ / 2pcs
- C: Bracket left and right / 2pcs
- D :Nut M8 / 2pcs
- E. Tie rod left and right / 2pcs

1. Align the hole of tie rod end ball (E), bush(B), bracket of mudguard(C) in sequence.
2. Mount the bolt(A) and tighten the nut (D) securely with 13mm open end wrench and 6mm hex wrench.

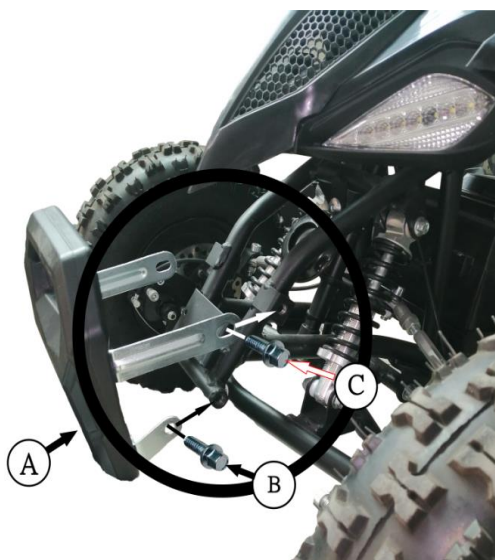
ASSEMBLY FRONT SHOCK



- A:Nut M8 / 2pc
- B:Bolt M8×40 / 2pc
- C:Front shock L&R

1. Uplift the frame to align the shock (3) mounting hole to the shackle joint hole.
2. Fix the bolt (2) through the shock mounting hole and shackle joint and tighten the nut (1) securely with 10mm and 13mm open end wrench.

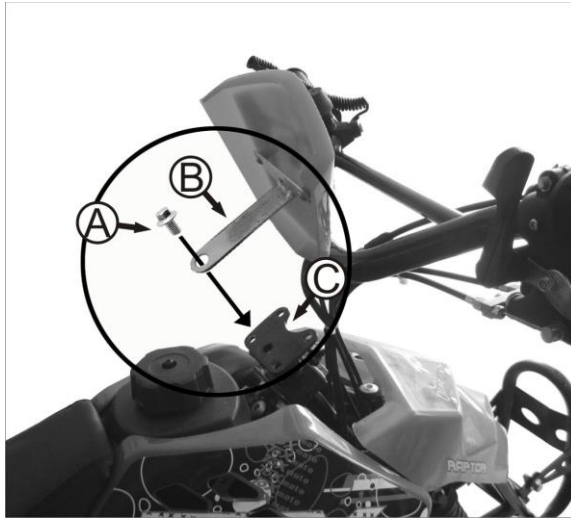
ASSEMBLY BUMPER



- A: Bumper
- B: M8X16 / 2pcs
- C: M8X12 / 2pcs

1. Align the bottom mounting hole of bumper (A) to the frame bottom joint and mount the bolt (B), NOT tighten the bolt to keep the bumper free move.
2. Turn upwards the bumper to align the upper mounting hole of bumper to the frame upper joint, then mount the bolt (C) and twist the nut (D).
3. Tighten the bolt (B) and nut(D) securely with 10mm and 13mm open end wrench

ASSEMBLY NUMBER PLATE



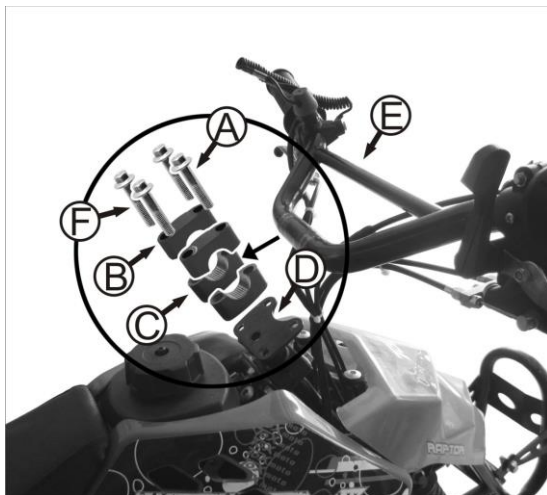
- A: Bolt M8×16 / 1pc
- B: Number board bracket
- C: Steering rod plate

1. Place the bracket (B) on the steering rod plate (C) with the hole in alignment.
2. Install the bolt (A) and tighten it with 10mm open end wrench

ASSEMBLY HANDLEBAR

WARNING:

Failing to properly adjust and tighten the bolts that affix the handlebars can cause you to lose control and crash.



- A: Bolt M8×50 / 4pcs
- B: Upper Clamp
- C: Bottom Clamp
- D: Steering rod bracket
- E: Handle bar

1. Put the bottom clamp (C) on the steering rod plate (D) with the screw hole in alignment, and place the handlebar (E) in the bottom clamp, then cover the upper clamp (B) on the handlebar and install the 4pcs bolt (A).
2. Place the handlebar in the upright and vertical position, then tighten all the bolts securely with 10mm socket spanner.

HAND DRIVE CONTROLS



1. Rear brake lever
2. Front brake lever
3. Engine kill switch
4. Emergency kill switch
5. Accelerator thumb lever

A parking brake is available on the right handle



Pull on the lever and push the button to set it . To remove it, pull again the lever and it will be automatically released.

Inflating the Tires



NOTE:The 6" rear tires are inflated when shipped, but they invariably lose some pressure between the point of manufacturing and your purchase. Always inflate the tires to the correct PSI before first time use.

Please read the specification sheet to get the information of tire pressure.

Using a bicycle-style tire pump to inflate the tire to the PSI indicated on the sidewall of the tire.

Note: The pressurized air supplies found at gasoline stations are designed to inflate high-volume automobile tires. If you decide to use such an air supply to inflate your tires, first make sure the pressure gauge is working, then use very short bursts to inflate to the correct PSI. If you inadvertently over-inflate the tire, release the excess pressure immediately.

Important information of use guider for tire

Note: Tire is the only contact between the vehicle to the road, the safety of various driving activity depends on the small area of tire where contact with the road. Therefore, it is very important to keep the tire in good condition any time and use the correct size and standard tire to replace the old ones.

Guide:

Tire assembly and disassembly

It is strongly recommended that the tire assembly and disassembly should be done by an authorized technician with necessary skills.

Tire inflating pressure

It is very important to keep the tire in proper pressure and check the tire pressure before use. The inflating should be done while the tire is cold.

Tire maintenance

Tire tread depth should be checked regularly.(Shallower tread means less grip of tire). You must stop to use the vehicle if the tire is pierced, disassemble the tire and check it carefully. Tire maintenance should be done by an authorized technician. Tire should be replaced immediately when it is distorted or damaged.

Tire replacement

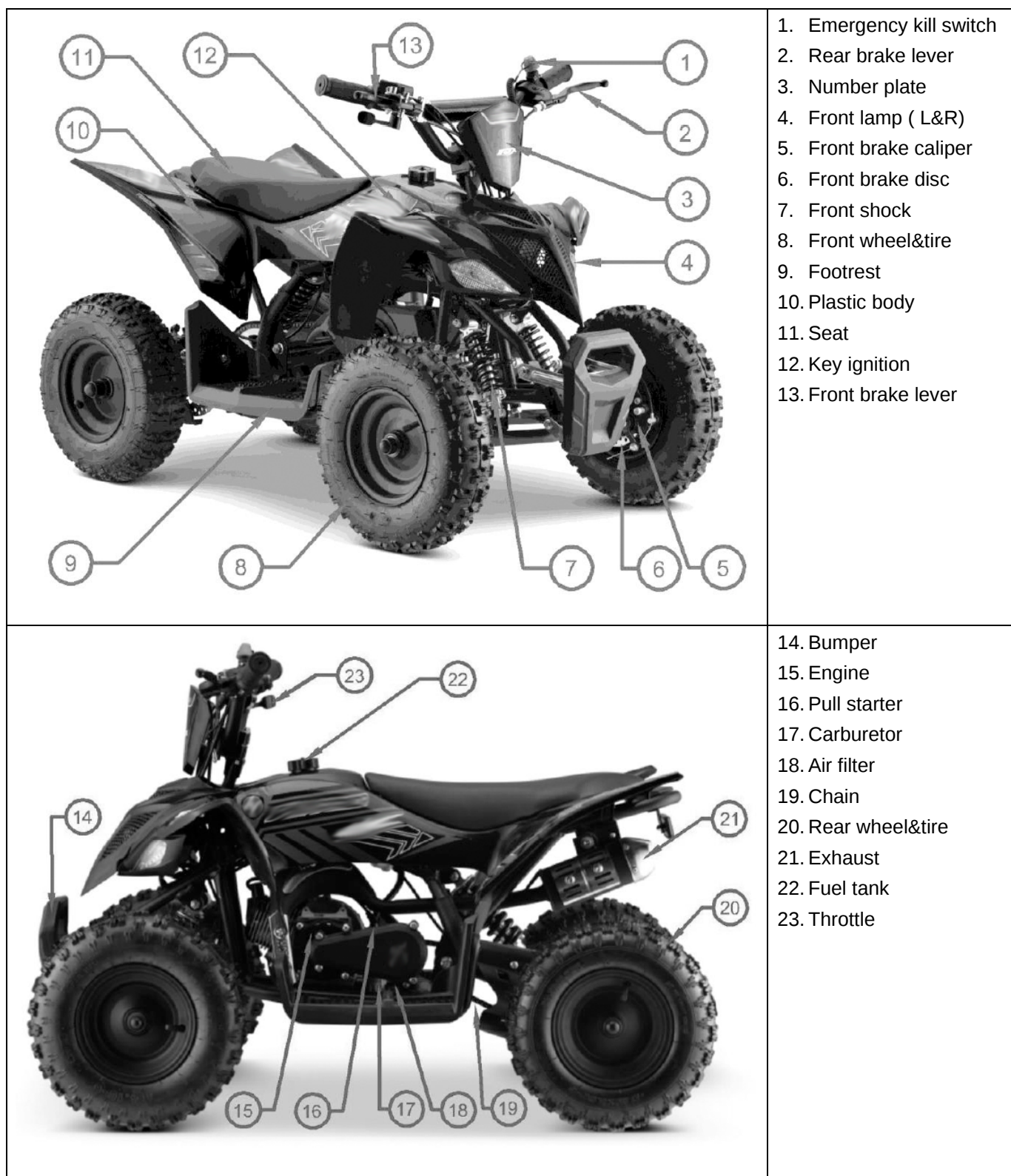
It is important to use the correct size and standard tire as per our specification (see details in technical specification sheet)

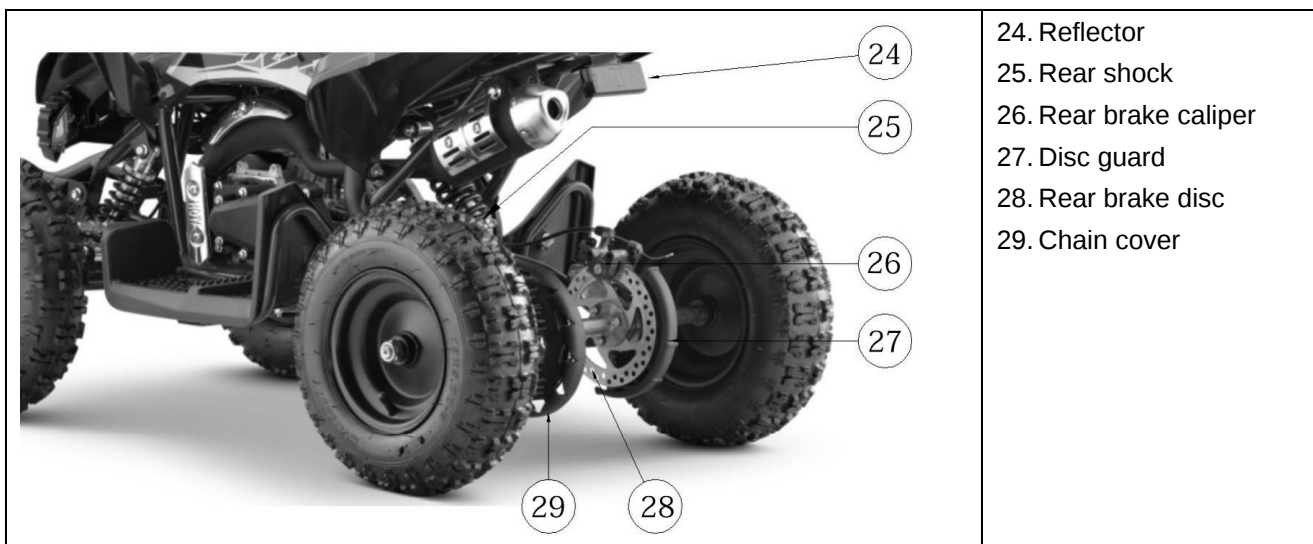
Don't use the used tire if you are not sure its previous service condition.

Tire aging

Tire aging is unavoidable even the tire is not ever used or just used a few times. Tire aging is mainly reflected in the cracked section on side of tire and tire tread, sometimes the tire is distorted as well. The used and aged tire should be checked and confirmed if it is ok to use again by an authorized technician

MAIN PARTS DESCRIPTION





TECHNICAL SPECIFICATION SHEET

Engine type	single cylinder, 2 stroke, forced air cooling
Power output	1.6kw/7500rpm
Max torque	2.0 N.m/3600rpm
Displacement (ml)	44
Fuel	Petrol mixed with 4% 2-stroke engine oil
Compression Ratio	7.5 : 1
Transmission	automatic with centrifugal clutch
Start method	manual pull start
Optional start method	Electric start
Battery for E-start version	12V 4AH
Max.speed (km/h)	38
Front suspension	double mechanical damper
Rear suspension	mono shock
Tyre	front 4.10-6 with 7.00 P.s.i. operation pressure and 20 P.s.i. Max. inflate , rear 13.00 x 5-6 with 7.00 P.s.i. operation pressure and 20 P.s.i Max. inflate .
Brake system	front and rear disc brake with mechanical control
Fuel tank capacity	1L
Dry Weight (Pull start version)	36KG
Dry Weight (Electric start version)	39KG
Dimension (mm)	1040 x 640×665
Seat height (mm)	475
Wheelbase (mm)	690

SAFETY REMINDERS

PRE-RIDE CHECKLIST

☐ Loose Parts

Check and secure all fasteners before every ride. Make sure steering stem clamp bolts are locked properly in place. There should not be any unusual rattles or sounds from loose parts or broken components. If you are not sure, ask an experienced mechanic to check.

☐ Brake

Check the brake for proper function. When you squeeze the lever, the brake should provide positive braking action.

☐ Frame, Fork and Handlebars

Check for cracks or broken connections. Although broken frames are rare, it is possible for an aggressive driver to bash into a curb or wall and wreck and bend or break a frame. Get in the habit of inspecting yours regularly.

☐ Tire Inflation

Periodically inspect the tires for excess wear, and regularly check the tire pressure and re-inflate as necessary. If you get a flat tire, the inner tube can be patched or a new tube can be purchased from an authorized repair shop.

☐ Safety Gear

Always wear proper protective equipment such as an approved safety helmet, elbow pads and kneepads. Always wear shoes (lace-up shoes with rubber soles), never drive barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system

ATTENTION

We recommend checking all tightenings after the first time use. Special attention should be paid to the following parts:

- Footrest
- Engine sprockets (Racing version only)
- Shock
- Engine bolts and nuts
- Rear sprocket

ECOLOGIC DRIVE

The noise and the pollution of every vehicle depend on how it is driven.

We strongly recommend you to drive steadily, without strong acceleration and deceleration

During off road use, do not damage the environment, avoid noise and everything that can disturb persons and animals.

Use a sport drive only on race circuits.

REPAIR AND MAINTENANCE

● Checks and maintenance before and after off-road use

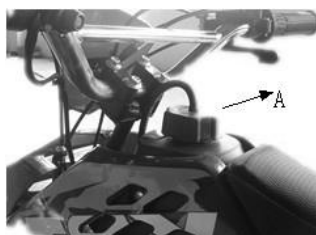
In order to avoid problems connected to the operation of the vehicle, it is advisable to perform a number of checks and maintenance operations before and after use. Just a few minutes given to these procedures will save you time and money, and will make riding much safer.

Proceed as follows:

- Check pressure, general condition and thickness of tread.

- On cold days, warm up the engine by running it at idle speed for a few minutes before starting off.
- Wash the vehicle carefully after every off-road use.

● Fueling operations



Remove cap **A** counterclockwise.

The fuel tank will hold approximately 1.0 liter.

Only use green fuel mixture with 4% oil (25: 1).

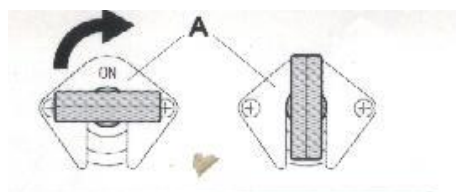
During the first 25 hours of operation running-in), the following precautions should be used;

- Avoid travel at high speeds
- Change speed often so that the parts will break in uniformly and in a shorter time
- Avoid turning the throttle more that 3/4 of the way.

Warning:

- Always use a mixture of green grade gas and a qualitatively good oil.
- After the first off-road use, check all of the nuts and bolts.

● Startup

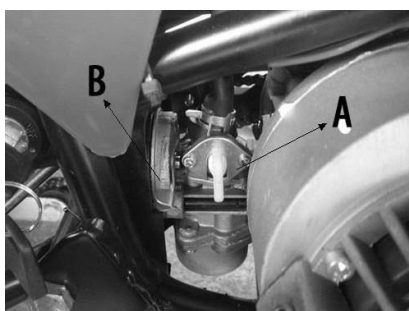


Manual hand pull

-Open fuel tank valve **A** **ON** = open

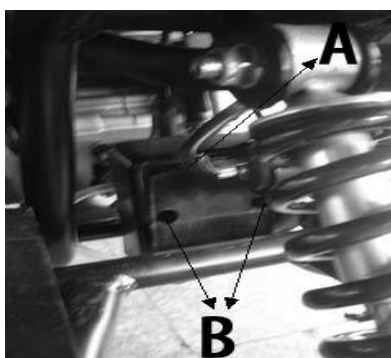
- Sharply pull on the starter as shown in the figure while slightly turning the throttle twist grip.
- Always close the fuel tank valve when the engine is off.

Note:



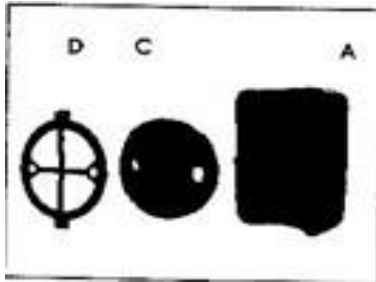
With the engine is cold, act on the starter by pushing **up** lever **B**, start the engine and wait for a short, then reposition the lever to its former position.

● AIR FILTER



Air filter box **A** is fitted directly on the carburetor.

To remove the box, undo the two screws **B**.



The filter box contains filter element **C** and support **D**

Note: If filter **C** is very dirty, wash it in shampoo and water and then reinsert it into its casing

Clean the filter every time after the vehicle is used in cross country.

● SPARK PLUG

Keeping the spark plug in good condition will reduce fuel consumption and increase engine performance.

To perform the check, simply slide off the electrical connection tube and unscrew the spark plug. Examine the distance between the electrodes with a feeler. This distance should be from 0.5 to 0.6 mm. If it is not, it may be corrected by bending the earth electrode.

Check as well that there are no cracks in the insulation or corroded electrodes. If so, replace immediately.

When replacing the spark plug, screw it in by hand until it stops, then tighten with a wrench.

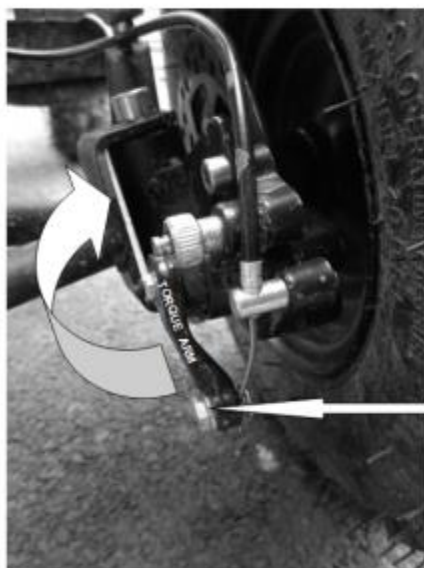
● BRAKES

□ Adjusting the Brake

The mini ATV is with 2 front brake and 1 rear brake.

WARNING: The brake is capable of causing the mini quad to skid the tire throwing an unsuspecting rider. Practice in an open area free from obstacles until you are familiar with the brake function. Avoid skidding to a stop as this can cause you to lose control or damage the rear tire.

The front & rear brake settings are adjusted with a cable clamp.



Loosen the nut, hold the cable in position and adjust the torque arm by rotating it according to the tightening requested, tight the nut with 10mm spanner when it's adjusted.

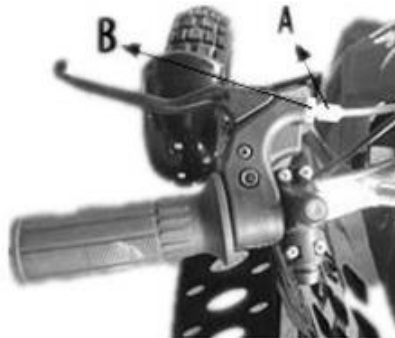
Brake pads check and replacement:

To check the wear of front and rear brake pads **A**, simply inspect the brakes calipers as shown in the below picture.



The thickness of the lining on the ends of the four pads should never be less than 1mm. Should the lining be thinner, immediately replace the brake pads.

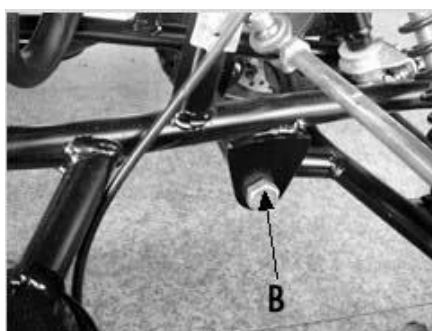
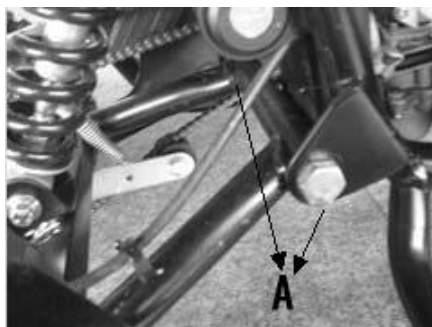
We recommend having the brake pads replaced by an authorized dealer.



The front and rear brakes is a mechanically operated disc brake, which require periodic adjustment. As shown in the figure, there should be 5-6 mm play, to adjust the play, follow these steps:

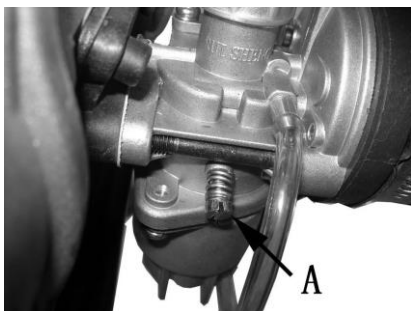
- Check the play in driving position.
- If the clearance is excessive, use adjuster **A** on the brake lever to obtain the desired position.
- Tighten lock nut **B**.

● CHECKS AFTER CLEANING



After cleaning the mini quad, it is good practice to:

- Take off the flywheel cover and remove any dirt and water.
- Apply the lubricant above articulation points **A** and **B** on the rear and front swing arm .
- Carefully clean and dry the chain-gear-position assembly and then apply grease thoroughly in order keep these parts in good condition as long as possible.
- Dry well any metal parts subject to corrosion, oxidation, etc.



ADJUSTMENT OF IDLING SPEED

In order to perform this operation correctly, we advise you to do it when the engine is hot, connecting an electric revolution counter to the spark plug wire. Then use a screwdriver on register screw **A** to calibrate the minimum.

● CAUTION!!!



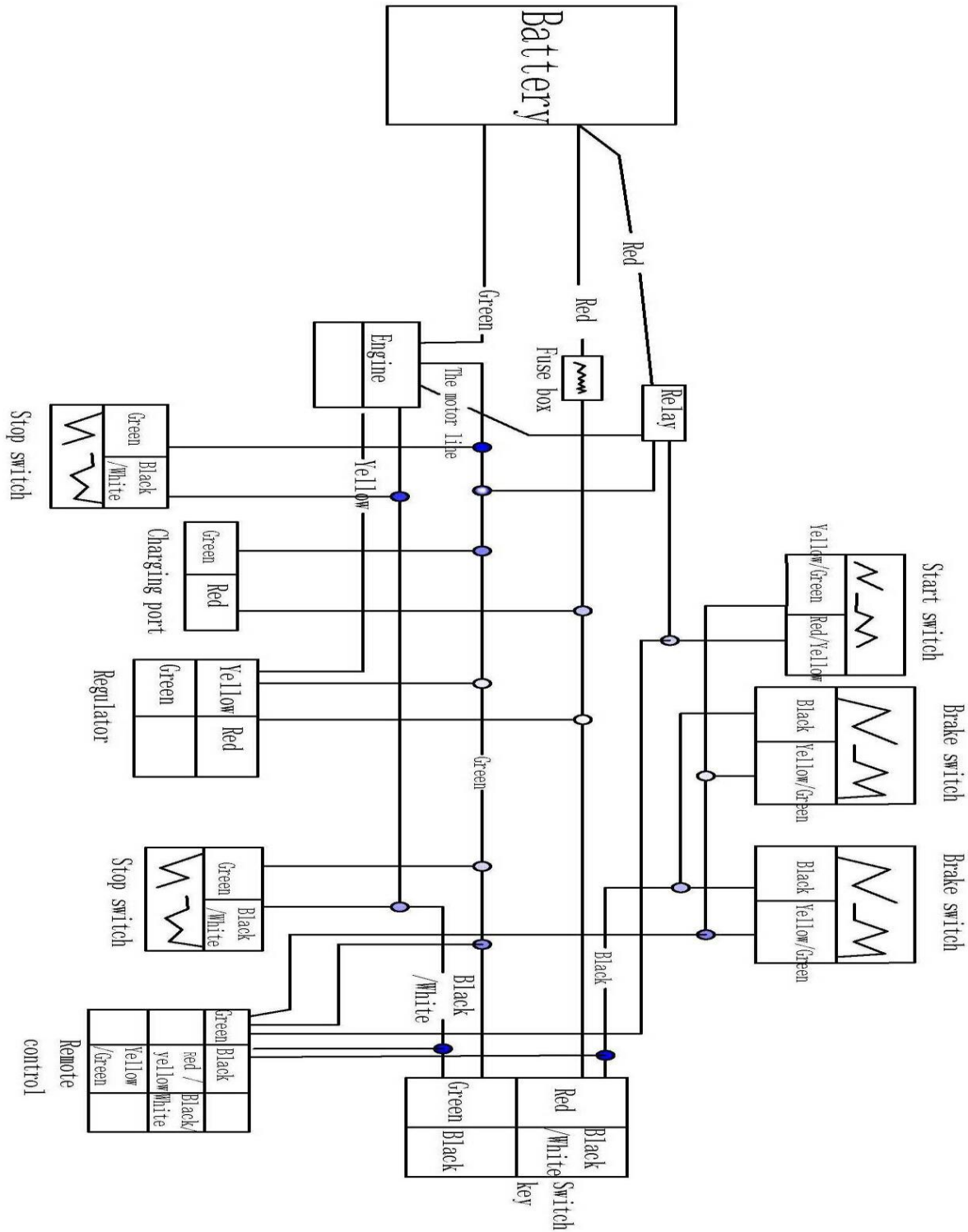
Always release the remaining fuel from the carburetor after use every time, follow the below steps

1. use a screwdriver to screw out the drain plug at the bottom of carburetor.
2. release the remaining fuel.
3. use a screwdriver to tighten the drain plug securely.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
The engine doesn't start	-Fuel system(tubes, fuel tank, valve) is blocked	Clean the system
	-No current arriving at spark plug	Clean or replace spark plug. If the problem persists, consult one of our Authorized Dealers
	-Engine is flooded	With gas completely open, continue trying to start engine for a few Moments. If engine still doesn't start, remove the spark plug and dry it off.
Engine misfires	-Spark plug has irregular electrode distance	Restore correct distance
	-Spark pug is dirty	Clean or replace
Engine overheats and loses power	-Silencer partially obstructed	Contact an authorized dealer
	-Exhaust clearance partially obstructed	Contact an authorized dealer
	-Mix too lean	Jet may be partially obstructed
	-Delayed ignition	Contact an authorized dealer
Weak brake	-Worn Brake pads	Contact an authorized dealer

CIRCUIT DIAGRAM for Electric start model





Please read the owner's manual before riding.



Never operate this vehicle if you are under age 6.



Never use the vehicle on public road. OFF ROAD use only.



Never ride with a passenger



Always use an approved helmet and protective gear



NEVER use with drugs or alcohol



Cold tire pressure.