HP

2 STROKE 49CC

OFF ROAD MINI ATV

OWNER'S MANUAL

Important Information! Read thoroughly before driving the first time.

All information, images and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or production changes, there could be discrepancies in this manual. We reserve the right to make product changes at any time, without notice and without obligation to make the same or similar changes to any vehicle previously built or sold.

INTRODUCTION

Thank you for purchasing this mini ATV. The proper care and maintenance that your vehicle requires are outlined in this manual. Following the instruction will ensure a long trouble-free operating life of this vehicle and your satisfaction with it.

The owner's manual corresponded to the latest state of this vehicle at the time of printing. Slight deviations resulting from continuing development and design can, however, not be completely excluded. All specifications are non-binding, we reserve the right to modify or delete technical specifications, parts design, etc… without prior notice.

SAFETY WARNING

SAFETY WARNINGS

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

Never permit children under age 12 to operate this ATV.

Adult supervision is required if children are under the age of 16.

WARNING:

Riding a mini ATV can be a hazardous activity. Certain conditions may cause the equipment to fail without the fault of the manufacturer. Like other electric vehicles, the Mini ATV can and is intended to move, and I, therefore, fore possible to lose control, fall off, and/or get into dangerous situations that no amount of care, instruction, auction, 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 ATV. 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 useful tips to help you and your child operate and handle the mini ATV. Carefully read the manual entirely together with your child

before letting your child ride it for the 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 can 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 ensure their safety. **The recommended rider age of 12 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 technical training for your child before first use. To get the train information, please contact the dealer whom you purchased the vehicle from. Before completing 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 speeds that are commensurate with the child's riding ability and other road conditions.

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 12 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

ACCEPTABLE RIDING PRACTICES AND CONDITIONS
Always check and obey any local laws or regulations which may affect the locations where the Mini ATV may be used.

PROHIBITED ITEMS

★ Do not touch the brakes or engine when the ATV is in use as they can become very hot.
★ This vehicle should use a mixture of 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 the wrong mixture ratio. It will cause a poor start, insufficient output r damage to 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 poorly 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 afire, stove, oven, boiler, or other instruments which use 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 for 2 minutes or more.)
★ If any gasoline is spilled or smelled or any danger of explosion felt, do not run the engine.
★ Do not ride at night or when visibility is limited.
★ Never carry passengers or allow more than one person at a time to ride the mini ATV
★ 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 hitch a ride with another vehicle.

★ Do not ride in rainy, snowy days, slippery surfaces, or unstable due to gravel, sand, etc.

★ Never use alcohol or drugs before or while operating.

★ Do not ride if you weigh over **145lbs/65KG.**

★ Your insurance policy may not provide coverage for accidents involving the use of this vehicle. Consult your insurance agent before using this vehicle.

PROPER RIDING ATTIRE

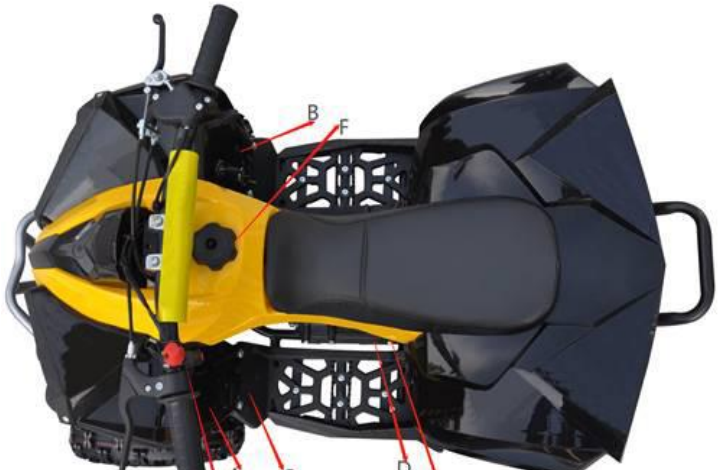
Always wear proper protective equipment such as an approved safety helmet, elbow pads, and kneepads. A helmet may be legally required by local law or regulation in your area. A long-sleeved shirt, long pants, and gloves are recommended. Always wear athletic shoes, never drive barefooted or in sandals, 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 THE RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.

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, and avoid noise and everything that can disturb persons and animals.
Ussportsport drives only on race circuits.

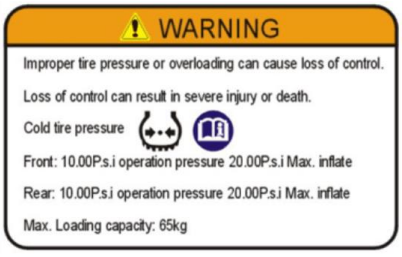
WARNING STICKER LOCATION



Sticker A is located on the left front fender.

Sticker B is located on the right front fender

Sticker C is located on the right front fender.

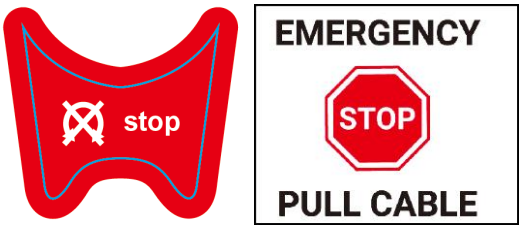


Sticker D is located on the left side of the engine

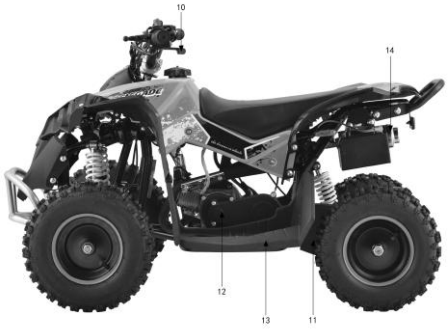
Sticker E is located on the chain cover

Sticker F is in the front of the fuel tank cap

Sticker G is located on the emergency pull off button



PRODUCTION DESCRIPTION



1. front brake lever
2. rear brake lever
3. handlebar
4. seat

5. front shocker	6. bumper
7. fuel tank	8. kill switch
10.throttle	9. front brake
11. chain cover	12. engine
13. footrest	14. exhaust

LOCATION OF PIN

The PIN is stamp marked on an aluminum plate that is riveted on the front of the frame

There is product's main specification information on this PIN plate.
PIN means the Product Identify Number which is unique for each unit.

BEFORE YOU BEGIN

Remove contents from the 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 tools required is as follows

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

CONTROL FUNCTIONS

MAIN SWITCH

Functions of the respective switch positions are as follows:
On: The engine can be started only at this position.
Off: All electrical circuits are switched off. The key can be removed in this position.

THROTTLE LEVER

Once the main switch is turned on, movement of the throttle lever will increase the motor speed. Regulate the speed of the motor by varying the throttle position. Check the throttle to be sure it is operating smoothly. Make sure it returns to the initial position as soon as the lever is released.

FRONT BRAKE LEVER

The brake lever is located on the right side of the handlebar. Pull down on the lever to apply the front brake.

REAR BRAKE LEVER

The brake lever is located on the left side of the handlebar. Pull down on the lever to apply the rear brake.

PARKING BRAKE

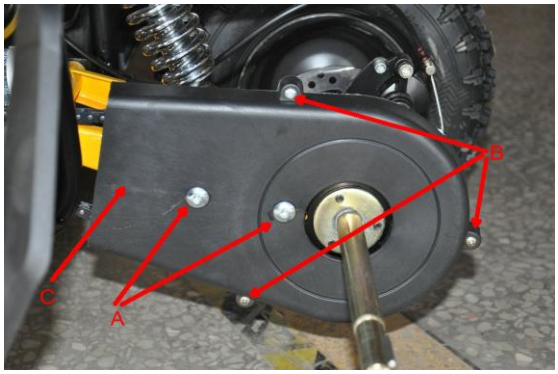
Apply the brake lever and then press down the stop button to apply the parking brake.
Squeeze the rear brake lever to release the parking brake.
When parking, stop the engine. Turn the fuel cock to "OFF" and apply the parking brake

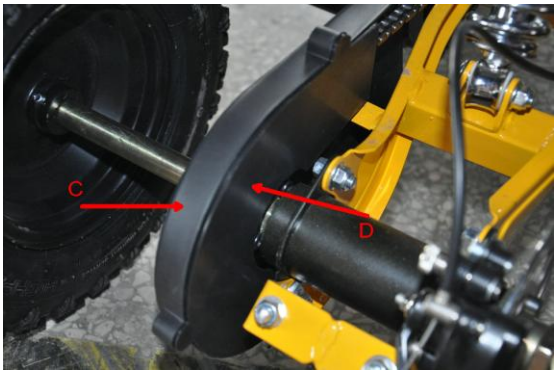
Parking on a slope

Avoid parking on slopes. If you must park on an incline, apply the parking brake, and block the wheels with rocks or other objects.

Assembly illustration and instruction

Attaching the Chain Cover

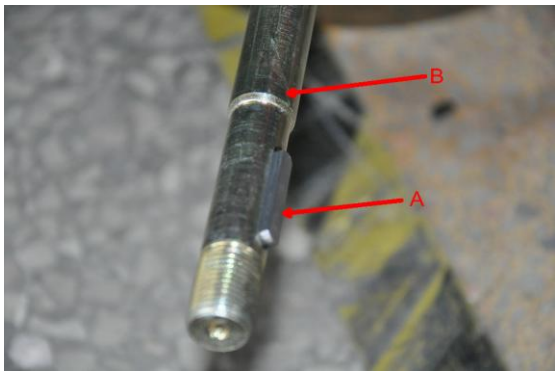




A. Hex socket cap bolt M6*10 2PCS
B. Philip's head screw M4*12 3PCS
C. Left side chain cover
D. Right side chain cover

1. Place part C on ATV and fasten A with a 6mm key wrench.
2. Align part D to part C and tighten B with a screwdriver.

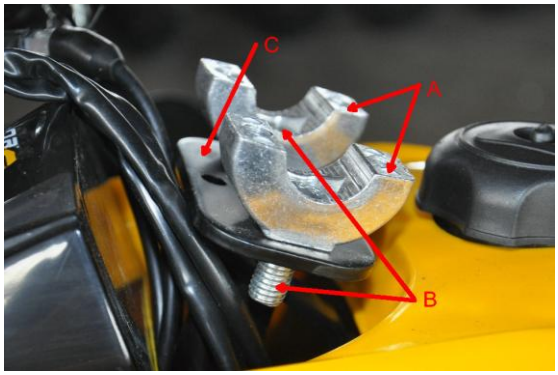
Attaching the Rear Wheels (tire 13*5.00-6)

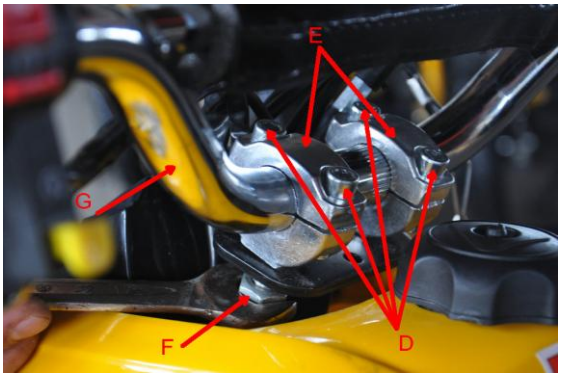


A. Pin
B. Rear axle
C. Rear wheel locknut
D. Rear wheel

1. Place pin A on rear axle B.
2. Place rear wheel D on rear axle B.
3. Tighten C with a wrench.

Attaching the handlebar



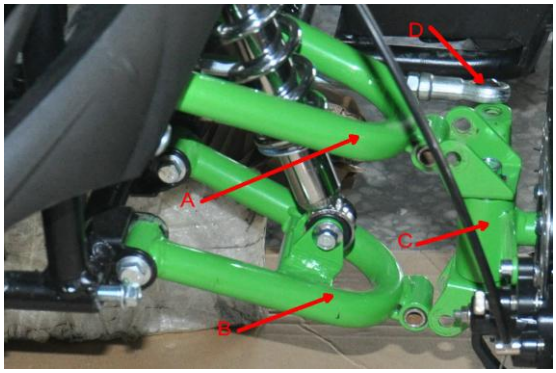


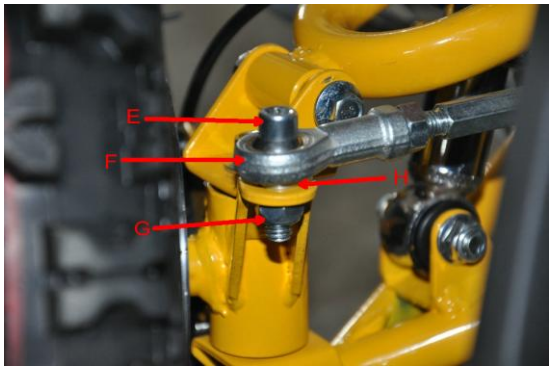
A. Handlebar down clamp 2PCS
B. Flange bolt M10*20 2PCS
C. Steering rod
D. Hex socket cap bolt M8*20 4PCS
E. Handlebar up clamp 2PCS
F. Lock nut M10 2PCS
G. Handlebar

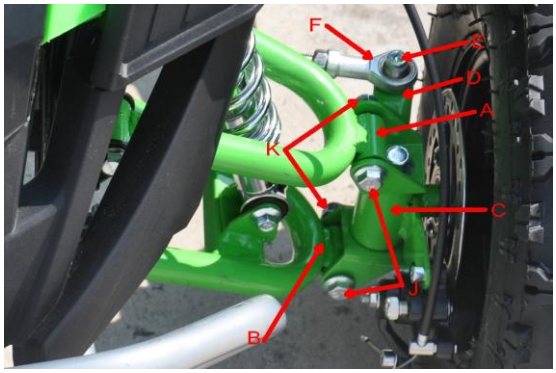
1. Place parts A on C.
2. Place B through parts A & C and then tighten F with a wrench.
3. Place part G on part s A. Align E to parts A and tighten D with an 8mm key wrench.

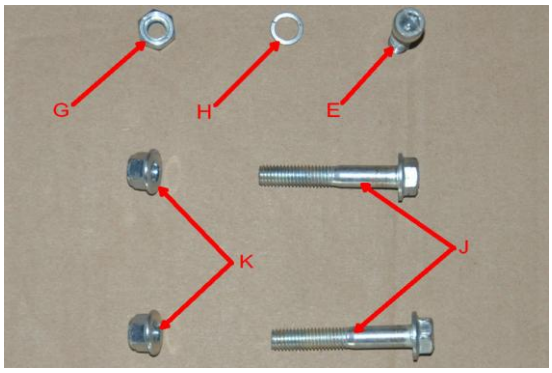
NOTE: When properly tightened, the handlebar should not move forward or back.

Attaching the front wheels (tire 4.10-6)





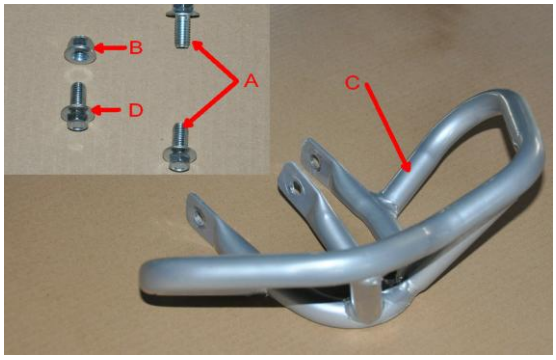


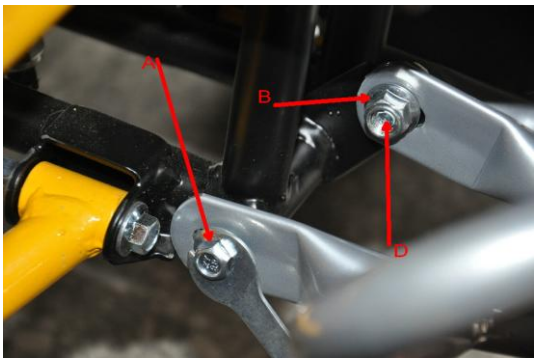


A. Up swing arm
B. Down swing arm
C. Wheel spindle
D. Tie rod holder
E. Hex socket cap bolt M8*25
F. Tie rod end
G. Lock nut M8
Self-lock
H. Spacer M8
K. Self lock nut M8 2PCS

1. Align C to A & B.
2. Place bolts J through A & C, B & C. Tighten nuts K by wrenches.
3. Place bolt E through F, H, G in sequence and tighten nut G.

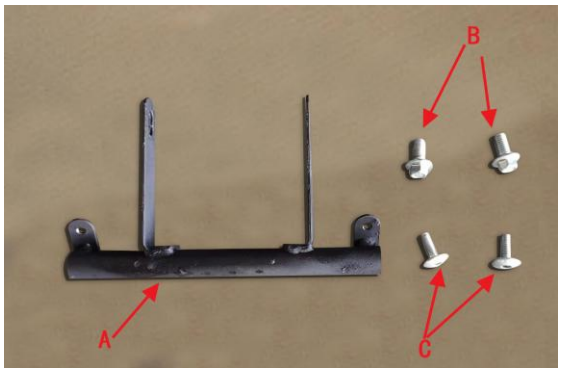
Attaching Front Bumper

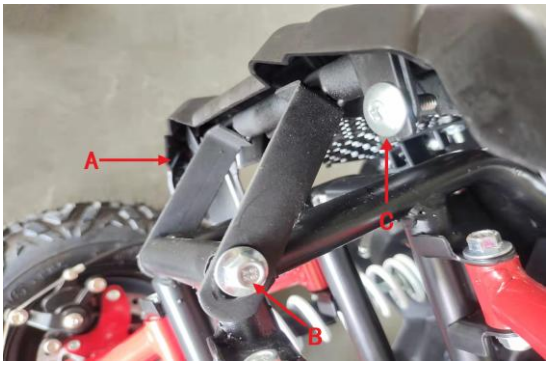




A. Flange bolt M8*16 2PCS
B. Lock nut M8
C. Front bumper
D. Flange bolt M8*16

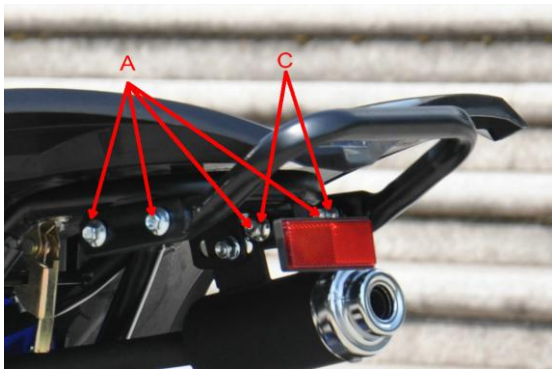
1. Align C to ATV frame
2. Tighten bolts A with a wrench.
3. Tighten B and D with wenches.

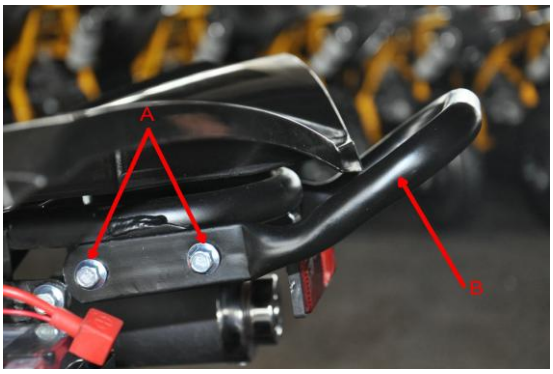




1. Align A to ATV frame
2. Tighten bolts B with wrench.
3. Tighten C with wenches.

Attaching rear Bumper





A. Flange bolt M8*16 4PCS
B. Lock nut M8

B.Rear bumper

1. Align B to ATV frame.
2. Tighten A,C with wenches.

Seat

To remove the seat, pull the seat lock lever upward and pull up the seat at the rear.

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, an aggressive driver can 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 absorber
- Engine bolts and nuts
- Rear sprocket

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. Be sure to 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: The tire is the only contact surface between the vehicle to the road, the safety of various riding activity depends on the small surface 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 used ones.

Guide:

Tire assembly and disassembly

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

Tire inflating pressure

It is very important to keep the tire at 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 the 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. The 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 of its previous service condition.

Tire age

Tire aging is unavoidable even if the tire is not ever used or just used a few times. Tire aging is mainly reflected in the cracked section on the side of the 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

● Checks and maintenance before and after off-road use

To avoid problems connected to the operation of the vehicle, it is advisable to perform several 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 the tread.
- On cold days, warm up the engine by running it at idle speed for a few minutes before starting.
- Wash the vehicle carefully after every off-road use.

● Fueling operations

Remove cap A counterclockwise.

The fuel tank will hold approximately 1.5 liters.
Only use a green fuel mixture with 4% oil.

● Breaking in

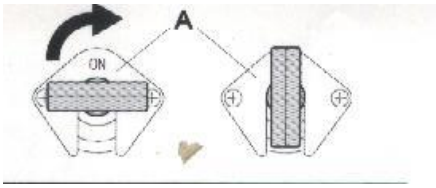
During the first 25 hours of operation running-in, the following precautions should be used;

- 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

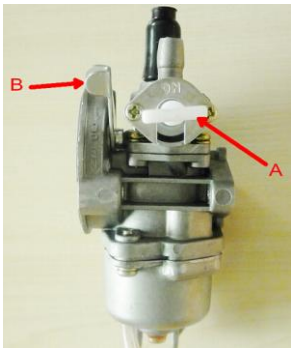
- Change the crankcase oil after 500km.
- Always use a mixture of green grade gas and qualitatively good oil.
- After the first off-road use, check all of the nuts and bolts.

● Startup



Manual hand pull

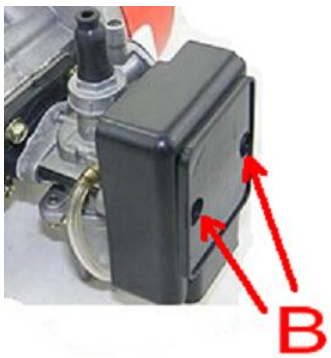
- Open fuel tank valve **A** **ON** = open
- Pull the starter as shown in the figure while slightly turning the throttle twist grip.
- Always close the fuel tank valve when the engine is off.



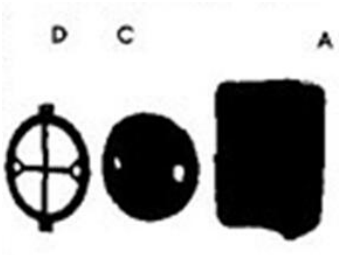
Note:

With the engine is cold, act on the starter by pushing down lever **B**, wait for a short and 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 the vehicle is used cross country.

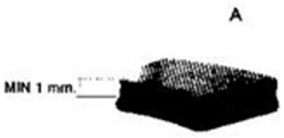
● Spark plug

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 cracks in the insulation or corroded electrodes. If so, replace it immediately.
When replacing the spark plug, screw it in by hand until it stops, then tighten with a wrench.

● Brakes

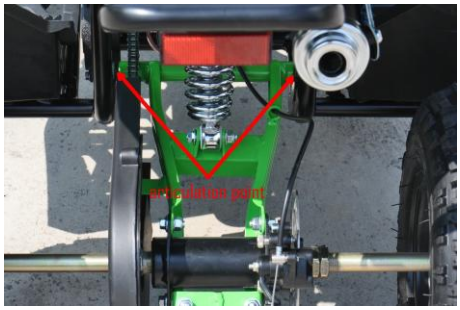
To check the wear of front and rear brake pads **A**, simply inspect the brake calipers as shown in the figure.
The thickness of the lining on the ends of the four pads should never be less than 1mm.

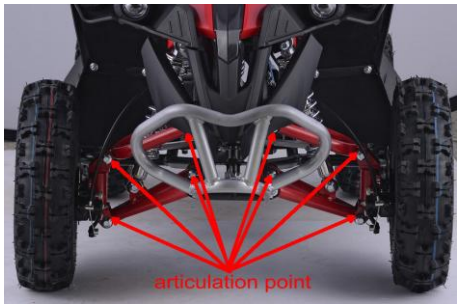


Should the lining be thinner, immediately replace the brake pads.

We recommend having the brake pads replaced by an authorized dealer

● Check after cleaning

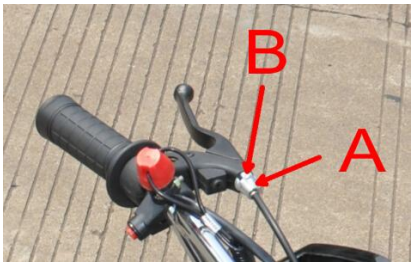




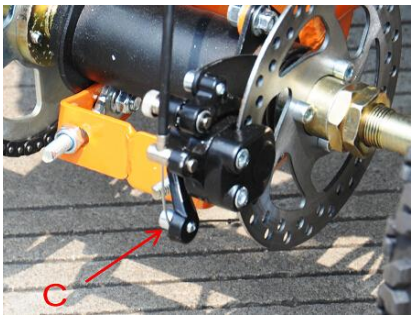
After cleaning the motorcycle, it is good practice to:

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

● Adjustment

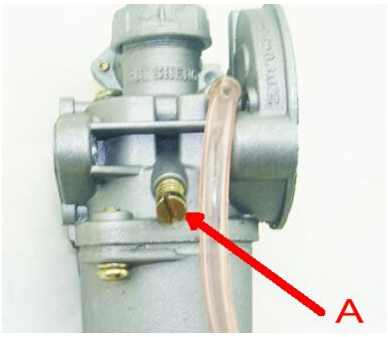


The front and rear brakes are mechanically operated disc brakes, which require periodic adjustment.
As shown in the figure, there should be 5-6 mm play.
To adjust the play, follow these steps:
-Check the play in driving position.
-If the clearance is excessive, use adjuster **A** on the brake lever to obtain the desired position.
-Tighten locknut **B**.



Note:
The front and rear brake calipers are equipped with an adjuster **C** that allows the braking action to be adjusted by moving the brake lever towards or away from the disc.

Note:
To adjust the tension of the brake cables, loosen self-locking nut **C**, adjust the cable length and then fasten **C** again.



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 following the below steps

1. Use a screwdriver to screw out the drain plug at the bottom of carburetor.
2. Release the remaining fuel.

Use a screwdriver to tighten the drain plug securely.

TECHNICAL SPECIFICATION SHEET

Engine type	single cylinder, 2 stroke, forced air cooling
Power output	1.5kw/7500rpm
Max torque	2.3 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 / battery	12V 4AH (only available in mini ATV with electric starter)
Front suspension	double mechanical damper
Rear suspension	mono shock absorber
Tyre (optional 6")	front 4.10-6 with 10.00 P.s.i. operation pressure and 20 P.s.i. Max. inflate , rear 13 x 5.00-6 with 10.00 P.s.i. operation pressure and 20 P.s.i Max. inflate .
(optional)	Front 14x4.10-6 with 10.00 P.s.i. operation pressure and 24 P.s.i. Max. inflate , rear 14x5.00-6 with 10.00 P.s.i. operation pressure and 24 P.s.i Max. inflate .
Brake system	front and rear disc brake with mechanical control

TRANSPORTATION

The ATV should be transported in the normal position if possible. It may also be transported in the standing position, but the standing position is not as stable as the normal position.

PREPARATION FOR STORAGE

Some measures should be taken when the vehicle is subjected to a long term storage so as to reduce the bad influence on its performance. Before the storage, make necessary maintenance to ensure the vehicle's high performance after-storage.

VEHICLE

Place the vehicle on level ground and thoroughly clean the entire vehicle.DO NOT get water into any part of the motor controller or battery.

Tighten all nuts, bolts, cap screws, and screws. Make sure rivets holding components together are tight. Replace all loose rivets. Care must be taken that all calibrated nuts, cap screws, and bolts are tightened to specifications.

Disconnect the battery cables (negative cable first); then remove the bat tery, clean the battery posts and cables, and store in a clean, dry area.

NOTE: For storage, use a battery maintainer or make sure the battery is fully charged.

TIRES

Inflate the tires to the normal specification.

EXTERNAL

Spray all vinyl and rubber parts with a rubber preservative.

Spray unpainted surfaces with rust preventative.

Coat painted surfaces with car wax.

NOTE: Void storing outside in direct sunlight and avoid using a plastic cover as moisture will collect on the ATV causing rusting.

PREPARATION AFTER STORAGE

Clean the ATV thoroughly.

Check all control wires and cables for signs of wear or fraying. Replace if necessary.

Charge the battery, then install. Connect the battery cables making sure to connect the positive cable first.

Check the entire brake systems (fluid level, pads, etc.), all controls, headlights, taillight, brakelight; adjust or replace if necessary.

Check the tire pressure. Inflate to recommended pressure as necessary.

Tighten all nuts, bolts, cap screws, and screws making sure all calibrated nuts, cap screws, and bolts are tightened to specifications.

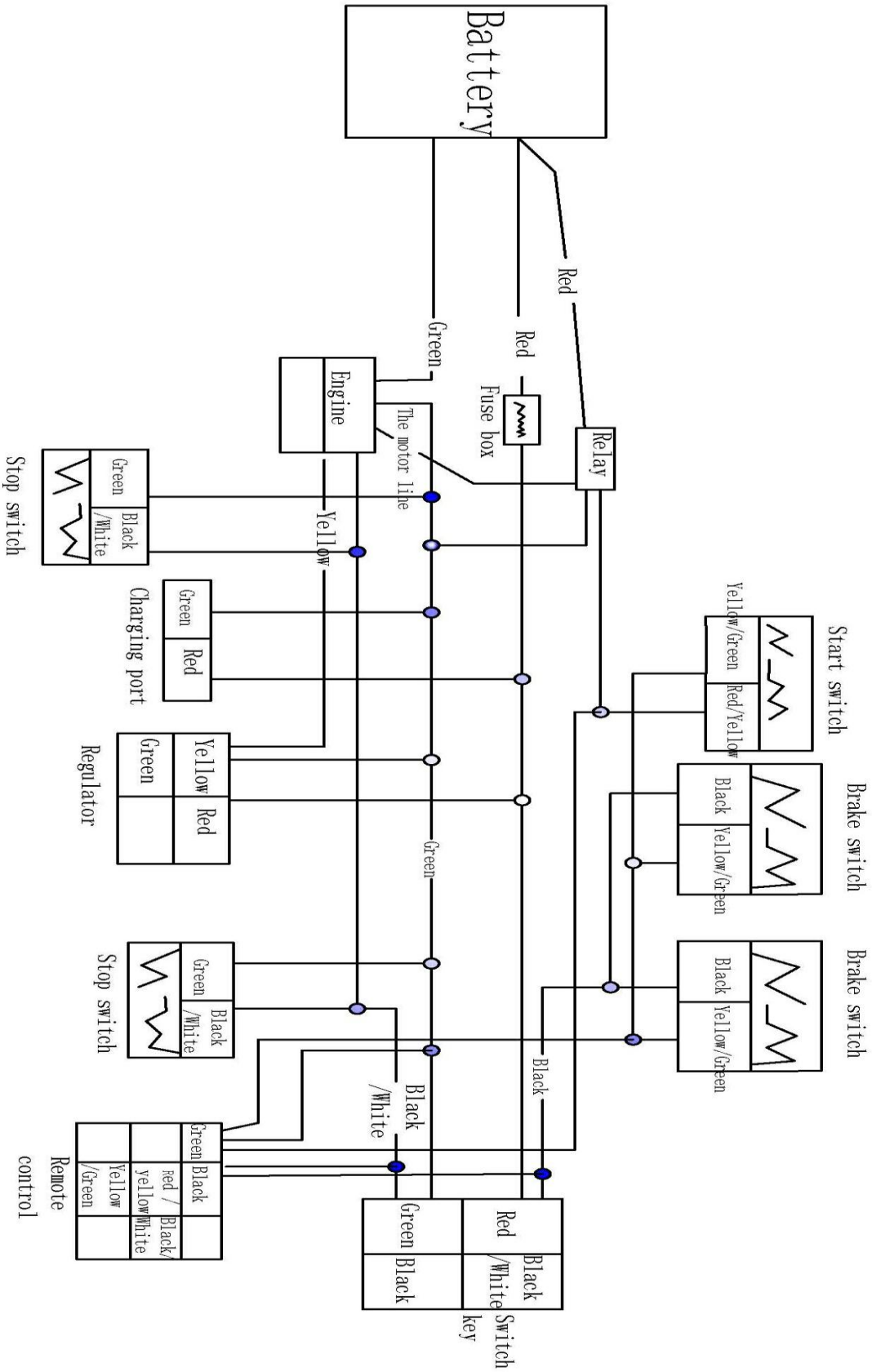
Make sure the steering moves freely and does not bind.

Follow the recommendations found in the pre-start inspection.

TROUBLESHOOTING GUIDE

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 -Mix too lean -Delayed ignition	Contact an authorized dealer Jet may be partially obstructed 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.

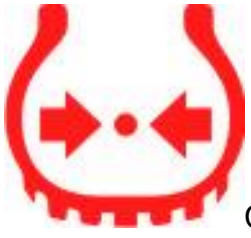
Never operate this vehicle if you are under age 12.

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.