

HP

all 49cc quads

2 STROKE 49CC

OFF ROAD MINI ATV

OWNER'S MANUAL

Important Information! Read thoroughly before driving the motorcycle.

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.

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 ATV. Carefully read the manual entirely 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 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 the technical training for your child before first use. To get the train 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 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 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 r 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 spilt 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 you body.)
- ★ Never hitch a ride with another vehicle.
- ★ Do not ride in raining, snowing day, slippery surface, or unstable due to gravel, sand etc.
- ★ Never use alcohol or drugs before or while operating
- ★ Do not ride if you weight over 155lbs/70KG
- ★ 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.

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

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

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We recommend checking all lightening bolts 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

ECOLOGIC DRIVE

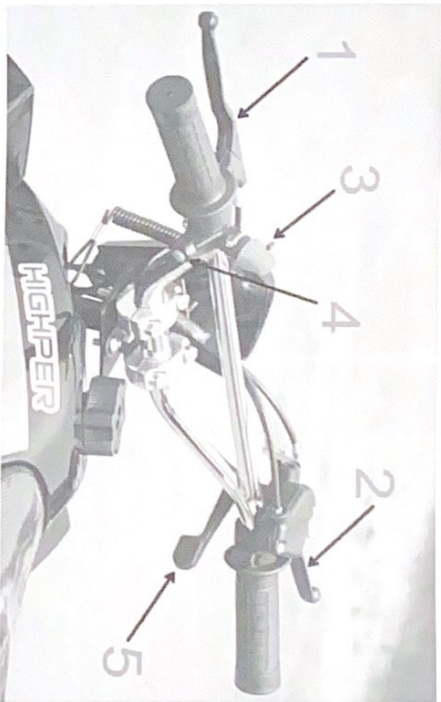
The noise and the pollution of every vehicle depend on how it is driven.

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.

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HAND DRIVE CONTROLS



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

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

Attaching the Chain Cover



- A. Hex socket cap bolt M6*10 2PCS
- C. Left side chain cover



- B. Phillip's head screw M4*12 3PCS
- D. Right side chain cover

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

Attaching the Rear Wheels (tire 13*5-6)



- A. Pin
- C. Rear wheel locknut



- B. Rear axle
- D. Rear wheel

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

Attaching the handle bar



- A. Handlebar down clamp 2PCS



- B. Flange bolt M10*20 2PCS

- C. Steering rod
- E. Handlebar up clamp 2PCS
- G. Handle bar

- D. Hex socket cap bolt M8*20 4PCS
- F. Lock nut M10 2PCS

1. Place parts A on C.
 2. Place B through parts A & C and then tighten F by a wrench.
 3. Place part G on part s A. Align E to parts A and tighten D by 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
- C. Wheel spindle
- E. Hex socket cap bolt M8*25
- G. Lock nut M8
- J. Flange bolt M8*45 2PCS

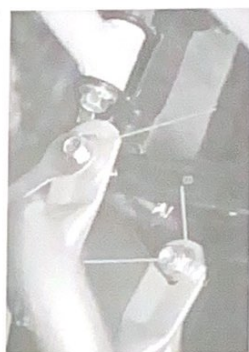
- B. Down swing arm
- D. Tie rod holder
- F. Tie rod end
- H. Spacer M8
- K. Self lock nut M8 2PCS

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, E in sequence and tighten nut H.

Attaching front Bumper



- A. Flange bolt M8*16 2PCS
- C. Front bumper



- B. Lock nut M8
- D. Flange bolt M8*16

1. Align C to ATV frame
2. Tighten bolts A by wrench.
3. Tighten B, D by wrenches.

Attaching rear Bumper



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



- B. Rear bumper

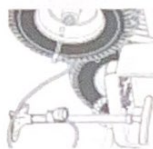
1. Align B to ATV frame.
2. Tighten A,C by wrenches.

TECHNICAL SPECIFICATION SHEET

Engine type	single cylinder, 2 stroke, forced air cooling
Power output	2.0kw/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

Front suspension	starter)
Rear suspension	double mechanical damper
Tyre (standard 4")	mono shock absorber
Tyre (optional 6")	front & rear 3.00-4 with 4.00 P.s.i operation pressure and 24 P.s.i Max. Inflate
Brake system	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, front and rear disc brake with mechanical control

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: 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 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

The 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. The 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

● **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 1.5 liter
Only use 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 than 3/4 of the way.

WARNING

- Change the crankcase oil after 500km.
- 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
- 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.

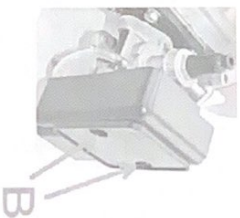


● **Air filter**

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 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



To check the wear of front and rear brake pads **A**, simply inspect the brakes 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 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 brakes cables, loosen self-locking nut **C**, adjust the cable length and then fasten **C** again.

ADJUSTMENT OF IDLING SPEED

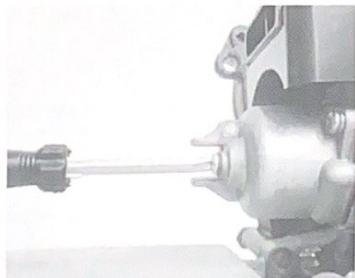
In order to perform this operation correctly, we advise you to do it when the engine is hot, connecting an electric revolution counter to the spark plug wire. Then use a screwdriver on register screw **A** to calibrate the minimum.



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.



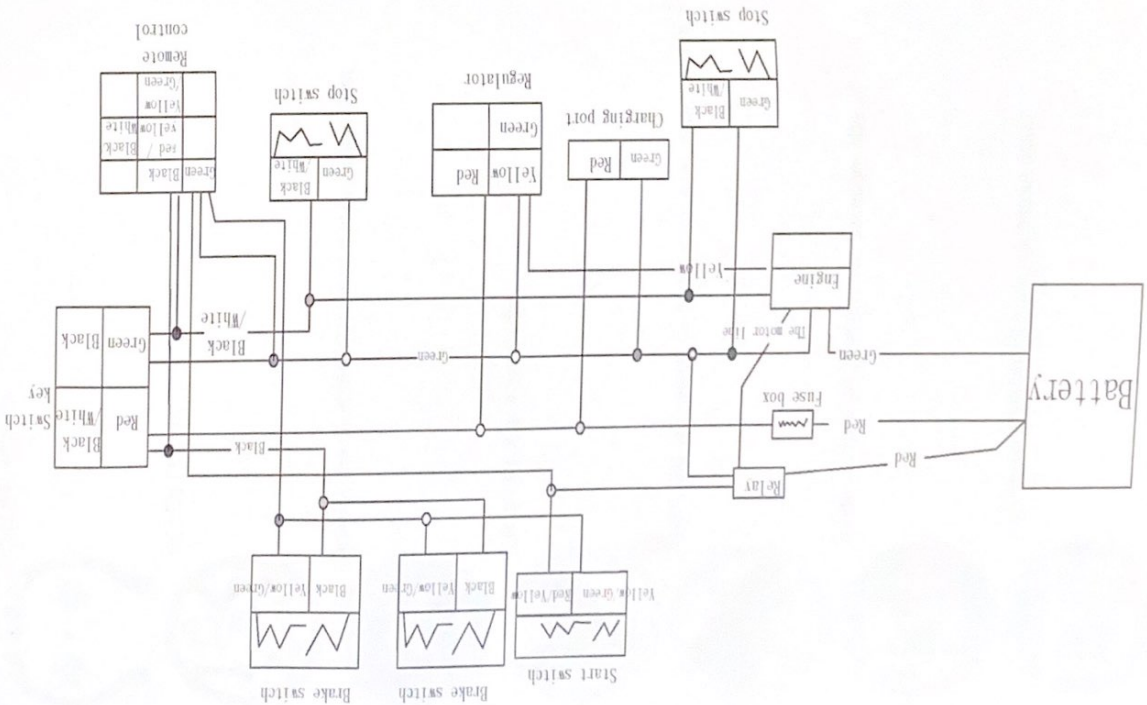
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TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
The engine doesn't start	-Fuel system(tubes, fuel tank, valve) is blocked -No current arriving at spark plug	Clean or replace spark plug. If the problem persists, consult one of our Authorized Dealers 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 -Spark plug is dirty	Restore correct distance Clean or replace
Engine overheats and loses power	-Silencer partially obstructed -Exhaust clearance partially obstructed -Mixture too lean	Contact an authorized dealer Contact an authorized dealer Jet may be partially obstructed
Weak brake	-Delayed ignition -Worn Brake pads	Contact an authorized dealer Contact an authorized dealer

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CIRCUIT DIAGRAM FOR ELECTRIC START MODEL



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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.