

PREFACE

Thank you for purchasing our vehicle. Welcome to our world-wide family of BASHAN owners. We proudly produce an exciting line of utility and recreational products. We believe BASHAN sets a standard of excellence for all utility and recreational vehicles manufactured in the world today. Many years of experience have gone into the engineering, design, and development of our ATV, making it the finest machine we've ever produced. For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance, ATV specifications, and drive safety. Due to this manual you can know necessary skill of ATV driving. Otherwise owners may find out parts you need out of part's shape, name, coding or composed relationships through this manual, but for our products are in continue developing, can this make some difference between real object and image, please according to real object.

Content Index

VIN & ENG NUMBER	1
WARNING & PROHIBITION	2
SAFETY HAZARD	5
CONTROL SYSTEM	9
OPERATION SYSTEM	15
RIDDING SAFETY TIPS.....	18
PERIODIC MAINTENANCE CHART.....	22
LUBRICATION.....	25
TYRE MAINTENANCE	31
AIR FILTER SYSTEM.....	31
LIGHTS	32
SPARK PLUG	33
ELECTRIC SYTEM.....	34
CLEANING & STORAGE.....	36
FAULT INSPECTION AND MAINTENANCE.....	39
SPECIFICATIONS	43
ELECTRIC DIAGRAM	44
FRAME PARTS CATALOGUE	45
ENGINE PARTS CATALOGUE	60

VIN & ENG NUMBER

Please fill up the VIN and Engine number at the table below. Keep one spare key safe. Ignition key barrel is required to be replaced if both keys are lost. VIN and Eng number matching is a key factor in regards to a warranty claim and after sale service and maintenance.

Model number: _____

VIN : _____

Engine Number : _____

WARNING & PROHIBITION

●WARNING

Improperly riding vehicle may cause severe injury or death.

Always use an approved helmet and protective gear, otherwise it may cause severe injury or death.

Never operate an ATV on a public street, road or highway, including a dirt or gravel road.

Never carrying a passenger on an ATV, it could result in loss of control and accident.

Never operating the ATV after consuming alcohol or drugs, it may cause hallucination, distraction and disability and result in an accident.

Never drive under bad spirit and tired situation.

The engine exhaust from this product contains chemicals known to cause cancer or other reproductive harm.

So never start the engine or let it run in an enclosed area.

Properly riding to avoid vehicle overturns on hills and rough terrain, and in turns.

Avoid paved surfaces, which may adversely affect handling and control.

● PROHIBITED

PROHIBITED: Operate without proper training or instruction.

PROHIBITED: Operate on public highway. A collision can occur with another vehicle.

PROHIBITED: Operate at speed beyond your skills or the conditions.

PROHIBITED: Take ALCOHOL or DRUGS before or while operating this vehicle.

PROHIBITED: Carry Passengers.

PROHIBITED: Drive in tired condition or bad spirit.

PROHIBITED: Start the engine or let it run in an enclosed area.

PROHIBITED: Never allow anyone under 16 years of age to operate this ATV.

●WARNING STICKER

Warning stickers shall be placed on left and right side of the ATV for your protection.

Read and follow the instructions of the decals on the ATV carefully. If any of the decals depicted in this manual differs from the decals on your ATV, always read and follow the instructions of the decals on the ATV.

The safety alert warning indicates a potential hazard that may cause serious injury or death.

The safety alert caution indicates a potential hazard that may cause minor injury or damage to the vehicle.

Serious injury or death can result if you do not follow these instructions and procedures, which are outlined in further detail within your owner's manual.

Never operate an ATV without proper instruction. Please take a training course about ATV.

Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.

Never operate an ATV without wearing an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket, and long pants.

Never consume alcohol or drugs before or while operating an ATV.

Always avoid riding an ATV on paved surfaces, including pavillion, driveways, parking lots, and express way.

Never operate at excessive speed. Travel at speed appropriate for the terrain, visibility and operating conditions, and your experience.

Never attempt wheelies, jumps or other stunts.

Always check your ATV makes sure it is in normal operating condition before operating. Always follow the inspection and maintenance procedures and schedules outlined in your owner's manual.

Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

Always travel slowly with extra caution while operating on unfamiliar terrain. Be alert to changing terrain conditions.

Never operate on excessively rough, slippery or loose terrain.

Safe riding gear

Helmet

Your helmet is the most important satey unit of protective gear for riding. A helmet can prevent a severe head injury. Select an approved helmet that meets safety standards in your state.

Clothing

Always wear clothing suited for riding. Riding ATV requires special protective clothing for comfort and to reduce the chance of injury. Always wear long sleeves and long trousers to protect arms and legs. Riding trousers with kneepads and a jersey with shoulder pads provide the best protection.

Eye protection

Do not depend on sunglasses for proper eye protection. A pair of goggles or a helmet face shield offers the best protection for your eyes. They should be kept clean and be of shatterproof design

Gloves

Off-road style gloves with knuckle pads are the best for comfort and protection.

Boots

The best footwear is a pair of strong over-the-calf boots with heels, like motor-cross boots.

● Know your vehicle

As the operator of the vehicle, you shall be responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

This ATV is not a toy. It is much more difficult to operate than other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years old.

Safe training

When you purchase your new ATV, your dealer will offer a hands-on safety training course that covers all aspects of vehicle safety. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis.

This is an off-road vehicle. Be familiar with all the laws and regulations concerning the operation of the ATV in your area.

We strongly advise you to strictly follow the recommended maintenance procedure outlined in your owner's manual. This preventive Maintenance program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals.

Operator safety

● TIRE

Loading capacity: INCLUDE DRIVER, LOAD, VEHICLE, TATALLY **300KG**

TIRE PRESSURE: FRONT 100KPa REAR 100KPa

WARNING

Improper tire pressure or overloading can cause loss of control resulting in severe injury or death.

● Loading

Reduce speed and allow longer distance for braking while carrying cargo. Overloading or carrying tall, off-center, or unsecured loads will increase your risk of losing control. Loads should be centered, carried as low as possible, and firmly secured to the racks. With

dual racks, load distribution 1/3 front 2/3 rear is best. For stability on rough or hilly terrain, reduce speed and cargo. Do not block headlight. Be careful if load extends over the side of the rack.

Rack loads (IF HAVE RACK) : FRONT 10KG, REAR 20KG

Do not tow from rack or bumper .Vehicle damage or tip over may cause severe injury or death. Tow only from tow hooks or hitch.

●Air cleaning filter

WARNING

Operation of this vehicle without the air filter element will severely damage the engine.

Clean pre-filter element often, more frequently cleaning required in dusty conditions. Do not operate vehicle before cleaning.

Operation of this vehicle without engine breather filter(s) can cause engine damage. Consult owner's manual or dealer for details.

●DRIVING ATTENTION:

Never operate on hills too steep for the ATV or for your abilities Practice on smaller hills before attempting larger hills.

Always follow proper procedures for climbing hills, Check the terrain carefully before ascending a hill. Never climb hills with excessively slippery or loose surfaces. Keep your weight forward. Never open the throttle suddenly or make sudden gear changes. Never go over the top of a hill at high speed.

Always follow proper procedures for going downhill and for braking on hills. Check the terrain carefully before you ride down a hill. Keep your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

Always follow proper procedures for crossing the side of a hill. Avoid hills with excessively slippery or loose surfaces. Keep your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you've mastered (on level ground) the turning skill outlined in this manual. Avoid crossing the side of a steep hill when possible.

Always follow proper procedures if you stall or roll backwards while climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Always dismount on the

uphill side, or to either side if the ATV is pointed straight uphill. Turn the ATV around and remount following the procedure described in this manual.

Never attempt to operate over large obstacles, such as rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.

Always be careful of skidding or sliding. On slippery surfaces like ice, travel slowly with extra caution to reduce the chance of skidding or sliding out of control.

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Don not make sudden turns of stops, and do not make sudden throttle changes. Always check for obstacles or people behind the ATV before operating in reverse. When it's safe to proceed in reverse, move slowly and avoid turning at sharp angles.

● Instruction to using brake

Wet brakes may have reduced stopping ability. Always check the brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

Reduce speed when carrying cargo or pulling a trailer. Based on manual allow a greater distance for braking.

● Modification Attention

We are concerned for the safety of our customers and for the general public. Therefore, we strongly recommend that consumers do not install on an ATV any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of bodily injury.

The warranty on your ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle.

NOTE: The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Adopt only approved accessories of our company, and familiarize yourself with their function and

POTENTIAL HAZARD and HOW TO AVOID THE HAZARD

WARNING

POTENTIAL HAZARD: Operating this ATV without following instruction

WHAT CAN HAPPEN

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course offered by dealer. Operators should regularly practice the skills learned in the course and the operating skill described in the owner's manual.

WARNING

POTENTIAL HAZARD: Carrying a passenger on an ATV.

WHAT CAN HAPPEN

Carrying a passenger greatly reduces the operator's ability to balance and control the ATV, which could cause an accident and injury to the operator and/or passenger.

HOW TO AVOID THE HAZAR

Never carry a passenger. The purpose of the long seat is to allow the operator to shift position as needed during operation. It is not intended For carrying passengers.

WARNING

POTENTIAL HAZARD: Failure to follow the age recommendations for this ATV.

RISK

Severe injury and/or death could occur if a child under the minimum age recommendation operates an ATV. Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities, or judgment needed to operate an ATV safely and could be susceptible to accident or injury.

HOW TO AVOID THE HAZARD

No one under the age of 16 should operate an ATV

WARNING

POTENTIAL HAZARD: Operating this ATV on public streets, roads or highway.

WHAT CAN HAPPEN

The ATV could collide with another vehicle.

HOW TO AVOID THE HAZARD

Never operate the ATV on any public street, road or highway, including dirt and gravel roads. In many areas and countries it's illegal to operate ATVs on public streets, roads and highways.

WARNING

POTENTIAL HAZARD: Operating an ATV on paved surfaces, including sidewalks, paths, parking lots, and driveways.

WHAT CAN HAPPEN

ATV tires are designed for off-road use. Operating on paved surfaces may seriously affect the handling and control of the ATV and could result in loss of control, accident, and /or injury.

HOW TO AVOID THE HAZARD

Avoid operating the ATV on pavement. If it's unavoidable, travel slowly and avoid sudden turns or stops.

WARNING

POTENTIAL HAZARD: Operating this ATV without wearing an approved helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating an ATV without an approved helmet increases the risk of a severe head injury or death in the event of an accident. Operating without eye protection could result in an accident and could increase the chance of a severe injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved helmet that fits properly. Always wear eye protection (goggles or face shield). gloves, boots, long-sleeved shirt or jacket, and long pants.

WARNING

POTENTIAL HAZARD: Operating the ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

Consumption of alcohol and/or drugs could seriously affect operator judgment. Reaction time may be slower and operator balance and Perception could be affected. IT could result in an accident causing severe injury or death.

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while operating an ATV.

WARNING

POTENTIAL HAZARD: Operating the ATV at excessive speeds.

WHAT CAN HAPPEN

Excessive speed increases the operator's chance of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

Always operate the ATV at a speed that's proper for the terrain, visibility and operating conditions, and your experience.

WARNING

POTENTIAL HAZARD: Attempting wheelies, jumps and other stunts.

WHAT CAN HAPPEN

Attempting stunts increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.

WARNING

POTENTIAL HAZARD: Failure to inspect the ATV before operating.

WHAT CAN HAPPEN

Poor maintenance increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV especially ensure fastener nuts tightness of important parts before each use to make sure it's in safe operating condition.

WARNING

POTENTIAL HAZARD: Removing hands from the handlebars or feet from the footrests during operation.

WHAT CAN HAPPEN

Removing even one hand or foot can reduce ability to control the vehicle or could cause loss of balance and ejection from the ATV. If the Operator's foot is not firmly planted on the footrest, it could come into contact with the rear wheels and lead to accident or injury.

HOW TO AVOID THE HAZARD

Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

WARNING

POTENTIAL HAZARD: Failure to use extra caution when operating the ATV on unfamiliar terrain.

WHAT CAN HAPPEN

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn and lead to accident or injury.

HOW TO AVOID THE HAZARD

Travel slowly and use extra caution when operating on unfamiliar terrain, always be alert to changing terrain conditions.

WARNING

POTENTIAL HAZARD:

Failure to use extra caution when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

Operating on excessively rough, slippery or loose terrain could cause loss of traction or loss of control, which could result in an accident or overturn.

HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you're learned and practiced the skills necessary to control the ATV on such terrain.

WARNING

POTENTIAL HAZARD: Turning improperly

WHAT CAN HAPPEN

Improper turns could cause loss of control and lead to a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in the owner's manual. Practice turning at slow speeds before attempting to turn at faster speeds. Never turn at excessive speed.

WARNING

POTENTIAL HAZARD: Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle may overturn.

HOW TO AVOID THE HAZARD

Never operate on hills too steep for the ATV or for your abilities.

Never operate the ATV on hills steeper than 20°. Practice on smaller hills before attempting large hills.

WARNING

POTENTIAL HAZARD: Climbing hills improperly.

WHAT CAN HAPPEN

Improper hill climbing could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in the owner's manual.

Always check the terrain carefully before ascending any hill.

Never operate the ATV on hills steeper than 20°

Never climb hills with excessively slippery or loose surfaces. Shift your weight forward.

Never open the throttle suddenly while traveling uphill. The ATV could flip over backwards.

Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

WARNING

POTENTIAL HAZARD:

Traveling downhill improperly.

WHAT CAN HAPPEN

Improperly descending a hill could cause loss of control or overturn and lead to injury or death.

HOW TO AVOID THE HAZARD

A special technique is required when braking while traveling downhill.

Always check the terrain carefully before descending a hill. Shift your weight backward.

Never travel down a hill at high speed.

Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

WARNING

POTENTIAL HAZARD: Improperly crossing hills and turning on hills.

WHAT CAN HAPPEN

Improperly crossing or turning as hills could cause loss of control or overturn and lead to injury or death.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you've mastered the turning technique as described in the owner's manual. Use extra caution when turning on any hill. Avoid crossing the side of a steep hill.

Avoid hills with excessively slippery or loose surfaces.

WARNING

POTENTIAL HAZARD:

Stalling, rolling backwards or improperly dismounting while climbing a hill.

WHAT CAN HAPPEN

The vehicle could cause loss of control or overturn and lead to injury or death.

HOW TO AVOID THE HAZARD

Keep steady speed when climbing a hill. If all forward speed is lost, keep your weight uphill.

If ATV begins rolling backwards, apply the brakes. Lock the parking brake when fully stopped.

If the ATV begins rolling backwards, keep weight uphill; never apply engine power; never apply the rear brake while rolling backwards. Apply the single-lever brake gradually.

When fully stopped, apply the rear brake as well, and then lock the parking brake,

Dismount on uphill side, or to either side if ATV is pointed straight uphill. Turn the ATV around and remount.

WARNING

POTENTIAL HAZARD: Improperly operating over obstacles.

WHAT CAN HAPPEN

Operating over obstacles could cause loss of control or overturn and lead to injury or death.

HOW TO AVOID THE HAZARD

Before operating in a unfamiliar area, check for obstacles. Avoid operating over large obstacles such as rocks and fallen trees if possible, If unavoidable, take extreme caution and always follow proper procedures as outlined in the owner's manual.

WARNING

POTENTIAL HAZARD: Skidding or sliding.

WHAT CAN HAPPEN

Skidding or sliding can cause loss of control. If the tires regain traction unexpectedly, the ATV could overturn.

HOW TO AVOID THE HAZARD

Avoid skidding or sliding, on slippery surfaces such as ice, travel slowly and take extra caution to reduce the chance of skidding or sliding out of control.

WARNING

POTENTIAL HAZARD: Improperly operating in reverse.

WHAT CAN HAPPEN

The ATV could collide with an obstacle or person, resulting in severe injury.

HOW TO AVOID THE HAZARD

Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it's safe to proceed, back slowly.

WARNING

POTENTIAL HAZARD: Operating the ATV through deep or fast-flowing water.

WHAT CAN HAPPEN:

Tires may float, causing loss of traction and loss of control, which could lead to an accident or overturn.

HOW TO AVOID THE HAZARD

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the recommended maximum depth, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes. Wet brakes may have reduced stopping ability. Always test the brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

WARNING

POTENTIAL HAZARD: Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

It could cause loss of control or accident and resulting in injury to adopt improper tires, or operation of the ATV with improper or uneven tire pressure.

HOW TO AVOID THE HAZARD

Always adopt size and type of the tires specified for the ATV. Always maintain proper tire pressure as specified.

WARNING

POTENTIAL HAZARD: Operating the ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of the ATV may cause changes in handling which could lead to an accident resulting in injury or death.

HOW TO AVOID THE HAZARD:

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine our company or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. See your local authorized dealer for more information.

WARNING

POTENTIAL HAZARD:

Overloading the ATV or carrying/towing cargo improperly.

WHAT CAN HAPPEN

Overloading and towing can cause changes in vehicle handling, which could lead to loss of control or an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV. Never carry passengers.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking.

Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer.

WARNING

POTENTIAL HAZARD: Operating on frozen bodies of water.

Severe injury or death can happen if the ATV and/or the operator fall through the ice for loss of control

HOW TO AVOID THE HAZARD

Never operate the ATV on a frozen body of water.

WARNING

1. Leaving the keys in the ignition can lead to unauthorized use of the vehicle

Resulting in serious injury or death. Always remove the ignition key when the vehicle is not in use. Remove the spare key and store it in a safe place. If both keys

Are lost, the ignition switch must be replaced.

2. In case of a vehicle tip over or accident, vehicle must be inspected by qualified and authorized personal in dealership, inspect on (not limited to) brake system, throttle system and turning system.

3. To operate safely requires good judgement and skill. Disabled person or mental illness person riding vehicle will increase the risk of tip over or lose control, could end up in serious injury or death.

WARNING

When finished using vehicle, exhaust pipe and muffler system are very hot, will cause burn and fire hazard.

CONTROLS

Electric start

Control System

Engine electrical switch

- engine stop switch (1) - When this switch is in position  the engine will not launch or run. This object is, in case of emergency, the rider can quickly turn off the engine.
- ignition switch (2) - to control all the power of the vehicle, including lights, the engine switches. To start the engine, the engine stop switch slid 1 position , with the ignition key clockwise twist the ignition switch to the  position.
- electric start switch (3) - start the engine switch. When the engine stop switch in position , the ignition key clockwise twist when the ignition switch to the position , and the engine is in neutral or the clutch disengaged, 5 seconds, press the switch that is able to start the engine. After the engine starts, immediately release the switch.

Note: The ignition switch will cut off all power to the vehicle, including lights, engine. Turn off the engine when the engine stop switch or slide right or left position 



Control System

Warning

- Incorrect use of the throttle controller, may cause an accident and cause serious injury or death.
- Do not use faulty Throttle twist grip. If you have throttle problems, please contact your dealer.
- Check throttle twist grip for damage before starting the vehicle.



Throttle lever

Twisting the throttle grip (1) controls the engine speed and vehicle speed. The throttle is controlled by a spring mechanism. When the grip is released the engine will idle.

Headlight Switch

Headlight switch (2) located on the right handle. This switch $\text{p} \leftarrow$,  turn on the lights and off.

Note: Only turn on Headlights when they are needed Warning

- Use headlights at night or when it is getting dark, to prevent an accident. Also it will help people to see you.
- Vehicle is not equipped for road use and certified headlamps. This vehicle is designed for off-road use only.

Brake lever

Front brake by the hand brake lever to achieve the gripping direction. This vehicle is front disc brake drum mode; the rear brake pedal controls the rear brake.

To check before you ride or handle stroke after the brake pedal and master disc after oil cup oil level. When holding the brake lever, you should feel very tight. If the handle is very loose, there may be a brake shoe wear or brake line off. If you find that after the brake pedal is very loose, there may be a brake shoe wear or brake lever off. These issues must be resolved before you ride. Please consult your local dealer.

Warning

- In the case of rear handle loose or brake pedal cycling may be ineffective due to brake and accidents.
- If you feel left rear brake pedal or handle loose, do not ride.

Set the parking brake.



1. The vehicle should be stationary.
2. Pull on brake lever (1) and hold.
3. Press down pin (2), to lock lever in place. Release the brake lever.
4. To release the parking brake lever, firmly grasp the brake lever, and then release. It will return to the unlocked state.

Important safety measures

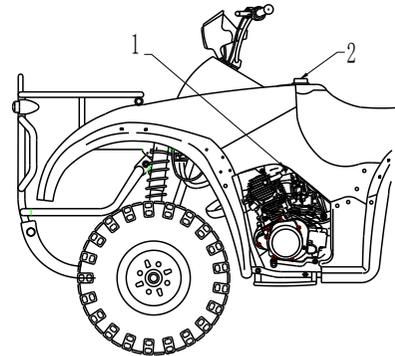
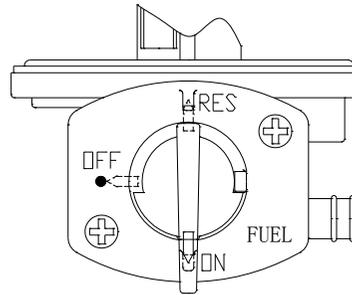
- If the park brake is left on for a long period of time, brake pressure may slowly reduce, making the park brake ineffective.
- Place blocks under wheels to prevent rolling for added safety. Another option is to place the vehicle sideways.
- When parking the vehicle on a hill, do not rely only on parking brake. Place blocks under wheels to prevent sliding for added safety.

Warning

When riding if you apply too much pressure to the brakes it may cause the wheels to lock and skid, causing loss of control of the vehicle, resulting in serious injury or death.

Choke

The choke helps start a cold engine. Before starting the engine, adjust the choke and throttle settings. Refer to the engine starting procedure.



Fuel Tap switch

Fuel Tap switch (1) is located on the left side of the vehicle.

There are three positions (above):

OFF- cut off the fuel, then the fuel can not flow to the carburetor.

ON- opened fuel, then fuel may flow in the carburetor.

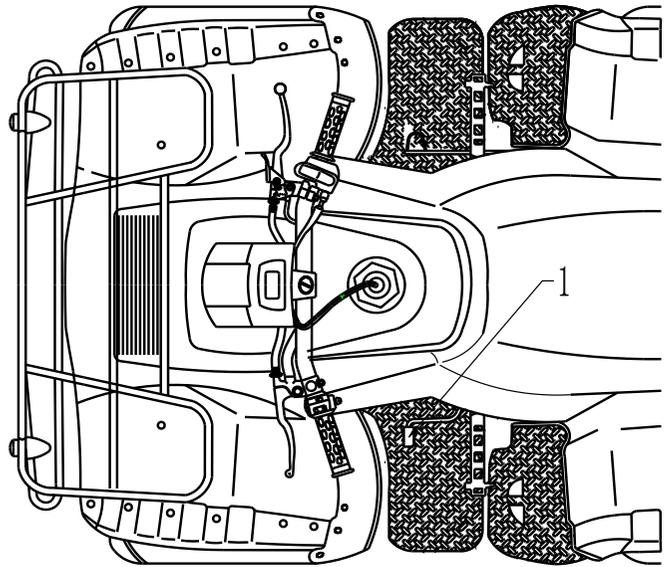
RES- opening spare fuel tank, fuel can flow to the carburetor. Immediately get fuel from nearest petrol station, as there will be only a small amount of fuel left.

Fuel Tank

Fuel tank cap (2) is just below the handlebar tube. Use 93 octane fuel or higher.

Oil filter

After this the embedded filter (Oil switch comes) should be changed every 100 hours of use or once a year by the replacement of your dealer. Do not wash this filter yourself.



Gearshift

Gear selection for the vehicle is controlled by the gearshift pedal (1) on the left side of the vehicle. Depending on your model, different shift style position may exist (below is the most common):



When we need to use reverse, first stop the vehicle, and step down onto the shift pedal to select reverse. When exit the reverse, you need to stop the vehicle and tighten the left switch lever then raise the foot gear lever.

Note:

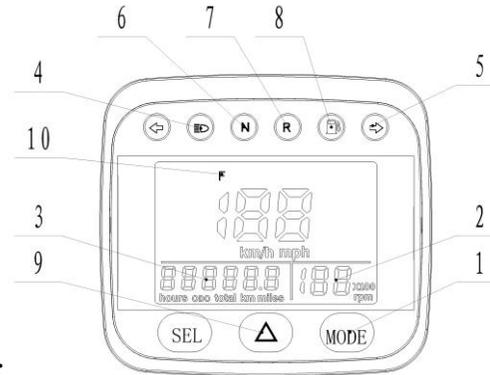
1. When gear changing too quick will cause premature wear of the gears.
2. When vehicle is left unattended, the vehicle should be placed in the N position, and have parking brake on.
3. When towing heavy loads, use low gears to maximize engine torque and reduce clutch wear.

Belt force

To increase the belt force, under great traction state and less than 7 miles / hour when driving, you should use low forward gear.

Meter

Meter is a rider's information center. The instrument cluster will turn on after you start the power of vehicle, when the meter began to work.



Instrument contains the following information and Functions :

- ① Mode switch: press with your fingers to convert the odometer and vehicle speed from miles into kilometres
- ② Engine tachometer: real-time display speed of the engine case.
- ③ Mileage: Displays real-time mileage and total mileage.
- ④ High beam indicator: High beam is turned when blue light is illuminated
- ⑤ Turn signal indicator: Indicator direction light will illuminate when in operation.
- ⑥ Neutral light: shows when the gearbox is in Neutral.
- ⑦ Reverse light: shows when transmission is in Reverse.
- ⑧ Fuel alarm: When the light is on, refuel immediately
- ⑨ Emergency lights: Stop vehicle immediately and check temperature and oil level.

Warning!

- ▲ Don't tap with a hard object, touch scratch the surface of the instrument, it will damage the instrument, and do not attempt to modify or repair it, such as a failure, please contact your local dealer.
- ▲ To prevent damage, cleaning the instrument, use a mild soap and water hand wash or rinse with a hose. Do not use alcohol to clean the instrument. Should be washed immediately splashed gasoline on the meter. Not allowed to have contact with the diluent meter mirror.

Operating system

Fuel precautions

Fuel is flammable and explosive.

- To be especially careful when using Fuel.
- When refuelling the vehicle, the engine must be turned off and the vehicle needs to be outdoors or in ventilated place.
- When refueling, no smoking or stay away from open flames and sparks.
- Do not spill fuel, and do not fill the fuel to the tank spout.
- If fuel gets on the skin or clothing, wash immediately with soap and water, and change clothes.
- Do not start the engine in an enclosed area. Engine exhaust gases are toxic.
- When not in use, turn off the fuel tap.

Warning

It is well known that chemical substances contained in engine exhaust gases produce toxins can cause cancer, congenital disability or some other reproductive disorders.

Be sure to ride outdoors or in a well-ventilated place.

Running in phase

It is important to follow run in procedures, this will improve the performance and prolong the engine life. **To help run new engine in, run for 10 hours at slow speed and use two full tank of petrol before increasing speed.**

Note

▲ During the first three hours, do not rev the engine excessively, which can damage internal components as they are closely linked together. Within the first three hours, not full fuel door, or for a long time at high speed.

▲ Mixing different brands oil can damage the engine. We recommend using SF15W40 lubricants.

Oil to the engine.

- Check the oil with the dipstick. See below.



Important Steps

1. Please drive it slowly at the beginning of running. Select an open area so that you have enough space to practice and master the operation of the vehicle.
2. Throttle down to change frequently. Do not keep engine operating at high speed for long periods.
3. Check the oil level regularly and replace with correct oils. See previous page.
4. Never overload tray or have more than one person on vehicle.
5. In the initial stage of use, replace the oil and filter every 20 hours or 200 km or once a month.

Pre-ride examination

Not doing proper checks before each ride, may cause serious injury or death.

Cold engine starting

Engine exhaust contains poisonous carbon monoxide gas, inhaling may lead to loss of consciousness, resulting in serious injury or death.



1. Place the transmission in neutral position.
2. Open the fuel switch.
3. Sitting on the ATV (Utility), pull the choke lever (1).

NOTE: The throttle position slide button , the damper is fully open. Button slide damper position, the damper is completely closed. Damper is adjustable, in the end when you need to open the damper depends on the number of starts. To go forward the damper needs is open.

1. Set the engine stop switch to  position.
2. Twist the ignition key to the  ON position so start working. So start working up to 5 seconds, and immediately after starting the vehicle release the start button. If the engine does not start, release the starter interval of 5 seconds, and then start again. Repeat this step until the engine starts.

3. The engine is hard to start, pull the choke lever to allow the engine to warm-up properly.
4. Rev the throttle a little (Not too much) to help engine warm-up.

NOTE:

Allow engine to warm-up before using, this will prevent premature engine wear.

Warm engine start

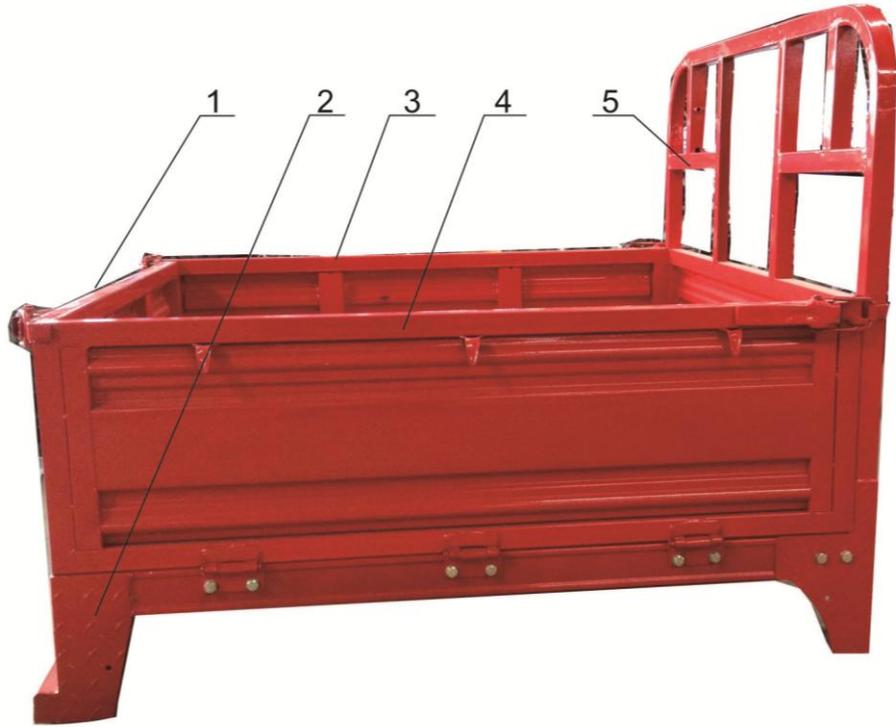
Warm engine does not normally need to use the throttle or choke to start. Use the damper would if spark plug becomes wet.

1. Park the vehicle in horizontal position,
2. The vehicle stationary, the engine in neutral, open the fuel switch, turn on engine, switch to the position. ↻
3. If the engine temperature is too low, not easy to start, then you can continue to use the throttle, but do not keep revving.
4. If the engine starts immediately, release the throttle lever.

If the engine still not turning over there could be something wrong, please try again, after replacing the spark plugs.

Utility driving

1. This carriage can be taken from the vehicle, it consists baseplate, front backrest, left & right door plate, tailgate. When you fix the carriage on the vehicle, you should follow this instruction.
 - A. Fixing the front backrest (5) with the bolts of baseplate (2).
 - B. Snap-fitting left&right door plate (3) (4) with front backrest.Snap-fitting tailgate (1) with left&right door plate.
 - C. Adjust and fixing bolts of left&right door plate and baseplate as well as tailgate.
 - D. Fixing the whole carriage with frame of vehicle.
- 2.This ATV (Utility Vehicle) can carry the weight of approved cargo; do not exceed the maximum load specified in the user manual. Goods should be evenly distributed in the compartment, and placed as low as possible. When driving on bad roads or mountain road, slow down and reduce the weight of the goods, in order to maintain your safety.



Transmission belt

Use low forward gear in order to enhance the power of the transmission belt and reduce engine wear.

Warning

Improper load will affect the vehicle's control, may cause loss of control or braking ability and result in serious injury or death.

When the tray is loaded must note the following:

- When truck driving, slow down, to give a longer braking distance.
- Cargo weight distribution in the tray, less load put less strain on vehicles engine.
- When driving on bad roads or mountain roads, slow down.
- Cargo should be overloaded.
- Goods not distributed evenly, may reduce operating smoothness.

- Unbalanced load will affect the stability and operation of the vehicle and may cause to get out of control.
- Goods firmly strapped in and proceed with caution.
- ATV (Utility) overloading can cause too much strain on the brakes, which can cause brakes to fail, especially in a downhill situation.
- Tray with cargo, the rider should pay particular attention. Stability and maneuverability will be affected, resulting in a rollover, if not careful.
- No speeding. When driving an ATV (Utility) a full tray, speed not more than 10 miles (16 km) / hour. Loading the car in bad way, or turning, uphill or downhill, the speed not more than 5 miles (8 km) / hour.

Safe driving technical guidance

1. The body upright, feet on the pedals, his hands clasped handlebar.
2. Start the engine warm-up and then shift.
3. Check the lighting conditions, select the route.
4. Release the parking brake.
5. Slowly turn the throttle with your right hand, started. Speed determines the degree of throttle opening.
6. Slow. Practice driving on a flat ground and use of the accelerator and brake.

Safety turning

This ATV (utility) uses a fixed rear axle; always drive both rear wheels at the same time. This means that when you turn, the outside of the wheel must travel a longer distance than the inside of the wheel this can cause the tyre must lose traction from wear.

To turn, face the direction you are traveling and lean your upper body toward the inside of the turn, while the body weight is supported on the outside by the footrest. This technique balanced distribution of traction on the rear wheels, make turning smoothly. You should use same leaning technique in reverse when cornering; this will help balance the ATV (Utility).

Note:

1. Practice turning at very low speed before increasing your speed.
2. Big bends turning quickly will roll vehicle, keep balanced. Do not take big bends sharply.

Riding in low traction locations

At any riding on slippery ground such as wet track or loose gravel, or during freezing weather driving, be sure to note the following:

1. Drive very slow.
2. Maintain a high degree of vigilant, check the path before taking it; avoid quick, sharp turns that can cause loss of traction.

3. Turn the handlebar towards the direction of the skid; keep the body center of gravity forward.

Warning

▲ proceed with caution when riding on slippery surfaces, it is possible to lose traction and loss of control accidents occurred, resulting in serious injury or death.

Do not use the brakes when ▲ slipping. On slippery ground no speeding. Slow down, and pay extra attention.

Security uphill ride

When riding uphill, to note the following:

1. Drive straight up, don't turn.
2. The feet on the pedals.
3. The body center of gravity forward.
4. Stability speed and throttle.
5. Keep vigilant in case of emergency. This may cause rollovers.

Warning

In the hilly areas, brake operations will be greatly influenced. Improper procedure results in loss of control or vehicle rollover, resulting in serious injury or death.

Avoid climbing steep slopes (up to 20 degrees).

When riding be especially careful, follow the operation steps in the user manual.

Operating system

Riding across a hillside

Riding across a hillside should not be done, as it may cause loss of control or overturn on the hillside, leading to serious injury or death. Try not to travel laterally on the hillside. Please refer to the user manual steps performed.

Riding across a hillside is the most dangerous way to travel, must be avoided. If this does happen, you must pay attention to the following:

1. Ride slow.
2. Lean towards the side of the hill, feet on the footrest.
3. Aim slightly uphill, keeping the vehicle going in straight line. Don't turn.

NOTE: If your vehicle starts to overturned, if possible quickly turn the steering wheel in the direction of the turn, or immediately jumped out of the

vehicle toward the uphill direction.

Safe downhill driving

Downhill, note the following:

1. Straight down
2. The center of gravity of the body backward tilt.
3. Slow.
4. Tap the brakes to help slow down.

Warning: Speeding can cause loss of control, resulting in serious injury or death. Travel downhill slowly.

Safe operation on a steep slope

If you do not follow the correct procedures when climbing, it may induce loss of control or rollover, and result in serious injury or death.

You can not travel on more than 20 degree slopes.

Please strictly follow the warning when you want to climb the hill and follow the process of climbing operation of the user manual.

If the vehicle is in the process of climbing and it stops climbing, the vehicle must not creep down the slope.

When you have to turn up the hill or steep bend, there is a way you can use the motor.

1. Engage the parking brake and brake, and keep your balance.
2. Holding vehicle from going forward and turn off the engine.
3. If the vehicle is moving in a positive direction uphill, please get off from the front or the left side of the vehicle.
4. Holding uphill state of the vehicle, and the left hand to the most.
5. Squeeze the hand brake when the brake lock and slowly release the brake and let the vehicle roll to your right, until it is traveling over the ramp or slow down gently open.
6. Lock brakes the vehicle brakes and re-direction from uphill, keep the body center of gravity upward.
7. Transmission applications will still run at re-start the engine.
8. Slowly release the brake brakes to hand brake to control the speed until the vehicle reaches the relatively flat ground.

Safe driving over the water

Your ATV (utility vehicle) can be equivalent to a maximum depth of the footwells in normal water driving. (1) Traveling over the water, please follow the following rules.

1. Check water depth before travelling through it.
2. Select the two sides have a gradual slope place.

3. Slow operation, avoid rocks and obstacles.

4. After going through water, gently squeeze the brake lever until the brakes is working properly.

After the vehicle is traveling through water, please reference tables for maintenance of vehicle.

The following places are in need of special attention: engine oil, axle oil, gearbox oil front.

Warning

If, after the vehicle travels over the water did not thoroughly checked, it could lead to the engine body is damaged. Please follow the steps to debug the vehicle maintenance table.

If your vehicle has been flooded or had traveled more than board feet of water, and ask before starting the engine when the vehicle is brought to the seller at the maintenance.

Note: Do not travel in deep or fast-flowing water. If you can not avoid exceeding the maximum water level in driving, please drive slowly and carefully to master the balance, avoid sudden operation, maintain a slow and steady forward. Do not suddenly turn or stop, do not suddenly transformed damper.

Safe driving over obstacles

Vigilant! Look ahead and try to understand the terrain you are traveling.

For more risky things, such as dogs, rocks and branches hanging low altitude maintain its vigilance.

Warning

If your car hit a hidden rock, may cause serious injury or death. Not all of the obstacles can be identified.

Please drive carefully on unfamiliar terrain.

Reverse Driving Safety

When the reverse driving, the following warning.

1. Always avoid downhill backwards.

2. Slowly backwards.

3. Reverse travel time; gently apply the brakes to stop the good.

4. Avoid backwards on steep slopes.

Warning

Not in accordance with the requirements of reverse warning may result in serious injury or death. Before into reverse gear, always check whether there is an obstacle behind the vehicle or person. When safe to operate, reverse slowly.

Avoid reversing on a slope and avoid turning on steep slopes.

Safety on the slopes parking

Try to avoid parking on slopes, if unavailable, observe the following warning measures:

1. Switch off the engine
2. Do not put the transmission in neutral.
3. Setting the parking brake.
4. According to the owner's manual, always park vehicle facing in a uphill direction.
5. Turn off the fuel tap.

Noise emission control system

Do not modify the engine, intake or exhaust system, may result in noise that exceeds local restrictions.

Engine is equipped with a closed crankcase system.

Emission Control System is fitted.

Emission discharge from exhaust system for this vehicle is controlled by the engine design, including fuel delivery and ignition is set by manufacturer.

Engine and related components must be in accordance to the manual to maintain optimum running standard.

Only adjustment allowed is on engine idling, the owner can adjust themselves. Any other adjustments must be done by an authorized dealer.

Displacement label is placed on the back.

Warning

Install some even increase emissions beyond the legal limits of the device will not be counted manufacturers warranty scope, and may violate laws and regulations and vehicle registration operation.

Additional energy provides 12V, for operating attachments. As flashlight, battery charger, cigarette lighter and so on.

Periodic maintenance table

Regular maintenance and servicing will help your vehicle run smoothly and safe. On inspection, adjustments and lubrication are the most important components, regular replacing of oil is preferable. When necessary, inspect vehicle, clean, lubricate, tighten anything that is loose, and replace faulty parts. Make sure parts are replaced with genuine parts, which can be purchased from your dealer.

Note: Regular servicing is preferable. Please refer to a qualified dealer for any work on the vehicle to ensure your safety.

Maintenance Schedule:

The following table is based on the average driving conditions and about 10 kilometers per hour average speed.

More intense use of vehicles, maintenance is required frequently.

1. For example intensive driving, submerged in mud, water, and sand.
2. Long-term low-speed, heavy load while driving.
3. Long-term neutral.
4. Cold weather excursions

Pay special attention to oil levels.

Always check oil levels and top up as required or replace.

Warning

Incorrect operation of the guidelines (front ■ mark) may cause operational failure of parts, and cause serious injury or death. That is why it is very important to service vehicle with an authorized dealer.

Category	maintenance cycle (not in sequence)			Remarks
	Time	When	Miles(Km)	

■	Grasp the direction	-	Pre-Ride	-	When needed for debugging.
▲	Front suspension	-	Pre-Ride	-	
▲	Rear suspension	-	Pre-Ride	-	
	Tyre	-	Pre-Ride	-	
▲	Brake lever	-	Pre-Ride	-	
▲	Brake lever operation	-	Pre-Ride	-	
	Brake system	-	Pre-Ride	-	
	Tyre / tensioning device	-	Pre-Ride	-	
	Frame tensioner	-	Pre-Ride	-	
▲ E	Engine oil limit	-	Pre-Ride	-	
▲ E	Air filter, the first filter	-	Everyday	-	Inspection, regular cleaning
▲ E	Air box deposition tube	-	Everyday	-	Drained visible deposits
	Cooling agent	-	Everyday	-	Check measurement daily, a 2 -year change
	Headlamps/tail lights, operating lights	-	Everyday	-	Check operation, if the replacement, then add insulation oil
▲ E	Air filter, the main components	-	Weekly	-	Check, replace when needed
	Return pipe	-	Weekly	-	When needed drained, if the operation frequently in humid conditions, please always check
▲ E	Brake Pad	10H	Per Month	100(160)	Periodic inspection
	Storage battery	20H	Per Month	200(320)	Check the interface, cleaning, testing
▲	Before transmission oil	25H	Per Month	250(400)	Check the measure, one-year change
▲	After the gearbox oil (if any)	25H	Per Month	250(400)	Check the measure, one-year change

Maintenance and lubrication of the periodic table ("H" for hours, "M" is the month)

Catagory		Maintenance cycle (not in sequence)			Remarks
		Time	When	Miles (Km)	
▲	Integrated Lubrication	50H	3M	500(800)	Lubricate all means, shaft, such as cable.

	Carburetor chamber	50H	6M	500(800)	Emissions internal cyclical and limited storage
■E	Throttle cable / ETC switch	50H	6M	500(800)	Inspection;adjustment;lubrication; needed to be replaced
■E	Valve Line	50H	6M	500(800)	Inspection;adjustment;lubrication; needed to be replaced
E	Carburetor Gas Pipeline / edge	50H	6M	500(800)	Check the pipeline closed / air leaks
	seat belt	50H	6M	500(800)	Check; adjust; replace as needed
	cooling system	50H	6M	1000(1600)	Strength quarterly check coolant
▲ E	Replacing the engine oil	100H	6M	1000(1600)	Big oil change once a month
▲ E	Replace carburetor	100H	6M	1000(1600)	Change the oil replacement
▲ E	Tank discharge pipe	100H	12M	1000(1600)	Check the path and conditions
■E	Valve Cleaning	100H	12M	1000(1600)	Inspection; adjustment
■E	Fuel System / Waste	100H	12M	1000(1600)	Check the tank cover leaks and dipstick. Pump, carburetor, every two months to replace the line
▲	Radiator (if any)	100H	12M	1000(1600)	Inspection; clean the outer part
▲	Cooling hoses (if applicable) a condenser (if any)	100H	12M	1000(1600)	Check leak
▲	Engine mounts engine port	100H	12M	1000(1600)	an examination
	Exhaust muffler / pipe exhaust muffler / pipe	100H	12M	1000(1600)	an examination

Catagory		Maintenance cycle (not in sequence)			Remarks
		Time	When	Miles (Km)	
■E	Spark plugs	100H	12M	1000(1600)	Inspection; replacement needed
■E	Ignition timing	100H	12M	1000(1600)	an examination
▲	Wiring	100H	12M	1000(1600)	Check for wear; path; security, apply dielectric

					grease to protect underwater at the junction, mud and other operations.
■	Clutch (driving and driven)	100H	12M	1000(1600)	Inspection; cleanup; replacement of old parts
■	Front wheel bearings	100H	12M	1000(1600)	Check; replace when needed
■	brake	200H	24M	2000(3200)	In a change
	Spark plugs	300H	36M	3000(4800)	Clear up
E	Airspeed				When you need to adjust
■	Foot adjust				Periodic inspection; adjust when parts replacement
	Headlight				When you need to replace the



If severe driving, make more frequent maintenance with the above steps

Periodic maintenance records

The following form to record periodic maintenance

Maintenance	intervals	dealer or person operating	Remarks

Lubrication Guide

Periodic testing and lubricate start from P66, listed in the periodic maintenance parts on the table. Keep record of lubrication changes.

Lubrication Guide Key

After ▲ violent events more frequently lubrication changes.

- In the long-term storage or washing or flooded water after each use U- 500 in joint lubricants.

Component parts	Oil type	method

Synthetic lubricants

SF10W-30; P4 Four Seasons synthetic lubricating engine oils are particularly useful with 4-cycle engine. It is completely artificial, more pressure-sensitive adhesive, specifically to provide the ultimate vehicle lubrication and maintenance.

Note: P4 lubricants operating within the maximum temperature range. In the case of -40 degrees to 49 degrees, it will not be adhered to and will rub loose. Additional friction will promote less fuel consumption, high energy.

Although this is only recommended for lubricating oil in the engine, but the use of any SH certified oils are possible, as long as in the case of OW-40. If not used, then the oil may need to be changed frequently. Follow the advice of the plant operated at the appropriate temperature.

Brand-name or not recommended by the lubricant may cause serious engine damage. We recommend P4 or other synthetic OW-40API oil. Do not use brand-name instead.

Oil Detection

Note: In cold weather check rising oil can check out the accumulation of moisture or oil in the crankcase. If the oil is within the limits specified above, please oil change immediately.

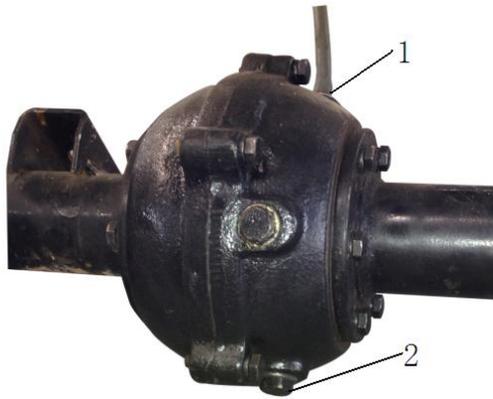
1. ATV (utility vehicles) surface of a limited position.
2. Start the engine and idle for 20-30 seconds.
3. Stop the engine. Remove the dipstick and wipe dry with a clean cloth.
4. Completely reinstall the dipstick, dipstick and must be fixed to maintain a certain degree of depth and coordination.
5. Remove dipstick and check the oil. Keeping oil in a safe and suitable location, everything depends on your dipstick specifications, do not install too full.
6. Reinstall tighten dipstick.

Maintenance and lubrication

Oil Change

1. Place the vehicle on a level surface.
2. Run the engine for 2-3 minutes until warmed up, then stop.
3. Clean around the drain plug.
4. Place a drain pan under the engine crankcase, and remove the drain plug. **Warning:** Hot oil can cause severe burning. Do not allow hot oil to contact the skin.
5. Let the oil completely drain.
6. Replace the drain plug gasket. Note: The crankcase drain plug and seal the surface should remain smooth, without scratches and abrasions.
7. Reinstall the drain plug from the button and transferred to 20 ft. Lbs. (27 Nm).
8. Place the towel below filter. Use an oil filter removal tool; turn counter-clockwise to remove the filter,
9. Use a clean, dry cloth to clean the filter seal surface on the crankcase.
10. With fresh oil lubricate the O-ring on the new filter. Check to make sure the O-ring is in good condition.
11. Install a new filter and rotate by hand until the gasket seal contacts the surface and then continues to rotate $1/2$ turn tighter.
12. Remove the dipstick and sump inject 2.3 liters recommended lubricants.
13. The position of the gearshift is set in PARK and set the park brake.
14. Start the engine and allowed to idle for 1-2 minutes, then stopped and checked for leaks.
15. Recheck the oil dipstick on the limit and when necessary to increase the amount of oil, the oil will be brought to the limit a little higher amount for the dipstick scale.
16. Proper disposal of used oil and filters.

Rear axle gear oil change



1. The ATV (utility vehicles) in a horizontal position and remove the plug (1).
2. Remove the drain plug - drain plug is located on the lower side of the gearbox (2).
2. Oil should be discharged into a tray and properly dispose of old oil.
3. Clean and reinstall the plug twist added to 22 ft. Lbs. (30 Nm).
3. To supplement plug hole (1) to the bottom of the addition of 0.5 liters of gear oil, check for leaks.
4. Re-install supplementary plug. Twist to 22 ft. Lbs. (30 Nm).

Check the front gearbox oil

Maintain and supplement oil dipstick plug (1) consistent with the bottom.

Additional drive gear oil recommended for use. Using other oils may cause faulty components.

1. The ATV (utility vehicles) on a level surface.
2. Remove supplementary plug (1) and check the oil dipstick.
3. Increase the recommended oil, if registering near bottom line of the dipstick.
4. Reinstall the supplementary plug, twist to 8-10 ft. Lbs. (11-14 Nm).

Oil Change

1. The vehicle on a level surface and remove the front in addition to the transmission case assembly (2).
2. Remove supplementary plug (1), the front gear box assembly upside down on the drain pan drain the oil.
3. Clean and increase 150ML drive gear oil.

4. Reinstall the drain plug, twist to 8-10 ft. Lbs. (11-14 Nm), check for leaks.
5. Reinstalling the front gear box assembly.

Engine Cooling System

Standard radiator coolant

To ensure that the coolant maintains its effectiveness to protect the engine, we recommend that the system is completely drained once every two years and increase the mixture of antifreeze and water. Recommended 60/40 coolant and antifreeze mixture, or aluminum is compatible with high-quality 50/50 antifreeze and coolant and distilled water mixture. 60/40 mixture is fine to use. Do not dilute water.

NOTE: Always follow protection on chilled ice manufacturers notices.

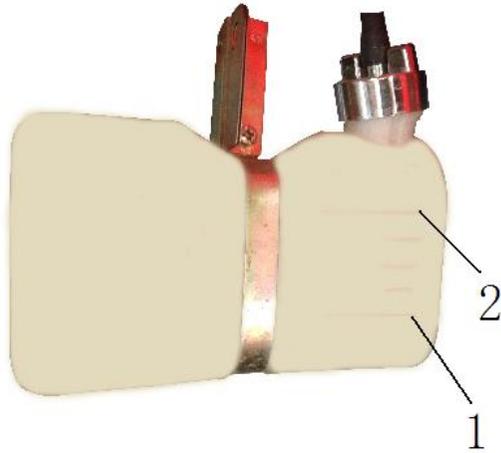
Replace coolant if there is coolant discharge after repair. If the overflow bottle dries out, it will effect the function of the radiator. When needed top up the coolant.

Warning

When hot it may cause severe burning from steam. Do not remove the pressure cap when the engine is hot. Before remove pressure cap, always check the engine cool down.

1. To get to the radiator pressure cap, open the front cover and pushed open the door.
2. Remove pressure cap (1)
3. Using a funnel, place in spout and slowly pour radiator coolant in.
4. Reinstall the pressure cap, good protection through the door and close the box.

Note: Using non-standard pressure cap can cause system to not work properly. On matters relating to replacement parts, contact your dealer.



Cooling water standards

Overflow bottle located in front of the machine, to fill bottle, look at measurement level marked on bottle for coolant levels. The maximum between (2) and the minimum (1) (when the coolant is cold situations such as below 1 mark, add coolant no more than two).

Operation of the Radiator

Maintain good running engine make sure coolant levels are correct at all times. To improve radiator function check these components - overflow bottle, radiators supplement caliber, radiator pressure cap and the connecting pipe. When the coolant operating temperature increases, the warming of the coolant could shoot out of the radiator, before removing pressure cap check the overflow bottle, don't remove cap until vehicle has cooled.

Note: As the radiator cleans out lots of air pollutants, some standard coolant on the new machine can be used normally. Replace overflow bottle if in bad condition.

Operating means

ATV (utility vehicles) before using the vehicle, check all nuts and bolts to make sure they have not come loose. If you find any loose, tighten before driving.

Tyre replacement

1. Stop vehicle and apply the park brake.

WARNING: Improper installation of tyres, can affect the wear of the tyre and vehicle operation, resulting in serious injury or death. Always ensure that the nut is twisted explained that the required torque. Do not operate the safe with an opening pin axle nut. Let vendors to operate.

2. Towards the outer end of the valve train, and rotated in the direction indicated by the arrow, inferior race to the tyre is mounted to the hub.
3. Install the wheel nuts and tighten.
4. Lower the vehicle to the ground.
5. The wheel nuts according to the specifications required torque.

Tyre nut torque instructions

Occasionally check the wheel nuts of torque, is loose Perform maintenance.

category	Explanation
Front wheel nut	27 ft. lbs. (37 Nm)
Rear wheel nut (right orthodontic left crossbite)	35 ft. lbs. (48 Nm)

Filtering system

Air filter maintenance

1. Open the seat, release the air filter clips, and then open the lid.
2. Loosen air filter clamp, remove the air filter.
3. Wash in soapy water, then rinse, dry.
4. Re-install the filter in the air filter box, tighten the clamp, tension clamp should be appropriate so as not to damage the filter.
5. Replace the box or filter element

Oil separator / hose

1. The oil separator is connected to the engine rocker cover.
 2. Open the clip to remove the filter from the hose.
- Note: Do not have have to removed hose from the engine.
3. Check the oil separator inside for any debris. Blow through in the direction of the arrow gently to remove any blockage,. Check to to see whether the blockage has been removed!
 4. Check hoses, look for cracks, degradation, wear, or leaks; replace damaged.

5. Re-install the filter and the clamp.

Lamps

When changing halogen lamps, please do not touch with hand. Oil on the skin will leave marks on the lamp, resulting in hot spots, reducing the life of the lamps.

Warning: driving, bad lighting effects can cause injury and even death. Under normal operation, the lens of the headlights and taillights will get some dirt on them, regular cleaning to ensure the quality of light.

Be sure to maintain after the lamp cooling, to avoid being on the lamp still burns very hot components.

Replacement lamps

1. Remove the headlight fastening bolt (1).
2. Remove the lower part of the brim of the screw with a Phillips screwdriver (2), and gently remove the brim (3).
3. Remove the plastic cover and waterproof light tank light tank.
4. Remove the bulb counterclockwise downward pressure.
5. Insert lamp in the slot and reassemble.

High beam adjustment

Headlight beams can be adjusted up and down.

Please adjust according to the following steps:

1. Place the vehicle on a level surface, the lights from the wall about 39 feet (10 meters).
2. Measure the distance between the floor and the center of the headlights, and mark on the wall.
3. Turn the ignition switch to turn the headlight switch, and transferred to the beam.
4. Observe the light spot on the wall, the strongest point of the light on the wall should be less than 3 inches mark (8cm).

Note: When measuring make sure driver is sitting on vehicle for the correct weight.

5. Loosen clamping screw (1), after adjusting the position of the beam to the required fastening.



Left and right taillight assembly replacement

1. Remove the cable connector (1) from the rear of the lamp assembly.
2. Use a Phillips screwdriver to remove the taillight assembly counterclockwise (2), install the new replacement.
3. Test position taillight brake / reverse / no normal steering function.

Spark plugs

Be sure to use the recommended spark plugs.

Warning

Other types of spark plugs will cause serious damage to the engine. Make sure you use our recommended spark plugs.

The spark plug can indicate the condition of the working conditions of the engine. In the engine warm-up and the vehicle at high speed conditions, check the spark plug color, in order to infer the working conditions of the engine.

Remove the spark plug check the time when Always wear protective gloves to avoid being the exhaust system and the engine burns.

1. Normal function:

Normal insulation terminal is gray, beige or light brown. Make sure no combustion residues, the electrodes burnt or corroded, which indicates that the engine has an overheating problem, keep well maintained.

NOTE: If the insulation goes white on the side, it means it is hot. Often by the use of an inappropriate spark plug or a role in the regulation of the oil is not correct.

2. If there is a case, where there is dirt:

Generally, the electrodes are damaged, if black oil-contaminated on insulator tip at end of spark plug, burnt end of a spark plug, carbon layer covering the end of the spark plug. This is usually due to the excessive use of oil, improper choke use or incorrect quality of oil.

Removal and replacement of spark plugs

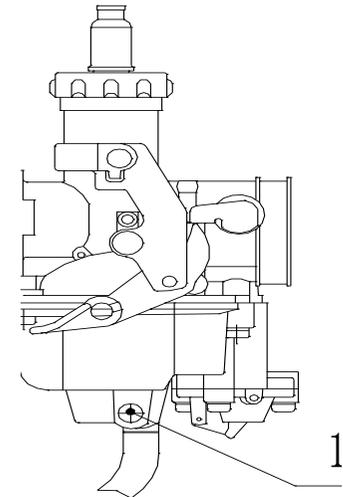
1. First remove the spark plug cap.
2. Using the special spanner provided in the toolbox, remove the spark plug counterclockwise.
3. And doing the opposite direction, when installing the spark plug. Please use the recommended spark plug, the maximum torque of 18ft-lb (24 Nm)

If the vehicle is submerged

Warning: If the vehicle is submerged in water without careful and comprehensive examination, it may cause serious engine damage, before starting the vehicle engine please pay in auto inspection.

If you can't drop off to dealership for inspection, please follow these steps:

1. The vehicle moves to dry land or at least so the water level is below the footwell.
2. Check the air box, clear water; if there is water, replace the filter.
3. Turn off the valve.
4. Remove the spark plugs.
5. Loosen the screws of the carburetor (1).
6. Electric start to start the engine several times.
7. Dry the spark plug, then install or replace the spark plugs.
8. Tighten the screws on the carburetor.
9. Open the valve.
10. Tried to start the engine. If necessary, repeat the above operation.
11. Take vehicle to an authorized dealer to do vehicle maintenance, regardless of whether the starting of the vehicle was successful.



Arrester

Warning: If the spark plug maintenance is not in accordance with the following warning instructions could lead to injury or even fatal. Do not attempt to repair the flame arrester, if clogged, go to the dealer to replace.

Battery

Our ATV (utility vehicles) is a closed cell, closed no maintenance. Closed battery cover can be identified by the battery at the top level.

Make sure that the battery terminals are not corroded. If you need to clean up, wear protective gloves, use stiff wire brush to remove. With a tablespoon of sodium bicarbonate into the glass of water, then this water to wash the battery. Rinse with tap water, dry with paper towels. Apply grease to terminals only after connected. Be careful not to tap into the solution or the conventional battery.

Warning: The electrolyte is toxic, sulfur acid, when in contact with skin, eyes and clothing can cause burns.

Detoxification methods:

External: washed with water.

Oral: Drink plenty of water or milk, then drink magnesia milk, raw egg or vegetable oil. Immediately see a doctor.

EYES: Rinse water for 15 minutes and drops eye drops.

Battery produces explosive gases. Keep away from sparks, cigarettes. When charging battery, keep in well ventilated environment. When operating near the battery, protect the eyes. Keep out of reach of children.

How to remove the battery:

- 1, Disconnect the battery plate, remove the battery cover.
2. Disconnect the green (negative) battery cable.
3. Disconnect the red (positive) battery cable.
4. Remove the battery from the vehicle. Be careful not to tilt the battery, so as to prevent the electrolyte outflow.

Warning: If there is a electrolyte leak, immediately put a tablespoon of sodium bicarbonate with the glass of water, washing the vehicle, the vehicle in order to avoid corrosion.

Battery Installation

1. The battery into the battery compartment
2. If it is a traditional battery, the battery is installed on the vent pipe. (Closed cell without ventilation tube)

NOTE: The vent tube must not be blocked, to install stable. Otherwise the battery gas may accumulate, resulting in an explosion. Ventilation pipe must avoid the frame of the vehicle to avoid corrosion. Avoid skin contact with the electrolyte, in order to avoid burns.

3. First connect the red (positive) cable.
4. And then connect the green (negative) cable.
5. Replace the battery cover, battery tape.
6. To adjust the cable.

Note: When installing a new battery must be fully charged for the first time. If using a new battery is not fully charged, it may damage the battery and reduce service life. It will also affect the performance of the vehicle.

Prolong life of battery

When the vehicle is stored for three months or with long time, the battery should be removed and stored in a cool dry place, and a month to check the status. Before use, check the battery and or go to dealer to get it charged.

Supplementary battery fluid (conventional battery)

If the maintenance on the battery is bad, the condition will deteriorate quickly. Always check the battery fluid level. It should be maintained between upper and lower liquid level mark. Use distilled water; tap water contains minerals that will damage the battery.

WARNING: Incorrect connecting and disconnecting the battery cables can cause an explosion and serious injury or even death. When removing the battery, be sure to disconnect the negative (green) cable. When installing the battery, be sure to connect negative line (green) last.

Charging (batteries enclosed)

The following instructions apply only to charge the battery that is enclosed battery. Before battery installation, see instructions.

Closed battery is already has electrolyte added; the housing has been closed and well charged. Do not peel the seal; do not add any other liquid.

It is important to maintain the enclosed battery to keep the battery fully charged. Because the battery closed, the seal can not be torn off; you must use a voltmeter or multi-tester DC voltage.

Check the battery

Charging Please follow the instructions below

Use a voltmeter to check battery voltage. The fully charged battery voltage should be 12.8V or higher. If the voltage is lower than 12.8V, recharge the battery.

Note: When using an automatic charger, follow the manufacturer's instructions. When using a DC charger, please follow the instructions below to charge.

Warning: overheating battery will explode, causing serious injury and even death. Be sure to pay attention to the charging time. If the battery feels hot, you want to stop charging, and after cooling to continue charging.

Note: Availability 1-2 hours before or after the completion of charging and complete, check the battery.

(Charge condition)	(Voltage)	(How Conservation)	(Charging time) in accordance with the standard battery charging top tributary charger.
100%	12.8—13.0 v	(Without maintenance, the factory three months after the inspection)	Do not need
75%--100%	12.5—12.8 v	(You may need a little charge, if not sufficient, check within three months)	3-6 hours
50%--75%	12.0—12.5 v	You need to be charged	5-11 hours
25%--50%	11.5—12.0 v	You need to be charged	At least 13 hours, check the state of charge
0%--25%	11.5v or less	You need to be charged	At least 20 hours

Auxiliary power output

12V auxiliary power output

Cleaning and maintenance

Clean vehicles can be maintained without the appearance of the vehicle, but also to extend the service life of various components. You can clean your vehicle, like you would your car.

Washing vehicles

Vehicle washing best and safest way is to use a rubber tube and non-corrosive soapy water. Wearing a professional cleaning gloves and follow below instructions:

Often washed with water, then wipe dry with a shammy. Avoid leaving water spots.

Note: If cleaning vehicles, warnings and safety label is damaged, can go to the dealer to replace.

When washing the vehicle, we do not recommend the use of high-pressure cleaner. Be careful when washing to avoid damage of wheel bearings, transmission seals, body panels, brake systems and warning signs.

Note: Immediately after cleaning, start the vehicle and let the engine and exhaust system run for a while to make sure the water evaporates.

Waxing the vehicle

Use non-abrasive car wax. Do not use harsh cleaners, so you don't scratch the body of the vehicle.

Warning: The chemical products such as pesticides, can damage the surface of the vehicle, when the using such products in the vicinity of the vehicle, be sure to take care not to get on the vehicle.

Storage tips

During long periods of storage the engine, the protective films of oil will seap to the bottom, which may cause damage to engine, if not started regularly.

Clean vehicle outside

Before cleaning make the necessary repairs, and then use non-corrosive, soapy water to remove salt and dirt on the vehicle. Do not use harsh cleaners and high pressure. Some detergents can damage rubber parts. Kitchen and household cleaners may cause water to enter the vehicle-for example rubber seals can get ruined.

Stable fuel

Fill up, into the carbon treatment agent or a fuel stabilizer. Refer to the dosage instructions on the packaging of the product (carbon treatment may also reduce the bacteria in the fuel system). Start the engine for 15-20 minutes, so that the stabilizer in the tank and spread inside the carburetor.

Turn off the valve, drained fuel inside the carburetor.

Fuel filters

Let the engine warm, change the oil and filter.

Air filter / air box

Check and clean or replace the air filter and pre-cleaner. Get clean air box, the residue drain pipe.

Breather filter

Check and clean or replace breather filter.

Level

Check the fluid around the gearbox, transmission, and brake systems, if necessary on the replacement (or every two years to replace a contaminated liquid or after dark).

Adding to the engine spray protective film

1. Remove the spark plug; add 2-3 tablespoons of Premium 4 Synthetic OW40 engine oils. Cover spark plug injection hole with hose and plastic bottles.

Note: When the spraying be careful, if the cover falls off, oil will flow from the spark plug hole, and then it will flow into the cylinder head.

2. Reinstall the spark plug and tighten to tightening torque 18ft.lbs (24 Nm)

3. Inside the spark plug cap wipe oil off and then replace.

4. Start the engine several times. Careful oil may enter the piston rings, a protective film is formed on the cylinder.

Instead of using oil spray

If you do not use our oil spray, please follow the steps below.

1. Follow the instructions on the packaging of adding carbon treatment agent in the fuel system.

2. Support the front of the machine, keep the engine level or slightly tilted backwards.

3. Remove the spark plug, rotation of the piston to the BDC position, into the Division I recommend about 2 ounces of oil.

4. Reinstall the spark plug and tighten to tightening torque 18ft.lbs (24 Nm)

5. The spark plug cap wipe oil off, and then install the spark plug.

6. Start the engine several times to ensure that the oil can cover piston rings, cylinder wall and the crankshaft bearing.

7. Don't put additive in fuel tank, keep fuel lines and carburetor free of additives, and only use clean fuel.

Inspection and lubrication

Check all cables and lubricants. Refer to the instruction manual to maintain the vehicle with the correct lubrication instructions, lubricating oil can be used year-round.

Battery Maintenance (General)

Remove the battery, plus the right amount of distilled water. Do not use tap water, because minerals reduce battery life.

Apply the oil on medium terminals and bolts after they are connected not before. With 1.4amp or low to charge the battery until no units of gravity reaches 1.265 or higher than 1.265. Store the battery in a cool, dry place.

Battery maintenance (seal)

Remove the battery charged in accordance with the instructions on page 39. In a cool, dry place.

Engine antifreeze

Testing of the engine coolant, if necessary, replace. Every two years to change a cooling agent.

Vehicle storage area and covered

Set tyre pressure, the vehicle on the ground 1-2 " place. Storage areas must have good ventilation; use genuine ATV (utility vehicles) covered.

Note: Do not use plastic or coated material of the cover, cover this material can not ensure good ventilation, easily lead to corrosion and oxidation.

Chrome wheel maintenance (if rims are chrome-plated)

Proper maintenance can prolong the life of the rims, so that the appearance looks brand new and free from corrosion.

Regularly clean wheels. With non-corrosive cleaner to remove dirt, mud masonry on the rim, and other periodic cleaning grinding wheels. Please use the automotive polish. After sanding, waterproofing wax marked on each wheel. Please choose chrome waterproof wax, in accordance with instructions for use.

Wheels easily exposed to salt air near coastal areas or salt on roads are susceptible to corrosion. If the rims are exposed to salt or other corrosive elements, make sure you clean regularly.

Removing rust

If you find rust on the vehicle, you can be steel wool (# 0000-0TT level) to remove. Gently rubbing with steel wool until the rust is gone. After removing rust wipe with an oily rag.

Moving the vehicle by transport

Please follow these steps:

1. Remove the key to prevent loss during transport.
2. Put gear to neutral
3. Turn off the fuel tap and make sure the fuel cap on tank is secure. The seat and other items are secure.
4. Suitable ropes or straps are used on the ATV (utility vehicles) frame and is secure on transport vehicle.

Carburetor / idle

ATV (Utility vehicle) is tuned at the factory for optimal power and efficiency at these conditions. The ATV (Utility vehicle) is able to adapt to the altitude from zero to 6000 feet (1800 meters), a temperature of from zero to 40 degrees Celcius or higher. Above 6000 feet fuel:air to ratio becomes too rich in the fuel and will need to have a smaller jet put in the caburettor by a mechanic at 1000 feet the engine will loose about 3% of it's power. Adjusting the carburrettors air:fuel mixture can help overcome this loss of power.

If the engine idle speed is not ideal, you can adjust the carburetor. Take to a authorised dealership to do adjustment.

Put transmission to neutral, warm up the engine for 5 minutes.

Carburetor idle speed adjustment screw can be turned to adjust the idle speed. Turning the screw clockwise will increase idle speed and anticlockwise will decrease idle speed.

Note: In the case of the carburetor not operating well it can cause the engine efficiency to be poor, overheat, or cause damage. Go to a local dealer for more information.

Throttle cable adjustment

1. Adjust the handlebar throttle cable.
 2. Slipped out of the rubber layer to expose the cable regulator, exposing the adjusting nut.
- Note: When adjusting the throttle cable when the throttle lever, always move the front and rear grip.
3. Tighten the nut die, the rubber sleeve faded back to the middle of the regulator.

How to find and troubleshoot

You can not start the engine

Problem	Solution
Short circuit	reconnected crowbar
Low battery voltage	to charge the battery to 12.5VDC
Battery connection is poor	Reconnect
Solenoid poor connection	Check the line

The engine is stopped, failed to start

Problem	Solution
Starvation	Refuel
Valve and oil filter clogging	Check, clean or replace
Oil which contains water	The oil, put a clean, then re- add.
Oil valve is closed	Re-open valve.
Oil aging or inappropriate	Replace with new oil
Contamination or failure of the spark plug	Check spark plugs, replace if needed
No spark spark plug	Check the spark plug, see stop switch is not turned on.
Crankcase oil or water	Pay at auto repair
Choke excessive use	Check the spark plug, clean it if necessary to replace.
Fuel filter clogged	Replace the filter
Low battery	Charged to 12.5VDC
Mechanical failure	Get the dealer for repair.

Engine noise

Possible causes	Solution
Low octane or poor quality oil	Division I recommend using oil
Ignition timing errors	Take to Dealership
Spark plug gap or heat -type error	A gap or replace the spark plug according to standard.

Engine backfire

Possible causes	Solution
Lack of spark ignition	Check, clean or replace the spark plug
Spark plug gap or heat range unreasonable unreasonable	Check the spark plug or replace the spark plug specifications
Lack of spark ignition	Replace the new fuel
Fuel expired or non-recommended fuel	Take to Dealership
Spark plug wire is not installed properly	Take to Dealership
Ignition timing are not allowed	Take to Dealership
Mechanical failure	

The engine does not work properly or backfire

The reason may be weak ignition	Solution
Blocked or defective spark plug	Check, clean or replace the spark plug
Damaged or defective spark plug	See Dealer
Spark plug gap or heat range unreasonable unreasonable	Check the specifications or replace the spark plug
Ignition loose connections	Check all connections and tighten
Fuel inlet	Replace the new fuel
Low battery	12.5 VDC Battery Charge
A fuel discharge port blocked or bent	Check and replace
Improper use of fuel	Recommended replacement fuel
Clogged air filter	Check the cleaning and replacement
Reverse speed fault	See Dealer
Electric throttle control fault	See Dealer
Other mechanical failure	See Dealer
Causes the fuel mix	Solution
Less fuel or contaminated	Fueling or refueling, cleaning system
Low octane fuel	Replace the fuel recommended
Clogged air filter	Replace the air filter
Incorrect injection	See Dealer
Mixed fuel sufficient reason	Solution
Use the throttle too long	Check clean or replace the spark plug
High octane fuel	Instead of using low octane
Incorrect injection	See Dealer

The engine is stopped or the power shortage

Possible causes of	Solution
Fuel exhaustion	Refuel
A fuel discharge port blocked or bent	Check or replace
Water in fuel	Replace the new fuel

Use the throttle too long	Check clean or replace the spark plug
Blocked or defective spark plug	Check clean or replace the spark plug
Damaged or defective spark plug	See Dealer
Spark plug gap or heat range unreasonable unreasonable	Check or replace the spark plug gap
Ignition loose connections	Check all connections and tighten
Low voltage	Ok to 12.5VDC
Improper use of fuel	Recommended replacement fuel
Clogged air filter	Check the cleaning or replacement
Reverse speed limiter malfunction	See Dealer
Electric throttle control fault	See Dealer
Other mechanical failure	See Dealer
Engine temperature is too high	Clean the radiator and the central portion Clean the outside of the engine See Dealer

Engine temperature is too high

Possible causes of	Solution
Debris into the filter	Remove and clean the filter, pull the top layer, and then move the following screen.
Radiator clogged	Flush the radiator material with a rubber hose. Note: The high pressure washer is deformed and the tail to make the radiator may reduce the effect of air-cooled.

Vehicle Specifications

Item Category	(Project / unit of measurement)	(Parameter values)	(Project / unit of measurement)	(Parameter values)
Whole car Ginseng number	Length × width × height	1850×1030×1130mm	Wheelbase	1160mm
	Wheelbase	930/ 860mm	Minimum ground clearance	155mm
	Vehicle curb weight	240kg	Rated contained mass	100kg
	Maximum speed	65km/h	Brake Type (front / rear)	Drum front / rear drum
	Brake forms of manipulation (front / rear)	Hand / foot	Rims form (front / rear)	Wheel / Rims
	Tyre size (front / rear)	23×7-10 22×10-10	Tyre pressure (front / rear)	100KPa
	transfer method	Shaft drive	Fuel tank capacity	11L
	Minimum turning radius	2900mm	Seat heigh	820mm

Engine parameters

Item Category	(Project / unit of measurement)	(Parameter values)	(Project / unit of measurement)	(Parameter values)
Hair move machine Ginseng number	model	ZS170MM-6	Bore × Stroke	70.0×64mm
	Type	Single cylinder, water-cooled, four-stroke	Cylinder working volume	246.3ml
	Compression ratio	9.7:1~10.3:1	Rated power and corresponding speed	11.5KW/7000r/min
	The maximum power and corresponding speed	11KW/7000r/min	Maximum torque and corresponding speed	19.5N.m/5000r/min
	Minimum load steady speed	1400r/min±100	Minimum fuel consumption rate	354g/kW·h
	Fuel Grade	93#	Lubrication	Pressure and splashed
	Grade Lubricant	15W/40	Clutch form	Automatic centrifugal

Wiring Diagram

