

# USER MANUAL

## XT400ATV



This operating manual includes important safety and maintenance information. When reselling the ATV to the next buyer, the operation manual should be passed on together with it because the next user also needs the manual. Please read the manual carefully before driving the new JUNMA 300 ATV. If failed to conform the requirements described in the manual, it will be easy to cause injuries and deaths.

### Warning

Read this manual carefully and follow the operating procedures and methods described in this manual.

Never operate an ATV without proper training or instruction.

A child under 16 years old should never operate an ATV. Never allow drive of an ATV by an individual person if he or she does not have the abilities to operate it safely.

### Warning:

Injury or death could be result from failure to follow WARNING instructions when you are operating, inspecting or repairing the ATV.

Always avoid driving and ATV on any paved surfaces, including side walks, parking lots and streets.

Never operate an ATV on any public street, road or highway, even a dirt or gravel one.

Never drive an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.

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

Never operate at speeds too fast Always drive at low speed on dusty surface.

Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.

Always keep both hands on the handlebars and both feet on the footboards of the ATV during operate.

Always go slowly and pay extra attention when operating on unfamiliar terrain .Always be alert to changing terrain conditions when operating the ATV.

Never operate on excessively rough, slippery or loose terrain unless you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.

Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.

Never drive the ATV 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 as described in this manual. Check the terrain carefully before starting up any hill. Never climb hills with excessively slippery or loose surfaces. Shift 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 down hills and for braking on hills as described in this manual. Check the terrain carefully before starting down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.

Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.

Avoid crossing the steep hills.

Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, use proper gear and 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 check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.

Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

Never operate an ATV in fast flowing water or in water deeper than that recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your

brakes after wiping water away. If necessary, apply them several times to let friction dry out the linings.

Always be sure there are no obstacles or people behind you when operating in reverse. When it is safe to proceed in reverse, go slowly. Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.

Never modify an ATV through improper installation or use of accessories.

Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached.

Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

Improper handling of gasoline can cause fire and can cause injuries and deaths and other serious accidents. So, do not refuel right after the engine has been running and is still very hot. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition. When transporting the machine in another vehicle, be sure it is kept upright and that the fuel cock is in the OFF position. Otherwise, fuel may leak out of the carburetor or fuel tank.

Never start or run the engine in a closed area will cause the breakdown. And exhaust fumes are poisonous and may cause loss of person's consciousness and death within a short time. Always operate your machine in an area with adequate ventilation.



1. Headlight    2. Front wheel    3. Mirror    4. Main switch  
 5. 2WD/4WD transforming lever    6. Fuel cock    7. Taillight    8. Rear wheel



9. Rear luggage carrier    10. Exhaust silencer    11. Cushion    12. Fuel tank cover  
 13. Brake pedal    14. Front luggage carrier.    15. Gear bar



16. Parking brake shoe    17. Throttle lever    18. Handlebar switch

19. Choke    20. brake lever

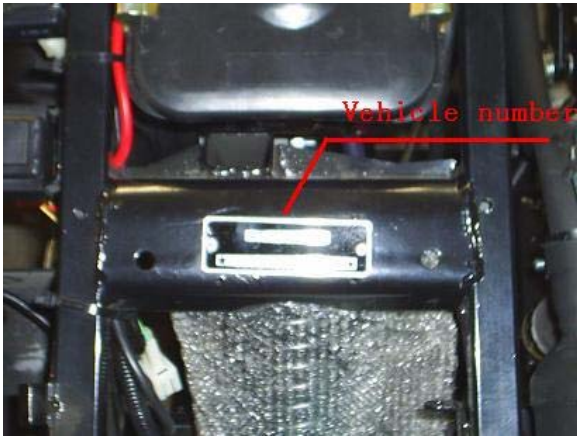
### Key identification number

The key identification number should be stamped on the key as shown in the following drawing. This number can be used for ordering a new key.

### Vehicle identification number

The vehicle identification number is stamped on    underside of seat.





## Main Switch

Function of the respective switch positions are as follow:



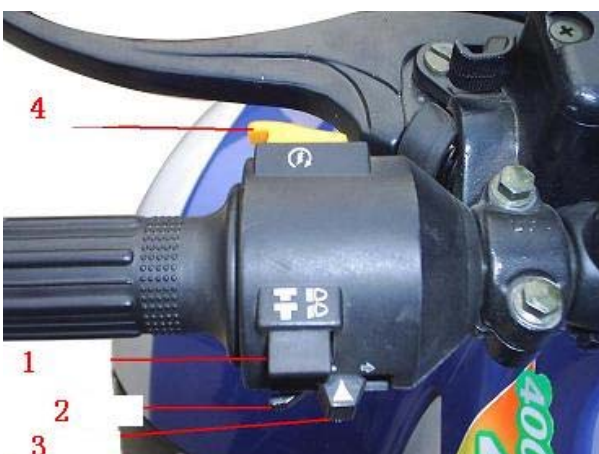
ON:

Engine can be started only at this position and the headlight and taillight come on when the light switch is on.



OFF:

All electrical circuits are switched off. The key can be removed in this position.

## Handlebar switch



1. Lighting switch   2.Horn switch   3.Turn light switch   4.Starting switch

1.When the light switch placed at  ,the high beam light comes on, when the switch is placed at  the low beam light comes on.

2. When pressing down the horn button, the horn sounds.

3. when the switch is placed at left, the left turn light and left turn indicator come on .When the switch is placed at right, the right turn light.

4. Press down the starting switch to start the engine, at the same time need handhold the break level .

### Throttle lever



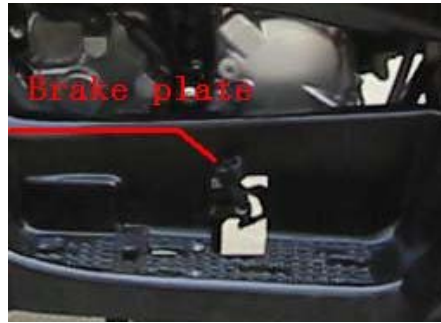
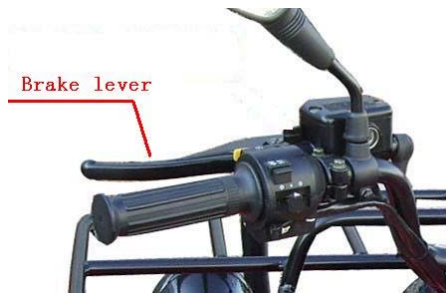
Once the engine is running, movement of the throttle lever will increase the engine speed. Adjust the speed of the machine by changing the throttle position. Because the throttle is spring-loaded, the machine will decelerate, and the engine will return to an idle and time the hand is removed from the throttle lever. Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

Check the operation of the throttle lever before starting the engine. IF it does not work smoothly, check for the cause. Correct the problem before riding the ATV. Consult a dealer



if you can't find or solve the problem yourself.

## Brake Lever

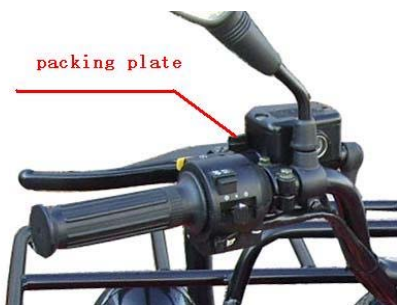


The brake lever is located on the right handlebar. Pull it toward the handlebar to apply the brake.

The brake lever is located on the right side of the machine. Tread down the pedal to apply the brake.

## Parking brake

When you have to start the engine or park the machine, especially on a slope. Use the parking brake. Apply the rear brake lever and push down the lock plate to apply the parking brake. Squeeze the rear brake lever to release the parking brake.



## Caution:

The ATV could start moving unexpectedly if the parking brake is out of function before starting the engine. This could cause loss of control or a collision.

The brake could overheat if you ride the ATV without releasing the parking brake. You could lose braking performance which could cause an accident. You could also wear out the brakes prematurely.

## How to avoid the hazard

Always set the parking brake before starting the engine. Always be sure the parking brake have been released before you begin to ride.

### Note:

It indicates you don't conduct maintenance or operation of four wheel vehicle of ATV according to the requirements in the manual, the vehicle might be damaged due to this reason.

## 2WD/4WD shift lever



To shift the 2WD to 4WD, stop the ATV and shift, the shift lever to 4 WD position. To shift the 4WD to 2 WD, stop the ATV and shift the shift lever to 2WD position.

### Warning:

#### Potential hazard:

When driving the ATV and shifting 2WD to 4WD or 4WD to 2WD, the 2WD is different from 4WD in operation. Shifting 2WD to 4WD when driving the ATV will make the ATV encounter the unexpected different controls, which will increase the accident risk.

## Gear bar



There are four shift gear : 1.Low speed 2.high speed 3. idle shift 4.Reverse

Warning: 1.When reverse must make sure the ATV has stop and Low the Throttle lever

2.Use the low speed gear on the rough road.

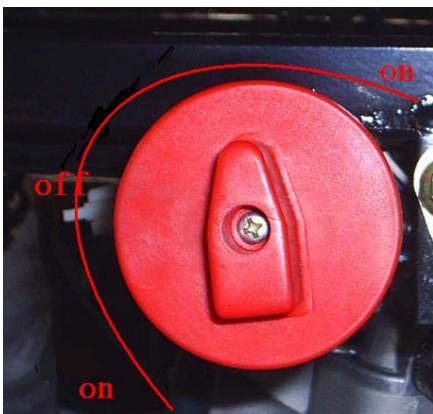
3.if not on the smooth road or the driver has skill, don't use the high speed gear.

### Fuel tank cap

Remove the fuel tank cap by turning it counter-clockwise.



### Fuel cock



The fuel cock supplies fuel from the fuel tank to the carburetor.

The fuel cock has three positions.

### OFF:

If the lever is in this position, fuel will not flow.

Always turn the lever to this position when the engine is not running.

## ON:

If the lever is in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.

## Seat



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

To install the seat, insert the lobes on the seat front into the receptacle on the frame and push down the seat at the rear. You should pay attention to make sure that the seat is securely fitted.

## Front carrier

Maximum load limit:40kg.

## Rear carrier

Maximum load limit:80kg.

## Front and rear brakes

Always check the brakes at the start of every ride. Do not ride the ATV if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures. Provided in this manual, have the ATV inspected by a dealer.

### 1. Brake levers and brake pedal

Check for correct free play in the brake levers and brake pedal, if the free play is

incorrect adjust it see pages.

## 2. Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brakes for wear. See page.

## Fuel

Make sure there is sufficient gasoline in the tank.

Recommended fuel: unleaded fuel

Fuel tank capacity: Total: 7.5L      Reserve: 1.5L      Unleaded fuel      1. Filler tube      2. Fuel level      will give a longer spark plug life and reduce maintenance cost. If unleaded gasoline is not available, then leaded regular gasoline can be used.

## Caution:

Fuel can spill, causing a fire and severe injury.

Fuel will expand when it heats up if the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun. So, do not overfill the fuel tank. Be careful, not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely. Do not refuel right after the engine has been running and is still very hot.

## Engine oil

Make sure the engine oil is at the specified level. Add oil as necessary.

## Recommended oil

SAE 20W40: Suitable for the ambient temperature (5-40)

SAE 10W30: Suitable for the ambient temperature (-10\_35)

SAE5W30:Suitable for the ambient temperature(0 or below)

Recommended engine oil classification: SE,SF,SG type or higher.

Oil quantity:

Periodic oil change:2.9L

With oil filter replacement:3.0L

Total amount:3.5L

### Lubrication oil of gear case

Make sure the lubrication oil of gear case is at the specified lever. Add oil as necessary.

### Recommended oil

SAE80 API GL Hypoid gear oil.

### Throttle lever

Check to see that the throttle lever operates correctly. It must open smoothly and spring back to idle position when released. Repair as necessary for proper operation.

### Fittings and Fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Refer to the Service. Manual for correct tightening torque.

### Light

Check the headlight and taillight to make sure they are in working condition . Repair as necessary for proper operation.

### Switches

Check the operation of the headlight. Switch, engine stop switch and any other switches. Repair as necessary for proper operation.

### Battery



The battery is and enclosed one and unnecessary to fill water.

Don't take off the closing bolt when charging.

When charging. Please obey the charging current and time as shown on the following table.

Charge criteria: Charge the battery with ten percent of capacity of battery for 5 to 10 hours, or quickly charge the battery with 2A to 3A for 2 hours.

### Tyre

The Front wheel :AT25X8-10      The Rear wheel:AT25X10-10

### Warning:

Use of improper tyres on this ATV, or operation of this ATV with improper tire pressure may increase your risk of accident.

Use of improper tyres on this ATV, or operation of this ATV with improper tyre pressure may. Cause loss of control.

Pay attention to choose the size and type of used tyres according to the description in the above chart and make sure that the tyre pressure is normal.

The tyres should be set to the recommended pressure.

Recommended pressure: Front 25kpa      Rear 25kpa

Check and adjust tyre pressure when the tyres are cold.

Tyre pressure in two sides should be the same.

Tyre pressure below the minimum specified could cause the tyre to dislodge from the rim under severe riding conditions, the following are minimums:

Front 22kpa      Rear 22kpa

### Starting an engine

### Warning:

Never ride the ATV in cold weather, always make sure all control cables work smoothly before you begin ridding.

Starting a cold engine:

1. set the parking brake
2. Turn the fuel lock to ON
3. Turn the main switch key to position.
4. Shift the transmission into neutral.

Warning:

The engine can be started in any gear if the rear brake lever is applied. However, it is recommended to shift into neutral before starting the engine.

5. use the starter (choke) in reference to the figure.

Note:

If the engine fails to start, release the start switch, then push the start switch again, pause a several seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds for each starting.

If the battery is discharged. Pull the recoil starter to start the engine.

Starting a warm engine

The throttle should be opened slightly when starting a warm engine.

Prewarming

To get maximum engine service life, prewarm the engine before starting off. Never accelerate forcefully with a cold engine.

Engine break-in

There is never a more important period in the life of your machine than the period

between zero and 20 hours. During this period prolonged full open throttle operation or any condition which might result in excessive engine heating must be avoided, after every full open throttle acceleration, the engine should run at lower speed for a rest so as to rid itself of the temporary build up of heat. If any abnormality is found during this period, consult a dealer.

#### 1.0-10 hours:

Avoid continuous operation above half throttle. Allow a cooling off period of five to ten minutes after every hour of operation. Vary the speed of the machine from time to time. Do not operate it at one set throttle position.

#### 2.10-20 hours:

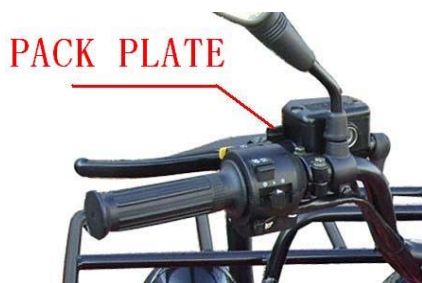
Avoid prolonged operation above  $\frac{3}{4}$  throttle revolving the machine can freely through the gears during running of engine but do not use full throttle any time.

#### 3 After break-in

Avoid prolonged full throttle operation. Change speeds properly.

### Parking

When parking. Stop the engine and shift into neutral. Turn the fuel lock to OFF and apply the parking brake.



Avoid parking on hills or other inclines. If you have to park on an incline put the machine in low gear, apply the parking brake and block the front and rear. Wheels with rocks or other objects. Do not park the ATV on the hills that are so steep you could not

walk up them easily.

1. Applying the brakes in low gear to stop the machine.
2. stop the engine.

Pay attention to the following points. Choose only accessories designed for your ATV dealer has a variety of genuine accessories. Choose a genuine accessory.

### Warning:

Accessories should be rigidly and securely installed.

Do not install an accessory where it could interfere with your ability to control the ATV.

Examples include a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view. Use extra caution when riding an ATV with accessories.

### Loading

Never exceed the weight limits shown an overloaded ATV can be unstable.

You must use common sense and good judgement when carrying cargo or towing a trailer.

Keep the following points in mind:

Maximum loading limit

Vehicle loading limit(total weight of cargo,rider and accessories):210kg

Front luggage carrier:40kg

Rear luggage carrier:80kg

Tool kit:2kg

Pulling load(total weight of trailer and cargo):410kg

Vertical weight on trailer hook:15kg

1. Do not exceed the maximum pulling weight.
2. Adjust the load in the trailer.

3. Cargo should be put as close to the center of the ATV as possible. Put cargo at the front of the rear luggage carrier. Put the cargo on the middle position and fix it on the carrier firmly.

3. Make sure the load does not interfere with controls or your sighting.

4. Ride more slowly than you would with a load. The more weight you carry, the slower you should go. Although conditions is different, it is not allow to exceed 2<sup>nd</sup> gear whenever you are carrying heavier loads or when towing a trailer. The time from brake to stop will be increased for loaded vehicle. High speed and sharp turns should be avoided.

5. Avoid riding on hills and rough road surface. And choose terrain carefully. Extra weight will affects the stability and operation of ATV.

This machine could be used to carry cargo and passengers is prohibited.

### Ride with care

1. Get training if you are unexperienced.

Beginners should be trained at the guide of professional person. Drive with this ATV with low speeds first to familiar with its performance, even if you are an experienced rider, do not attempt to operate at maximum performance until you are totally familiar with ATV's performance.

2. Dress

Always wear a motorcycle helmet when riding.

Also wear the following protective tools eye protection

3. Do not operate after drinking alcohol or drugs containing sleeping pill composition, because operator would be slow in driving in such way.

4. Always check your ATV each time before you use it to make sure the reliability of ATV. Always follow the inspection and maintenance procedures in the operation

manual to protect your ATV.

5. Always select the size and type of tyres specified in the operation manual for this vehicle to keep the normal tyre pressure.

6. Speed limit valve

This valve is used for beginners to limit the max speed of the ATV. Rotate the bolt clockwise to increase max.speed,and rotate it counterclockwise to decrease max speed.

7. Always keep your feet on the footboards during operation. Otherwise your feet may contact the rear wheel.

Never attempt stunts,such as wheelies or jumps. Don't try to show off.

8. Refit

Improper installation of accessories or refit of this vehicle may cause changes in handling which in some situations could lead to an accident.Never refit this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine or equivalent components designed for using on this ATV and should be installed and used according to instructions of dealer. If you have questions, consult with authorized ATV dealer.

9. Exhaust silencer



The exhaust silencer is very hot during driving. To avoid burns, do not touch the



exhaust cylinder. Park the machine where pedestrians or children can not touch it.

## 10. Where to drive

This vehicle is designed for wild terrain. So driving on the tarmacadam shall give rise to out of control

Don't operate the ATV on the tarmacadam, including the pavement public road, parking ground and walking street.

Don't operate the ATV on any public road street or highway

## Know the terrain where you ride

Ride carefully in complicated terrain. Stay alert for holes, rocks or roots in the terrain otherwise may cause the machine to tip over.

When riding in an area where you might not easy to be seen, such as dune and hilly land, must mount a caution flag on the machine to remind other vehicles.

Do not ride in areas of forbidding pass. Do not ride on private property.

## Operation course

### Caution:

Do not shift gears without releasing the throttle. Otherwise may cause damage to the engine or drive gear.

When slowing down or stopping, release the throttle and brake gradually. As you brake, shift to lower gear. Ensure that the engine has sufficiently slowed improper use of brakes or shifting can cause the tyres slidding to lose the control.

Must make the engine to slow down fully before engaging a lower gear.

## Turn

Must make the turning practice in low speed before making a turn.

Turn your ATV according to procedures in operation manual. Practice should be done

before turning in high speed.

The turning speed should not be too high.

As you approach a curve, slow down and begin to turn the direction rod. Then put your gravity center on the footboard to the outside of the curve and lean your body inside. Make the engine to maintain an even speed when passing the curve. This maneuver will let the tyre on the inside of the curve slip slightly.

The turning practice should be in flat area without any obstacles. Improper operation may make your ATV to go straight. If the ATV doesn't turn, stop it and practice again. If the riding surface is loose and slippery, move your weight forward.

Once you have learn this technique you can turn your ATV at higher speed.

The sudden acceleration, brake , incorrect body position and too high speed will cause the ATV to slip. If the ATV slips while passing a curve and the ATV machine leans inward, you should release the throttle and move your body gravity center to outside of the carve to avoid tipping over.

Remember: ride at higher speed only after you are thoroughly familiar with the operation of your ATV.

### Climbing slope

Don't ride on slope before you are very familiar with ATV operation skill. Otherwise it will cause accidents.

Necessary practice is required. When climbing the hill, move your body gravity center forward and operate according to procedures in operation manual.

Climb the hill according to the method in manual.

Check carefully before climbing.

Do not drive on slippery and loose slope.

Transfer your body gravity center forward and avoid abrupt acceleration and shift.

Drive in low speed when climbing the hill.

**Warning:**

There may be other vehicles and persons on other side of slope.

If your ATV can not climb the slope, turn round your ATV.

Make turning practice according to procedures in operation manual. Do not make turn on slope. Be more careful when making a turn on slope and avoid to climb steep slope when possible. When climbing the slope:

Do not drive on depression and slippery slope and drive according to procedures in operation manual.

Ensure the ATV not to slip when stop it on slope.

The shift should be proper and speed should be stable when climbing slope. Losing traction force, you should transfer the gravity center forward and brake the machine. Close the brake closing piece after stopping the machine.

**If the machine slips backward**

Transfer your gravity center backward

Brake by foot pedal

Close the brake closing piece after stopping the machine.

**Riding downhill**

Move your gravity center backward, when riding ATV downhill, your and grip steering bar, and drive at low speed.

Note: The brake performance is very important.

Whenever possible, ride your ATV straight, Turning may cause the ATV to tip over. Avoid too high speed so that you have time to deal with accident.

### Caution:

Practice the braking skill when decending the hill. Look over the terrain carefully before decending and transfer your body gravity center backward. Ride in low speed when decending the hill turning speed should not be too high when making a turn, and keep driving straight as far as possible.

### Crossing depression

When crossing depression, balance your ATV with body gravity center. You should be familiar with basic skills before crossing depression. Avoid to lose balance to cause accident.

Don't make a turn on a slope before grasping turning skill totally. You should be careful and cautious if making a turn on any slope.

### When crossing a slope:

Always follow proper prouclures in operation manual.

Avoid slope with slippery or loose surface.

Lean your gravity center in the slope direction.

### Crossing through shallow water

The ATV can be used to cross shallow water of maximum depth of 35cm. Check your path carefully before crossing, and avoid of ride where there is sharp drop off. Drive slowly and carefully.

Pay attention that wet brakes may reduce brake ability. Check your brakes after leaving water. If necessary, apply them to let friction dry out the linings several times.

### Riding over rough terrain

Be careful when riding on rough terrain. When riding over terrain which may damage the ATV, lay your feets on the foot pedals to avoid jumping and loss of control.

Don't try to ride over big obstacles such as rock and tree on the road. Follow the procedures in operation manual when riding over obstacles.

### Slipping

The ATV may lose control when driving on loose and slippery surface. Moving your gravity center forward is helpful to control the slipping of front wheels. When the rear wheel begin to slip, steer direction properly. Apply the brake only until you have stopped the slipping.

Practice safely control slipping at low speed. On very slippery surfaces, such as ice, drive slowly to avoid loss of control.

The above introduction is only for reference. Read it carefully and act according to circumstances.

### Periodic maintenance and adjustment

Periodic inspection, adjustment, and lubrication will keep your machine in the safest and most efficient condition. The points of machine inspection, adjustment, and lubrication are detailed in following.

#### Note:

Turn off the engine when maintaining unless specified. Have a dealer perform service if you are not familiar with maintenance.

### Operation manual and tool kit

You are recommended to put this operation manual in the vinyl bag and lay it under the seat as shown. Put the tool kit and low-pressure tire gauge in the storage case.

The maintaining information included in this manual is provided you with the necessary information for completing preventive maintenance and minor repairs by your self. The tools provided in the tool kit are sufficient for this purpose, except a torque wrench

necessary to tighten nuts and bolts.

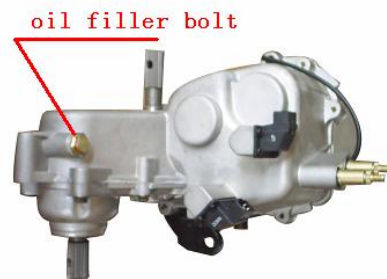
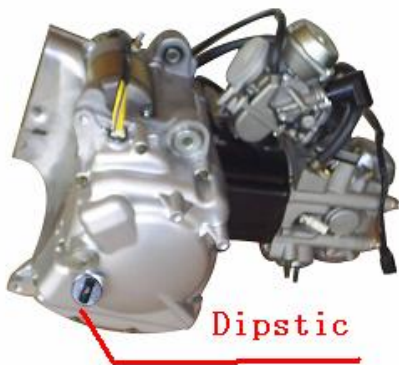
**Note:**

If you do not have a required torque wrench during maintenance, take your machine to a dealer to check the torque settings and adjust them as necessary.

## Engine oil

### 1. Engine oil level measurement

- a. place the machine on a flat surface Warm up the engine for several minutes and turn off it. Wait more than 10 minutes for the oil to drain back into the crankcase before checking the oil level.



- b. Wipe the dipstick off with a clean rag. Insert the dipstick in the filler hole.
- c. Remove the dipstick and inspect the oil level.
- d. The oil level should be between maximum and minimum marks. if level is low, add oil to raise it to proper level.



### 2. Engine oil replacement and oil filter element cleaning.

- a. place the machine on a flat surface. Warm up the engine for several minutes and



turn off place a container under the engine. Remove the dipstick and open the drain plug to drain the oil.

- b. Remove the oil filter cover and oil filter. Clean the oil strainer and oil filter with solvent.
- c. Inspect the O-ring and replace if damaged.
- d. Reinstall the oil filter, O-ring and oil filter cover. Replace the oil strainer, compression spring, O-ring and drain plug. Then tighten the drain plug and filter cover bolts to the specified torque.
- e. Add oil to the engine with oil and install the dipstick.

**Caution:**

**Be sure no foreign material enters the crankcase.**

- f. Warm up the engine for several minutes at idle speed. Check for oil leakage when warming up the engine for several minutes at idle speed. Check for oil leakage when warming up.

**Caution:**

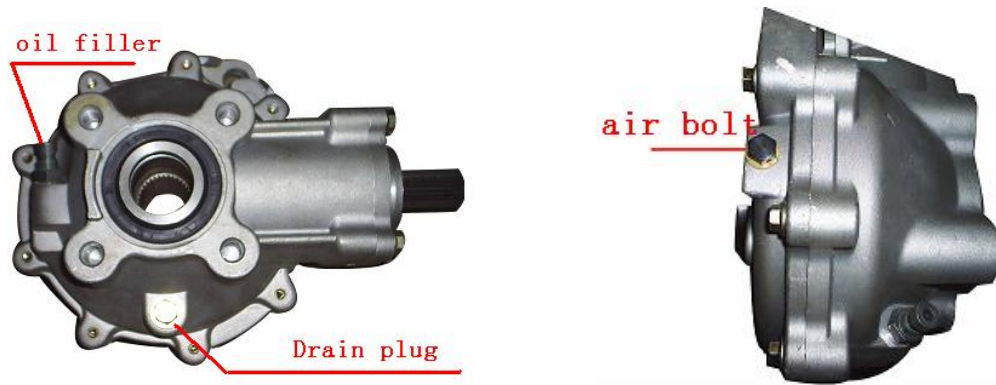
**If oil leakage is found , turn off the engine promptly and check for the cause.**

**Lubrication oil of final gear case**

- a. Measurement of lubrication oil of gear case.

Place the ATV on a level place. Remove the oil filler bolt and check the oil level. It should be up to the brim of the hole. If the level is too low ,add oil to raise it to the proper level.

- b. Install the oil filler bolt and tighten to the specified torque:23Nm (2.3m.kg, 17ft. lb)



### Lubrication oil replacement of final gear case

- Remove the gear case cover.
- Place the ATV on a flat surface.
- Place a container under the final gear case.
- Remove the oil filler bolt and the drain plug to drain the oil.
- Install the drain plug and tighten to the specified torque: 23Nm (2.3m.kg)
- Fill the final gear case with oil.

Recommended oil:

SAE 80 API GL-4 Hypoid gear oil.

Oil quantity:

Periodic oil change: 0.25L (0.21 Imp qt,)

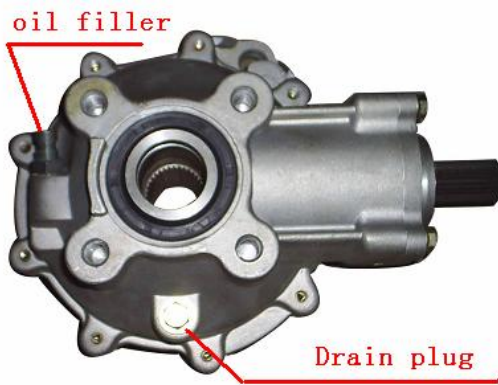
Total amount: 0.27L (0.23 Imp qt)

### Lubrication oil of front drive gear case

- Measure of lubrication oil of front drive gear case.

Place the ATV on a level place. Remove the oil filter bolt and check the oil level. It should be up to the brim of the hole. If the level is too low, add oil to raise it to the proper level..

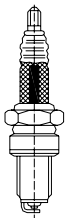
- Install the oil filter bolt and tighten to the specified torque 12Nm (1.2m.kg. 8.7ft.16f)



### Lubrication oil replacement of front drive gear case

- Place the ATV on a flat surface
- Place a container under the front drive gear case.
- Remove the oil filter bolt and the drain plug to drain the oil.
- Install the drain plug and tighten the torque 23Nm(2.3m.kg)
- Fill the front drive gear case.

### Spark plug inspection



You should periodically remove and check the spark plug because heat and deposits will cause slow damage oaderosion of the spark plug. If electrode erosion is excessive, you should replace the spark plug with one of the proper type D8REA.

Before installing the new spark plug, measure the electrode gap with a feeler gauge and adjust to specification.

Spark plug gap: 0.6-0.8mm

When installing the spark plug, generally clean the gasket surface and use a new gasket. Clean off and grime from the threads and tighten to specification.

Spark plug torque:17.5Nm(1.75m.kg)

### Air filter cleaning



There is a check hose at the bottom of the air filter case. If there are dust or water collects in this hose, empty the hose and clean the air filter element and air filter case.



### Caution:

The carburetor was set at the factory after many test. If the setting s are disturbed by someone without sufficient technical knowledge, poor engine performance and damage may result.

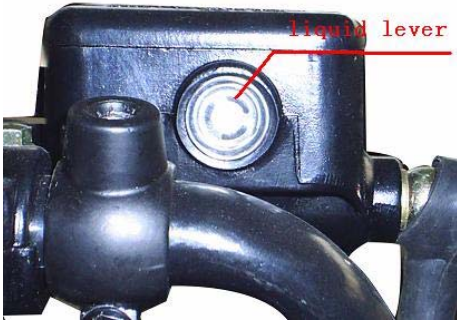
Never run the engine with the air element removed. This will let unfiltered air enter, causing rapid wear and possible damage of engine. Additionally, operation without the filter element will weak the performance of carburetor and cause overheating of engine.

### Carburetor adjustment

The idle speed may be performed by customer as a part of the routine maintenance.

## Brake liquid inspection

Lacking of brake liquid may let air run into the brake system, which may lead the brake be out of function. Before driving, check whether the brake liquid level is higher than the lower limit. Refill the brake liquid at same model if necessary.



## Brake liquid replacement

1. The complete replacement of brake liquid should be done by trained workers of the Group.
2. When periodic maintain or damage of block or oil occurs, ask the dealer to replace the following components:

Replace all the rubber seal components every two years.

Replace all the pipes every four years.

## Wheel remove

1. Left the wheel by placing a suitable support under the frame.
2. Remove the nut on the wheel.
3. Remove the wheel assembly.



### Wheel installation

Wheel installation is contrary from the removal procedure .Pay attaaention to the following points:

1. The arrow mark on the tyre must point to the rotating direction of the wheel.
2. Tapered wheel nuts are used for both front and rear wheels. Install tapered side of the nut towards the wheel.
3. Tighten the wheel nut.



### Battery

Avoid contact with skin, eyes or clothes. Always shield eyes when operate battery. Keep children away from it to avoid accidents.

### Cleaning and storage

#### A. Cleaning

Thorough cleaned ATV will has better appearance in general. Cleaning improves its running performance and prolongs the service life of many components.



1. Before cleaning the ATV:
  - a. Plug up the exhaust pipe with plastic bag or strong rubber band to prevent water in.
  - b. The spark plug and oil filler caps must be strictly installed.
2. If the engine case is excessively dirt, wash it with degreaser. Don't use degreaser for wheel.
3. Rinse the dirt and remove oil dirt on soft hose.

**Caution:**

Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes , transmission seals and electrical equipment.

4. When rinsing dirty material for many times, use warm water and mild detergent-type soap. Use old tooth brush or bottle brush to wash hard-to-get-at-places.
5. After cleaning ATV with clean water, immediately dry the surface with a chamois, clean towel or soft absorbent cloth.
6. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
7. Apply automotive type wax to all chrome plated surfaces. Avoid using combination cleaner-waxes. After using abrasives to protect scratched surface, let the engine idle for several minutes.

After washing the brakes, let engine brake several times at slow speed to dry the linings.

**B. Storage**

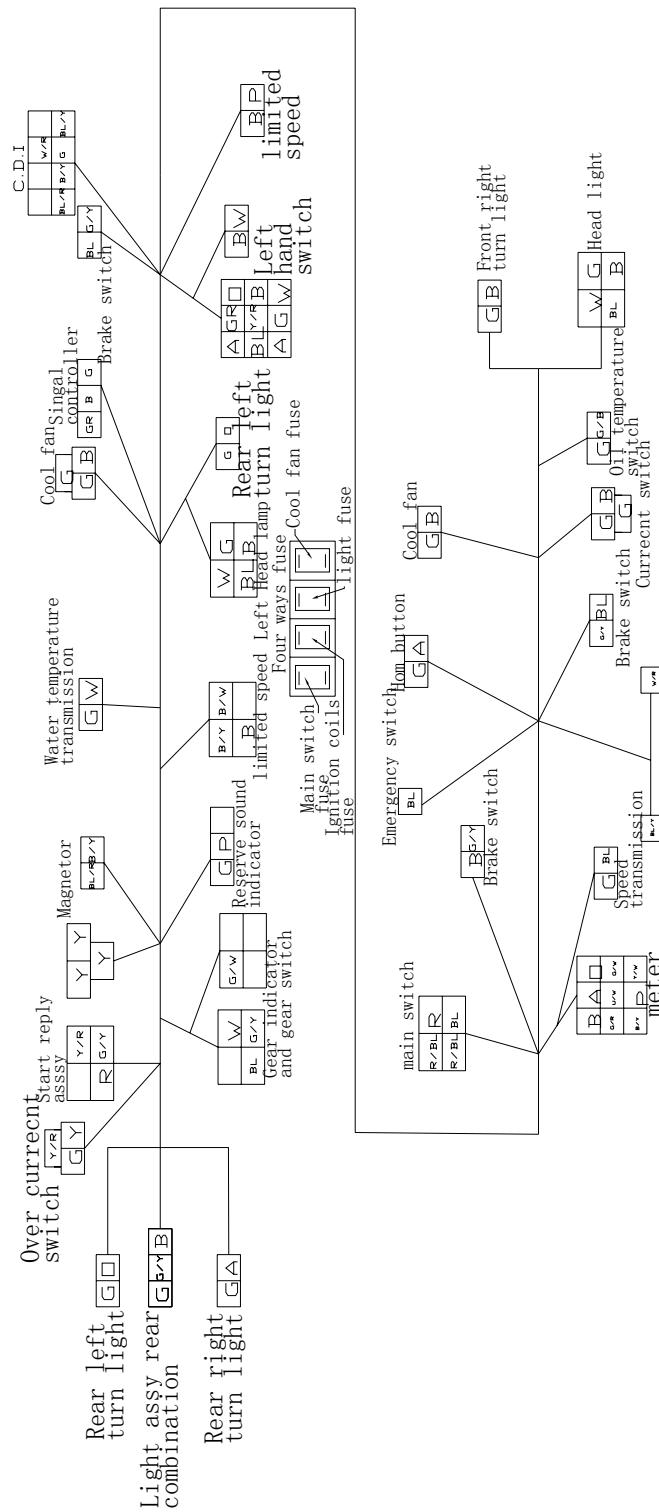
Long term storage (60 days or more) of your ATV will require some protective procedures to prevent ATV from damage. After thoroughly cleaning the ATV, adopt the following protective measures:

1. Add fresh fuel into fuel tank.
2. Add one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and run the engine over several times too coat the cylinder body with oil.
3. Lubricate all control cables.
4. Elevate the engine body to raise all wheels off the ground.
5. Seal the exhaust pipe outlet with plastic bag to prevent water in.
6. If store ATV in a humid or salt-air atmosphere, cover all exposed metal surfaces with a light plastic film of oil. Do not apply oil to any plastic parts or the cushion.
7. Take out the battery and store if in a dry place. The battery should be stored in the place where the ambient temperature should be 30 temperature maximum and 0 temperature minimum.

Item	Specification	Item	Specification
Dimension:Overll		Gear ratio:	
length	2150mm	Low speed	2.188
Overall width	1130mm	High speed	1.069
Overall height	1200mm	Reveerse	-1.5
Seat height	860mm		
Whell base	1400mm		
Minimum ground clearance	210mm	Frame	
minmum turning radius	3200mm	Frane type	stell tube
Basic weight		Caster angell	4
With oil and full tank		Trail	28mm
Engine:	1-stroke 4-stroke/water cooling		
Dispiacement	264ml	Tire	
Cylinder diameter	72mm	Type	Vacuum
Compresssion ratio	10.5:1	Size:Front	AT25*8-12
Starting system	Electric	Size:Rear	T25*10-10
Lubricaton system	presssure splash		

Engine oil:		Brake:	
Periodic oil change	2.8L	Front brake type	pan hydraulic brake
With oil filter repiacment	3.0L	Operation	left hand operation
Total amount	3.5L	Rear brake type	pan hydraulic brake
Total amount of gear oil	0.23L	Operation	left hand or right foot brake
Main fuel tank capacity	11L		
Reserve fuel tank capacity	2.4L		
Caburetor:		Suspension	
Type	Equal vacuum type	Front	Rock arm
Spark plug type	D8rea	Rear	Center damper
Spark plug gap	0.6-0.7mm	Shock absorber:	
Clutch type	shoe automatic centrifuga 、 wet several type	Front/rear	Spring/hydraulic damper
Transmission:		Whell travel:	
Primary reduction system	Apur gear	Front whell	150mm
Primary reduction ratio	2.444	Rear whell	150mm
Secondary reduction ststem	Shaft drive	Electrical:	
Secondary reduction ratio	2.61	Ignition system	C.D.I
Transmission type	Comstan mesh,2-speed front ,1-speed reverse	Generrator system	A.C Magneto
		Battery type/voltage,capacity	12V9A
		Head light	12V,35W/35W*2
Operation	right hand operation	Tailight/brake light	12V,5W/21W*1
		Turn indicator	12V,10W*4

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 month	6 month	6 month	1 year
Valve	Check valve clearance.Adjust if necessary	△		△	△	
Spark plug	Check condition. Adjust gap and clean.Replace if necessary.	△	△	△	△	
Air filter	Clean.Replace if necessary.	Every 20-40 hours(more often in wet or dusty areas)				
Carburetor	Check idle speed/starter operation.Adjust if necessary		△	△	△	
Cylinder head breather system	Check breather hose for cracks or damage.Replace if necessary			△	△	
Exhaust system	Check for leakage.Retighten if necessary.Replace gasket if necessary			△	△	
Spark Arrester	Clean			△	△	
Fuel line	Check fuel hose for cracks or damage.Replace if necessary.			△	△	
Engine oil	Replace(warm engine before draining)	△		△	△	
Engine oil filter	Clean	△		△		△
Engine oil strainer	Clean	△		△		△
Final gear oil	Check oil level/oil leakage.Replace	△				△
Brake	Check operation.Adjust if necessary	△	△	△	△	
Clutch	Check operation.Adjust if necessary	△		△	△	
Wheels	Check balance/damage/run out.Replace if necessary	△		△	△	
Wheels bearings	Check balance/damage/run out.Replace if necessary	△		△	△	△
Front and rear suspension	Check operation.Correct if necessary			△		
Steering system	Check operation.Correct if necessary.Check toe in.Adjust if necessary	△	△	△	△	
Steering shaft	Lubricate every 6 months.(use Li grease)			△	△	
Fitting and Fasteners	Check all chassis fittings and fasteners.Correct if necessary.	△	△	△	△	



B: blue      G: green      Y: yellow      BL: black      O: orange      A: azury  
 W: white      P: purple      U: umber      GR: gray