

Brief introduction

The full name of ATV is All-Terrain vehicles. JLA-21B SERIES ATV is newly manufactured by Yongkang Jinling Vehicle Co.,Ltd..

JLA-21B SERIES ATV embodies the experience and essence of world motorcycle technology.It adopts single-cylinder 4-stroke water-cooled engine newly developed by our company,and employs the devices of carburetor,manual clutch,four-speed forward, two persons ride, reverse driving and electric-starter,CDI electric ignition,pressure splash lubrication system, etc, which are good in performance.This ATV is novel and bright in design,having modern,streamlined model and luxury decoration design,And it meet the national standard in noise and dirt drainage .especially it embodies the great power,reliability, endurance.being an ideal transportation facility for ATV fans.

The correct operation and maintenance are the prerequisites at your safety riding of the ATV,and also can reduce the fault of the ATV and keep its best performance. So please read this manual! to understand its basic operation,repair and maintenance methods The informa-

tion contained herein all relates to the ATV of the current design and is subject to changes by our company according to the demands of market and users without notice .if you have any questions.Please consult with our ATV dealer.We are welcome for you precious advice and suggestions.Our company has established many service centers (stations,points),with specially-trained technical personnel in operation and maintenance .please contact with our ATV dealer and service center(stations,points).Our company consisitantiy adheres to the principle of quality first,users upmost,reputation foremost and be ready to provide you with high quality service.

IMPORTANT INFORMATION FOR OPERATION

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

CAUTION A CAUTION indicates special precautions that must be taken to avoid damage to the ATV.

NOTE A NOTE provides information can make your operation in the ATV easier or clearer.

- 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,

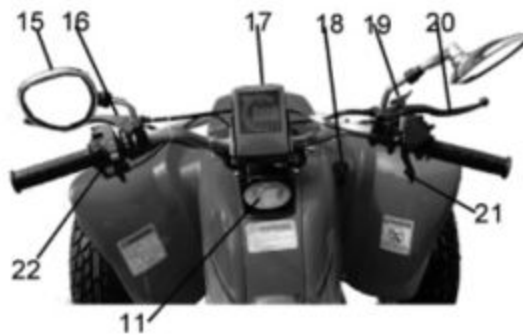
(goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.

- Never consume alcohol or drugs before or while operating this 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 operation.
- 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.

DESCRIPTION AND MACHINE IDENTIFICATION



- | | |
|----------------|----------------------|
| 1. Front wheel | 12. Water tank |
| 2. Front bump | 13. Foot rest |
| 3. Head light | 14. Brake pedal |
| 4. Radiator | 15. Mirror |
| 5. Fuel cock | 16. Clutch lever |
| 6. Rear seat | 17. Speedmeter |
| 7. Rear light | 18. Main switch |
| 8. Rear wheel | 19. Parking brake |
| 9. Shift pedal | 20. Brake lever |
| 10. Muffler | 21. Throttle lever |
| 11. Gas tank | 22. Handlebar switch |

The machine you have purchased may differ slightly from those shown in the figures of this manual for progress or other change.

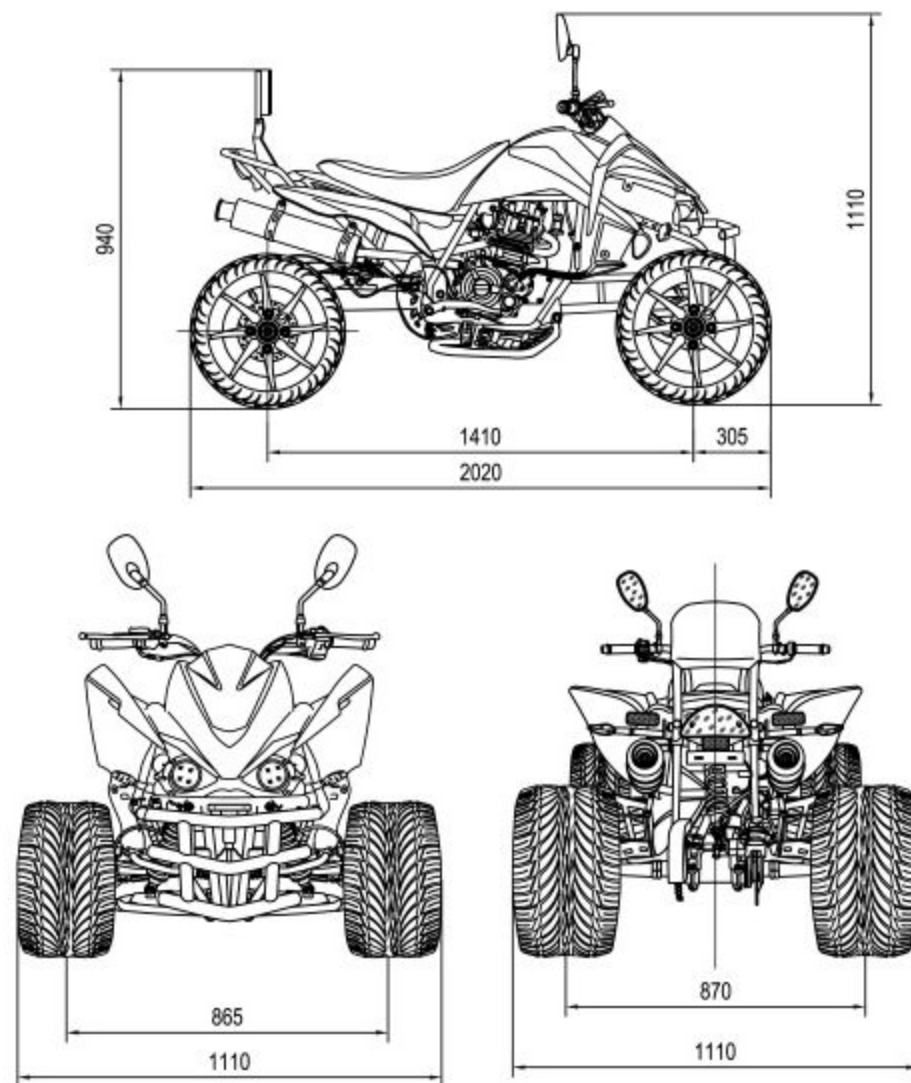
Identification numbers record

When ordering spare parts from a our dealer or for reference in case the vehicle is stolen Record vehicle identification number in the spaces provided for assistance. I.VEHICLE IDENTIFICATION NUMBER:

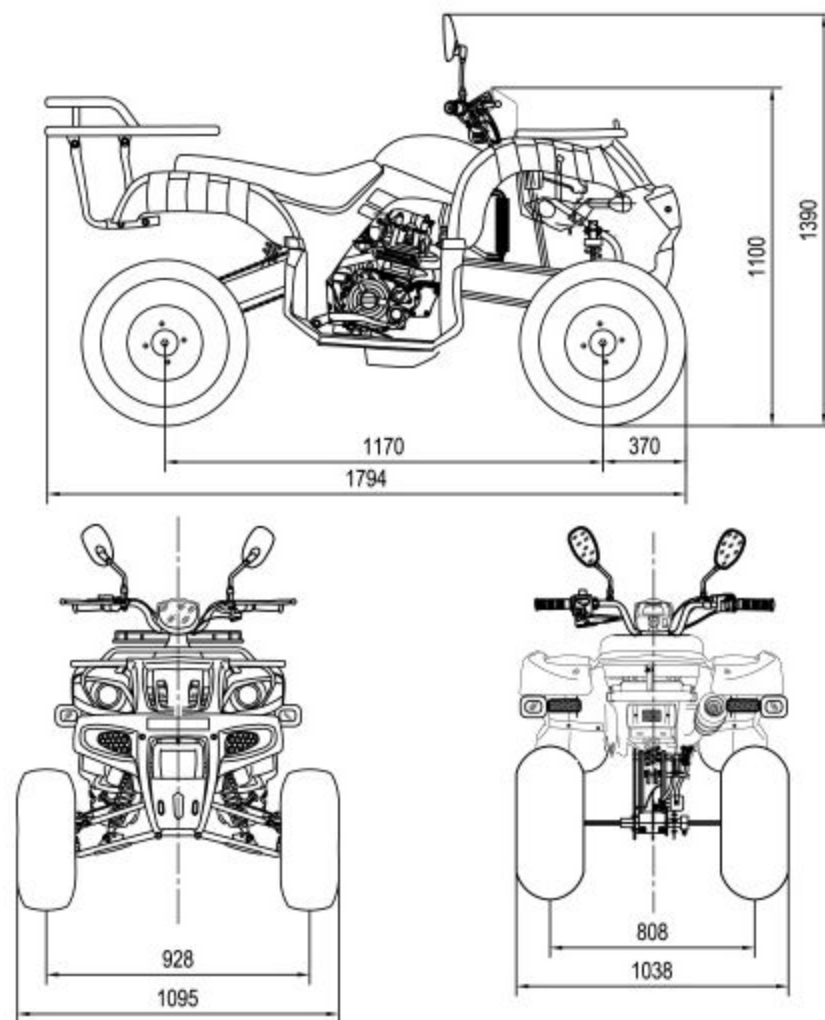


Vehicle identification number

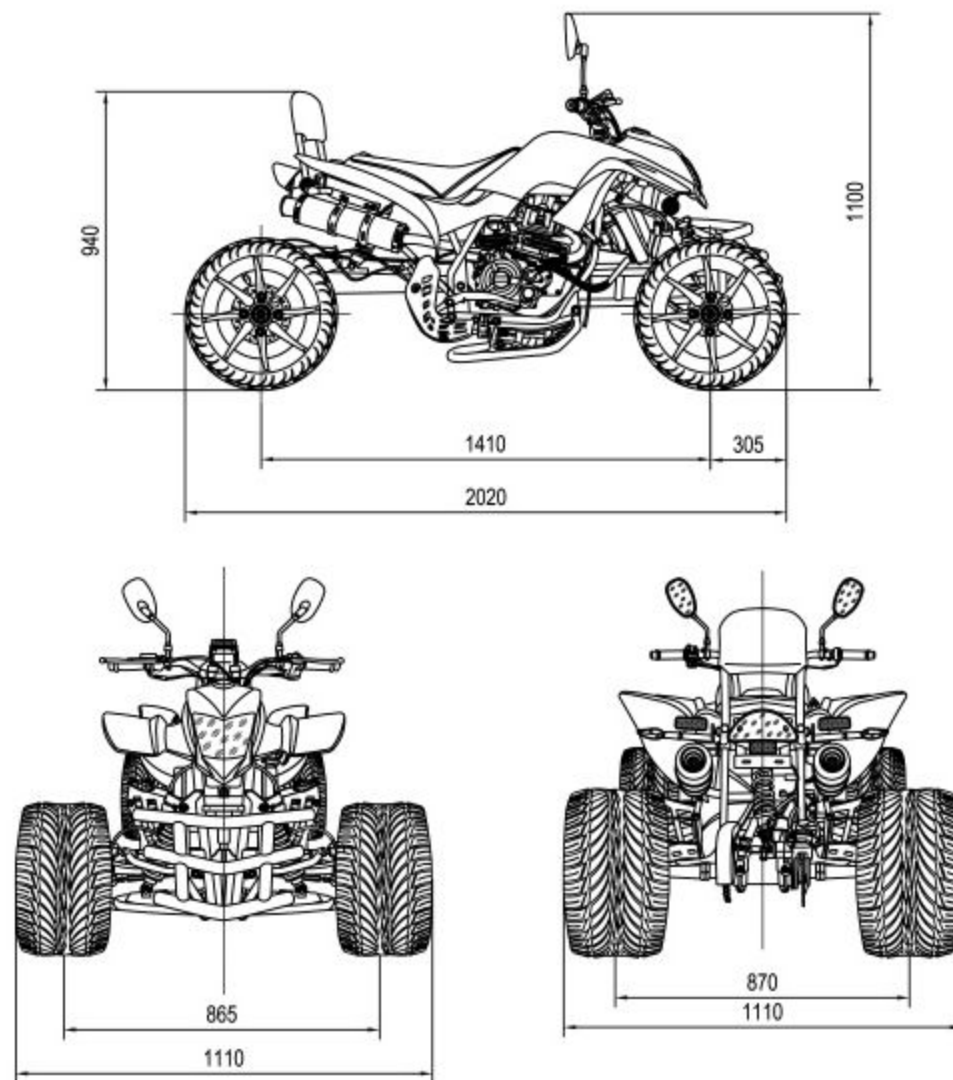
The vehicle identification number is stamped on crosstube of pedestal.



Because the tire type and engine type The machine you have purchased may differ slightly from those shown in the figures of this manual for progress or other change.



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CONTROL FUNCTIONS

Main switch

Functions of the respective switch positions are as follows:

IGNITION:

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.




Indicator lights

Reverse indicator light "R"

This indicator light comes on when the transmission is in reverse. The light is blue in color.

Neutral indicator light " N "



This indicator light comes on when the transmission is in neutral.

High beam indicator light 

This light is blue in color. It comes on when the headlight and high beam light is on.

Handlebar switches

Engine stop switch

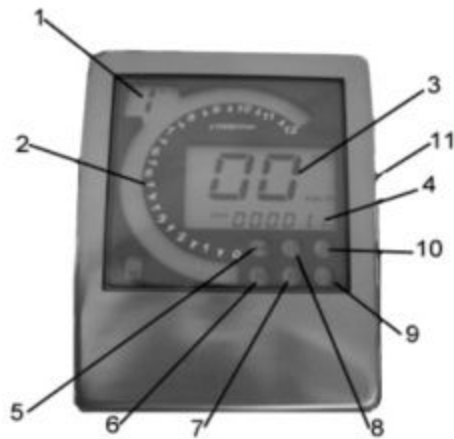
Make sure that the engine stop switch is in the  position. The engine stop switch controls ignition and can be used at all times to stop the engine, especially in an emergency. The engine will not start or run when the engine stop switch is turned to 

Start switch

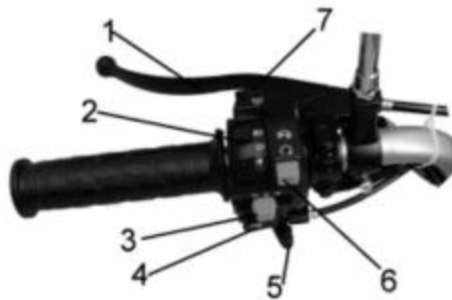
The starter motor cranks the engine when this switch is pushed.

See starting instructions prior to starting engine (see page for details).



If the starter switch is pushed with the



- 1. Gear indicator 2. Engine speed 3. Speed
- 4. Total kilometer 5. turn light 6. Neutral indicator
- 7. Reverse indicator 8. High beam indicator
- 9. low beam indicator 10. Caution light 11. Caution switch





- 1. Clutch lever 2. Light switch 3. Turn light switch
- 4. Horn switch 5. Choke switch 6. Engine switch
- 7. Start switch

main switch “IGNITION” and the engine stop switch”  , the starter motor will be activated but the engine will not start. To start the engine ,be sure to set the engine stop switch at.” 

Note: when you want to start the engine, please keep the parking brake been hold.

Lights switch "LIGHTS"

Turn the switch to”  ” for the low beam and taillight.

Turn te switch to”  ” for the hight beam and taillight.

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 any 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 our dealer if you can't find or solve the probem yourself.



1. Throttle lever

Speed limiter

The speed limiter keeps the throttle from fully opening,even when the throttle lever is pushed to the maximum.Screwing in the adjusting screw limits the maximum engine power available and decreases the maximum speed of the ATV.



1 .Locknut 2.Adjusting screw
a.12mm(0.47in)

CAUTION

Do not turn the speed adjusting screw out more than 12mm.Always make sure the throttle lever free play is adjuted to 3-5mm.

Brake lever

The brake lever is located on the right handlebar.Pull it toward the handlebar to apply the brake.This brake are 3 in 1(front 2 brake and rear 1 brake all in one)

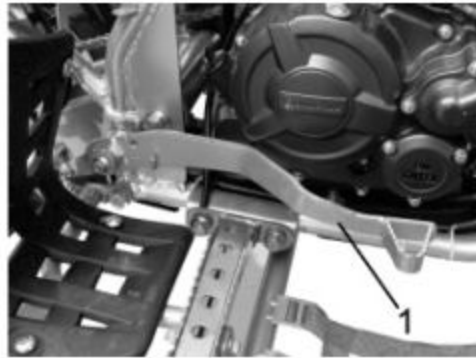
Brake pedal and lever

The brake pedal is located on the right side of

the machine and the brake lever is located on the right handlebar. Pull the lever toward the handlebar or tread slow the pedal to apply the rear brake.

Parking brake

When you have to start the engine or park the machine, especially on a slope, use the parking brake



1. Brake pedal

Apply the brake lever and push down the lock plate to apply the parking brake, squeeze the 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.



1 Parking brake. 2. Brake lever



1. Lock plate

HOW TO AVOID THE HAZARD

Always set the parking brake before starting the engine. Always be sure the parking brake have been

1 .Shift pedal N.Neutral

released before you begin to ride.

Shift pedal

This machine is equipped with a constant mesh 5-speed transmission The shift pedal is located on



the left side of the engine. Neutral is at the bottom position.

CAUTION

Don't start the engine in non-neutral or without setting the parking brake system. I

Put the transmission in neutral and set the parking brake before starting the engine.

Fuel tank cap

Remove the fuel tank cap by turning it counter clockwise with the Key.

Fuel cock

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

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



Fuel tank cap

ON:

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

RES:

This indicates reserve. If you run out of fuel while riding,turn the lever to this position.After refuelling, return the fuel cock lever to the "ON" 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 frame and push down the seat at the rear.you should pay



1.Seat lock lever



attention to make sure that the seat is securely fitted.

Rear shock absorber

The spring preload can be adjusted to suit the rider's weight and riding conditions.

Spring preload adjustment

To increase the spring preload, turn the adjuster in direction. To decrease the spring preload, turn the adjuster in direction.

Standard position : B

A-Minimum(Soft)

E-Maximum(Hard)



PRE-OPERATION CHECKS

Before using this machine, check the following points:

ITEM	ROUTINE	PAGE
Brakes	Check operation, condition and free play	
	Adjust if necessary	
Engine oil	Check oil level	
	Fill with oil if necessary	
Fuel tank	Check fuel level	
	Fill with fuel if necessary	
Gear oil	Check for leakage	
Throttle	Check for proper throttle cable operation	
Wheels and tires	Check tire pressure wear and damage	
Fittings and fasteners	Check all fittings and fasteners	
Lights	Check for proper operation	
Water cooled system	Fill with water if necessary	
Battery	• Check the voltage	

Inspect the ATV each time you use it to make sure the ATV is in safety operating condition.

Follow the inspection and maintenance procedures and schedules described in the Operation Manual.

Brake

Always check the brakes at the start of every side. 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 our 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.

Check operation of the levers and pedal. They should move smoothly and there should be a firm feeling when the brake is applied. If not, have the machine inspected by a our dealer.

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.

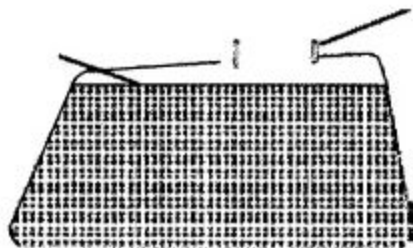
Recommended fuel: unleaded fuel

Fuel tank capacity:

Total: 4.5L

Reserve: 1.0L

Unleaded fuel will give a longer spark plug life and reduce maintenance cost. If unleaded gasoline is not available, the 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. (See page)

Recommended oil

SAE20W40

SAE10W30

SAE5W30

Recommended engine oil classification:

SE, SF, SG, type or higher.

Oil quantity:

Periodic oil change: 1.5L

With oil filter replacement: 1.6L

Total amount: 1.8L

Lubrication oil of gear case

Make sure the lubrication oil of gear case is at the specified level. Add oil as necessary. (see page for details).

Recommended oil

SAE80 API GL Hypoid gear oil

Throttle lever

Check to see that throttle lever operates correctly. It must open smoothly and spring back to idle position.

tion 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.

Lights

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 an enclosed one and unnecessary to fill water(see page)

-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 10hours,or quickly charge the battery with. 2A to 3A for 2 hours.

Tire

The size and type (in low pressure condition) of hollow tire used for 250ATV are listed below.

	Front wheel	Rear wheel
Size	21X7-10 28F	20X10-10 44F
Type	HUAJIAN	HUAJIAN

warning

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

Use of improper tires on this ATV.or operation of this ATV with improper tire pressure may cause loss of control.

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

2.The tires should be set to the recommended pressure.

Front 20KPa(0.20kgf/cm²,2.8pai)

Rear 25KPa(0.25kgf/cm²,3.6pai)

Check and adjust tire pressure when the tires are cold.

Tire Pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions,the following are minlmums:

Front 17KPa(0.17kgf/cm²)

Rear 22KPa(0.22kgf/cm²)

Higher pressures may cause the tires to burst. Inflation could cause the tires to burst

How to measure tire pressure

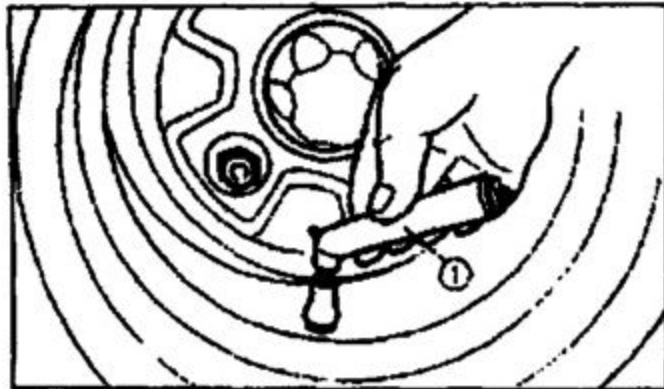
Use the low-pressure tire gauge.

Caution:

The low-pressure tire gauge is included as standard equipment, conduct two measurements if the tire pressure and use the second reading. Dust or dirt in the gauge would cause the First reading to be incorrect.

Set pressure when tires are in cold and set tire pressures to the condition following specifications:

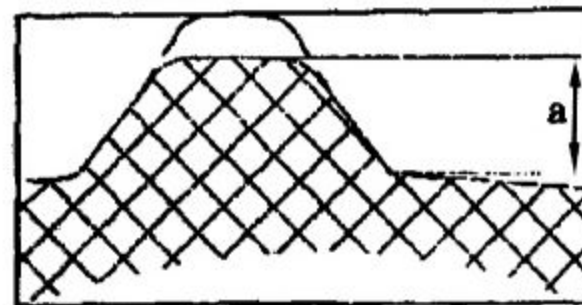
	Recommended! pressure	Minimum	Maiximum
Front	20Kpa (0.20kgf/cm ²)	17Kpa (0.17kgf/cm ²)	23Kpa (0.23gf/cm ²)
Rear	25Kpa (0.25kgf/cm ²)	22Kpa (0.22kgf/cm ²)	23Kpa (0.28kgf/cm ²)



1 .Low-pressure tire gauge:

Tire wear limit

When the tire groove decreases to 3mm due to wear.



a.3mm(0.12in)

OPERATION

WARNING

Never operate ATV until you are familiar with all controls.

Read the operation Manual carefully. If there is a controls or function you do not understand ,ask your our dealer.

WARNING

Never ride the ATV in cold weather.always make sure all control cables work smoothly before you begin ridding.Please read the engine brake-in section before you operate the engine at first time.

Starting a cold engine:

- 1 .set the parking brake. .
- 2.Turn the fuel lock to "ON"and the engine stop switch to
- 4.Shift the transmission into neutral.



WARNING

The engine can be started in any gear if the rear brake lever is applier. 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 secords before the next attempt.Each cranking should be as short as possible to preserve battery energy.Do not crank the engine more than 10 secords for each starting.

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 startting off.Never accelerate forcefully with a cold engine.

Drive select lever operation and reverse driving.

CAUTION

Before shifting, stop the machine and return the throttle lever to its closed position. Otherwise the transmission may be damaged.

When shifting into reverse, the transmission must be in the neutral gear.



1. Stop the machine completely and return the throttle lever to the closed position.

2. Apply the brake pedal until the vehicle stops forward.

3. Shift the transmission into neutral gear.

4. Press the clutch lever handle

5. When shifting into next gear, unlock the clutch lever slowly.

NOTE

When in reverse the reverse indicator light should be on. If the light does not come on, ask our dealer to inspect the machine.

6. Check for people or obstacles behind you, then release the rear brake pedal.

7. Open the throttle lever gradually and continue to watch to the rear while backing.

WARNING

When shifting into reverse, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.

Shifting:

This machine has a 4-speed forward and 1-speed reverse transmission with centrifugal manual clutch. To shift into neutral when driving, return the throttle lever to its original position and repeatedly depress the shift pedal until it stops, apply the brake.



1. Shift pedal

CAUTION

Do not coast for long periods with the engine off, and do not tow the machine a long distance. Even when gears are in neutral, the transmission is only properly lubricated when the engine is running. Inadequate lubrication may damage the transmission.

To start and accelerate:

1. Release the throttle lever.

CAUTION

Always close the throttle while shifting gears. Otherwise, the engine and drive train may be damaged.

2. Shift into first gear and release the shift pedal.

3. Open the throttle gradually once the machine has obtained adequate speed. Release the throttle lever, with open the clutch lever gradually.

4. Shift into second gear and release the shift pedal. With open the clutch lever gradually.

5. Open the throttle gradually. Follow the same procedure. When shifting to the next higher gear.

To decelerate:

When slowing down or stopping, release the throttle and apply the brakes smoothly and even. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or control can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

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 throttle operation or any condition which might result in excessive engine heating must be avoided. After every full 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 our 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 2/4 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 occasionally.

Parking

When parking, stop the engine and shift into neutral. Turn the fuel to "OFF" and apply the parking brake.



Lock plate

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 object. Do not park the ATV on the hills that are so steep that you could not walk up them easily.

1.Appling the brakes in neutral gear to stop the machine.

2.Stop the engine.With the brake lever and pedal applied.apply the parking brake and slowly release the rear brake pedal.

Accessories:

Pay attention to the following points.

choose only accessories designed for you ATV

Our dealer has a variety of genuine accessories . Choose a genuine accessory.

WARNING

1 .Accessories should be rigidly and securely

installed.

2.Do not install an accessory where it could in terferre with your ability to control the ATV. Examples include a heavy or bulky object attached to the handle bars which could make steering difficult.an crcesory that limits your abitiy to move around on the seat,or one that limits you view.Use extra caution when riding an ATV with accessories.

Loading

Never exceed the weight limits shown An overloded ATV can be unstable.

You must use common sense and good judge- ment when earring cargo or towing a trailer, keep the following points in mind:

Maximum loading limit

Vehicle Loading limit (total weight of cargo,rider and accessories):370kg(Two Persons)

Front luggage carrier:149kg

Rear luggage carrier:227kg

Tool kit:2kg

Do not exceed the maximum pulling weight.

Adjust the load in the trailer.

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.

Make sure cargo in the trailer is loaded firmly and safety. Otherwise an accident would happen.

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

Ride more slowly than you would with a load. The more weight you carry, the slower you should go. Although conditions are different, it is not allowed to exceed 2nd gear whenever you are carrying heavier loads or when towing a trailer. Allow more braking distance. A heavier vehicle takes longer to stop. Avoid making sharp turns unless at very slow speeds.

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

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

OPERATION

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 (goggles or dust-proof shield), gloves, boots, long-sleeved shirt or jacket, pants.



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

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

5. Always select the size and type of tires specified.

Refer to the operation manual for this vehicle to keep the normal tire 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 wheels.

Never attempt stunts, such as wheelies or jumps.

WARNING

Don't try to show off

8. Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident,

Never modify 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 use on this ATV and should be installed and used according to instructions from your dealer. If you have questions consult an authorized ATV dealer.

9. Exhaust silencer

The exhaust silencer is very hot during driving. To avoid burn, do not touch the exhaust cylinder. Park the machine where pedestrians or children cannot touch it.

10. Know where you should ride

This machine is designed to drive on off-road. Riding on asphalt road may lose control.

Don't ride the ATV on asphalt road, including sidewalks, driveways, parking lots and walk streets.

Prohibit to drive the machine on any driveway, streets or highways.

Know the terrain where you ride

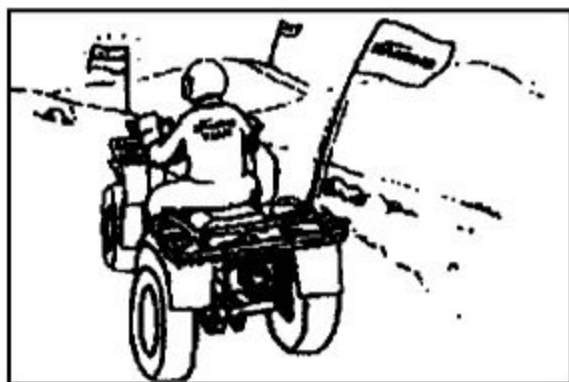
Ride carefully in complicated terrain. Stay alert for holes, rocks or roots in the terrain. Otherwise may cause the machine to tip over.

When riding in an area where you might not easily 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. and applying the clutch lever. 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 neutral gear. Ensure that the engine has sufficiently slowed. Improper use of the brakes or shifting can cause the tires sliding to lose the control.

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

Turning

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 tire 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 practise 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 curve 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 operation manual.

Climb the hill according to the method in 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 the 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.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 shuld 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 you gravity center backward;

Use front brake;

Do not use rear brake

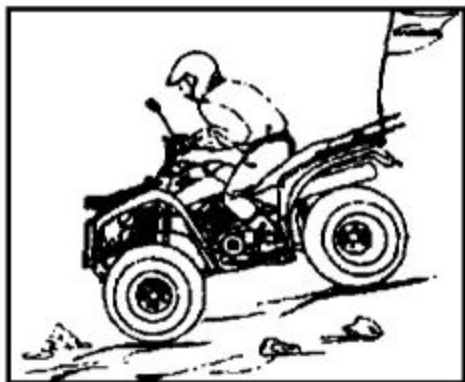
Close the brake closing piece after stopping the machine.

Riding downhill

Move your gravity center backward when riding ATV downhill. 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

Practise the braking skill when descending the hill, look over the terrain carefully before descending

and transfer your body gravity center backward. Ride in low speed when descending 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 procedure

Always follow proper procedures 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 distance 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 feet on the foot pedals to avoid jumping and loss of control.

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

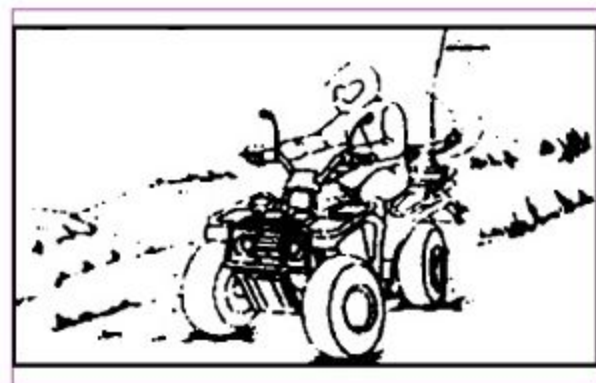
Slipping

The ATV may lose control when driving on loose and slippery surfaces. Moving your gravity center forward is helpful to control the slipping of front wheels when the rear wheel begins to slip. Steer in the proper direction. Apply the brake only until you have stopped the slipping.



Practise 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 safety 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 our 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 yourself.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 you machine to a our dealer to check the torque settings and adjust them as necessary.

PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY	
		1month	3month	6months	6month	1Year
Valves	Check valve clearance.Adjust if necessary.	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
Spark plug	Check condition.Adjust gap and clean.Replace if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Air filter	Clean.Replce if necessary.	Every 20-40 hours(more often in wet or dusty areas)				
Carburetor	Check idle speed/Starter operation.Adjust if necessary.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder head breather	Check breather hose for cracks or damage. Replace if necessary.			<input type="radio"/>	<input type="radio"/>	
Exhaust system	Check for leakage. Retighten if necessary. Repace gasket if necessary			<input type="radio"/>	<input type="radio"/>	
Spark arrester	Clean.			<input type="radio"/>	<input type="radio"/>	
Fuel line	Check fuel hose for cracks or damaaae-Replaceif necessary.			<input type="radio"/>	<input type="radio"/>	
Engine oil	Replace(Warm engine before draining).	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
Engine oil filter	Clean.	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Engine oil strainer	Clean.	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Final gear oil	Check oil level/oil leakaoe Replace	<input type="radio"/>				
Water system	Replace			<input type="radio"/>	<input type="radio"/>	

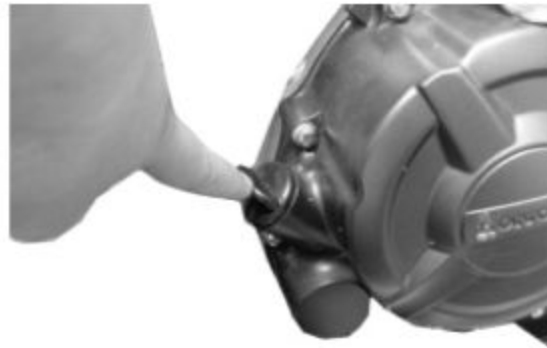
PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3months	6months	6months	1Year
Brakes	Check operation .Adjust or replace new brake pads if necessary.	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
clutch	Check operation.Adjust if necessary.	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
Wheels	Check balance/damage/runout. Replace if necessary.	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
Wheel bearings	Check balance assembly for looseness/damage. Replace if damaged.	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
Front and rear suspension*	Check operation.Correct if necessary.			<input type="radio"/>	<input type="radio"/>	
Steering system	Check operation.Correct if necessary.Check toe -in.			<input type="radio"/>		<input type="radio"/>
Steering system	Adjust if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Steering shaft	Lubricate every 6months.(use Li grease)			<input type="radio"/>	<input type="radio"/>	
Fittings and Fasteners*	Check all chassis fittings and fasteners.Correct if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Engine oil

1. Engine oil level measurement

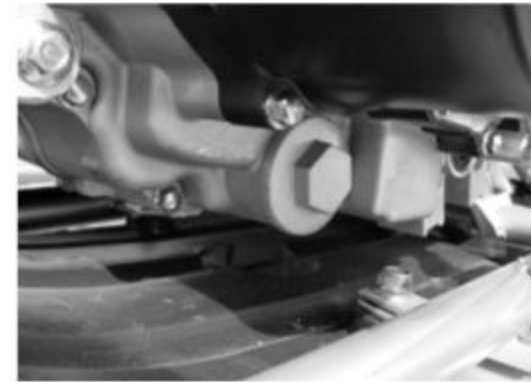
a. Place the machine on a flat surface warm up the engine for several minutes and turn off it. wait more than 10 minutes for the oil to drain back into the crankcase before checking the oil level.



1 .Dipstick 2. Maximum level mark 3. Minimum level mark

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.



Drain plug



1. Oil filter

2. Engine oil replacement and oil filter element cleaning

a. Place the machine in 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 springs-ring and drain plug Then tighten the drain plug and filter cover bolts to the specified torque.

Tightening torque:

Drain plug(engine):

43Nm(4.3m.kg)

Filter cover bolt:

10Nm(1.0m.kg)

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.

CAUTION

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

Recommended oil :see page 11

Oil quantity:

Periodic oil change:

1.5L(1.3mpqt)

With oil filter replacement:

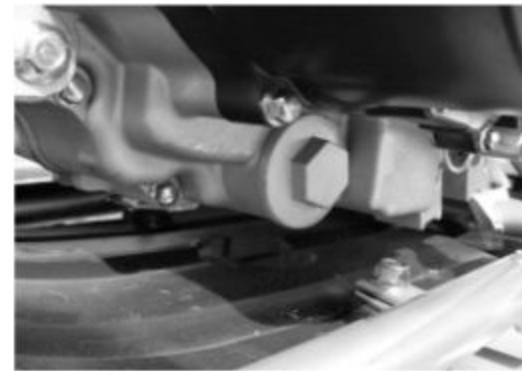
1.6L(1.4mp qt)

Total amount:

1.8L(1.6mpqt)

3. Oil pressure inspection

a. Wrap the cylinder with a cloth.



1 .oil gallery bolt

b. Slightly loosen the oil gallery bolt in the cylinder head.

c. Start the engine and keep it at idle speed until

d. Restart the engine and check the oil pressure.

e. After checking, tighten the oil gallery bolt to the specified torque 7Nm(0.7m.kg)

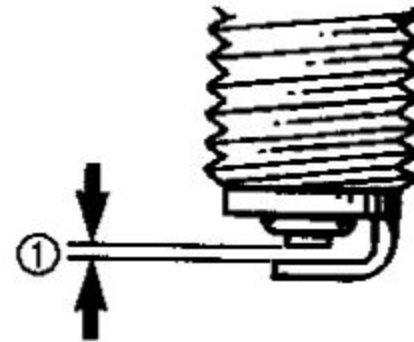
f. Remember to inspect oil pressure after replacing the engine oil.

begins to seep from the oil gallery bolt. If no oil comes out after one minute, stop the engine to find cause.

Spark plug inspection

You should periodically remove and check the spark plug because heat and deposits will cause slow damage and erosion of the spark plug if electrode erosion is excessive. You should replace the spark plug with one of the proper type D8EA

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



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

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

Air filter replace

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



1. Remove the seat.
2. Remove the air filter..
3. Install new air filter.



Air filter

CAUTION

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

AUTION

Never run the engine with the air filter 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.

Idle speed adjustment

1.Start the engine and warm it up for a few minutes at approximately 1,000 to 2,000 r/min, increase the speed of engine to 4000 to 5000r/min .

2.Set the specified idle speed by adjusting the throttle adjusting screw.Turn the screw into increase engine speed,and out to decrease engine speed.

Specified idle speed: 1450-1550 r/min



1.Throttle adjusting screw

Valve clearance adjustment

Incorrect valve clearance will result in improper fuel/air supply or engine noise.To prevent this ,the valve clearance must be adjusted regularly,but the adjustment should be done by a professional maintenance technician.

Throttle lever adjustment

NOTE

Adjust the engine idle speed before adjusting the throttle lever.

1. loosen the locknut.
2. Rotate the adjusting bolt until the throttle lever free play is 3-5mm(0.12-0.20in)

3. Tighten the locknut,



1. Adjusting bolt 2. Locknut
a. 3-5mm (0.12-0.20in)

Steering vertical tube lubrication

Use a grease gun to lubricate the pivots.
Recommended lubricant: Lithium-base grease



Wheel removal

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



Wheel installation

When installing the wheel reverse the removal procedure. Pay attention to the following points:



1. Arrow mark

1. The arrow mark on the tire must point to the rotation 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.

tioned time. check the voltage at least one month. Charge the battery when the voltage is lower than 12V.

3. Tighten the wheel nut.



1. Tapered bolt 2. Nut

Wheel nut torque:

Front wheel :55Nm(5.5m.kg)

Rear wheel :55Nm(5.5m.kg)

Battery

WARNING

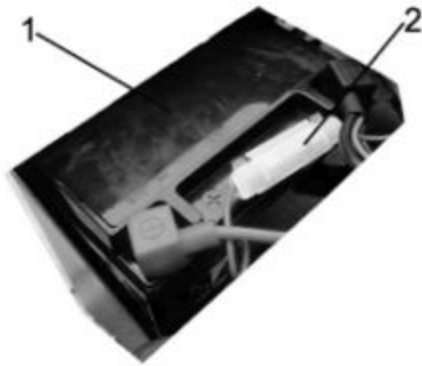
Avoid contact with skin, eyes or clothing, Always shield eyes when working near batteries. keep out of reach of children.

Use and maintenance

1. Don't remove electrolyte cover after enclosed battery being used. Please obey the operation instruction on battery to use the battery.

2. If ATV is suspended from use for a month or much longer time. remove the battery and store in a cool and dark place, charge fully before reusing.

3. If the battery is stored over the above men



- 1. Battery
- 2. Main fuse

Fuse replacement

1. The fuse-case is put under the seat.

2. If the fuse is blown, switch off the main switch and replace with a new fuse of the same specification. If the fuse immediately blows again, consult our Group dealer.

Specified fuse: 20A

CAUTION

To prevent accidental short-circuiting, switch off the main switch when checking or replacing a fuse.

CLEANING AND STORAGE

CLEANING

General speaking .thorough cleaning of your ATV Will improve its runing performance and pro-long the service life of many components.

1.Before cleaning thie ATV:

a.Block off the exhaust pipe with plastic bag or strong rubber band to prevent water entry.

b.Make sure the spark plug and all filler caps are properly installed.

2. If the engine case is excessively dirty,wash with degreaser.Do not use degreaser for wheel axles.

3.Rinse the dirt and remove oil dirt on the soft hose.

CAUTION

Excessive water pressure may cause water

seepage and deterioation 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 toothbrush or bottle brush to wash hard to get at places.

5.After cleaning ATV with clean water.immedi-ately dry all surfaces with a chamois .clean towel or soft absorbent cloth.

6.Clean the seat with a vinyl upholstery cleaner to keep the covecpliable and glossy.

7.Apply automotive type wax to all chrome plated surfaces.Avoid use combiniation cleaner -waxes.Af-ter using abrasives to protect scratched surface.let the engine idle for several minutes.

After washing the brakes, let engine brake several times at slow speeds 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 SAE10W30 or 20W40 motor oil in the spark plug.Ground the spark plug wire and run the engine over several times to 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 with plastic bag over the exhaust pipe outlet to prevent moisture from entering.

6. If storing 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 seat cover.

7.Take out the battery and store it in a dry place. The battery should be stored in the place where the ambient temperature should be 30°C . maximum and 0°C minimum.

MAIN DATA AND SPECIFICATIONS

Item	specification	Item	specification
Dimension:		Engine oil:	
Overall length	2010mm	Periodic oil change	1.5L
Overall width	1100mm	With oil fillter replacement	1.6L
Overall height	920mm	Total amount	1.8L
Seat height	830mm	Total amout of gear oil	0.27L
Wheel base	1410mm	Main fuel tank capacity	5.4L
Minimum ground clearance	100mm	Reserve fuel tanfr capacity	0.5L
Minimum turning radius	2700mm	Carburetor:	
Basic weight:		Type	Vacuum film piece type
With oil and full fuel tank	173kg	Spark plug type	D8EA
Engine	Air cooled,4-stroke,single-cylinder	Spark plug gap	0.6-0.7mm
Displacement	249.2ml	Clutch type	Wet.centrifugal manual
Bore x Stroke	70 x 70mm	Transmission:	
Compression ratio	8.7:1	Primry reduction system	Spur gear
Starting system	Electric starter	Primary reduction ratio	73/22(3.318)
Lubrication system	Pressure splash	Secondary reduction system	Chain drive
		Secondary reduction ratio	40/15(2.667)
		Transmisson type	Constant mesh,4-speed forward-speed reverse left foot operation
		Operation	

Because the tire type and engine type The machine you have purchased may differ slightly from those shown in the figures of this manual for progress or other change.

MAIN DATA AND SPECIFICATIONS

Item specification	Item specification	Item specification
Gear ratio:		Suspension
1.st	24.386	Fornt
2.nd	15.606	Rear
3.rd	11.684	Shock absorber:
4.th	9.251	Front
Reverse	7.567	Rear
Frame		Wheel travel:
Frame type	Steel tube	Front
CasterA angle	4*	Rear
Tire:		Electrical:
Type	Vacuum	Ignition system
Size:Front	235/30-12	Generator system
Size:Rear	235/30-12	Battery type/voltage,capacity
Brake:(Front and Rear all in one)		Headlight
Front brake type	Disc brake	fanlight
Operation	Right hand and right foot	
Rear brake type	Disc brake	
Operation	Right hand and right foot	

MAINTENANCE RECORD

Maintenance times, receipts of purchased components and assembly will be required to be recorded, which should be done according to the warranty. The chart below only acts as maintenance record, not as maintenance proof: _____ H

MAINTENANCE INTERVAL TIME	DATE OF MAINTENANCE	DRIVING MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1 Month				
3Months				
6Months				
12Months				
18Months				
24Months				
30Months				
36Months				
42Months				
48Months				
54Months				
60Months				

ELECTRIC WIRING DIAGRAM

