

MANUAL



FOREWORD

Thank you for your purchasing ATV.

This manual covers the main data, basic structure, and main procedures of operation, adjustment, maintenance and troubleshooting of ATV. It will help you familiarize yourself with all the necessary skills so that you will bring your vehicle into full, best play with minimized trouble for a long service life.

Products are always subject to further improvement, which will cause some difference between the vehicle and this manual, without future notice.

CONTENTS

VEHICLE SAFE RIDING.....	1	PARKING.....	16
NOTES FOR SAFETY.....	1	CHECK AND CHANGE OF ENGINE OIL.....	16
PROTECTING MEASURES.....	2	SPARK PLUG.....	17
ACCESSORIES.....	2	AIR CLEANER.....	18
REFITTING.....	2	CHECK LEAKS ALONG AIR SUPPLY LINE.....	18
SPECIFICATIONS.....	3	THROTTLE OPERATION.....	19
DESCRIPTION.....	4	IDLE SPEED.....	19
VIN RECORD.....	7	FRONT HYDRAULIC DISC BRAKE.....	21
IGNITION SWITCH.....	8	REAR HYDRAULIC DISC BRAKE.....	21
FUEL AND FUEL TANK.....	9	CHECK OF BRAKE SYSTEM.....	22
LEFT HANDLEBAR CONTROLS.....	10	BRAKELIQUID.....	22
SAFETY SWITCH.....	10	EXHAUST MUFFLER.....	23
SPEED-LIMITING DEVICE.....	11	BATTERY.....	24
ENGINE OIL.....	11	SELF-RECOVERED OVERLOAD PROTECTOR.....	26
TYRES.....	12	TROUBLESHOOTING.....	26
OPERATION GUIDE.....	13	STORAGE GUIDE.....	27
STARTING THE ENGINE.....	13	STORAGE.....	27
STARTING PROCEDURE BY THE STARTER BUTTON.....	14	REMOVAL FROM STORAGE.....	28
STARTING PROCEDURE BY THE KICK-STARTER.....	14	MAINTENANCE.....	29
BREAKING-IN.....	15	MAINTENANCE SCHEDULE.....	29
RIDING.....	15		

VEHICLE SAFE RIDING

WARNING

Vehicle riding requires special efforts on your part to ensure your safety. Know these requirements below before you ride.

For on-road use, this vehicle is designed to be operated only on level, on –road surface, free of obstacles.

Do not operate this vehicle while under the influence of alcohol or drugs. That can impair judgment and result.

Keep a safe distance between your vehicle and other vehicle.

Do not allow your child to ride without your supervision.

Never run the engine in closed area. The exhaust gas contains poisonous carbon monoxide gas(CO).

During driving, do not touch exhaust muffler, engine etc to refrain from scald, for its temperature is high.

PROTECTIVE THINGS

1. Most atv accident fatalities are due to head injuries. Always wear a helmet. You should also wear a face shield and protective clothing.
2. The exhaust system becomes hot during riding, and it remains hot for a while after stopping the engine. Be careful not to touch the exhaust system since it is hot. Wear clothing that fully covers your legs.
3. Do not wear loose clothing that could catch on the control levers, kick-starter, footrests or wheels.

REFITTING

WARNING

Refitting of the atv or removal of original parts may make the vehicle dangerous or illegal. Obey all national and local equipment regulations.

ACCESSORIES

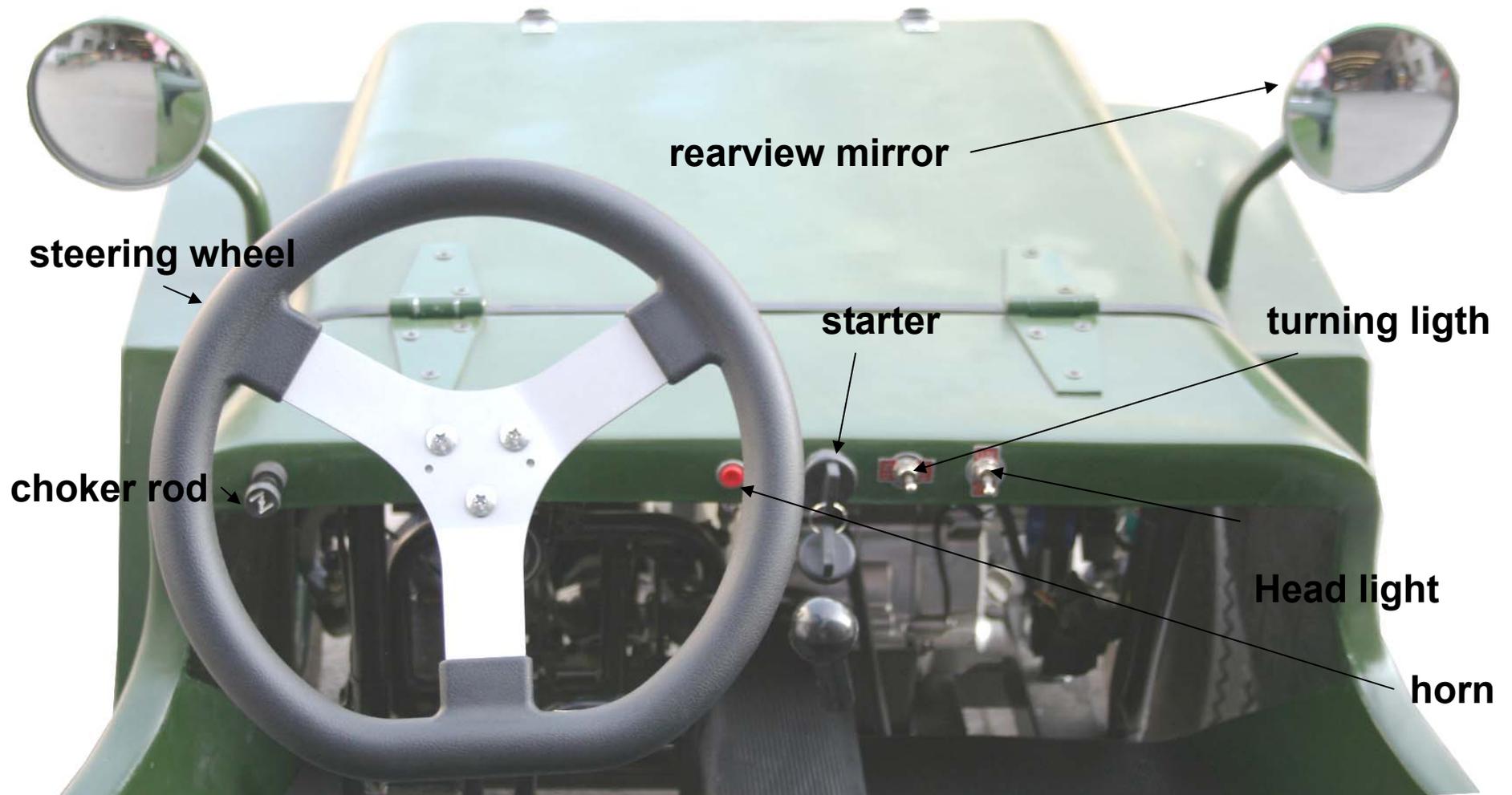
Genuine accessories by our Co. have been specifically designed and tested on the atv. Because our Company won't test accessories manufactured by other companies, you are personally responsible for selection, installation, and use of them. Always follow the guidelines below:

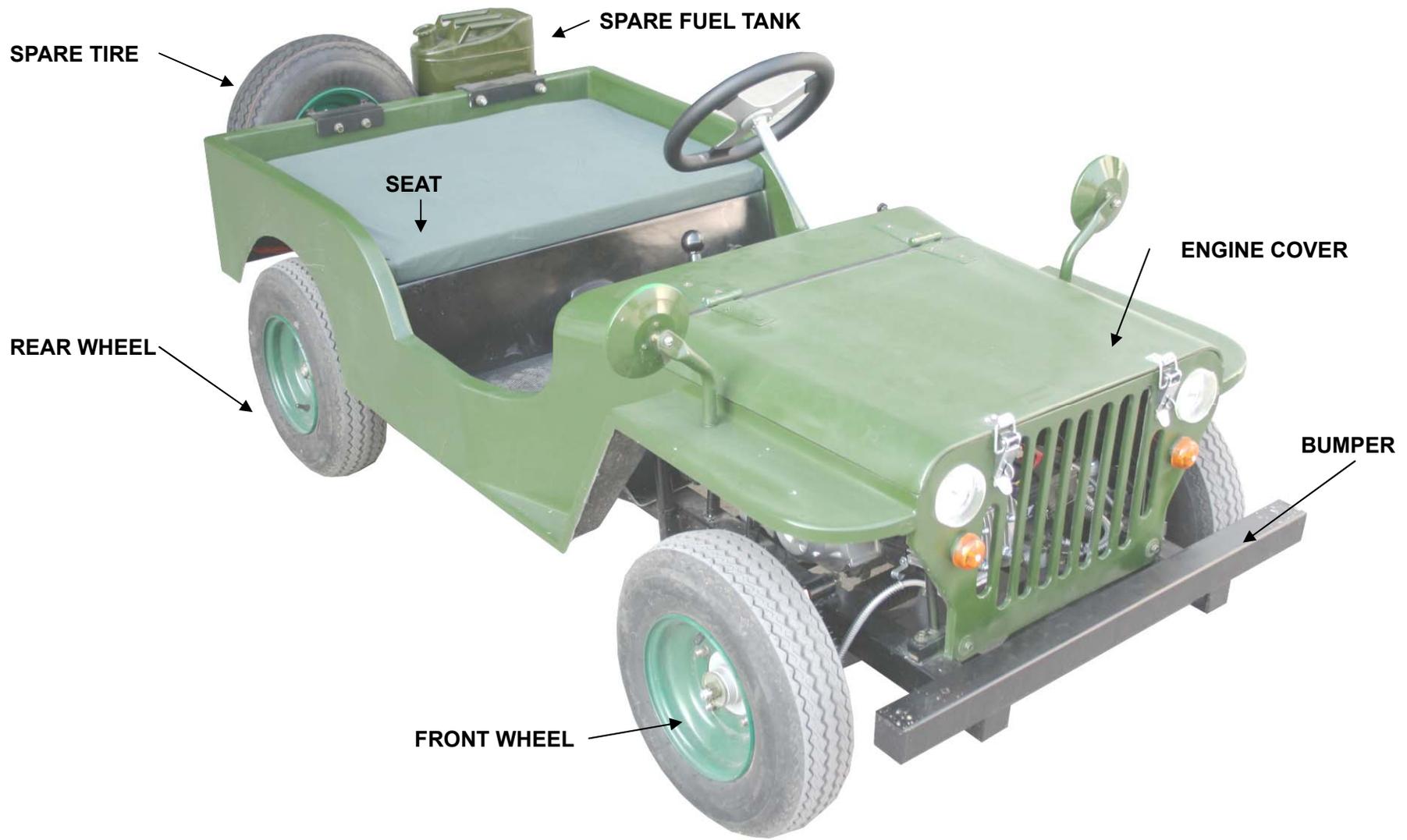
1. Carefully inspect the accessory to make sure that it does not obscure any lights, reduce ground clearance and banking angle, or limit suspension travel, steering travel or control operation.
2. Accessories may increase the time that hands or feet operate controls, resulting in increased reaction time in an emergency.
3. Do not add electrical equipment that will exceed the vehicle's electrical system capacity.
4. Do not add device cooling the engine.

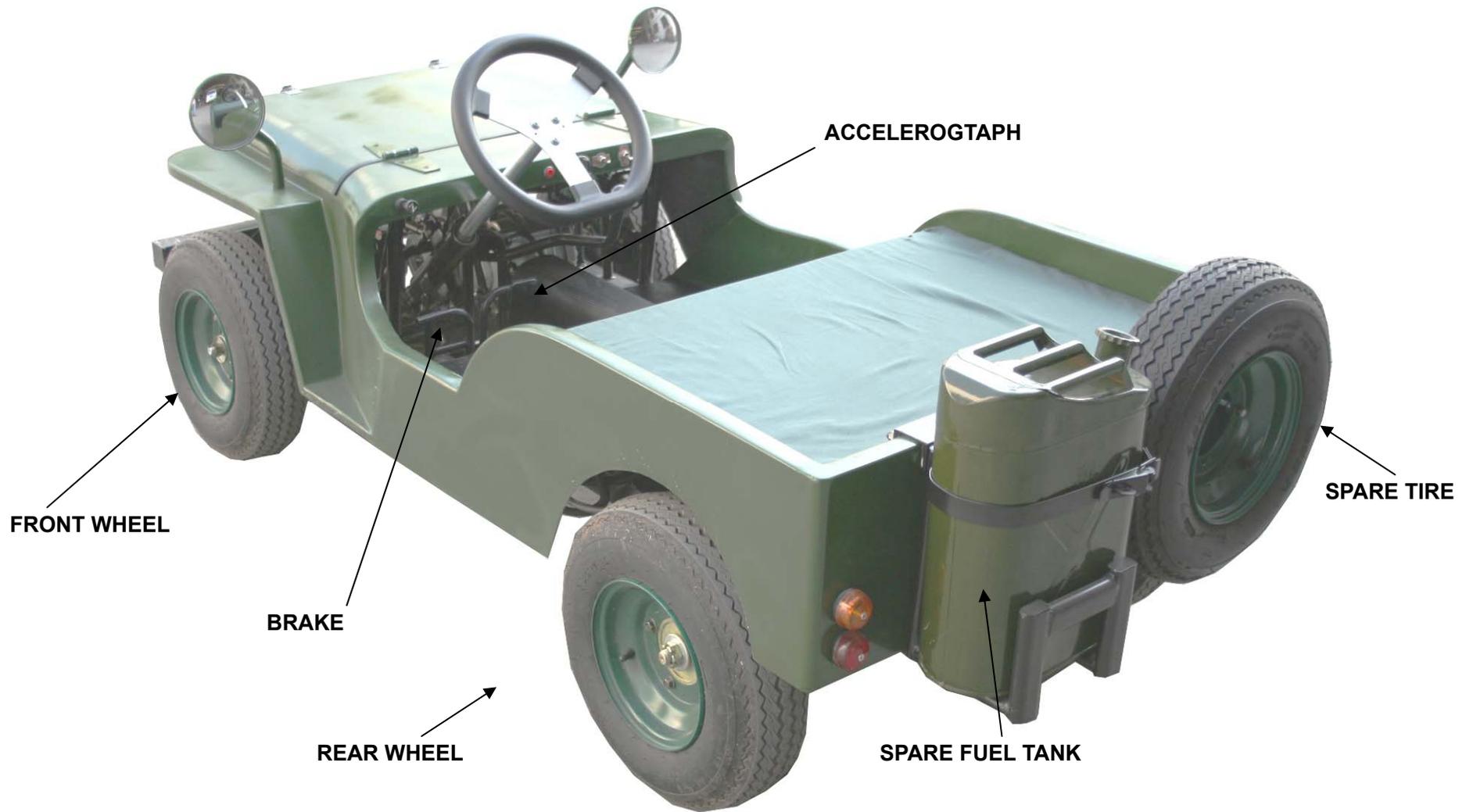
SPECIFICATIONS

Model		ZHJP110	
Length	2000mm	Fuel tank cap	4L
Width	900mm	Type	4-stroke, single cylinder with AIR-cooled
Height	740mm	Max. power	3.5-6.8kW/7500r/min
Ground clearance	100mm	Max. torque	4.2-8.9N·m/6500r/min
Wheel base	1240mm	Idle speed	(1500±100)r/min
Dry weight	130kg	Start mode	Electric
Steering bar angle	≥30	Clutch	Oil dipped in pieces
Max speed	≥50km/h	Spark plug type	C7HSANGK
Front brake type	Disc-brake	Engine oil cap	0.9L
Rear brake type	Disc-brake	Engine oil	15W/40-SE
Type size (front & rear)	4. 80-8	Oil pump	Inner-outer rotor type
Displacement	50-125ml	Magneto	Permanent magnetic
Compression ratio	9.5:1	Lubrication	Press/Splash
Ignition mode	CDI		

DESRPTION







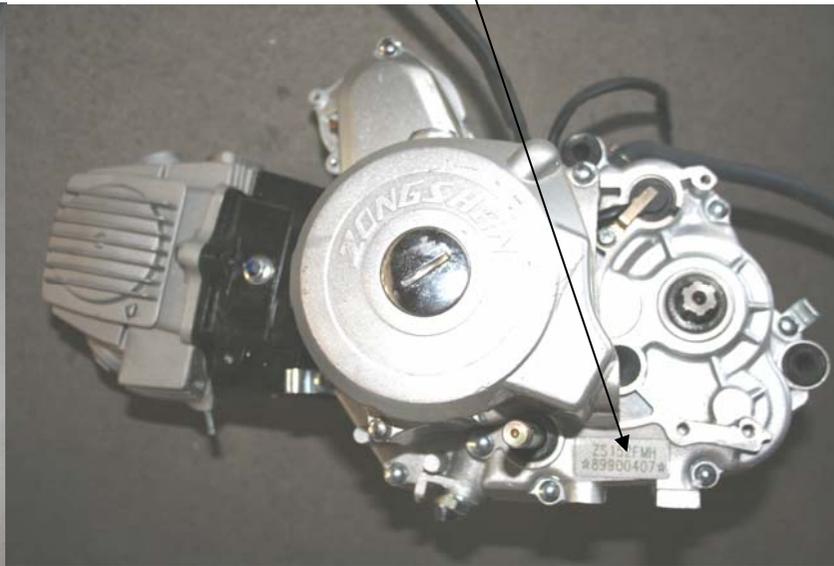
VIN RECORD

Please fill the VIN and engine code of your atv in blank below. They will help order spare parts and find out the vehicle once stolen.

1.VIN



2.ENGINE CODE



VIN:☆☆

Engine code:☆☆

NOTES

- 1. The VIN is stamped on the front transversal beam.**
- 2. The engine code is stamped on the bottom-left of the crankcase.**

IGNITION SWITCH

The ignition switch is situated on the front right of the vehicle body.



IGNITION SWITCH

FUEL AND FUEL TANK

Fuel Selection

Fuel is a key factor in deciding the exhaust emissions amount from the engine, so selection of fuel must follow the rules below. Selected fuel must be beakless or low-lead gasoline with No. RQ-90 or higher.

Fuel Tank

The fuel tank capacity is 4L.

WARNING

- Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or sparks in the area where gasoline is stored or where the fuel tank is refueled.
- Before refueling, make sure to filter fuel first.
- Be careful not to spill fuel when refueling. Spilled fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor.
- KEEP OUT OF REACH OF CHILDREN.

STEERING WHEEL CONTROLS

Emergency Switch

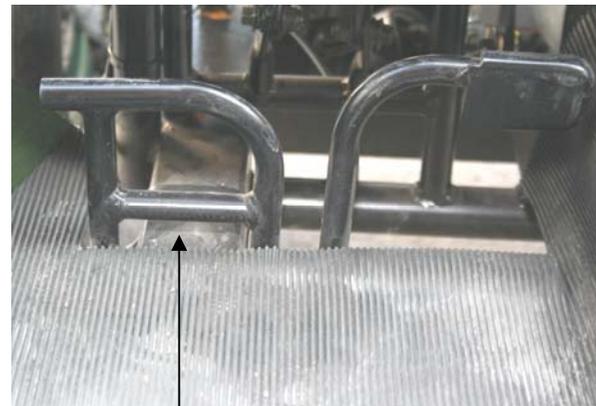
In normal, the switch is set in middle position; to stop the engine, set the switch to left or to right..

Starter button

Press the button with the vehicle in braking to start up the engine.



HORN BUTTON



BRAKE

CAUTION

It's better for inexperienced riders to set the top speed lower so as to avoid accident.

ENGINE OIL

The quality of the engine oil plays a vital role in deciding the engine performance and service life. Engine oil must be selected in accordance with the rules below and other oils, are forbidden to be used.

Engine oil recommended: gasoline engine oil Class SAE15W/40-SE or Class SE, SF, SC from API Service Classification.

The vehicle has been filled with the engine oil Class SAE 15W/40-SE class before being delivered, and the lubricant is only suitable at a temperature range from +40°C to -10°C. If other motor oil is to be used instead, the alternative must be technically equivalent in every respect. Viscosity varies with regions and temperatures, so the lubricant has to be selected according to our recommendation. If the gasoline engine oil Class SAE15W/40-SE can't be obtained when in need, the gasoline engine oil No. HQB-10(or No. HQB-6 in regions where the temperature is under -10°C) is available.

Before replacing the lubricant, please drain the oil out completely remaining in the crankcase, and clean the inside by clean kerosene, then fill new one instead.

CAUTION

Running the engine with insufficient oil can cause serious damage to engine.

TYRES

Proper air pressure will provide maximum stability, riding comfort and tyre life.

Check tyre pressure frequently and adjust if necessary.

Select the right replacement tyres in accordance with the specifications shown in the table 1.

Pressure(kPa)	Front:100	Rear:100
Tyre size	Front:4.80-8	Rear:4.80-8

NOTE

Tyre pressure should be checked before you ride while the tyres are cold. Check the tyre for cuts, embedded nails, or other sharp objects.

Check the rims for dents or deformation. See Yom dealer for change of damaged tyres or punctured inner tubes.

WARNING

- Do not attempt to patch a damaged tyre or inner tube, otherwise wheel balance and tyre reliability may be impaired.
- Improper tyre inflation will cause abnormal tread wear and create a safety hazard. The tyre pressure less than the rated value may result in the tyre slipping on the ground, or coming off from the rim, even the vehicle being out of control.
- Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.
- The use of tyres other than those listed on the table 1 may adversely affect handling.

When the tread depth in the middle section of tyres reaches the limits in table 2 below, please replace tyres.

Tread depth limits	
Front tyre 2.0mm	Rear tyre 2.0mm

OPERATION GUIDE

PRE-RIDE INSPECTION

WARNING

If the Pre-ride Inspection is not performed, severe injury to personnel or damage to equipment may occur.

Inspect your atv every day before you ride it. The item listed here will only take a few minutes to inspect, and in the long run they can save time, expense, and you life.

1. Engine oil level-add engine oil if required. Check for leaks.
2. Fuel level-fill fuel tank when necessary. Check for leaks.
3. Front and rear brakes-check operation and if necessary, adjust free play.
4. Tyres-check condition and pressure.
5. Throttle operation-check for smooth opening and full closing in all steering positions; check for throttle grip free play and throttle cable in lubricating and connecting.
6. Fastener-check that all nuts screw and bolts are fixed securely.
7. Steering system-check for its smoothness and reliability. Correct any discrepancy before you ride.

Contact you dealer for assistance if you cannot correct the problem.

STARTING THE ENGINE

Always follow the proper starting procedure described below.

WARNING

Never run the engine in an enclosed area. The exhaust emissions contain poisonous carbon monoxide (CO) gas that can cause loss of consciousness and lead to death.

STARTING PROCEDURE BY THE STARTER BUTTON

1. Insert the ignition key into the ignition switch and turn to (ON).
2. Set the emergency switch to “ON”.
3. Depress the starter button while rotate the throttle grip slightly to start the engine. Release the starter button once the engine starts.

NOTE

Do not use the electric starter for more than 5seconds at a time. Release the starter button for approximately 10 seconds before pressing it again.

4. When starting and warming up the engine, make sure to maintain the throttle slightly open.
5. Before riding the vehicle, make sure that the engine is well warmed up.

CAUTION

Opening or closing the throttle fully and rapidly may make the vehicle’s sudden moving forwards, resulting in out of control.

Do as 4-5 steps under Starting procedure by the starter button.

BREAKING-IN

Help assure your vehicle's future reliability and performance by paying extra attention to how you ride during the first two-week riding. During this period, avoid full-throttle riding and loading the engine heavily; be sure to keep changing speed.

NOTE

After the breaking-in period, be sure to conduct maintenance according to the maintenance schedule so as to keep the vehicle in a sound condition, which will extend the service life of the engine obviously.

RIDING

WARNING

Review Vehicle Safe Riding, before you ride.

1. After the engine has been warmed up, the vehicle is ready for riding.
2. End braking state of the vehicle.

CAUTION

Riding with only one hand may cause the vehicle out of control.

3. Open the throttle gradually so the vehicle moves forward.
4. To speed down the vehicle, reduce the throttle while carry out braking. Coordinate the throttle with brakes for smooth deceleration.

NOTE

Both the front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel, or braking effectiveness will be reduced and control of the vehicle be difficult.

PARKING

1. Close the throttle while apply the brakes to speed down the vehicle until it shops.
2. Turn the ignition key to(OFF), and remove the key once the engine stops.
3. Depress down the parking button at the left handlebar.

CHECK AND CHANGE OF ENGINE OIL

Check of Engine Oil Level

Check the engine oil level each day before riding the vehicle.

The level must be maintained between the upper and lower level marks on the dipstick.

1. Start the engine and let it idle for a few minutes.
2. Stop the engine and put the vehicle on a level ground.
3. After a few minutes, remove the oil filler cap/dipstick, wipe it clean, and reinsert the dipstick. The oil level should be between the upper and lower level marks on the dipstick.

OIL FILLER CAP/DIPSTICK



Change of Engine Oil

The engine oil quality is the chief factor affecting the engine service life. Change the engine oil as specified in the maintenance schedule.

1. Drain out the engine oil in the crankcase completely.
2. Clean the crankcase inside with cleaning kerosene

CAUTION

Running the engine with insufficient oil would cause serious damage to the engine.

When running in very dusty conditions, oil changes should be performed more frequently than specified in the maintenance schedule.

Please dispose of used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the rubbish or pour it on the ground or down a drain.

SPEAK PLUG

Selection

Plug recommended:C7HSANGK

Check and Replace

1. Disconnect the spark plug cap from the spark plug.
2. Clean any dirt from around the spark plug. Remove the spark plug using the plug wrench containing in the tool kit.
3. Inspect the electrodes and center porcelain for deposits, erosion or carbon fouling. If the erosion or deposit is heavy, replace the plug. Clean a carbon or wet fouled plug with a plug with a plug with a plug cleaner, or use a wire brush.
4. Check the spark plug gap using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode carefully. The spark plug gap should be 0.6~0.7mm.

Make sure the plug washer is in good condition.

5. With the plug washer attached, thread the spark plug in by grand first to prevent cross threading, and then tighten up it by the spark plug wrench.
6. Reinstall the spark plug cap.
 - ① Side electrode
 - ② Center electrode



AIR CLEANER

The air cleaner should be serviced at least once every 30-day's drive. Service more frequently when riding it unusually wet or dusty areas. See your dealer for further information.

1. Remove the air cleaner from the frame.
2. Disassemble it and take out filter element.
3. Wash the filter element in clean, nonflammable or high flash point solvent and let it dry.

WARNING

Never use gasoline or low flash point solvents for cleaning the filter element, otherwise, a fire or explosion could result.

4. Soak it in gasoline engine oil Class 15W/40QE until saturated, and then squeeze out the excess oil.
5. Clean the inside and outside of the air cleaner housing.
6. Install the removed parts in the reverse order of removal.

CAUTION

- It is forbidden to start the engine without the air cleaner core, or premature wear of piston and cylinder may produce.
- Make sure the air cleaner core is intact.
- Prevent the air cleaner core from getting water when washing the vehicle.

CHECK LEAKS ALONG AIR SUPPLY LINE

Check leaks regularly along air supply line, and repair or replace related parts once there are some to assure a normal air supply.

IDLE SPEED

The engine must be at normal operating temperature for accurate idle speed adjustment.

NOTE

Do not attempt to compensate for fault in other systems by adjusting idle speed. See your dealer for regularly carburetor adjustments.

1. Warm up the engine.
2. Connect a tachometer to the engine(a remote-con-trolled one can be used).

Turn the throttle stop screw clockwise(in the direction of the arrowhead A)will increase idle speed while will decrease it running counterclockwise (in the direction of the arrowhead B).

3. When the engine has no idle speed or runs at a decreased speed, set the throttle stop screw in the middle between the two limit position to help mix air and fuel.
4. Run the engine again; readjust the throttle stop screw if necessary.

CAUTION

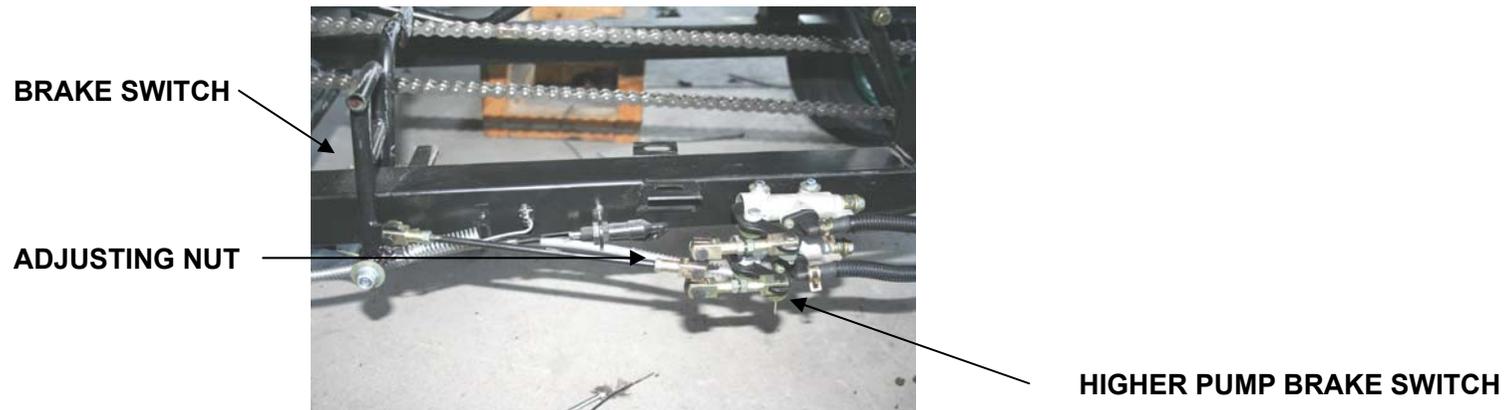
Since the carburetor is a precision apparatus, don't disassemble it without the professional knowledge.

WARNING

The balance pipe of carburetor should be often checked to make sure there is no dust or other impurity inside it, otherwise, an accident may occur.

FRONT AND REAR HYDRAULIC DISC BRAKE

The atv is equipped with a set of 2 IN 1 single cylinder disc brake. The front and rear hydraulic disc brake are controlled by brake switch synchronously



NOTES

- Make sure the curved slot in the adjusting nut is seated on the brake ann pin after making final free play adjustment.
- If such adjustment is still unsatisfactory, see your dealer for help.

CHECK OF BRAKE SYSTEM

The brake system should be checked every day before you ride the vehicle.

1. Check the brake main cylinder for proper oil level.
2. Check to see there is no leakage from the system
3. Check the brake hose and main cylinder for cracks
4. Check the brake disc for wear
5. Check the brake lever for proper free play

CAUTION

The hydraulic disc brake is designed to operate under high pressure.

For the sake of safety and reliability, the service life of brake hose, main cylinder and brake liquid must not be beyond the limit specified in the manual.

If the hydraulic disc brake system needs to be maintained or repaired, conduct the problem by your dealer only.

If you feel soft when operating the brake lever, it means there is air inside the brake system. In this case, air should be discharged from the brake system before riding the vehicle, otherwise, the brake feature will drop considerably, even cause an accident. For which purpose, see your dealer.

BRAKE LIQUID

Be care to check the brake liquid in the main cylinder located on the right handlebar for proper level, and add the specified liquid if necessary. As the brake pads wear, the brake liquid level drops. The brake should be inspected periodically.

WARNING

Brake liquid is strong irritant avoiding contact with skin or eye. In case of contact, flush thoroughly with water and call a doctor if your eye were exposed.

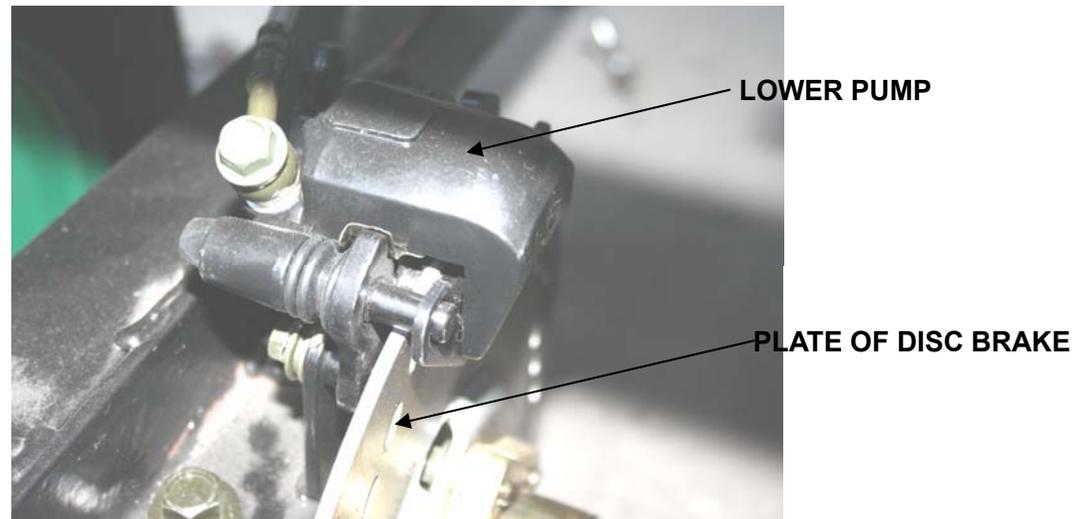
- Keep out of reach of children
- Brake liquid used for the brake system is non-petroleum brake oil No.4604. Never mix with other oil sue has silicon oil, or serious damage to brake system may occur.

CAUTION

- It is forbidden to use the used liquid or the liquid placed in the open container.
- Never use the liquid witch has been stored for long time, because it contains moisture inhaled from air.
- Handle brake liquid with care because it can damage plastic and painted surface.

EXHAUST MUFFLER

Clear away regularly carbon deposit in the exhaust piper; check the exhaust pipe inside for crack and washer damage, and repair or replace if necessary.



BATTERY

Battery electrolyte is poisonous, so be sure not to discard it at will. Handle in accordance with national or local national or local environmental protection rules.

Check

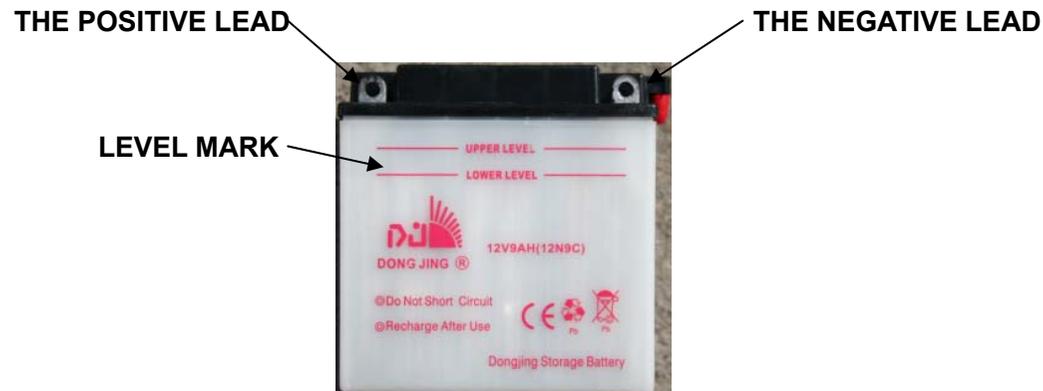
The battery electrolyte level should be between the UPPER level mark and the LOWER level mark. If battery electrolyte level is below the LOWER level mark, add distilled water to the UPPER level mark.

CAUTION

Before handing the vehicle over for long-term storage, remove the battery from the vehicle and charge if fully, and then store it in a cool, dry place. If the battery is to be left in the atv, disconnect the negative lead (–) from the battery terminal first and then the positive lead(+). Do not touch the positive and negative leads with metal objects to prevent short-circuiting during the operation above.

WARNING

- The battery gives off explosive gases; keep sparks, flames, and cigarettes away. Provide adequate ventilation when charging or using the battery in an enclosed space.
- The battery contains sulfuric acid (electrolyte). Contacting with skin or eyes may cause severe burns. Wear protective clothing and a face shield.



If electrolyte gets in your skin, flush with water.

If electrolyte gets in your eyes, flush with for at least 15 minutes and call a physician immediately.

- Electrolyte is poisonous. If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician.
- KEEP OUT OF REACH OF CHILDREN is mantle, reveal the battery box cover.2.Disconnect the negative lead from the battery first, and then the positive lead.

Take out the battery from the positive lead.

① Battery box cover②Screw③Negative lead④Battery⑤Protector⑥Positive lead TOOL KIT

Some roadside repairs, minor adjustments and parts replacement can't be performed with the tools contained in the kit.

- ① Opened-end spanner,8×10mm
- ② Double-end screw driver
- ③ Open-ended spanner 12×14mm
- ④ Screw driver handle
- ⑤ Spark plug wrench
- ⑥ Tool bag

SELF-RECOVERED OVERED PROTECTOR

The vehicle is equipped with a self-recovered overload protector. The protector will cut off the circuit automatically in the case of troubles such as a short circuit or an overload trouble, and it will switch on the circuit automatically a few seconds after you turn on the power switch in the case of troubleshooting.

TROUBLESHOOTING

If the vehicle has some trouble, see your dealer for help.

CAUTION

Do not dismantle or maintain the vehicle without the professional knowledge.

CLEANING

Clean your vehicle regularly to protect the surface finish and inspect for damage, wear, and oil or break fluid leakage.

CAUTION

High-pressure water (or air) can damage certain of the atv.

Avoid spraying high-pressure water at the following areas: Wheel Hubs; Carburetor Controls; Muffler Outlets; Under Fuel Tank; drive chain; Under Seat.

1. Wash the vehicle completely with a great deal of water.
2. Dry up the vehicle, start the engine, and let it run for several minutes.

WARNING

Braking efficiency may be temporarily impaired just after washing the atv. Anticipate longer stopping distance to avoid a possible accident.

3. Test the brakes before riding the vehicle. Several applications may be necessary to restore normal braking performance.
4. Lubricate the drive chain immediately after washing and drying the atv.

STORAGE GUIDE

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

STORAGE

1. Clean and dry up the vehicle and wax its surface.
2. Empty the fuel from the fuel tank and carburetor, spray some antirust.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where gasoline is drained or stored and where the fuel tank is refueled.

3. **Driver off the spark plug to fill a litter of engine oil (about 15—20millilitre) into the cylinder; Turn off the ignition switch and tread the kick-starter several times to scatter several times to scatter evenly the oil inside the cylinder, and then reinstall the spark plug.**
4. **Clean and oil the drive chain.**
5. **Lubricate all the cables.**

CAUTION

When removing the battery, dismantle the negative lead first, and then the positive lead. When installing it, the procedures are just opposite. During the operations above, the ignition switch must be turn off.

6. **Seal the muffler outlet with plastics cloth to protect the former from moisture.**
7. **Cover the vehicle (don't use plastics or other coated materials) and store in an unheated area, free of dampness. Do not store the vehicle in direct sunlight.**

REMOVAL FROM STORAGE

1. **Take off the cover shielding the vehicle and clean it.**
2. **Charge the battery as required. Install the battery.**
3. **Clear away the antirust inside the fuel tank, and fill fresh gasoline instead.**
4. **Perform al Pre-ride Inspection checks. Try the vehicle at low speeds in a safe riding area away from traffic .**

MAINTENANCE

The Maintenance Schedule specifies how often you should have your atv serves, and what things need attention. It is essential that your atv be serves a scheduled to retain its high level of safety, dependability, and emission control performance.

MAINTENANCE SCHEDULE

The following Maintenance Schedule specifies all maintenance required under normal conditions to keep your vehicle in sound condition. Riding under unusually dusty or wet conditions, service of the vehicle should be made more often than the specified in the schedule. Maintenance work should be performed by properly trained and equipped technicians.

I: INSPECTAND CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY C: CLEAN

1: LUBRICATE

	First week	Every 30-day,s ride	Every year
Fuel system	I		
Operation of throttle		I	
Air clean		C	
Spark plug		I	
Idle speed of carburetor	I	I	
Drive chain	I&L	I&L	
Brake shoe wear			
Brake system	I	I	I
Nuts, bolts and fasteners	I	I	
Wheel	I	I	I
Steering system			I
Suspension system		I	I