FOREWORD

Thank you for purchasing 250 ATV. This manual includes important safety information. It provides information about special techniques and skills necessary to ride this vehicle. It also includes the details to operate and necessary maintenance procedure to perform safety.

IMPROTANT SAFETY MESSAGE:

- PAY ATTENTION TO THE CAUTION AND WARNING LABELS ON THIS ATV.
- READ THIS MANUAK BEFORE OPERATING THIS ATV.MAKE SURE YOU UNDERSTAND ALL INSTRUCTION. ALSO KEEP ALL INFORMATION IN MIND WHILE OPERATING THIS ATV.
- RIDING ACCORDING TO LOCAL RIPING LAW AND REGULATIONS
- KEEP THIS MANUAL IN THE WATEPROOF PLACTIC BAG AND STORED IN THE COMPARTMENT PROVIDED BY YOU ATV.
- FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY DEATH.
- NEVER CARRY A PASSENGER ON THIS ATV

第二页

IMPORTANT NOTICE TO PARENTS AND ADULTS

- THIS ATV IS NOT A TOY.
- YOU SHOULD UNDERSTAND THIS INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE YOU LET YOUR CHILD RIDE THIS ATV.THEN BE SURE YOUR CHILD UNDESTANDS AND WILL FOLLOW THEM.
- THIS ATV SHOULD ONLY BE OPERATED UNDER THE DIRECTSUPERVISION OF AN ADULT.
- NEVER EXCEED YOUR RIDING CA[ABILITIES.
- THIS ATV CAN BE HAZARDOUS TO OPERATE, AVOID EXCESSIVE SPEED, PAVED SURFACES, SHARP TURNS, AND UNEVEN TERRAIN.
- ADULTS SHOULD ADJUST THE THROTTLE FOR SLOWER SPEEDS.
- NEVER RIDE THIS ATV DURING LOWLIGHT CONDITIONS
- CHILDREN DIFFER IN SKILLS, SOME CHILDREN MAY NOT BE ABLE TO OPERAT AN ATV SAFETY. PARENTS SHOULD PERMIT CONTINUED USE ONLY IF THEY DETERMINE THAT THE CHILD HAS THE ABILITY TO OPERATE THE ATV SAFETY.
- IF YOUR CHILDIS INEXPERIENCED IN RIDING ATV, HE OESHE SHOULE TAKE A TRAINING COURSE BEFORE OPERATING THIS ATV.

第三页

Whenever you see the symbols shown below, heed their instructions. Always follow safe operating and maintenance prastices.

WARNING

HAZARD

Faliure to head WARNINGS.

WHAT CAN HAPPEN

WARNINGS identify special instructions or procedueres which, if not correctly followed, could result in serious injury death.

HOW TO AVOID THE HAZARD

Read all WARNING in this manual carefully and for your safety be sure to follow their instruction.

CAUTION

This caution symbol identifiers special instruction or procedurds which, if not strictly observed, could result in damage to or destruction of equipment.

NOTE This note symbol indicates points of particular interest for more efficient and convenient operation.

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

第四页

IMPORTANT NOTICE

Off-road vehicle riding is a wonderful sport, and we hope you will enjoy it to the fullest.

This vehicle is designed and manufactured for off-road use only. It is illegal and unsafe to operate this vehicle on any public road, street and highway.

This vehicle complies with all applicable off-road noise and spark arrester laws and regulations in effect at the time of manufacture. Please check your local riding laws and regulations before operating this vehicle.

Read this manual carefully and completely before starting your new ATV.

It contains important safety information. Never operate this ATV without proper instruction. Beginner should take a training course before operating this vehicle.

Never allow a child under the age of 16to operate this ATV. Use of this ATV by children under 16 years of age can lead to severe injury of death of the child. Even youths starting at age 16 may not have the skills, abilities, or judgment needed to operate this ATV safety. Therefore youths starting at age 16 should have adult supervision even after the attend a training course.

To protect your safety, make sure you use your vehicle legally, show concern for the environment and respect the rights of the other people.

MSID WWW.

WARNING

Julian com

Indicate a potential hazard that could result in personal injury or death.

TABLE OF CONTENTS

| FORWORD 1 | PRE-OPERATION INSPECTION 27 |
|-----------------------------|-----------------------------|
| IMPORTANT NOTICE 4 | OPERATION 32 |
| SAFETY INFORMATION 6 | RIDING YOUR ATV 35 |
| LOCATION OF THE WARNING AND | PERIODIC MAINTENANCE AND |
| SPECIFICATION LABELS 13 | ADJUSTENT 43 |
| VEHICLE IDENTIFICATION 17 | CLEAN AND STORAGE51 |
| CONTROL FUNCTONS 18 | SPECIFICATIONS 53 |

5

M2ED

ASAFETY INFORMATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. AN ATV handles differently from other vehicles including motorcycle and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions SEVERE INJURY OR DEATH CAN RESULT IF YOU DO NOT FOLLOW THESE INSTRUCTIONS:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor.
- Always follow the age recommendation:
 - A child under 6 years old should never operate an ATV with engine size greater than 50cc.
 - A child under 12 years old should never operate an ATV with engine size greater than 70cc.
 - A child under 16 years old should never operate an ATV with engine size greater than 90cc.

WHE WWW.

- Never allow a child under age 16 to operate ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safety.
- Never carry a passenger on an ATV
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate an ATV without wearing an approved motorcycle helmet that fits property. You should also wear eye protection (fact shield or goggles), gloves, bots, long-sleeved shirt or jacket, and long pants.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- 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 operate on excessively rough, slippery or loose terrain until you have learned and practiced the skill necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operating.

SKD vv

- 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.
- Never attempt wheelies, jumps, or other stunts.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.
- 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.
- Never modify an ATV through improper installation or use of accessories.
- Never operate the ATV on hills too speed 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 you start 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 use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.

KHED WW

- 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 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. Dismount on the uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, follow the procedure deceived in this manual.
- Always be careful when skidding or sliding. Leak to safety control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surface, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out to control.
- Never operate an ATV in fast flowing water or in water deeper than the recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let function dry out the linings
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that will cause the ATV 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.

SIRD WW

- Avoid hills with excessively slippery or loose surface. 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.
- Always check for obstacles before operating in a new area.

while Meillemark Kr

POTENTIAL HAZARD

WARNING

Improper handing of gasoline WHAT VAN HAPPEN

Gasoline can catch and you could be burned

HOW TO AVOID THE HAZARD

Always shut down the engine while refueling. Do not refuel immediately after the engine has been running and is skill very hot. Do not spill gasoline on the exhaust muffler/pipe or engine when refueling. Never refuel ehile smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of clothes dryers or water heaters When transporting the ATV in another vehicle, make sure it is placed upright and its fuel cock is in the "OFF" position. Otherwise, gasoline may leak out from the fuel tank or carburetor.
WHAT CAN HAPPEN
Gasoline is poisonous and can cause injuries.
HOW TO AVOID HAZARD
If you swallow some gasoline or breathe a lot of gasoline vapor, or get some gasoline into your eyes, see your doctor right away.
If gasoline spills on your skin, wash with water and soap immediately. If gasoline spills on your clothes, change your clothes immediately.

Job. M

WARNING

POTENTIAL HAZARD

Starting or running the engine in a closed area.

WHAT CAN HAPPEN

Exhaust smokes are poisonous and may cause people unconsciousness and death within a short time.

HOW TO AVOID THE HAZARD

Always start and operate your ATV in an area with adequate ventilation

SHO WWW. Chille

nd. Or

LOCATION OF THE WARNING AND SPECIFICATION LABELS



Read and understand all of the labels on this ATV. They contain important information for safe and proper operation of your ATV.

Never remove any labels from your vehicle. If any label becomes difficult to read or comes off, a replacement label is available from your dealer.

French warning label No. 2, 4, 7&9 are not equipped if not required.



SK



LOCATE AND READOWNER'S MANUAL.

FOLLOW ALL INSTRUCTIONS AND WARNINGS.



Julia com

15

SK

| | A WARNING |
|----------------------------------|--|
| IMPROPER T | IRE PRESSURE OR OVERLOADING CAN |
| CAUSE LOSS | OF CONTROL. |
| LOSS OF CO | NTROL CAN RESULT IN SEVERE |
| INJURY OR D | EATH. |
| OPERATING T | IRE PRESSURE:Set with tires cold |
| Recommend | led : FRONT : 20kPa, {0.20 kgf/cm3}, 2.9pa |
| | REAR : 20kPa, {0.20 kgf/cm3}, 2.9ps |
| Minimum | : FRONT: 17kPa, {0.17 kgf/cm3}, 2.5ps |
| | REAR : 17kPa, {0.17 kgf/cm3}, 2.5ps |
| Never set ti | re pressure below minimum. |
| It could cau | ise the tire to dislodge from the rim. |
| LOADING | |
| Maximum Ve | ehicle load:95kg,(209lbs). |
| In cludes we | eight of operator, cargo and accessories. |





Julia com



16

Ø

BH

VEHICLE IDENTIFICATION

Identification number records record the vehicle identification number and engine number in the follow spaces provided for assistance when ordering spare parts from your dealer or for reference in case the ATV is Vehicle stolen. identification number. The vehicle identification number is stamp into the frame. This vehicle identification number is used to identify your ATV.

- 1. Vehicle identification Number
- 2. Engine Number



CONTROL FUNCTIONS

WARNING

Indicates a potential hazard that could result in serious

injury or death.

Main switch

Functions of the respective switch positions are as Following:

ON:

The engine can be started only at this position

OFF:

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



Indicator lights Neutral indicator light "N"

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



Handlebar Switches

Placed in left handlebar

- 1. Headlight switch (Black button)
- 2. Engine stop switch (Red button)
- 3. Start swicth (Black button)

Headlight switch:

HL: High beam

: Low beam

To gain longer life of the battery, always start the engine with the headlight switch at off position



not start when this switch is in "OFF" position.

CAUTION:

To start the engine, also see page 32 for more details.

NOTE:

If the starter switch is pushed with the main Switch "ON" and the engine stop switch "OFF" the starter motor will be activated but the engine will not start. To start the engine, make sure the engine stop switch at "RUN" position.

Throttle lever

Accelerate: Press the throttle level. Decelerate: Release the throttle level. The spring of the level will return to the position prior pressing and the engine will return to an idle. Before starting the engine, check the throttle level to make sure it is operating smoothly. Make sure it return to idle position as soon as the level is released.

WARNING

hour C:

· · ·

POTENTIAL HAZARD Malfunction of throttle.

WHAT CAN HAPPEN The throttle level could be hard to operate, cause it difficult to speed up or slow down when you need to. This could cause an accident.

HOW TO AVOID THE HAZARD

Always check the operation of the throttle level before you start the engine. If it does work smoothly, check for the reason. Correct the problem before riding this ATV. Consult your dealer if you can not find or solve the problem by yourself.

Speed limiter

There is a screw on throttle box, which is designed to keep the throttle from fully opening, even the throttle lever is pushed to the maximum. Screwing in the adjuster limits the maximum engine power available and decreases the maximum speed of the vehicle. Your ATV was delivered with an adjustable speed limiter. We recommends that all beginners start off with the speed limiter screw tuned into limit the speed while the learn. Once the beginner becomes more familiar with operating the ATVm the screw maybe gradually turned out to increase maximum speed. Adults should decide when to adjust the ATV for more power as the riding

skills of their youngster improve. Once the rider can operate with full skill at top speed permitted by adjusting the speed limiter alone, the air intake restrictor plate can be removed. See page 46 about the instruction of removing the air intake restrictor. Adjusting for maximum throttle lever Moment without removing the air intake restrictor plate will cause the engine to run roughly at higher speeds



WARNING

POTENTIAL HAZARD

Adjust the speed limiter and throttle improper.

WHAT CAN HAPPEN

The throttle cable could be damaged and

cause improper throttle operation. You could lost control, have accident or be injured.

HOW TO AVOID THE HAZARD

Do not turn the speed adjuster out more than 20mm(0.8in).

Front Brake Lever

1. 1441

The front brake lever is located on the right handlebar. Pull the lever toward handlebar to apply the front brake. Check the free play of front brake lever. The normal free play is between 10 to 20mm. (0.4 to 0.8in). You can adjust the brake lever by

turning the



the adjuster.

Rear brake lever and pedal

The rear brake lever is located on the left handlebar and the brake pedal is located on right side of the engine. Pull the lever toward the handlebar or push down on the pedal to apply the ear brake.



Parking brake

Apply the rear brake lever then push down the lock plate to apply the parking brake. To release the parking brake lock, squeeze the brake lever then the parking brake will release automatically.



WARNING POTENTIAL HAZARD Operate the parking brake improperly WHAT CAN HAPPEN The ATV could start moving unexpectedly if the parking brake is not applied before starting the engine. This could cause loss of control or a collision. If you ride the ATV without releasing the parking brake, it could cause the brake overheat to lose braking performance and cause an accident. HOW TO AVOID THE HAZARD Always set the parking brake before

- starting the engine.
- Always make sure to release the parking brake before you start to ride.

Gear shift pedal

This ATV is equipped with a semi-automatic 4-speed transmission. The gear shift pedal Is located on the left side of engine. Neutral is at the top position. Push down the gear shift pedal to change the gears as $R \rightarrow N \rightarrow$ $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$. Move the pedal upward to Change the gears as $4 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow N \rightarrow R$. Shut off the throttle completely when Performing gear or it will damage the engine.



Fuel cock

The fuel cock is below the fuel tank. To switch the fuel cock at three positions:

ON: Fuel flow to carbtetor while the lever is in this position.

OFF: Fuel will not flow while the lever is in this position.

RES: Turn the lever to this position if you run out of fuel while riding. The fill the fuel tank as soon as possible. Turn the lever to the "ON" position after refueling.

Fuel tank cap

NOTE:

Always turn the lever in "OFF" position when the engine is not running.

To remove the fuel tank cap, turn the cap Counter clockwise.



Seat

Removing the seat by pulling the seat lock Lever upward and pull up the seat at the rear. Insert the projection on the front of the seat into the holder and push down on the seat at reat to install the seat.

NOTE:

Always make sure the seat is securely fitted.



Choke lever To start a cold engine, use the choke lever. See page 32 about the proper operation to Start a cold engine.



PRE-OPERATION INSPECTION

| 27 | |
|------------------------------|---|
| PRE-OPERATION INSPECTION | |
| Always check the following p | |
| INSPECTION ITEM | INSPECTION PROCEDURE |
| Brakes | • Check the operation, condition and free play. |
| | Adjust if necessary |
| Fuel | • Check the fuel level. |
| | • Fill fuel if necessary. |
| Engine oil | • Check the engine oil lever. |
| | • Fill the engine oil if necessary. |
| Final gear oil | • Check for leakage. |
| Throttle | • Check for proper operation of throttle cable. |
| Battery | Check the level of fluid |
| Switches | • Fill distilled water if necessary. |
| | Check all switches |
| Fittings and Fasteners | • Check all fittings and fasteners |
| Wheels and Tires | • Check tire pressure, wear and damage. |
| | |
| | MSHO - |

WARNING

POTENTIAL HAZARD

Failure to check the ATV before operating. Failure to maintain the ATV properly.

WHAT CAN HAPPEN

It could cause an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always check your ATV carefully each time before your use it to be sure the ATV is in safe operation condition. Always follow inspection and maintenance Procedure as shown in the owners manual.

Brakes

July Col

St

1. Brake operation

Test the brakes at slow speed after starting to make sure they are working properly. If any of the brakes does not provide proper braking function, inspect the brake for wear. (See page 48)

2. Brake pedal and trake levers Check the correct free play in the brake pedal and brake levers. Adjust it if the free play is incorrect.(See page 48)

WARNING

POTENTIAL HAZARD

Improperly operating brakes while riding. WHAT CAN HAPPEN

The braking ability could lose and cause an accident.

HOW TO AVOID THE HAZARD

Always check the brakes every time before you start to ride. Do not ride the ATV if you find there is any problem with the brakes. Find your dealer to inspect it if you cannot correct the problem by yourself according to the adjustment procedures provided in this manual.

Fuel

MALL CA

Always fill regular unleaded gasoline to your ATV. Do not use leaded gasoline, it will cause damage to internal engine parts. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel.

WARNING

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Make 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

Always fill engine oil according to ambient Temperature recommended as follows: Ambient temperature/ Recommended oil: $5^{\circ}C-45^{\circ}C(40^{\circ}F-120^{\circ}F)/SAE20W40$ $-10^{\circ}C-35^{\circ}C(10^{\circ}F-100^{\circ}F)/SAE10W30$ $-20^{\circ}C-0^{\circ}C(0^{\circ}F-30^{\circ}F)/SAE5W30$ Make sure the engine oil is at specified level. Add oil as necessary. (See page 44)

Final gear oil

SAE 80W90 hypoid gear oil may be used for all conditions. Make sure the gear oil is at specified level. Add oil as necessary. (See page 45) Throttle lever

Check the throttle lever and see it operates correctly. It must open smoothly and return back to idle position when released. Battery

Check fluid lever and fill as necessary. Always use only distilled water to refill it. (see page 50) Switches

Check the operation of engine stop switch, Starter switch, main switch and fuel cock. Repair as necessary for proper operation.

Fittings and Fasteners Always check the tightness of chassis before riding this ATV. Take the ATV to your dealer or refer to this manual for correct tightening torque.

Tires

The tire gauge is equipped with this ATV and located in the tool bag under the seat. Measure tire pressure by the tire gauge and set the front and rear tires pressure to 20kPa (2.9psi)



OPERATION

dealer.

WARNINGIndicates a potential hazard that could
result in serious injury or death.WARNINGPOTENTIAL HAZARDOperating ATV without being familiar with
all controls.WHAT CAN HAPPEN
Loss of control, which could cause an
accident or injury.HOW TO AVOID THE HAZARDRead this manual carefully. If you do not
understand and control or function, ask your

Starting a cold engine

- 1. Set the parking brake.
- 2. Turn the fuel cock to "ON"
- 3. Turn the engine stop switch to "RUN"
- 4. Turn the main switch to "ON"
- 5. Shift the transmission gear to neutral.
- 6. Push down the choke lever to the end.
- 7. Complete close the throttle lever.
- 8. Push the start switch to crank the engine.
- 9. Pull up the chock lever to the middle position (warming up position) until the engine runs then release the start button, If the engine fails to start, release the start button, then push it again. Each cranking should not be more than 10 seconds.
- 10. Keep warming up the engine for 5min. Then pull up the choke lever to top.

To start out and accelerate:

- 1. Apply the rear brakes.
- 2. Release the throttle lever.
- 3. Shift into first gear then release the shift pedal.
- 4. Release the rear brake.
- 5. Open the throttle gradually.
- 6. Once the engine has reached adequate speed, release the throttle lever.
- 7. Shift in second gear then release the shift pedal.
- 8. Open the throttle gradually.
- 9. Follow the same procedure when shifting To the third and fourth gears.

WARNING

Always release the shift pedal before opening the throttle, or the engine could wheelie and will cause an accident.

To decelerate:

- 1. Release the throttle.
- 2. Apply the brakes smoothly and evenly.
- 3. Shift to lower gear once the engine has sufficiently slowed.

WARNING

POTENTIAL HAZARD

Apply a lower gear when the engine speed is to high.

WHAT CAN HAPPEN

The wheel could stop rotating. This could cause an accident, loss of control, injury and damage the engine.

HOW TO AVOID THE HAZARD

Always shift to lower gear before you make sure that the engine has sufficiently slowed.

Engine break-in

The most important period in the life of your engine is between 0 and 20 hours. Please read the following information very carefully.

- Do not put an excessive load on the ATV for first several hours of running.
- Never continuous operation above half throttle.
- Cool off the engine for ten minutes after every hour of operation.
- Vary the speed of the engine from time to time.

Parking

When parking, stop the engine and shift into Neutral. Turn the fuel cockl to "OFF" position And apply the parking brake. Never parking on Hills or other inclines.

Loading

This ATV is not designed to carry any cargo Or tow a trailer. Never exceed the maximum Loading capacity as 100 kg(220lb) which in -cluding the total weight of rider and access -ories. Always choose the accessories that is

Equivalent in design and quality.

WARNING

Overloading this ATV or carrying ot towing cargo Could cause changes in vehicle handling which couldlead to an accident. Never exceed the stated loading capacity for this ATV.

WARNING

Indicates a potential hazard that could result in serious injury or death.

Know your ATV before riding

This ATV is for recreation use. This section Riding your ATV, provides general ATV riding instructions for recreational riding. Riding this ATV requires special skills. Take the time to Learn the basic techniques well before attempting more difficult maneuvers.

For your safety, be sure you have read this owner's manual completely and understand the operation of the controls before you be-

SV.

gin to ride. Read all caution and warning labels on your ATV and pay particular attention to the safety information on pages6~10.

RIDE WITH CARE AND JUDGMENT

Get training if you are inexperienced. Beginners should get training from a certified Instructor. Start at slow speeds first to be fami -liar with this ATV even if you are an experien -ced rider. Do not operate at maximum perfor -mance until you are totally familiar with the ATV's handling and performance characteristics. Take the time to learn the basic techniques Before attempting more difficult maneuvers.

Never allow children under 16 years old to ride this ATV. A child under 16 should never operate an ATV with engine size greater than 90cc.

This ATV is designed to carry the operator Only. Never carry a passenger. The long seat is to allow the operator to Shift position as needed during operation. It is not a design for carrying passenger.

Apparel

Always wear an approved motorcycle helmet That fits properly. You should also wear eye protection (face shield or goggles), gloves, boots, long-sleeve jacket and long pants.

Do not operate after consuming alcohol or drugs. Operator's performance capability is reduced by the influence of alcohol or drugs.

Pre-operation checks Always perform the pre-operation checks listed On the page 27before riding for safety and proper care of your ATV.

During operation

1 MA

SKY

Always keep your feet on the footboards during operation. Otherwise your feet may contact the wheel and could cause injury. Avoid wheelies and jumping. You may loose control of the ATV or overturn.
Exhaust system

The exhaust system on the ATV is very hot During and following operation. Never Touch the exhaust system. Park the ATV in A place where pedestrians or children are Not likely to touch it.

Be careful where you ride

This ATV is designed for off-road us only.
Riding on paved surfaces can cause loss of
Control. Do not ride on any public road street
Or highway. Riding on public roads can result
In collisions with other vehicle.

• Know the terrain where you ride. Ride cau-Tiously in unfamiliar areas. Stay alert for roots, Holes or rocks in the terrain, and other hidden Hazards which may cause the ATV to upset. • When riding in an area where you might Not easily be seen, mount a caution flag on The ATV.

Do not ride on private property without
Getting permission. Do not ride in areas
Posted "No trespassing ".

• Select a large, flat area off-road to become Familiar with your ATV. Make sure that this area Is free of obstacles and other riders. You should pratice control of the brake, throttle gear shifting and turning techni-ques in the area before trying more difficult terrain.

 Set the parking brake and follow the instr -uction on page 32 to start the engine. Once it has warmed up you are ready to begin riding your ATV. As you get on the ATV, be sure not to accidentally move the shift pedal.
Do not touch the engine and exhaust pipe.

Turning your ATV

To achieve maximum traction while riding Off-road, the two rear wheels are mounted Solidly on one axle and turn together at the Same speed. Therefore, unless the wheel on The inside of the turn is allowed to slip or Loss some traction, the ATV will resist turn--ing. A special turning, technique must be Used to allow the ATV to make turns quickly And easily. It is essential that this skill be lea -rned first at low speed.

Climbing uphill

Use proper riding skill to avoid vehicle over Turns on hills. Be sure that you can maneu--ver your ATV well on flat ground before at--tempting any incline and then practice rid--ing first on gentle slopes. Try more difficult Climbs only after you have learned more Skills. In all cases avoid inclines with slippery Or loose surfaces, or obstacles that might Cause you to loose control. It is important

When you climbing a hill to make sure that Your weight is transferred forward on the ATV. This can be accomplished by leaning Forward and, on steeper inclines, standing on The footboards and leaning forward over the Handlebars. If you are climbing a hill and you Find that you have not properly judged your Ability to make it to the top, you should turn The ATV around while you still have forward Motion (provided you have the room to do so) And descend the hill.

If your ATV has stalled or stopped and you Believe you can continue up the hill, restart Carefully to make sure you do not lift the front Wheels which could cause you to loose control. If you are unable to continue up the

hill, dismount the AT on the uphill side. Physically turn the ATV around and then go down hill. If you start to roll backwards, DO NOT use the rear brake to stop or try to put the ATV in gear. The ATV could easily tip over backwards. Instead Dismount the ATV immediately on the uphill side.

Riding downhill

When riding your ATV downhill, shift your weight As far to the rear and uphill side of the ATV as Possible. Move back on the seat and sit with your Arms straight. Choose a low gear which will allow The engine compression to do most of the braking For you. Wrong braking may lead to a loss of traction Use caution while descending a hill with loose or Slippery surfaces. Braking ability and traction may be Adversely affected by these surfaces. Wrong braking may Also cause a loss of traction if possible, ride your ATV Straight downhill. Avoid sharp angles which could cause The ATV to tip or roll over. Carefully choose your path And rider no faster than you will be able to react to Obstacles which may appear.

Crossing a slope

Crossing a sloping surface on your ATV requires you To properly position your weight to keep proper Balance. Make sure that you have learned the basic Riding skills on flat ground before attempting to tra--verse a sloping surface. Avoid slopes with slippery Surfaces or rough terrain that may disturb your Balance.

As you travel across a slope, lean your body in the Uphill direction. It may be necessary to

Correct the steering when riding on loose surfaces By pointing the front wheels slightly uphill. When Riding on slopes be sure not to make sharp turns Either up or down hill.

If your ATV does begin to tip over, gradually steer in The downhill direction of these are no obstacles in Your path. As you regain proper balance, gradually Steer again in the direction you wish to travel.

Crossing through shallow water

The ATV can be used to cross slow moving, Shallow water of up to a maximum of 20cm (7.9 in) in depth. Before entering the water Choose your path cautiously. Enter where There is no sharp drop off, and avoid rocks or Other obstacles which may be slippery or upset The ATV. Ride slowly and carefully. Test your Brakes after leaving the water. Do not continue To ride your ATV without verifying that you have Regained proper braking ability.

Riding over rough terrain Riding over rough terrain should be done with Caution. Look out ofr obstacles which could Cause damage to the ATV or could lead to an Upset or accident. Be sure to keep your feet Firmly fixed on the footboards at all times. Avoid jumping the ATV as loss of control and Damage to the ATV may result

Sliding and Skidding

Care should be used when riding on loose or Slippery surfaces since the ATV may slide. If Unexpected and uncorrected, sliding could Cause an accident.

To reduce the possibility for the front wheels

To slide in loose or slippery conditions, putting your weight over the front wheels will help Sometimes.

If the rear wheels of your ATV start to slide sideways, control can usually be regained (if there is place to do so) by steering in the direction of the slide. Applying the brakes or accelerating is not recommended until you have corrected the slide.

With practice, over a period of time, skill at Controlled sliding can be improved. The terrain should be chose carefully before attempting such maneuvers, since both stability and control reduced. Bearing mind that sliding maneuvers should always be avoided on extremely slippery surfaces such as ice, since all control may be lost.

What to do of if.....

This section is designed to be a reference guide only. Make sure to read each section

on riding techniques completely what to do.....?

If your ATV does not turn when you want it to: Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are positioning your weight on the footboard to the outside of the turn. Put your weight over the front wheels for better control. (see page39)

 If your ATV begins to tip while turning: Lean more into the turn to regain balance.
If necessary, gradually release the throttle and/or steer to the outside of the turn, (see page 39)

• If your ATV can not make it up a hill you are trying to climb: turn the ATV around if you still have forward. If not, stop, dismount on the uphill side of the ATV and physically turn

The ATV around. If the ATV starts to slip backwards Do not use the rear brake- the ATV may tip over on top of you. Dismount the ATV on the uphill side. (see pages39-40)

• If your ATV is crossing a sloping surface: Be sure to ride with your weight positioned towards the uphill side of the ATV to keep proper balance. If the ATV starts to tip, steer down the hill (if there are no obstacles in your way) to get balance again. If you discover that the ATV is going to tip over, dismount on the uphill side.(see 40-41)

• If your ATV meets shallow water: ride

St

slowly and carefully through slow moving water, watching for obstacles. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPERATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability.(see page 41)

• If your ATV starts to slide sideways: Steer in the direction of the slide if you have the place. Applying the brakes or accelerating is not recommended until you have corrected the slide.(see page 41-42)

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic check, adjustment and lubrication will keep your machine in the securest and most efficient condition possible. Security is an obligation of the machine owner. The most important points of machine inspection, adjustment and lubrication are explained on the following pages.

Owner's manual and tool kit

You are advised to put this owner's manual and low-pressure tire gauge in the vinyl bag and always carry them along with the owner's tool kit under the seat.

The service information included in this manual is designed to provide you, the owner, with the essential information for completing your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are enough for this purpose, except that torque wrench is also necessary to correct tighten nuts and bolts.



Engine oil

Engine oil level measurement

- 1. Place the ATV on a level surface.
- 2. Warm up the engine for several minutes and stop it.
- 3. Remove the dipstick and wipe it off with a clean rag. Insert the dipstick in the filler hole without screwing it in.
- 4. Remove the dipstick and check the oil level.
- 5. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the proper level.

Engine oil replacement

- 1. Place the ATV on a level position.
- 2. Warm up the engine for several minutes and stop it.

- 3. Place an container under the engine.
- 4. Remove the dipstick and drain bolt to drain the oil.
- 5. Check the O-ring and replace if damaged
- 6. Install the drain bolt and tighten to specification
- 7. Fill the engine with oil and equip the dipstick.
- 8. Warm up the engine for several minutes at idle speed. Inspect oil leakage while warming up.
- Final gear oil

Final gear oil measurement

- 1. Place the ATV on a level surface.
- 2. Remove the dipstick and wipe it off with a clean rag. Insert the dipstick in the filler hole without screwing it in.
- 3. Remove the dipstick and check the oil.

- 4. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the proper level.
- 5. Equip the dipstick

Final gear oil replacement

- 1. Place the ATV on a level position.
- 2. Place a container under the final gear case
- 3. Remove the dipstick and drain bolt to drain oil
- 4. Equip the drain bolt and tighten to specification
- 5. Fill the final gear case with oil.
- 6. Equip the dipstick.
- 7. Inspect oil leakage. If oil leakage is found, check for the reason.

54

Spark plug inspection

The spark plug is an important engine component and is easy to check. The condition of the spark plug can indicate the condition of the engine. For example, a very white center electrode porcelain color could indicate an intake air leak or carburetion problem for that cylinder. Do not attempt to diagnose such problems yourself. Instead, take the ATV to your dealer. You should regularity remove and inspect the speak plug because heat and deposits will cause the spark plug to slowly break down and erode, if electrode erosion becomes excessive, you should replace the spark plug with one of the proper type. Before installing the spark plug, measure the Electrode gap with a feeler gauge and adjust to Specification.

When equipping the spark plug, always clean

the gasket surface and use a new gasket. Wipe off any grime from the threads and tighten to the specified torque.

Air filter cleaning

- 1. Remove the front cover by removing the screws.
- 2. Remove the air filter case cover by unhooking the fasteners
- 3. Remove the air filter element by unhooking the fasteners.
- 4. Wash the air filter element gently but totally in solvent.
- 5. Press the excess solvent out the air filter element and let it dry.
- 6. Check the air filter element. If damage, replace it.
- Apply foam air filter oil or other quality foam air filter oil to the air filter element. If foam air filter oil is not useful, SAE 10W30 motor oil may be used.

8. Equip the air filter element, the air filter case cover and the front cover.

Air intake restrictor plate remove

To get full engine performance ability, removing the air intake restrictor plate is required.

- 1. Remove the air filter element.(see air filter cleaning for remove and installation procedures)
- 2. Remove the air intake restrictor plate.
- 3. Equip the air filter element.

Carburetor adjustment

The carburetor is a principal part of the engine and requires very complex adjustment. Most adjustment should be left to your dealer who is professional and experienced on this.

However, the idling speed maybe performed by the owner as a part of the usual maintenance routine.

Idle speed adjustment

- Start the engine and warm it up for a few minutes at nearly 1,000 to 2,000 r/min. Sometimes rev the engine to 4,000 to 5,000 r/min. The engine is earn when it quickly responds to the throttle.
- 2. Connect the tachometer and set the idle to the specified idling speed by adjusting the throttle stop screw. Turn the screw into increase engine speed, and out to decrease engine speed.

SHO WW

Valve clearance adjustment

The proper valve clearance changes with use, leading to incorrect/air supply or engine noise. To prevent this, the valve clearance must be adjusted periodically. This adjustment however, should be left to a professional service technician.

Cam chin adjustment

The cam chain will loosen with use, resulting in improper valve timing and engine noise. To prevent this, the cam chain tensioned must be adjusted regularly. This adjustment should be left to your dealer.

Front and rear brake shoe inspection

A wear indicator is provided on each brake. The indicators allow inspecting of brake shoe wear without disassembling the brake. Apply the brake and check the position of the indicator. If the indicator reaches the wear limit line, ask your dealer to replace the shoes as a set.

Front brake lever free play adjustment

The front brake lever free play should be adjusted to 10~12mm (0.4~0.5in) at the brake lever pivot. If the free play is improper, adjust as follows:

- 1. Release the upper locknut and fully turn in the adjusting bolt.
- 2. Release the lower locknut.
- 3. Turn the lower adjusting bolt specified free play is obtained.
- 4. Tighten the lower locknut.
- 5. While applying the front brake, turn out the

upper adjusting bolt until the upper and lower cable lengths are equal. The cable joint will become vertical.

6. Tighten the upper locknut.

Rear brake lever and pedal adjustment

- 1. Brake lever free play adjustment
 - a. Release the brake cable locknut.
 - b. Turn the adjusting bolt at the brake lever until brake lever free play is 5~8mm (0.20~0.30in)
 - c. Tighten the locknut.
- 2. Brake pedal free play adjustment
 - a. Turn the brake rod adjusting nut at the rear wheel nub until brake pedal free play is 20~30mm(0.8~1.2in)
- Note: Some of the items above may only apply to certain models.

Clutch adjustment

- **1.** Remove the rubber cap.
- 2. Release the locknut.
- **3.** Slowly turn the adjusting bolt clock wise until resistance is felt. Then turn it 1/8 counter clock wise.
- **4.** Tighten the locknut to the specified torque.
- 5. equip the rubber cap safely.

Cable inspection and lubrication

Lubricate the inner cables and the cable ends. If the cables do not operate evenly, ask your dealer to replace them.

SV

Knuckle shaft and steering shaft lubrication

Lubricate the pivot points. Use a grease gun.

Wheel removal

- **1.** Raise the wheel by placing a suitable stand under the frame.
- 2. Remove the nuts (or bolts for some models) from the wheel.
- 3. Remove the wheel assembly

Wheel installation

When installing the wheel, reverse the removal procedure.

Tighten the wheel nuts to the specified torques.

Battery

Inspect the level of the battery fluid and see if the terminals are tight. Add distilled water if the fluid level is low.

Replenishing the battery fluid

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be check at least once a month.

- The level should be between the upper and lower lever marks. Use only distilled water if refilling is necessary.
- 2. Disconnect the negative (-) lead.
- 3. disconnect the positive (+) lead and remove the battery.
- When the machine is not to be used for a month or longer, remove the battery and put it in a cool, dark place. Thoroughly

recharge the battery before reusing.

- If the battery is to be stored for a longer period than the above, check the specific gravity at least once a month and recharge the battery when it is too low.
- Always make sure the connections are right when putting the battery back in the machine. Make sure the breather hose is properly connected and is not damaged or obstructed.

Fuse replacement

- 1. the fuse case is placed under the seat.
- if the fuse is blown, turn off the main switch and equip a new fuse of the specified amperage. Then turn on the switches. If the fuel immediately blows again, consult your dealer.

CLEANING AND STORAGE

Cleaning

Frequent, thorough cleaning of your machine will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

- 1. before cleaning the machine.
 - a. black off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band maybe used.
 - b. assure the spark plug and all filler caps are correctly installed.
- if the engine case is extremely greasy, apply degreaser with a paint brush. Do not apply degreaser to the wheel axles.
- 3. rinse the dirt and degreaser off with a garden hose. Use only sufficient pressure to do the

job.

- once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard to get at places.
- rinse the machine off immediately with clean water and dry all surfaces with a chamois, clean towel or cloth.
- 6. clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
- automotive type wax maybe applied to all pained and chrome plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine And let it idle for several minutes.

Storage

Long term storage (60 days or more) of your machine will request some protective proced--ures to guard against deterioration. After completely cleaning the machine, prepare for storage as follows:

- 1. fill the fuel tank with fresh fuel
- 2. remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole and reinstall the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder with oil.

- 3. lubricate all control cables.
- 4. block up the frame to raise all wheels off the ground.
- 5 tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
- 6. if sorting in a damp or salty atmosphere, coat all exposed metal surfaces with a light film or oil. Do not apply oil to any rubber parts or the seat cover.
- 7. remove the battery and charge it. Store it in a dry place and recharge it once a month do not store the battery in an extremely warm or cold place (less than $0^{\circ}C(30^{\circ}F)$ or more than $30^{\circ}C(90^{\circ}F)$

| 53 SPECIFICATION | | |
|------------------------|---|-------------------------------|
| | | |
| Model | LYDA203D | LYDA203E |
| Dimension: | | |
| Overall length | 1710mm | 1710mm |
| Overall width | 1000mm | 1030mm |
| Overall height | 1150mm | 1150mm |
| Seat height | 840mm | 840mm |
| Wheel base | 1140mm | 1140mm |
| Min. ground clearance | 120mm | 120mm |
| Minimum turning radius | 3500mm | 3500mm |
| | | |
| Dry weight: | 164kg | 175kg |
| Engine: | le la | |
| Туре | Water cooled 4-stroke 5speeds | Water cooled 4-stroke 5speeds |
| Cylinder arrangement | Single cylinder | Single cylinder |
| Displacement | 197cm | 249.2cm |
| Bore x stroke | 63.5*62.2mm | 67*68.5mm |
| Compression ratio | 10.16:1 | 10.16:1 |
| Staring system | Electric starter | Electric starter |
| | | |
| | SKY | |

| 54 | |
|----------------------|-----------------|
| Lubrication systems: | Wet sump |
| SPECIFI | ICATION |
| Model | LYDA203E |
| Rider capacity | 1 person |
| Engine oil capacity | 0.95L |
| Gear oil capacity | 0.12L |
| Fuel capacity | 6L |
| Starting | Electric |
| Transmission | Chain |
| Front / rear brakes | Disc |
| Parking brake | Mechanical lock |
| Front tirse/ PSI | 21*7-10 |
| Rear tirs/PSI | 20.5*10-10 |
| Neutral indicator | Standard(green) |
| Max. load capacity | 322kg |
| Battery (green) | 12V 9A |
| MS-FC | · |

