WARNING: Read this Manual, and any Supplements Carefully BeforeOperating Vehicle.



OWNER'S/OPERATOR'S

Assembly

•Operation •Maintenance

THIS VEHICLE IS NOT DESIGENED FOR USE ON RENTAL TRACKS OR RACING MANUAL

Europe 22.0

300ATV-2D T3 EFI 4X4

BEFORE OPERATING THIS VEHICLE, THE OWNER AND EACH OPERATOR MUST HAVE READ AND HAVE AN UNDERSTANDING OF ALL THE INSTRUCTIONS FOR PROPER ASSEMBLY AND SAFE OPERATION, AS WELL AS THE INSTRUCTIONS CONCERNING THE ENGINE AND ALL OTHER PORTIONS OF THEVEHICLE.

This manual for the English version

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NOTE:

A storage area/toolbox has been provided under the seat of the ATV for storage of this manual, and addendums.

Please keep this manual and addendums in the storage area/toolbox so that it can be found easily and referenced when needed.

1. Introduction

Congratulations on the purchase of your ALL Terrain Vehicle (ATV). We take pride in offering you this product engineered and manufactured to the highest performance and quality standards. We are sure that you will enjoy superior levels of performance, reliability, riding comfort, and safety.

This manual is provided to help the owner and operators of this ATV become familiar with the operating characteristic, and the many features offered on the ATV. The manual also covers information on the care and maintenance of your ATV.

Please read this manual carefully. The information contained in this Owner's Manual, the Warning Labels supplied with this product will help you to understand the safe use and maintenance of your ATV. Make sure that you understand and follow all Warnings and Instructions in this material.

If you did not receive any of the material listed above, please call your dealer and request to have them sent to you.

Important Safety Notice

Never make any modifications to the engine, drive system, mechanical or electrical systems of your ATV. Never install aftermarket parts or accessories intended to increase the speed or power of your ATV.

Failure to follow these warnings increases the possibility of accidents leading to **DEATH** or **SERIOUS INJURY!**

Additionally, failure to follow these requirements will void the Warranty on your ATV.

NOTE

The addition and use of certain accessories including, (but not limited to) mowers, blades, sprayers, winches and windshields will change the handling characteristics and the performance of your ATV.

Practice Responsible ATV Riding

Make sure that you understand and follow all local, state/province, and federal/national riding laws and requirements.

Remember Respect your vehicle, respect the environment and respect the property of others. You are responsible for your safety and the safety of others around you when you ride!

AN ATV CAN BE HAZARDOUS TO OPERATE.An ATV

handles differently from other vehicles including motorcycles and cars. A collision 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.



SERIOUS INJURY OR DEATHcan 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. Contact an authorized ATV dealer to find out about the training courses nearest you.
- Never allow anyone who is not an adult to operate this ATV.
- Never permit a guest to operate this ATV unless the guest has read this manual and all product labels, and has completed a certified training course.
- Never operate an ATV without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps or other stunts.
- 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 footrests of the ATV during operation.
- Always go slowly and be extra careful when operating on

unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.

- Never operate on excessively rough, slippery or loose terrain.
- 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.
- Always have the ATV checked by an authorized dealer if it has been involved in an accident.
- Never operate 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 you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before 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 which 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.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight uphill. Turn the ATV around and remount, following the procedure 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 of skidding of sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast flowing water. Avoid water which exceeds the recommended maximum depth. Go slowly, balance your weight carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

2.UNDERSTANDING WARNINGS

ATTENTION:

This is an ADULT VEHICLE ONLY: not a toy. READ AND UNDERSTAND WARNINGS AND OWNER'S MANUAL BERORE OPERATION.

KNOW YOUR VEHICLE BEFORE YOU BEGING RIDING!

Read this manual thoroughly referring to the various areas which are being discussed on your machine. Operating this vehicle carries with it responsibilities for your personal safety, the safety of others, and the protection of our environment.

NOTE: Illustrations used in this manual are for general representation only. Your model may differ.

2.UNDERSTANDING WARNINGS

SAFETY ALERT

WARNINGS identify special instructions or procedures which, if not correctly followed, could result in personal injury, or loss of life. Read all WARNINGS in this manual carefully. Follow their instructions to remain safe.

The following precautionary signal words are used throughoutthis manual to convey the following messages:

This is the safety alert symbol. When yousee this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



Indicate a potential hazard which could result in severe injury or death.

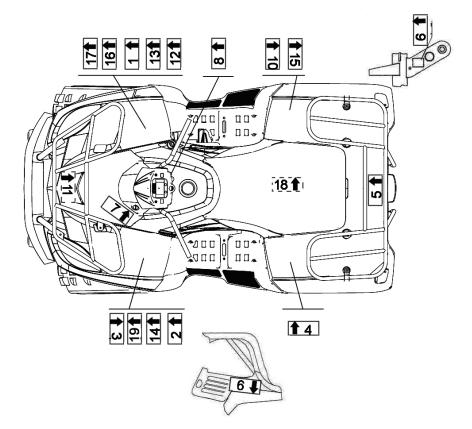
Indicate a potential hazard which may result in minor

personal injury or damage to the ATV.

CAUTION

Indicate a situation that can result in damage to the machine.

NOTE The word "NOTE" in this manual will alert you to key information or instructions.



3. SAFETY WARNING

NOTE:

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event any decal becomes illegible or comes off, contact your dealer for a replacement.

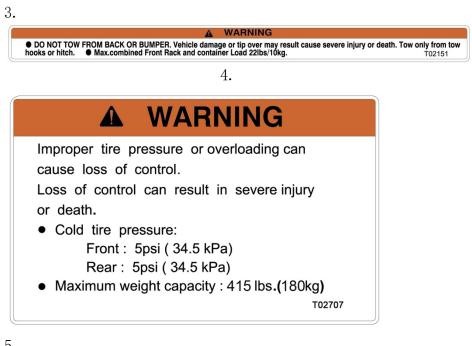
3.SAFETY WARNING

1.



2





5.

WARNING A

DO NOT TOW FROM BACK OR BUMPER. Vehicle damage or tip over may result cause severe injury or death. Tow only from tow hooks or hitch.
 Max.Rear Rack Load 44.5lbs/20kg.
 T02152

6

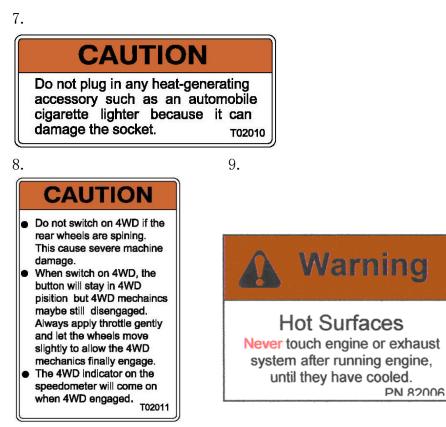
WARNIN

Pulling excessive loads can cause loss of stability or control of the ATV.

Do not exceed the load capacity for the hitch.

Make sure the vehicle is always driven is low gear at low speed once a trailer is towed.

T02518



10.

WARNING

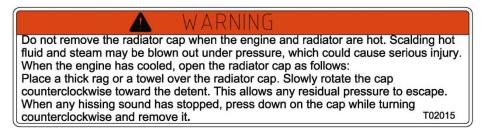
Never Operate this vehicle on HILLS steeper than 15% gradient. To prevent flip over on hilly terrain, use the throttle and brake gradually.

Operation of the ATV in reverse, even at low speeds can be dangerous. Steering and control of the ATV can become difficult.

To prevent flip over, avoid sudden braking and sharp turns.

T02013

11.



12.

CAUTION
TO KEEP THE CLUTCH & TRANSMISSION IN GOOD CONDITIONS. Use:
 Low Range: Basic operation at speeds less than 11km/h Heavy pulling Riding through rough terrain (swamps,mountains,etc.)at low ground speeds
 High Range: Basic operation at speeds greater than 11km/h
High ground speeds. T02016

13.

CAUTION

To avoid transmission breakages use the shift lever only while the vehicle is standing still and the engine is running at idle speed.

T02017

14

WARNING

Never activate the override button while throttle is open as loss of control may result, causing severe personal injury or death.

T02018

15

WARNING

Attempting to shift the operating range of the transmission, or to shift into or out four wheel drive while the ATV is in motion or the engine speed higher than idle can cause loss of control of the ATV or severe damage to the transmission and drive system.

Never attempt to shift the operating range of the transmission or to shift into or out four wheel drive while the ATV is in motion or the engine speed higher than idle.

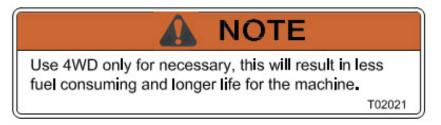
T02019

16.

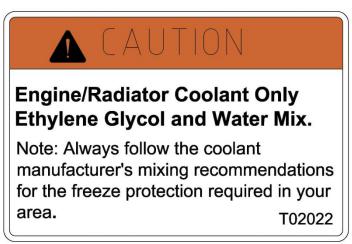
CAUTION

- Do not switch on 4WD if the rear wheels are spining. This cause severe machine damage.
- When switch on 4WD, the button will stay in 4WD pisition but 4WD mechaincs maybe still disengaged.
 Always apply throttle gently and let the wheels move slightly to allow the 4WD mechanics finally engage.
- The 4WD indicator on the speedometer will come on when 4WD engaged. T02011

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18.



19.



4. DAILY PRE-RIDE INSPECTION

WARNING

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Use the following checklist to verify your machine is in proper working order each time you ride.

Item/Inspection procedure

- 1. Tire-check condition and pressures.
- 2. Fuel tank-fill the fuel tank to its proper lever.
- 3. All brakes-check operation, adjustment and fluid level (includes auxiliary brake).
- 4. Throttle-check for free operation and closing.
- 5. Headlight / Taillight / Brake light-check operation of all indicator lights and switches.
- 6. Engine stop switch-check for proper function.
- 7. Wheels-check for tightness of wheel nuts and axle nuts; check those axle nuts are secured by cotter pins.
- 8. Air cleaner element-check for dirt; clean or replace.
- 9. Steering-check for free operation noting any unusual looseness in any area.
- 10.Loose parts-visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners.
- 11. Operators helmets, goggles and clothing.
- 12. Engine coolant check for proper level at the recovery bottle.

Get on and leaver ATV

Get on

Get on the ATV through left or right by steps.

Leave

Check that the surroundings are in safe condition and then slowly park the ATV.

Stop the engine. (Key off)

Push the parking lever to the ON position to lock the rear wheels. Leave the ATV through left or right steps.



POTENTIAL HAZARD

Operate this ATV without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course. They should then regularly techniques described in the Owner's Manual.

For more information about the training course, contact an authorized ATV dealer.



POTENTIAL HAZARD

Operate this ATV without wearing an approved helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating without eye protection can result in an accident and

increases your chances of a severe injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved helmet which fits properly. You should also wear: eye protection (goggles or face shield); gloves; boots; long-sleeved shirt or jacket; and long pants.



POTENTIAL HAZARD

Operate this ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this ATV.



POTENTIAL HAZARD

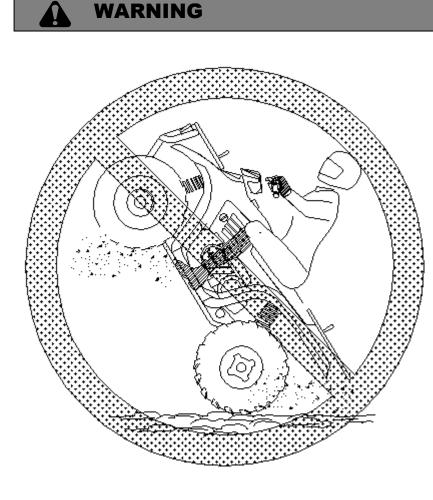
Operating this ATV at excessive speeds.

WHAT CAN HAPPEN

Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

Always travel at a speed which is proper for the terrain, visibility and operating conditions; and your experience.



POTENTIAL HAZARD

Attempting wheelies, jumps and other stunts. **WHAT CAN HAPPEN** Increases the chance of an accident, including an overturn. **HOW TO AVOID THE HAZARD** Never attempt stunts, such as wheelies or jumps.



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATVeach time you use it to make suretheATV is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.



POTENTIAL HAZARD

Removing hands from handlebars or feet from footrests during operation.

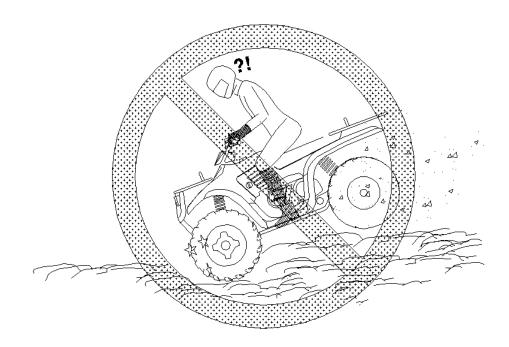
WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off the ATV. If you remove a foot from the footrest, your foot or leg may come into contact with the rear wheels. Which could injure you or cause an accident.

HOW TO AVOID THE HAZARD

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

WARNING



POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the ATV overturning or going out of control.

HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the ATV.



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could cause loss of traction or vehicle control, which could result in an accident, including an overturn.

HOW TO AVOID THE HAZARD

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

Always be especially cautious on these kinds of terrain.



POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in the Owner's Manual.

Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

Shift your weight forward.

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

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



POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

ATV could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in the Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.

WARNING

POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

HOW TO AVOID THE HAZARD

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

Practice on smaller hills before attempting large hills.

Never operate ATV on hills steeper than 15%.

WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for going down hills as described in the Owner's Manual. NOTE: A special technique is required when braking as you go downhill.

Always 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 which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.



POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful then turning on any hill. Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

Always follow proper procedures as described in the Owner's Manual.

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the ATV.



POTENTIAL HAZARD

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

WHAT ČAN HAPPEN

Could result in ATV overturning.

HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock parking brake after you are stopped.

If you begin rolling backwards:

Keep weight uphill; never apply engine power.

Never apply the rear brake while rolling backwards (150 and 200).

Apply the single-lever brake gradually.

When fully stopped, apply rear brake as well (150 and 200), and then lock parking brake.

Dismount on uphill side, or to either side if pointed straight uphill. Turn the ATV around and remount following the procedure described in the Owner's Manual.



POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as described in the Owner's Manual.



POTENTIAL HAZARD

Skidding or sliding,

WHAT CAN HAPPEN

You may lose control of the ATV.

You may also regain traction unexpectedly, which may cause the ATV to overturn.

HOW TO AVOID THE HAZARD

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance or skidding or sliding out of control.



POTENTIAL HAZARD

Operating this ATV through deep or fast flowing water.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never operating the ATV through water which exceeds the recommended maximum depth in this manual.

Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water, go slowly, balance your weight carefully avoiding sudden movement, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.

Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.



POTENTIAL HAZARD

Improperly operating in reverse,

WHAT CAN HAPPEN

You could hit an obstacle or person behind you, resulting in severe injury.

HOW TO AVOID THE HAZARD

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



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tier pressure, may cause loss of control, and increases the risk of an accident.

HOW TO AVOID THE HAZARD

Always use the size and type ties specified in the Owner's Manual for this vehicle.

Always maintain proper tire pressure a described in the Owner's Manual.



POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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. If you have questions, consult an authorized dealer.



POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly. **WHAT CAN HAPPEN**

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV,

Cargo should be properly distributed and securely attached,

Reduce speed when carrying cargo or pulling a trailer.

Allow greater distance for braking.

Always follow the instructions in the Owner's Manual for carrying cargo or pulling a trailer.



POTENTIAL HAZARD

Riding on frozen lakes and rivers.

WHAT CAN HAPPEN

Severe injury or death can result if the ATV and /or the operator break through the ice.

HOW TO AVOID THE HAZARD

Never ride you ATV on a frozen body of water before you are sure the ice is thick enough and sound enough to support the machine and its operator, as well as the force that is created by a moving vehicle.

WARNING

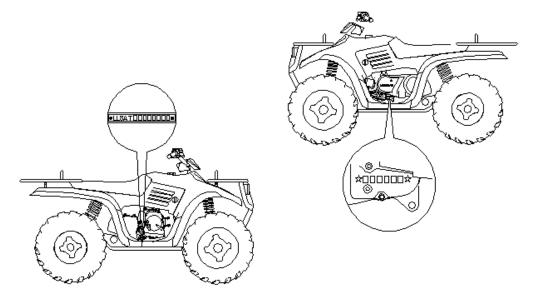
After a rollover or an accident, have a qualified service dealer check the complete machine including, but not limited to, brakes, throttle and steering for possible damage.



Safe operation of this rider active vehicle requires good judgement and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturns and loss of control which could result in severe injury or death.

Keep combustible materials away from exhaust system. Fire may result.

6.V.I.N.



Record these numbers from your ATV in the spaces provided.

- 1. Frame VIN (found on the lower right side of the frame tube)
- 2. Engine Serial Number (Left front side of engine crankcase)

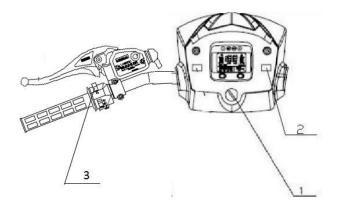
Remove the spare key and store in a safe place.Your key can be duplicated only by obtaining a key blank and having it cut by mating it with your existing key.

Record Key Number

The vehicle frame and engine serial numbers are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. In the event your vehicle were stolen these numbers are essential to the recovery and identification of your ATV.

7. CONTROL AND PARTS FUNCTIONS

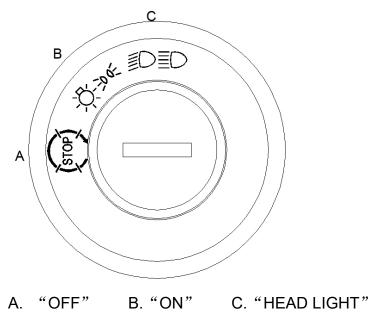
Electrical Switches



- Main Switch -This key switch must be turned clockwise to the "on" position to start the engine.
- **2. Hazard Light Switch –**When the switch is pushed to <u>the</u> four signal lights are on and the buzzer is sounding.
- 3. Engine Start Button-To start the engine.

*Override Switch (Reverse Speed Limiter)-Some version of this vehicle is equipped with a reverse speed limiter system. To obtain additional power while backing up, depress the override button. WARNING: Never activate the override button while throttle is open as loss of control may result, causing sever personal injury or death.

Insert the key into the key switch



"OFF" : Turn the key to this position to stop the engine, switch off all the electrical circuits and remove the key.

"ON" : In this position, the ATV electrical system is connected, the engine can be started and the key cannot be removed.

"HEAD LIGHT" : In this position, the head light will be on.

WARNING

Never turn the key to "OFF" position when the ATV is in motion. Otherwise the electrical system is shut off, which is likely to result in losing control or having an accident. Always make sure that the ATV is stopped before turning the key to "OFF" position.

Light Switches and Indicator Lights

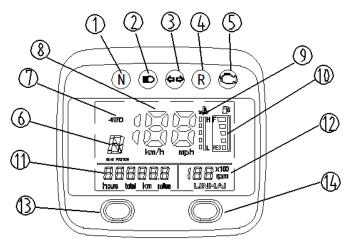


Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness.

Switches

The light switch is located on the left hand handlebar. In addition to turning the lights on and off, it also switches the lights from to Lo on models equipped with Hi - Lo beams. NOTE: Will not light unless the main switch is on.

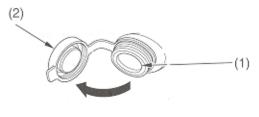
LCDMeter



- 1. Neutral indicator light
- 2. High beam indicator light
- 3. Turn indicator light
- 4. Reverse indicator light
- 5. EFI
- 6. Gear position
- 7. 2WD/4WD indicator

- 8.Speed meter
- 9. Coolant temperature meter
- 10. Fuel level
- 11. hour/Odometer
- 12.Motor speed
- 13. hour/distance selector
- 14. km/mile selector

Accessory Socket



(1) accessory socket (2) cap

(1) Accessory socket (2) cap

The accessory socket (1) is attached to the left side of the front cover. You can use the accessory socket to power a trouble light, spotlight, CB radio, or cell phone etc.



Do not plug in any heat-generating accessory such as an automobile cigarette lighter because it damages the socket.

To use the accessory socket, turn the ignition switch ON (1) to start the engine. Then turn the headlights OFF, and open the accessory socket cap (2).

It can't last long time when loading 70 \sim 100W. If the accessory socket loads below 70W, please accelerate the engine.

Be sure the engine is on and the headlights are turned off before using the accessory socket, otherwise you may drain the battery. The accessory socket is rated capacity is DC 12V. 120 Watts (10A) or less. If you exceed this limit, you may blow a fuse.

When you are done using an accessory, unplug it, and cover the socket with the cap.

Be careful not to flood this accessory socket when washing your ATV.

Throttle

WARNING

Do not start or operate an ATV with sticking or improperly operation throttle controls. A stuck or improperly operating throttle could cause an accident resulting in severe injury or death.

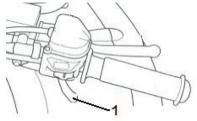
Always contact your dealer for service repairs whenever throttle problems arise.

Failure to check or maintain proper operation of the throttle system can result in the throttle lever sticking during riding and cause an accident.

Always check the lever for free movement and return before starting the engine and occasionally during riding.

Throttle Lever

Engine speed and vehiclemovement are controlled by pressing the throttle lever. The throttle lever (1)is spring loaded and engine speed returns to idle when the lever is released.





Washing or operating the scooter in freezing temperatures can result in water freezing in the throttle cable conduit and/ or on the throttle mechanism.

This may result in the throttle sticking which can cause the

engine to continue to run and result in loss of control.

7. CONTROL AND PARTS FUNCTIONS

Front and Rear Brakes

The brake fluid level should be checked before each ride. The reservoir of hand brake is located on the left side of the handlebar. The reservoir of foot brake is located under the seat. The fluid should be kept between the maximum and minimum marks.



Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of sever injury.

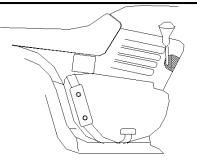
Front and Rear Brakes

The front and rear brakes are located on the inside of the right floor board and are operated by the right foot. The front and rear brakes are hydraulically activated disc type brakes which are activated by one pedal only.

Always test brake pedal travel and reservoir fluid level before riding. When squeezed, the pedal should feel firm. Any sponginess would indicate a possible fluid leak or low master cylinder fluid pedal which must be corrected before riding. Contact your dealer for proper diagnosis and repairs.

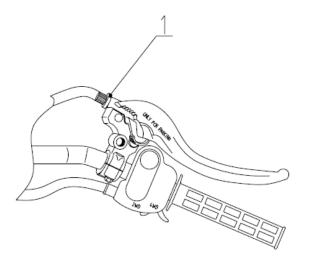
WARNING

Never operate the ATV with a spongy feeling brake pedal. operating the ATV with a spongy brake pedal can result in loss of braking. Loss of braking could cause an accident.



Setting the Parking Brake

- 1. Squeeze the right hand brake lever two or three times and hold it.
- 2. Push the park brake lock (1) into the notches on the lever body. Release the brake lever.
- 3. To release the parking brake lock, squeeze the brake lever. It will return its released position.



Important Safeguards

- The parking brake may relax when left on for a long period of time. This could cause an accident.
- Do not leave the vehicle on a hill depending on the

parking brake for more than five minutes.

• Always block the downhill side of the wheels if leaving the

ATV on a hill or park the ATV in a side hill position.

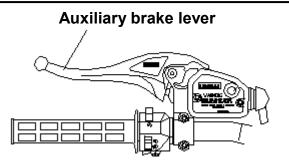


Always check to be sure that the parking brake has been disengaged before operating the ATV. An accident could result causing severe injury if the parking brake is left on while the ATV is operated.

Auxiliary Brake



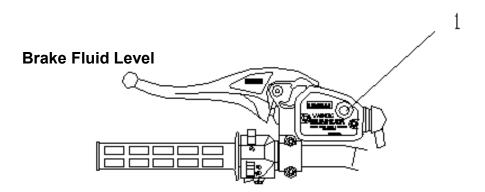
Use caution when applying the auxiliary brake. Do not aggressively apply the auxiliary brake when going forward or the rear wheels may skid and slide sideways causing loss of control.



Your ATV has an auxiliary brake provided brakeas a safety feature. It is located on the left handlebar and is operated by the left hand. It is intended as a backup to the main brake system, especially if the main system becomes inoperative.

If the rear wheels slide, apply the rear brake with the left hand to some extent. Aggressively applying the rear brake when backing down a hill may cause rear tip over.

NOTE: On 300cc ATV, the auxiliary brake will be as effective as the all wheel system.

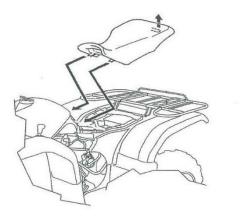


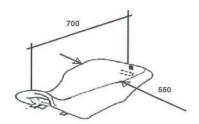
Top Window

The brake fluid in the master cylinder, which is located on the left handlebar, should be checked before each side. There is an indicator window (1) on the top of the master cylinder. This window will appear dark when the fluid level is full. When fluid needs to be added, the window will be clear. NOTE: When checking the fluid level, the ATV must be on level ground and the handlebars must be straight. If the fluid level is low add DOT 3 only.

On some models, there is a "side window", the fluid level can be seen through it, and should be maintained between the indicated "max" and "min" marks on the reservoir.

Operator's Seat





To avoid personal injury::

- 1. Make sure that the seat is completely secured.
- 2. Do not allow any person other than the driver to ride on the tractor.

Automatic Transmission Gear Selector Operation

The transmission gear selector is located positions: high forward; low forward ;reverse. and neutral;

H - L - N - R

NOTE: To extend belt life, use low forward gear in heavy pulling situations and in situations where youare operating below 7mph(11km/h) for extended periods of time.



To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Maintaining shift linkage adjustment is important to assure proper transmission function. Should you experience any shifting problem see your dealer.



POTENTIAL HAZARD (for 300cc)

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

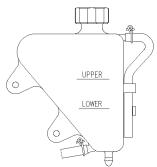
HOW TO AVOID THE HAZARD

Make certain the engine has sufficiently slowed before shifting to a lower gear.

Engine Cooling System

Coolant Level

The recovery bottle, located the left of the frame, must be maintained between the



minimum and levels indicated on the recovery pottle.

The engine coolant level is controlled or maintained by the recovery system. The recovery system components are the recovery bottle, radiator filler neck, radiator pressure cap and connecting hose.

As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the radiator past the pressure cap and into the recovery bottle. As engine coolant temperature decreases, the contracting (cooled) coolant is drawn back up from the tank past the pressure cap and into the radiator.

NOTE: Some coolant level drop on new machines is normal as the system is purging itself of trapped air. Observe coolant levels and maintain as recommended by adding coolant to the recovery bottle. We recommends the use of a 50/50 mixture of high quality aluminum compatible anti-freeze coolant and distilled water.

NOTE: Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

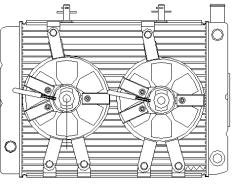
Cooling System

WARNING

Never remove the pressure cap when the engine is warm or hot. Escaping steam can cause severe burns. The engine must be cool before removing the pressure cap.

Radiator Coolant Level Inspection

NOTE:This procedure is only required if the cooling system has been drained for maintenance and/or repair. However, if the recovery bottle has run dry, the level in the radiator should be

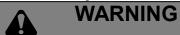


inspected and coolant added if necessary.

NOTE: Use of a non-standard pressure cap will not allow the recovery system to function properly. If the cap should need replacement contact your dealer for the correct replacement part. To insure that the coolant maintains its ability to protect the engine, it is recommended that the system be completely drain every two years and a fresh mixture of antifreeze and water be added.

Using a funnel, slowly add coolant as necessary through the radiator filler neck.

Fuel and Oil system



Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped and outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not over fill the tank. Do not fill the tank neck.
- If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area.
 Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- Shut off fuel valve whenever the ATV is stored or parked.



The engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

Oil System

The oil tank is located on the right side of the engine .

To check the oil:

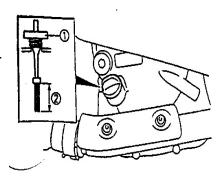
- 1. Set machine on a level surface.
- 2. Start the engine and let it idle

for20-30 seconds.

3. Stop the engine, remove

dipstick (1)and wipe dry with

a clean cloth.



4.Put dipstick into the oil tank (don't screw in it), remove it and read the oil level.

5.Remove dipstick and check to see that the oil level is between the full and add marks(2). Add oil as indicated by the level on the dipstick. Do not overfill.



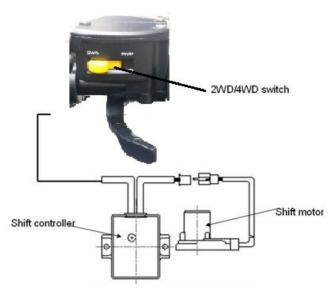
Use only SAE 15W/40,SG OIL. Never substitute or mix oil brands.

Serious engine damage and voiding of warranty can result.

4 Wheel Drive System (4WDmodel)

1. Electric 2WD- 4WD Shift

Some model is equipped with an electric shift.



CAUTION:

Always shift as the vehicle stop.

NOTE:

When shift 2WD/ 4WD, the mechanics in the front gear box maybe still engaged/disengaged, the mechanics would finally disengaged/engaged when rides on a hard surface or rides in reverse.

The buzzer will beep if the procedure which list above is not done in 1 minute.

Re-shift to stop the buzzer.

CAUTION

Do not switch on 4WD if the rear wheels are spining. This may cause severe machine damage. When switch on 4WD, the button will stay in 4WDposition but 4WD mechanics maybe still disengaged. Always apply throttle gently and let the wheels move slightly to allow the 4WD mechanics finally engage. The 4WD indicator on the speedometer will come on when 4WD engaged.

WARNING:

Extreme heavy steering is a symptom of malfunction of front gearcase (differential), loss of control could result, even in 2WD position. If you experience any symptoms from the steering, take the ATV to your dealer for inspection and service.

NOTE:

Steering effort increase but remains balanced from left to right.

WARNING

Asymmetrical heavy steering is a symptom of malfunction of one side inner or outer CV joints, loss of control could result, even in 2WD position. If you experience any symptoms from the steering, take the ATV to your dealer for inspection and service.

WARNING

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Pre-ride inspection

You can tell if malfunctions in one side CV joints by pulling the handlebar to one side or riding the ATV in low speed. Steering remains balanced from left to right in 2WD and 4WD positions..

8.STARTING THE ENGINE

Procedure for Starting a Cold Engine

WARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.



CAUTION

You must allow your vehicle adequate warm up time before operating or engine damage could result.

- 1. Place the transmission in neutral and reset the parking brake.
- 2. Sit on the vehicle.
- 3. Turn the engine stop switch to RUN.
- 4. Turn the ignition key to ON, apply the brake lever and press the starter button.
- 5. Do not press the throttle more than 20% while starting the engine.
- Activate the starter for a maximum of five seconds, releasing the button when the vehicle starts. If engine does not start, release the starter for another five seconds. Repeat this procedure until engine starts.

9.VEHICLE BREAK-IN PERIOD

The break-in period for your new ATV is defined as the first **50 hours of operation.** No single action on your part is as important as a proper break in period. Careful treatment of new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.



do not operate at full throttle or high speeds for extended periods during the break-in period. Excessive heat can build up and cause damage to close fitted engine parts.

Please set a limit to

half throttle during

the break-in periods.

- 1. Locknut 2.Adjuster
- 1. Fill fuel tank.
- 2. Check oil reservoir level indicated on dipstick. Add oil if necessary.
- 3. Drive slowly at first. Select an area which is open and will give you room to familiarize yourself with vehicle operation and handling.
- 4. Vary the throttle positions. Do not operate at sustained idle.
- 5. Perform regular checks on fluid levels, controls and all important areas on the vehicle as outlined earlier on the daily pre-ride inspection checklist found in"4.daily pre-ride inspection".
- 6. Don't pull loads.
- 7. Break in oil and filter. Change at 20 hours or 500 miles/800km.

10.RIDING GEAR

Safe Riding Gear

Always wear clothing suite to the type of riding you are doing. ATV riding requires special protective clothing which will make you fell more comfortable and reduce chances of injury.

1. Helmet

Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a severe head injury.

Select an approved helmet.

2.Eye Protection

A pair of goggles or helmet face shield offer the best protection for your eyes.

3.Gloves (off-road style)

4.Boots

A pair of strong over the calf type boots with heels, such as mo-to-cross boots.

5.Clothing

To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey and shoulder pads provide the best protection.

11.CARRYING LOADS

Your ATV has been designed to carry a certain amount of load. CARGO WEIGHT should be evenly distributed(1/3 on the front and 2/3 on the rear) and mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Never exceed the weights specified in your Owner's Manual.

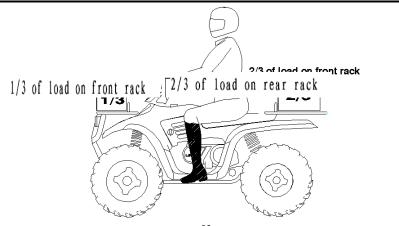
	Maximum trailer weight	Maximum vertical hitch
300cc	308 lbs (140 kg)	22 lbs (10kg)

Improper loading of the front rack can obstruct the headlight beam, reducing Light visibility. Do not obstruct the headlight beam with cargo.

Use of low forward gear is recommended in heavy pulling situations to extend belt life.

WARNING

Correct loading of this vehicle is necessary to maintain proper stability and operating characteristics. Overloading or incorrect positioning of the load affects the vehicle's turning, stopping distance and stability. Failure to follow loading requirements could cause severe injury or death.



11.CARRYING LOADS

Important Safeguards

To reduce risk of injury or machine damage when carrying loads, read and follow the warnings listed below:

- REDUCE SPEED AND ALLOW GREATED DISTANCE FOR BRAKING WHEN CARRYING CARGO.
- CARGO WEIGHT DISTRIBUTION should be 1/3 on the front rack and 2/3 on the rear rack. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Carrying loads on one rack only increases the possibility of vehicle tip over.
- HEAVY LOADS CAN CAUSE BRAKING AND CONTROL PROBLEMS. Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations which may require backing downhill.
- ALL LOADS MUST BE SECURED BEFORE MOVING VEHICLE. Unsecured loads can create unstable operating condition, which could result in loss of control of vehicle.
- LOADS MUST BE CARRIED AS LOW ON THE RACKS AS POSSIBLE. Carrying loads high on the racks raises the center or gravity of the vehicle and creates a less stable operating condition. When cargo loads are carried high on the racks, the weight of the loads must be reduced to maintain stable operating conditions.
- OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS. Avoid handling off-centered loads which cannot be centered. Always attach the tow load to the hitch point designated for your ATV.
- EXTREME CAUTION MUST BE USED. Avoid operating with loads extending over the rack sides. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- DO NOT BLOCK THE HEADLIGHT/TAILIGHT AND THE REFLECTORS when carrying loads on the racks.
- DO NOT TRAVEL FASTER THAN THE RECOMMENDED SPEEDS. Vehicle should never exceed 10 mph (16km/h) while towing a load on a level grass surface. Vehicle speed

• 11.CARRYING LOADS

should never exceed 5 mph(8km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill

Use A Safety Chain

- A safety chain will help control drawn machinery should it separatefrom the tractor drawbar.
- Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- Do not use safety chain for towing.



WARNING

The engine rpm limiter will work at 7500rpm, this may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, MAY RESULT IN THE MUFFLERS OVERHEATING AND FIRE RISK.

Always reduce throttle when the engine reach top rpm, avoid the engine popping.

WARNING

You must inspect you ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

See"4.DAILY PRE-RIDE INSPECTION"

- Sit upright with both feet on footrests and both hand on the handlebars.
- 2. After starting the engine and allowing it to warm up, shift the transmission into gear.
- 3. Check your surroundings and determine your path of travel.
- 4. Release the parking brake.
- 5.Slowly depress the throttle with your right thumb and begin driving .Vehicle speed is controlled by the amount of throttle opening.
- 6.Drive slowly,practice maneuvering and using the throttle and brakes on level surfaces

Making turns

Practice making turns at slow speeds

This ATV is equipped with a solid rear axle which drives both rear wheels equally at all times. This means that the wheel on the outside of the turn must travel a greater distance than the inside wheels when turning and the inside tire must slip traction slightly. To turn, steer in the direction of the turn leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels allowing the turn to be made smoothly. The same leaning technique should be used for turning in reverse

WARNING

Avoid turning at sharp angles in reverse as tip over and severe injury may result.

Riding on slippery surfaces

Whenever riding on slippery surface such as wet trails or loose gravel,or during cold freezing weather,special attention must be paid to prevent vehicle turnover.

Always:

1. Slow down when entering slippery areas.

2. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns which can cause skids.

3. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.

- 4. Never apply brakes during a skid. Complete loss of ATV control can result.
- 5. Do not operate on excessively slippery surfaces.
- 6. Always reduce speed and use additional caution.

WARNING

Failure to exercise care when operating the ATV on slippery Surfaces can be dangerous.

Loss of tire traction and vehicle control can result in an accident, including an overturn.

Traveling Uphill

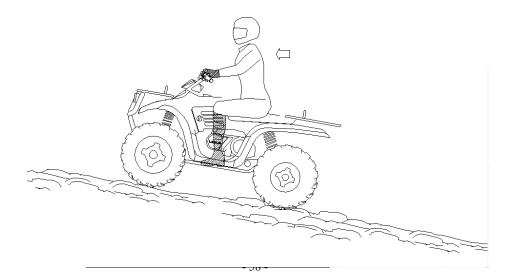


Exercise extreme caution when traveling in hilly terrain.

Braking and handling are greatly affected.Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

Whenever traveling uphill always travel straight uphill and:

- 1. Avoid steep hills (15%maximum).
- 2. Keep both feet on the footrests.
- 3. Transfer you weight forword.
- 4. Proceed at a steady rate of speed and throttle opening.
- 5. Remain alert and be prepared to take emergency action. This may include quick dismounting of the ATV.



Sidehilling

Sidehilling your ATV is one of the most dangerous types of riding and should be avoided. If you do enter into a situation where sidehilling is necessary, always:

- 1. Slow down.
- 2. Lean into the hill transferring your upper body weight towardthe hill while keeping your feet on the footrests.
- Steer slightly into the hillto maintain vehicle directions.
 If vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side immediately!

WARNING

Improperly crossing hills or turning on hills can be dangerous. Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

Traveling Downhill.

Whenever descending a hill, always:

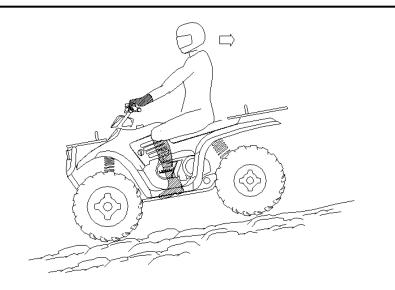
- 1. Drive directly downhill.
- 2. Transfer your weight to the rear of the vehicle.
- 3. Slow down.
- 4. Apply the brakes slightly to aid in slowing.

Familiarize yourself with the auxiliary rear brake pedal and its use

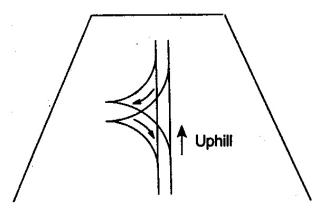
in the event loss of normal service brakes occurs.



Do not travel at excessive speeds. It is dangerous and can cause loss of vehicle control and tipping, resulting in severe injury or death.



Turning Around On a Hill



If the ATV stalls while climbing a hill,never back it down the hill! One maneuver which can be used when it is necessary to turn around while climbing a hill is the K-turn.

- 1. Stop and lock the parking brake while maintaining body weight uphill.
- 2. Leave transmission in forward and shut off engine.
- 3. Dismount on left or uphill side of ATV.
- 4. Staying uphill of ATV, turn handlebars full left (while facing front of ATV).
- 5. While holding service brake, release parking brake lock and slowly allow ATV to roll around to your right until ATV is pointing across the hill or slightly downward.
- 6. Lock the parking brake and remount ATV from the uphill side ,maintaining body weight uphill.
- 7. Restart engine with transmission still in forward, release parking brake, and proceed slowly, controlling speed with the service brake, until ATV is on reasonably level ground.



WARNING

Avoid climbing steep hills. Loss of vehicle control or overturning of the ATV could occur resulting in severe injury or death.

12.RIDING

Crossing Streams

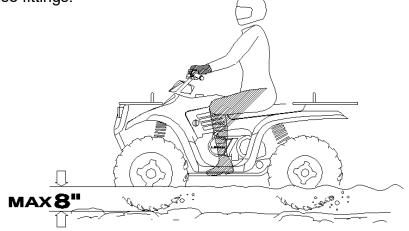
Your ATV can operate through water up to maximum recommended depths is 8 inch. Before fording steams always:

- 1. Determine water depths and current.
- 2. Choose a crossing where both banks have gradual inclines.
- 3. Proceed slowly, avoiding rocks and obstacles if possible.
- 4. After crossing,dry the brakes by applying light pressure to the lever until braking action is normal.

CAUTION

Never operating the ATV through deep or fast flowing water.

NOTE: After running the vehicle in water, it is critical your machine is serviced as outlined in the maintenance chart see **"16.maintenance"**. The following areas need special attention: engine oil, transmission oil, rear gearcased, and all grease fittings.



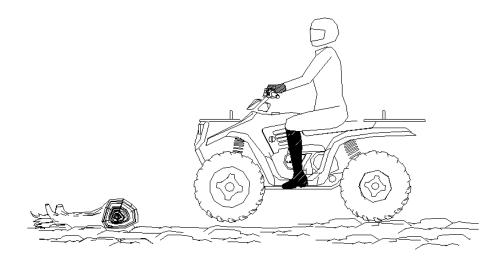
Trail Obstacles

Keep Alert!

Lookahead and learn to read the trail as you ride.Stay on the right side of the trail, if possible, and be constantly alert for hazards such as logs,rocks and low hanging branches.

WARNING

Not all obstacles are visible.Travel with caution on trails severe injury or death can vehicle comes in contact with a hidden obstacle.





Backing your ATV can be dangerous!

You could hit an obstacle or person behind you; or the vehicle could tip over rearward on a steep incline causing severe injury or death.

Backing up

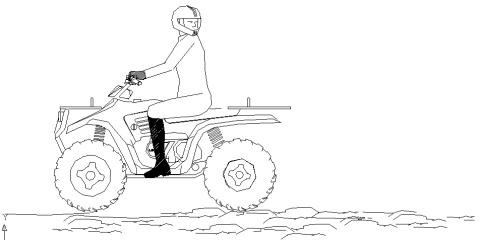
- 1. Avoid backing up on steep inclines.
- 2. Always back slowly.
- 3. When in reverse, apply the brakes lightly for stopping.
- 4. Avoid turning at sharp angles in reverse.
- 5. Never open the throttle suddenly while backing.

NOTE: This ATVis equipped with a reverse speed limiter.Do not operate at wide open throttle. Only open the throttle enough to maintain a desired speed.

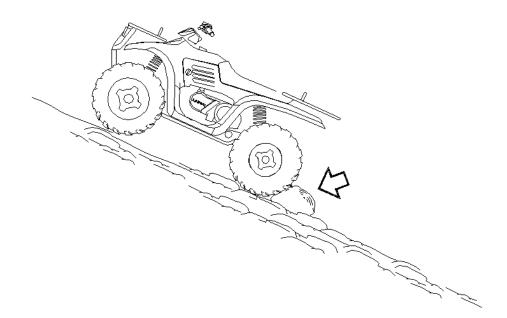


Opening the throttle more than required may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, MAY RESULT IN THE MUFFLERS OVERHEATING AND FIRE RISK.

Never ride with engine popping more than 1 minutes.



Parking on an incline



Whenever the vehicle is parked

- 1. Turn the engine off.
- 2. Place the transmission in gear.
- 3. Set the parking brake.
- 4. Shut off fuel supply.
- 5. Avoid parking on an incline. If it is neceddary to park on

an incline, always block the rear wheels on the down hill side as shown above.

6.Do not leave the ATV on a hill depending on the parking brake for more than five minutes.

13.CVT SYSTEM

CVT System

WARNING

The CVT system rotates at high speeds, creating large amounts of force on clutch components. However, as the owner you have the following responsibilities to make sure this system remains safe:

• Do not modify any component of the CVT system.Doing so may reduce its strength so that a failure may occur at high speeds.Any modification will cause the system to be out of balance,creatingvibration and additional loads on components.

 Routine maintenance is the responsibility of the owner.Always follow recommended maintenance procedures.
 See you dealer!

• The CVT housing must be securely in place during operation.

Failure to comply with this warning can result in severe injury or death.

Low Range Use May Reduce CVT (for 300cc)

Operating Temperatures

The basic operation of the CVT system is dependent on engine speed and vehicle torque requirements.As engine speed increased,the force exerted on the movable drive sheave by the fly-weights also increases.This,in turn,increases the amount of "pinch" applied to the drive belt.Similarly,if the engine speed decrease,the amount of centrifugal; force decreases,reducing the amount of belt "pinch."

13. CVT SYSTEM

CVT System

On 300cc ATV, the approximate gear ratio difference between high and low range is 1:2.05.This difference in gearing affects the operation of the CVT, especially at speeds less than 7 MPH, due to the system's dependence on engine speed.

By switching to low range while operating at low ground speeds, the air temperature in the clutch will be reduced. Reducing the temperature inside the clutch cover extends the life of the CVT components (belt, cover, etc.).

13.CVT SYSTEM

When To Use Low Range (300cc only)

The following lists provide a guideline for when to use low range rather than high.

Low Range

- Basic operation at speeds less than 7 MPH (11km/h)
- Heavy pulling
- Riding through rough terrain (swamps,mountains,etc.)at low ground speeds

High Range:

- Basic operation at speeds greater than 7 MPH (11km/h)
- High ground speeds

Battery



WARNING

Whenever removing the battery, disconnect the negative (black) cable first. When reinstalling the battery, connect the negative (black) cable last or an explosive situation could result causing serious injury or death.



Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing. Antidote: **External:** Flush with water.

Internal:Drink large quantities of water or milk. Follow with milk of magnesia,beaten egg,or vegetable oil.Call physician immediately.

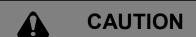
Eyes:Flush with water for 15minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

Battery Removal

- 1. Disconnect hold down straps holding the electrical box and battery in position and remove battery cover.
- 2. Remove the battery vent tube from the battery.
- 3. Disconnect the black (negative) battery cable first.
- 4. Disconnect the red(positive) battery cable next.
- 5. Lift the battery out of the ATV, being careful not to tip it sideways and spill electrolyte.



If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the ATV.

Battery Installation and Connections

WARNING

To avoid the possibility of explosion, always connect battery cables in the order specified.Red (positive) cable first; black (negative) cable last.An exploding battery can cause serious injury or death.

Battery terminals and connections should be kept free of corrosion.

If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean rags. Coat the terminals with dialectic grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into the battery.

- 1. Set the battery in its holder.
- 2. Install the battery vent tube. It must be free from obstructions and securely installed. If not, battery gases could accumulate and cause an explosion. The tube should be routed away from the frame and body to prevent corrosion. Avoid skin contact with electrolyte, severe burns could result.
- 3. First connect and tighten the red (positive) cable.
- 4. Second connect and tighten the black (negative) cable.
- 5. Reinstall battery cover and attach the hold down strap.
- 6. Verify that cables are properly routed.

NOTE:

• When you ATV is placed in storage for one months or more, the battery should be removed, charged to proper level, and stored in a cool dry place.

• Before reusing, take the battery to your dealer for testing and recharging.

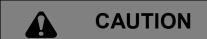
Power plug leads may need to be bent down so that battery cover may be installed.

• When installing a new battery,make certain it is fully charged prior to it is initial use.Using a new battery that has not been fully charged can damage the battery resulting in a shorter life of the battery, It can also hinder vehicle performance.

CAUTION

Your ATV is equipped with a 18AhBattery. This may no be sufficient to provide power for optional equipment. When installing optional equipment please upgrade your battery as necessary. See your dealer for the proper battery.

Checking and Refueling



To avoid personal injury :

- Do not smoke while refueling.
- Be sure to stop the engine before refueling
- 1. Turn the key switch to "ON", check the amount of fuel by fuel gauge.
- 2. Fill fuel tank when fuel gauge shows 1/4 or less fuel in tank.

INPORTANT :

- Do not permit dirt or trash to get into the fuel system.
- Be careful not to let the fuel tank become empty, otherwise air will enter the fuel system, necessitating bleeding before next engine start.
- Be careful not to spill during refueling. If fuel should spill, wipe it off at once, or it may cause a fire.
- To prevent condensation (water) accumulation in the fuel tank, fill the tank before parking overnight.

15.EXHAUST SYSTEM

SYSTEM REGULATION

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED! CAUTION: Exhaust system components are very hot during and after use of ATV.

• Do not touch exhaust system components. Serious burns can result.

• Be especially careful when traveling through tall grass. The potential for fire exists

Catalyst

There is catalyst inside the muffler on.



The engine rpm limiter will work at 7500rpm, this may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, MAY RESULT IN THE MUFFLERS OVERHEATING AND FIRE RISK.

Always reduce throttle when the engine reach top rpm, avoid the engine popping.

CAUTION

Due to the nature of the adjustments marked with a D on the following chart, it is recommended that service be performed by an authorized dealer.

 More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.

Periodic Maintenance Schedule

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication intervals of important components are explained in the following chart on the following pages.

Maintenance intervals are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use, such as operation in wet or dusty areas, should be inspected and serviced more frequently.

Inspect, clean, lubricate, adjust or replace parts as necessary.**NOTE:** Inspection may reveal the need for replacement parts.Always use genuine parts available from your dealer.

Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

	Item	Hours	When	Remarks
	Brake System	Pre-ride	Pre-ride	Pre-ride inspection item
	Auxiliary Brake	Pre-ride	Pre-ride	Pre-ride inspection item
	Tires	Pre-ride	Pre-ride	Inspect daily, pre-ride
				inspection item
	Wheels	Pre-ride	Pre-ride	Pre-ride inspection item
	Frame nuts, bolts	Pre-ride	Pre-ride	Pre-ride inspection item
	fasteners			
•	Air	Daily	Daily	Inspect-Clean
	Filter-Pre-Cleaner			
	Coolant/Level	Daily	Daily	Replace engine coolant
	Inspection			Every one year
•	Air Box Sediment	Daily	Daily	Drain deposits whenever
	Tube			visible
	Headlamp	Daily	Daily	Check operation daily;
	Inspection			apply dielectric grease
				to connector when
				replaced
	Tail/ indicator lamp	Daily	Daily	Check operation daily;
	inspection			apply dielectric grease
				to socket when replaced
•	Air Filter-Main	Weekly	Weekly	Inspect –Replace if
	Element			necessary

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	Item	Hours	When	Remarks
•	Transmission Oil	20 hrs	Monthly	Inspect monthly;
	Level			change annually
	Battery	20 hrs	Monthly	Check/clean Terminals;
				check fluid level
D	Brake pad wear	10 hrs	Monthly	Inspect periodically
•	Rear Gear case Oil	100 hrs	Monthly	Check monthly and
				changeannually
•	Front Gear case Oil	100 hrs	Monthly	Check monthly and
	(Only for 4WD)			changeannually
	Engine Cylinder	25 hrs	3 months	Inspect (re-torque
	Head and Cylinder			required at first service
	Base Fasteners			only)
•	General Lubrication	50 hrs	3 months	Lubricate all fittings,
				pivots, cables, etc.

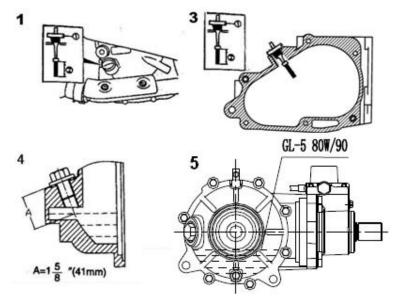
	Item	Hours	When	Remarks
•	Engine Oil-Level/Change	30 hrs	3 months	Check Level Daily; Break in Service at 1 month. Change oil more often in cold weather use.
	Engine breather hose	100 hrs	6 months	Inspect
D	Throttle Cable	50 hrs	6 months	Inspect –adjust, lubricate, replace if necessary; pre-ride inspection item
	Coolant strength	100 hrs	6 months	Inspect strength seasonally
	Shift linkage	50 hrs	6 months	Inspect, adjust
D	Drive belt	50 hrs	6 months	Inspect, replace if necessary
•	Steering	50 hrs	6 months	Inspect daily, lubricate
•	Rear Axle	50 hrs	6 months	Inspect bearings, Lube
•	Front Suspension	50 hrs	6 months	Inspect-lubricate, tighten fasteners
•	Rear Suspension	50 hrs	6 months	Inspect,tighten fasteners
	Spark Plug	100 hrs	12 months	Inspect-replace if necessary
D	Ignition Timing	100 hrs	12 months	Inspect and adjust as needed
D	Fuel System	100 hrs	12 months	Check for leaks at tank cap, lines, fuel valve filter. Replace lines every one year

	-			
D	Fuel Filter	100 hrs	12	Replace annually
			months	

	Item	Hours	When	Remove	
	Radiator (for 300cc)	100 hrs	12 months	Inspect/clean external	
				surface	
	Cooling System	50 hrs	6 months	Inspect/replace if	
	hoses(for 300cc)			necessary	
	Spark arrestor	10 hrs	monthly	Clean out-replace if	
				necessary	
D	Clutches (drive and	25 hrs	3 months	Inspect, clean	
	driven)				
	Engine mounts	25 hrs	3 months	Inspect	
D	Valve clearance	100 hrs	12 months	Inspect/adjust	
D	Shift selector	200 hrs	24 months	Change grease every two	
	box(H/L/N/R) (for			years	
	300cc)				
D	Brake fluid	200 hrs	24 months	Change every two years	
D	Toe adjustment	As	As required	Periodic inspection,	
		required		adjust when parts are	
				replaced	
	Headlight Aim	As	As required	Adjust if necessary	
		required			

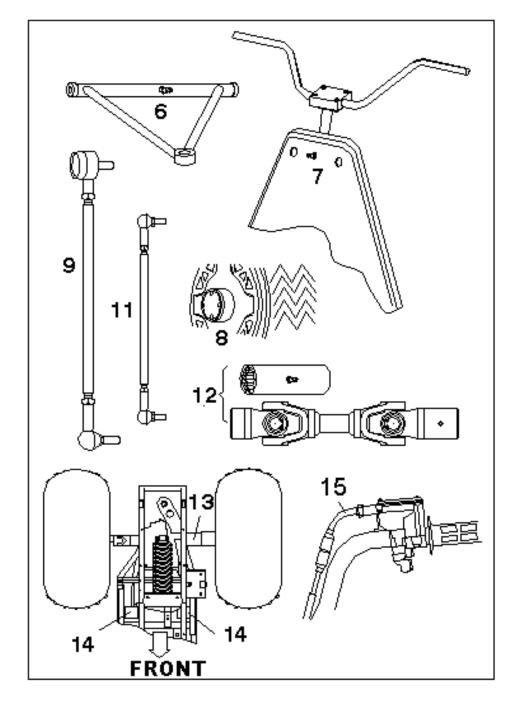
Lubrication Recommendations

ltem	Lube Rec	Method	Frequency
1. Engine	SAE	Add to proper	Check level
Oil	15W/40SG	level on dipstick	daily
2.Brake Fluid	DOT 3 Only	Maintain level Between fill lines. See "7.CONTROL"	As require; change every two years or 200 hours
3.Transmissi onOil	SAE 80W/90GL 5	See "16.MAI- NTENANCE/Transmis sion Lubrication"	Change annually or at 100 hours
4.Rear Gear case oil	SAE 80W/90GL 5	See "16.MAI- NTENANCE/Rear Gear-case Lubrication"	Change annually or at 100 hours
5.Front Gear case oil (only for 4WD)		See "16.MAI- NTENANCE/Front Gear-case Lubrication"	Change annually or at 100 hours



Lubrication Recommendations

	ltem	LubeRec	Method	Frequency
•	6. Front A-arm	Grease	Locate fitting	Every 3
	pivot Shaft		onpivot shaft	months or50
			andgrease with	hours
			grease gun	
•	7.Steering	Grease	Locate fitting on	Every 3
	Post Bushings		pivot shaft and	months or50
			grease with grease	hours
			gun	
•	8.Front Wheel	Grease	Inspect and replace	Semi-annually
	bearings		bearings if	
			necessary	
	9.Tie rods	Grease	Locate fittings	Semi-annually
			and Grease	
	10.Shift	Grease	Locate fittings	Semi-annually
	Linkages		and Grease	
•	11.Ball joints	Inspect	Inspect and replace	Semi-annually
			it if necessary	
•	12.Prop Shaft	Grease	Locate fitting and	Semi-annually
	& Shaft Yoke		Grease	



Lubrication Recommendations

•	13.Rear Axle	Grease	Locate fittings	Every3months
	Bearing		and grease	or 50 hours
•	14.Swing	Grease	Locate fittings	Monthly or 20
	Arm		and grease	hours
	Bearing			
•	15.Throttle	Grease M	Grease, inspect	Monthly or 20
	Cable		and replace it if	hours
			necessary	

NOTE:

- 1. More often under severe use, such as wet or dusty conditions .
- 2. Grease: Light weight lithium-soap grease.
- Grease M : molybdenum disulfide(MoS₂) grease(water resistant).
- 4. *When suspension action becomes stiff or after washing.
- 5. Hours are based on 10 mph(16Km/h) average.

Periodic Maintenance Record

Use the following chart to record periodic maintenance work:

Maintenance	Servicing	Servicing	Remarks
Interval	Date	Dealer or	
Performed		Person	
First 5 Hrs			
10 Hrs			
15 Hrs			
20 Hrs			
25 Hrs			
50 Hrs			
75 Hrs			
100 Hrs			

WARNING

Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars,resulting in loss of control and possible serious personal injury or death.

Handlebar Adjustment

Your ATV has handlebars which can be adjusted for your personal fit.

- 1. Remove the handlebar cover.
- 2. Loosen the four bolts.
- 3. Adjust handlebar to desired

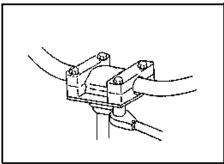
height.Be sure handlebars do

not hit gas tank or any other part

of machine when turned fully to left or right.

4. Torque handlebar adjuster block to 10-12 ft.lbs(14-16Nm).

NOTE:Tighten bolts so there is an equal gap at the front and rear of the handlebar block.Improper gap will result in improper fit of upper pod.



The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

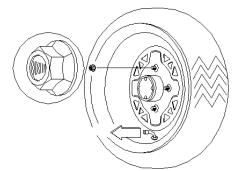
Wheel Nut Torque Specifications

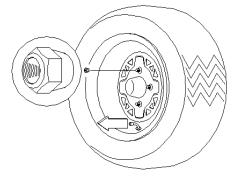
Bolt Size	Specification	
Front M10X1.25	44Ft.Lbs	60N.m
Rear(STEEL WHEEL)	50Ft.Lbs	69N.m
M12X1.25		
Rear (ALUMINIUM WHEEL)	69 Ft.Lbs	95 N.m
M12X1.25		

NOTE: All nuts that have a cotter pin installed must be serviced by an authorized Dealer.

Front Wheel Hub Tightening

Front wheel bearing tightness and spindle nut retention are critical component operations.Service work must be performed by an authorized dealer.





Front

Flange nuts:install with Flat side against wheel Rear

Tapered nuts:install with

tapered side against

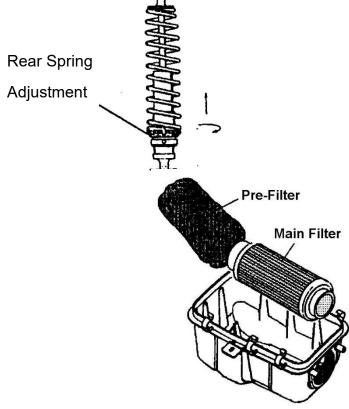
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wheel

16. MAINTENANCE

Rear Spring Adjustment

The rear shock absorber spring is adjusted by rotating the adjuster in the direction required to increase or decrease spring tension.



Α

ir Filter Service

- 1. Remove seat.
- 2. Release clips and remove Cover.
- 3. Loosen clamp and remove Filter (for 300cc);
- 4. Remove fabric type prefilter from main filter. Wash pre-filter in

soapy water and dry it.

- 5. Reinstall pre-filter over main filter. Replace main filteras required.
- 6. Reinstall filter into air box and tighten clamp.Do not over tighten clamp or filter damage may occur(for 300cc).

16. MAINTENANCE

Steering Inspection

The steering assembly of the machine should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, have your dealer tighten them before riding your vehicle.

Camber and Caster

The camber and caster are non-adjustable.



Do not attempt to adjust the tie rod for toe alignment.Severe injury or death can result from improper adjustment.

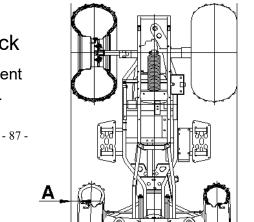
Contact your dealer. He/she has the training and tools to

Make these adjustment.

Toe Alignment Check

The recommended toe alignment is 1/8"to 1/4"(3to6mm) toe out.

1. Set the handlebars in a



Straight ahead position and Hold them in this position.

2. Measure A and B,A minus

B should be 1/16" to 1/8"

(1.5 to 3mm).

3. If this measurement needs to be adjusted, contact your dealer for service.

16.MAINTENANCE

Front Brake



WARNING

Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid.Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of serious injury.

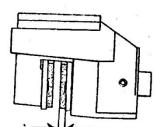
The front brake is hydraulic disc brakes which is depressing the foot pedal(also brake lever on handlebar for 300cc ATV) on the side of the right floorboard. These brakes are self-adjusting and require no adjustment.

The following checks are recommended to keep the brake system in good operating condition. How often they need checking depends upon the type of driving that has been done.

• Keep fluid level in the master cylinder reservoirs as described see "7.Control and part functions".Normal functioning of the diaphragm is to extend into the reservoir as fluid lever drops.If the fluid lever is low and the diaphragm is not extended, a leak is indicated and the diaphragm should be replaced.Always fill the reservoir as indicated whenever the cover is loosened or removed to insure proper diaphragm operation.Use DOT 3 brake fluid.

- Check brake system for fluid leaks.
- Check brake for excessive travel

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Or spongy feel.

- Check friction pads for wear, damage and loosened.
- Check security and surface condition of the disc.
- Pads should be changed when

friction material is worn to 3/64"(1mm).(A)

16.MAINTENANCE

Rear and Auxiliary Brake

Rear Brake

The rear brake is a hydraulic disc type brake which is activated by the same pedal (also brake lever on handlebar) which activates the front brake system is self adjusting and requires no maintenance other than periodic checks of the pads for wear

- Pads should be changed when the friction material is worn to 3/64"(1mm).
- Inspect the brake disc spline and pad wear surface for excessive wear.

Auxiliary Brake Systems

Your ATV's auxiliary brake system is intended to be used as a backup for the main brake system.Should the main system fail,the rear brake can be activated by the brake lever being moving toward the handlebar. The hydraulic brake system will not require adjustment.

Checking

Although the parking brake has been adjusted at the factory, the brake should be checked for proper operation. The mechanical

brake must be maintained to be fully functional.

1. With the engine off, apply the parking brake lever and attempt to move the ATV.

- 2. If the rear wheels are locked, it is adjusted properly.
- 3. If the wheels are not locked, it must be adjusted.

16.MAINTENANCE

Adjusting

To adjust (set up) the mechanical parking brake, use thefollowing procedure

Note: The adjusting on the caliper is for the wear out of the pads. 1. With the engine off, loosen the adjustor (1) on the lever.

2. Loosen the jam nut of the adjuster on the caliper.

3. Turn the adjuster (bolt) CW (clockwise) by handtill the pad touch the brake disc, turn the adjuster bolt CCW (counterclockwise) by 1/4 to one turn for 10 to 20mm freeplay at the end of the parking lever.

4. Tighten the jam nuts securely against theadjusters.

5. Make sure the rear wheels turns freely without dragging.

6. Turn the adjustor (the one on the lever) and apply the lever.

While adjusting, it is important you apply the lever back and forthfor operation, free play and the locking of the parking position.

7. Make sure the rear wheels turns freely without dragging and parking brake works properly.

CAUTION Don't over tighten the adjustor. Free play of the lever: 20mm.

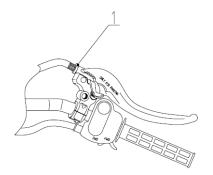
8. Field test for parking. It must be capable of holding the laden ATV stationary on an 18% up and down gradient

A temporary adjusting can also be to the brake cable on the parking side by turn the adjuster (nut) directly. But the adjust range is

done lever

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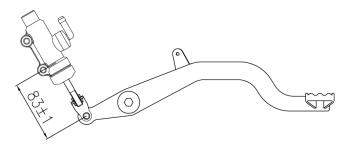
limited. Always do the procedure 1 to 8 when necessary.



16.MAINTENANCE

Adjusting brake pedal

If the push rod joint is reinstalled, adjust the push rod length so that the distance between the centers of the master cylinder lower mounting bolt hole and joint pin hole is 83±1mm. After adjustment, tighten the joint nut.



16.MAINTENANCE

Throttle Cable Free Play Adjustment

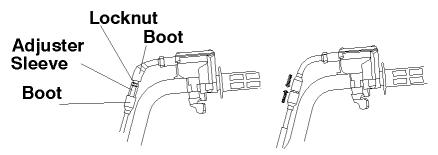
Throttle cable free play is adjusted at the handlebar.

- 1. Side the bolts off inline cable adjuster,Loosen adjuster locknut.
- 2. Turn adjuster until 1/16" to 1/8" (2to3mm) freeplay is achieved

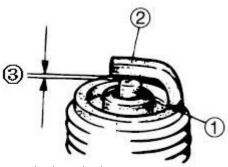
at thumb lever.NOTE:While adjusting freeplay, it is important

you flip the throttle lever back and forth.

3. Tighten locknut and slide boots over cable adjuster.



Spark Plugs



Standard spark plug DR8EA(NGK)

③ Gap:0.6-0.7mm

Inspect:

- Insulator 1 Abnormal color:Replace.
 Normal color is a medium-To-light tan color.
- Electrode 2 Wear/damage:Replace.
 Clean:
- Spark plug (with spark plug cleaner or wire brush)
 Measure:

• Spark plug gap ③ Out of specification: Adjust gap.

Spark Plug Removal and Replacement



Never attempt to remove a spark plug while the engine is warm.The exhaust system or engine could burn you causing severe injury.

Remove the spark plug by rotating counterclockwise.

Reverse the procedure for spark plug installation.

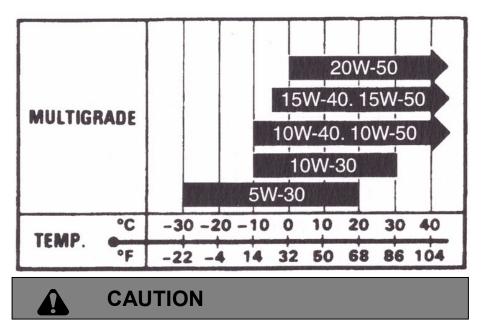
Torque to 17ft.lbs (23N.m) (for 300cc).

16.MAINTENANCE

ENGINE OIL:

The recommended oil change interval is 30 hours,or every 3 mouths,whichever comes first.Suggested break in oil change is at 20 hours,or one mouth,whichever comes first.Severe use operation requires more frequent service.Severe use includes continuous duty in dusty or wet conditions,and cold weather riding.

NOTE: Severe use cold weather riding is all riding below 10°F(-12°C), and riding between 10°F(-12°C) and 30°F(0°C) when most trips are slow speed and less than 5 mph (8km/h). Oil quality is a major contributor to your engine's performance and life. Always select good quality engine oil. Use SG in API with MA in JASO. Recommend the use of SAE 15W-40 engine oil. If SAE 15W-40 engine oil is not available or the weather is very cold, select an alternative according to the chart.

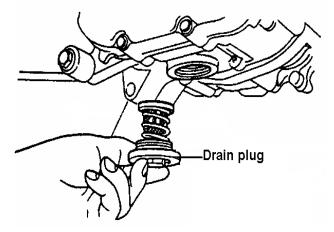


Oil may be hot.Do not allow hot oil to come into contact with skin

as severe burns may result

- 1. Place vehicle on a level surface;
- 2. Run engine two or three minutes until warm, Stop engine;
- 3. Clean area around drain plug;
- 4. Place a drain pan beneath engine crankcase and remove drain plug;

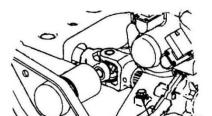
- 5. Allow oil to drain completely;
- 6. Replace sealing washer O-ring of drain plug;
- 7. Reinstall drain plug and torque to 14ft.lbs (19N.m)



Transmission Lubrication

The transmission fill plug is located on the right side of the machine.

The transmission lubricant level should be checked monthly or 20 hours, whichever comes first. Transmission oil should be changed annually. With the ATV on a level surface, remove fill plug (1) and check the lubricant level. The correct transmission lubricant to use is SEA 80W/90 GL5 Lubricant. And see"16.Maintenance; lubrication recommendations" for the

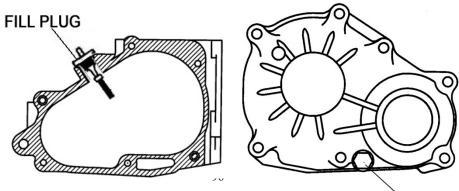


correct fluid level.

16.MAINTENANCE

Transmission Oil Changing Procedure

- 1. Remove the four screws on the footwall and gently pull outward for access.
- 2. Remove fill plug.
- Remove transmission drain plug located on the bottom left hand side and drain the oil. Catch and discard used oil properly.
- 4. Clean and reinstall the drain plug torque to 14 ft.lbs. (20Nm)
- Add the correct amount of SAE 80W/90GL5 Lubricant until oil reaches the bottom of the filler hole
- 6. Check for leaks.
- 7. Reinstall footwall and screws removed in step 1.



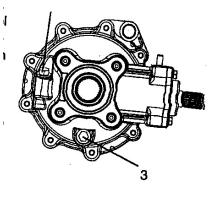
DRÀIN PLUG

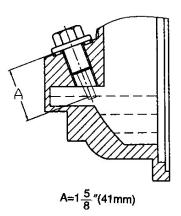
Rear Gearcase Lubrication

Which the ATV on the a level surface, remove fill plug and visually inspect the lubricantlevel through the fill hole(1).Lubricant should be kept evenwith the center of the drill point (2) approximately 1 5/8" (41mm) below the top of the fill hole. NOTE: Do not add lubricant to the bottom of the fill plug threads. The correct gearcase lubricant to use is SAE 80W/90GL5 Weight Gear Lube.

Oil Changing Procedure

 Remove drain plug (3). Catch and discard used oil properly.





 Clean and reinstall the drain plug with a new sealing washer and tighten securely (14 ft. lbs/20N.m).

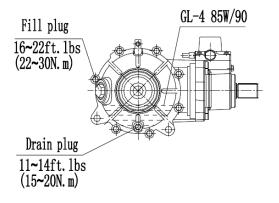
- Remove fill plug and add 10 ounces (300ml) of SAE 80W/90 GL5. Weight Gear Lubricant and inspect oil level. Oil level should be kept even with the center of the drill point (approximately 1 5/8"41mm below the top of the fill hole).
- 4. Reinstall the fill plug. Tight securely (14 ft. lbs/20N.m).
- 5. Check for leaks.

Front Gearcase Lubrication

With the ATV on a level surface, remove fill plug and visually inspect the lubricantlevel through the fill hole.Lubricant should be kept even with the center of the drillpoint approximately below the top of the fill hole.

NOTE: Do not add lubricant to the bottom of the fill plug threads. The correct gearcase lubricant to use is SAE GL-5 80W/90Weight Gear Lube.

Oil Changing Procedure



Remove drain plug.
 Catch and discard used oil properly.

2. Clean and reinstall the drain plug with a new sealing washer and tighten securely (11~14 ft.

lbs/15~20N.m).

3. Remove fill plug and add 290ml of SAE GL-5 80W/90 Weight

Gear Lubricant and inspect oil level. Oil level should be kept even with the center of the drill point (approximately below the top of the fill hole).

- Reinstall the fill plug. Tighten securely (16~22 ft. lbs/22~30N.m).
- 5. Check for leaks.

16.MAINTENANCE

WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tire will affect vehicle handling which could cause an accident resulting in serious injury or death.

Follow the safeguards listed below to prevent this type of situation.

Important Safeguards

Maintain proper tire pressure according to charts below. Improper tire inflation may affect ATV maneuverability.

Do not use improper tires. The use of non-standard size or type tires may affect ATV handling.

Make certain the wheels are installed properly. If wheels are improperly installed it could affect vehicle handling and tire wear. Wheel Removal Procedure

- 1. Stop the engine, place the transmission in gear and lock the parking brake.
- 2. Loosen the wheel nuts slightly.
- 3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
- 4. Remove the wheel nuts and remove the wheel.

Tire Pressure	
front	rear
34.5kPa/5PSI	34.5kPa/5PSI

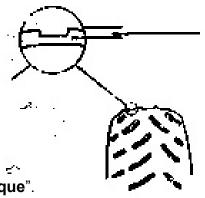
Wheel Installation

1. With the transmission in gear and the parking brake locked, place th wheel in the correct position on the wheel hub. Be sure the valve stem is toward the outside and totation arrows on the tire point toward forward rotation.

2. Attach the wheel nuts and finger tighten them.

- 3. Lower the vehicle to the ground.
- 4. Securely tighten the wheel nuts

according to the chart found in



"16.MAINTENANCE/Wheel Nut Torque".

Tire Inspection

When replacing a tire always use original equipment size and type.

Tire Tread Depth

Always replace tires when tread depth is worn to 1/8" (3mm) (1) or less. Please refer to your Owner's Manual for tire specifications.

High and Low Beam



If the vehicle stopped for a long time, turn off the high and low light.

16.MAINTENANCE

Headlight Lamp Replacement



Keep your headlights and taillights clean. Poor light while riding can result in an accident causing severe injury or death.

CAUTION

Do not service while headlight is hot. Serious burns may result.

Do not touch a halogen lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot which will shorten the life of the lamp.

Lamp Replacement

The Headlight/position light(LED) Replacement.

- 1. If the headlight/position light does not work, it may need to be replaced
- 2. Remove mounting screw.
- 3. Unplug light from harness.
- 4. Test the light to see.
- 5. Install new light and reassemble

Taillight /Brakelight Lamp Replacement

If the taillight /brakelight does not work the lamp may needtobe replaced.

- 1. Remove the lens.
- 2. Remove lamp and replace it with recommended lamp.
- 3. Test the taillight/ brake light to see that it's working .
- 4. Reinstall the lens.

Indicator Lamp Replacement

- 1. Remove mounting panel.
- 2. Unplug light from harness, depress locking tabs (A) and remove from pod.
- 3. Install new light and reassemble panel.

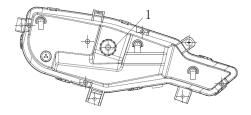
High beam Headlight Adjustment

The High beam headlight can be adjusted up and down.

1. Place the vehicle on a level surface

with the headlight approximately

- 102 -



10"(3m) from a wall.

- 2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
- 3. Start the engine and turn the headlight switch to high beam.

16.MAINTENANCE

4. Observe headlight aim. The most intense part of the headlight beam should be aimed 2.8" (71mm) below the mark placed on the wall in step 2. **NOTE :** Riding weight must be included on the seat.

5. To turn the two adjusting bolt (1) clockwise is to heighten the beam area and to turn the two adjusting bolt (1) counterclockwise is to lower the beam area.

The dipper headlightadjustment is the same to the High beam Headlight.

Cleaning Your ATV

Keeping your ATV clean will extend the life of various components.

Washing

Never use a high pressure type car wash system, it can damage to the wheel bearings, transmission seals, body panels, brakes and warning labels, and water might enter the engine or exhaust system.

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitten, cleaning the upper body first and lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots. **NOTE:** If warning labels are damaged, contact your dealer for replacement.

Waxing

Your ATV can be waxed with any non-abrasive automotive paste wax. Avoid the use of harsh cleaners since they can scratch the body finish.



CAUTION

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Care must be taken when using these products plastic surfaces.

16.MAINTENANCE

Storage Tips



Do not start the engine during the storage period. This will disturb the protective film created by fogging.

Cleaning——Clean the ATV thoroughly.

Fuel——Turn the fuel valve to "OFF".

Oil Add and Filter Change——Warm the engine and change oil and filter.

Air Filter/Air Box—Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and drain the sediment tube.

Inspect All Fluid Levels—Inspect the following fluid levels and change if necessary: transmission; brake fluid (change every two years or as required if fluid looks dark or contaminated).

Fog the Engine——Spray a light oil into the cylinder through the spark plug hole.

Check and Lubricate Cables/Grease——Inspect all cables and lubricate.

Battery Maintenance——Remove the battery and add distilled water as required to the proper level. Do not use tap water which may contain minerals that reduce battery life. Apply Dielectric Grease to the terminal bolts and terminals. Charge the battery.

Storage Area/Covers—Set tire pressure and safely support the ATV with the tires 1-2"(25-50mm) off the ground. Be sure the storage area is well ventilated. Cover the machine with a ATV cover.

NOTE: Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

16.MAINTENANCE

Transporting

Whenever the ATV is to be transported the following measures should be taken.

- 1. Turn off the engine and remove the key.
- 2. Turn the fuel valve to off.
- 3. Be certain the fuel cap, oil cap, and seat are installed correctly.
- 4. Always tie the frame of the ATV to the transporting until securely using suitable straps or rope.
- 5. Always place the transmission in gear and lock the parking brake.

17.TROUBLESHOOTING

Issues of Improper Operation Driven Clutch (CVT) Burning

Possible Causes	Solutions
Loading the ATV into a	Shift transmission to Low Range during
pickup or tall trailer when in	loading of the ATV to prevent belt
high range.	burning(for300cc)
Starting out going up a	When starting out on an incline, use low
steep incline	range, or dismount the ATV after first
	applying the park brake and perform the "K"
	turn as described in this manual(for 300cc).
Driving at low RPM or low	Drive at higher speed or use low range. The
ground speed (at	use of low range is highly recommended for
approximately 3-7MPH/	cooler CVT operating temperatures and
5-12km/h)	longer component life(for 300cc).
Insufficient warm-up of	Warm engine at least 5 min., they with
ATV's exposed to low	transmission in neutral, advance throttle to
ambient temperatures.	approx. 1/8throttle in short bursts, 5 to 7
	times. The belt will become more flexible
	and prevent belt burning.
Slow and easy clutch	Fast, effective use of the throttle for efficient
engagement.	engagement.
Towing /Pushing at low	Use Low Range only.
RPM/low ground aped.	
Stuck in mud or snow.	Shift the transmission to Low Range
	carefully use fast, aggressive throttle
	application to engage clutch. WARNING:
	Excessive throttle may cause loss of control

	and vehicle overturn(for 300cc).	
Climbing over large objects	Shift the transmission to Low Range	
	carefully use fast, brief, aggressive throttle	
(For 300cc).	application to engage clutch. WARNING:	
	Excessive throttle may cause loss of contr	
	and vehicle overturn.	

17.TROUBLESHOOTING

Battery Wane

Possible Cause	Solutions
Starting a faulty engine for	See"8.STARTING THE ENGINE"
long time	And check the fuel/ air/ ignition/
	compression system
Let the main switch (key) on	When stopping the engine, turn off
while parking the ATV	the main switch (key) off at once



This ATV is equipped with EFI system ,If the battery is under 12 Volt, the engine will not start.

17.TROUBLESHOOTING

NOTE:

The following troubleshooting does not cover all the possible causes of trouble. It should be helpful, however, as a guide to troubleshooting. Refer to the relative procedure in this manual for inspection, adjustment and replacement of parts. Adjustment and replacement must be done by your dealer.

STARTING FAILURE/ HARD ATARTING FUEL SYSTEM

EFI

Fuel tank

- •Empty
- •Clogged fuel tank breather pipe
- •Deteriorated fuel or fuel containing water or foreign material
- •fuel filter clogging
- •the fuel pressure not correct

Throttle body

•The connect not good

Air cleaner

- •Clogged air cleaner element
- •Improper air cleaner setting

COMPRESSION SYSTEM Cylinder and cylinder head

- •Loose spark plug valve
- Loose cylinder head
- •Broken cylinder head gasket
- Broken cylinder gasket

Valve system

Improperly adjusted

clearance

- Improperly sealed valve
- Improperly contacted

- •Worn, damaged or seized cylinder valve and vale seat
 - Piston and Piston ring

Improper valve timing Broken valve spring

- Worn piston
- •Wornfatigued or broken piston ring
- •Seized piston ring
- •Seized or damaged piston

17.TROUBLESHOOTING

IGNTION SYSTEM

Battery

- •Improperly charged battery
- •Faulty battery

Fuse

•Burnt out, improper connection

Spark plug

- Improper plug gap
- •Worn electrodes
- •Wire between terminals broken
- •Improper heat range
- Faulty spark plug cap

•Broken or shorted primary/

Ignition coil

secondary coil

Wiring

•Loose battery terminal

- •Loose coupler connection
- Improperly grounded
- •Broken wireharness
- Faulty high tension cordBroken ignition coil body

POOR IDLE SPEED PERFORMANCE

Air cleaner

•Clogged air cleaner element

Ignition system

- •Faulty spark plug
- •Faulty high tension cord
- Faulty ignitor unit
- •Faulty pick up coil
- •Faulty ignition coil

Valve system

- Improperly adjusted
- •valve clearance

Seized valve

- Ignition system
- •Faulty ignitor unit
- •Faulty pick up coil
- Broken magneto woodruff key

Switch

- •Faulty main switch
- •Faulty "ENGINE STOP" switch
 - •Faulty brake switch

EFI

- •the fuel pressure not correct
- •fuel injector clogging
- •fuel filter clogging

17.TROUBLESHOOTING

POOR MEDIUM AND HIGH SPEED PERFORMANCE

Air cleaner

•Clogged air cleaner element

EFI

- •the fuel pressure not correct
- •fuel filter clogging
- •fuel injector clogging

POOR SPEED PERFORMANCE

Ignition systemCompression system

- •Dirty spark plug•Worn cylinder
- •Improper heat range•Worn or seized piston ring
- •Faulty igniter unit•Cylinder head gasket broken
- •Faulty pick up coil•Cylinder gasket broken

Fuel system•Carbon deposit buildup

- •Clogged fuel tank breather hole•Improper adjusted valve
- •Clogged air cleaner element clearance
- •Clogged jet•Improper contacted
- •Improperly adjusted fuel level valve and valve seat
- the fuel pressure not correct•Faulty valve timing
- •fuel filter clogging

Clutch

•Refer to "CLUTCH SLIPPING

/DRAGGING" section **Engine oil**

•Improper oil level(low or

over Oil level)

Ignition system

- •Faulty spark plug
- •Faulty high tension cord
- •Faulty ignitor unit

- •Faulty pick up coil
- •Faulty ignition coil

Valve system

•Improperly adjusted valve

clearance

17.TROUBLESHOOTING

OVERHEATING OR OVER-COOLING OVER HEATING OVER-COOLING Ignition system Cooling system

- •Improperly spark plug gap•Faulty thermostat
- •Improper spark plug heat rang•Faulty thermo switch
- •Faulty igniter unit

Fuel system

- •Improper fuel level adjustment
- •Clogged air cleaner element

Compression system

- •Heavy carbon deposit build-up
- •Improperly adjusted valve timing
- •Improperly adjusted valve clearance

Engine oil

- Incorrect engine oil level
- •Improper engine oil quality (High viscosity)
- •Low engine oil quality

Brakes

•Dragging brake

Cooling system

- Inoperative fan motor
- •Faulty thermostat
- •Faulty thermo switch
- Incorrect coolant level (low coolant level)
- •Faulty radiator (Clogged, damage)

•Faulty radiator cap

•Impeller shaft gear malfunction (bent dowel pin, gear)•Damaged impeller shaft

•Disconnected fan motor connector

17.TROUBLESHOOTING

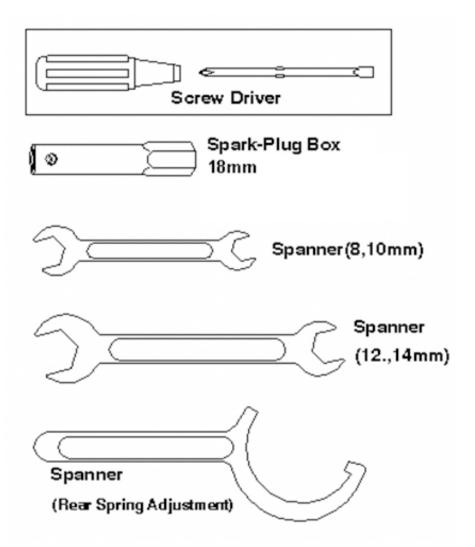
FAULTY CLUTCH WHEN ENGINE RUN, ATV DOES NOT RUN V beltPOOR SPEED PERFORMANCE •Worn/bent/slippingV-belt •Worn Cam, slider•Oil V belt •Worm/damaged

Compression springRoller weight

· · · · · · · · · · · · · · · · · · ·	
 Damage<worn improp<="" li=""> </worn>	per operation
Gears	primary/secondary/sheave
•Damage	
•Worm	
CLUTCH SLIPPINGCV	T SYSTEM
Clutch weight springl	Jncorrect Primaty Clutch Position
•Worn/loose	 Uncorrect engine mount
Clutch shoe	(see 13. CVT system)
 Worn/ damaged 	
Primary sliding sheav	e
•Seized	
POORSTARTINGFAU	TY BRAKE
POORSTARTINGFAUI PERFORMANCE	TY BRAKE POOR BRAKING
	POOR BRAKING
PERFORMANCE	POOR BRAKING front hub bearing
PERFORMANCE EFFECTV-belt •Worn 1	POOR BRAKING front hub bearing orn brake pad
PERFORMANCE EFFECTV-belt •Worn 1 •Slipping/oily V-belt•Wo	POOR BRAKINGfront hub bearing orn brake pad re•Worn brake disc
PERFORMANCE EFFECTV-belt •Worn 1 •Slipping/oily V-belt•Wo Primary sliding sheav	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid
PERFORMANCE EFFECTV-belt •Worn f •Slipping/oily V-belt•Wo Primary sliding sheav •Improper operation•Ai	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid
PERFORMANCE EFFECTV-belt •Worn f •Slipping/oily V-belt•Wo Primary sliding sheav •Improper operation•Ai •Damage•Leaking brak	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid ke fluid
PERFORMANCE EFFECTV-belt •Worn f •Slipping/oily V-belt•Wo Primary sliding sheav •Improper operation•Ai •Damage•Leaking brak compressing spring •Worm/loose •Faulty	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid ke fluid
PERFORMANCE EFFECTV-belt •Worn f •Slipping/oily V-belt•Wo Primary sliding sheav •Improper operation•Ai •Damage•Leaking brak compressing spring •Worm/loose •Faulty	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid ke fluid master cylinder kit eave •Faulty caliper seal kit
PERFORMANCE EFFECTV-belt •Worn f •Slipping/oily V-belt•Wo Primary sliding sheav •Improper operation•Ai •Damage•Leaking brak compressing spring •Worm/loose •Faulty Secondary sliding sheav	POOR BRAKING front hub bearing orn brake pad re •Worn brake disc r in brake fluid ke fluid master cylinder kit eave •Faulty caliper seal kit

•Worn guide pin grove•Broken brake hose •Worn guide pin•Oily or greasy brake pad **Clutch shoe**•Oily or greasy brake disc •Worn/ bent

18.Tools



Capacities					
Model	LH300ATV-2D T3 EFI				
Fuel capacity	12.5L		3.3U.S.Gal		
Engine Oil Capacity	1.4L		1.32Quarts		
Ground Clearance	140mm		5.5 inch		
Height	1270mm		50 inch		
Length	2160mm		85inch		
Width	1140mm		44.8inch		
Seat height	890mm		35 inch		
Wheel Base	1215mm		47.8 inch		
Minimum Turn Radius	3000mm	3000mm 118incl			
Dry Weight	4X4: 324	kg	4X4: 713 lbs		
	4X2: 301	kg	4X2: 662 lbs		
Front Rack load	10kg	10kg 22 lbs			
Rear Rack load	20kg	20kg 44 lbs			
Load Capacity (Combined	180kg		396 lbs		
Rider& Payload) Tongue Weight	10 kg		22 lbs		
Tow Capacity	140 kg		308 lbs		
Drive System					
Drive System	CVT				
Front Tire	24X8-12 35F 4PR				
-	TyreLoadra Maximum Maximum				

19.SPECIFICATION

permissible

permissible

tingper

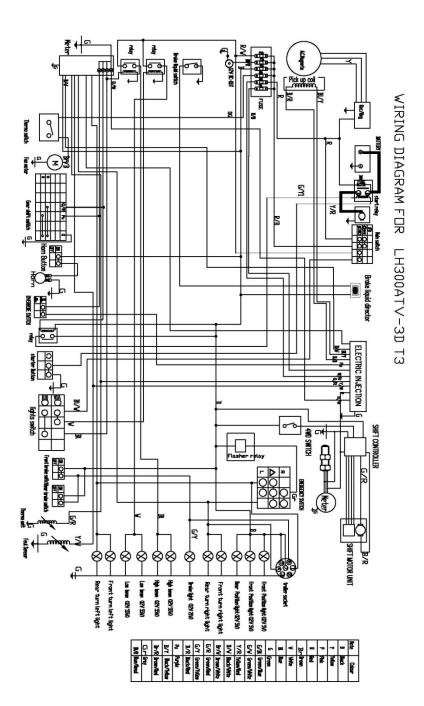
	tyre[kg]		mass	per a	axle		mass	of the vehicle
	- J LOJ		[kg]			[kg]		
	121kg		194kg			461kg		
Rear Tire			17F 4F	<u> </u>			0	,
	TyreL Maximu		ximum					
	oadrat	-		missible				
	ing	1		ss per axle		Maximumpermissiblemass		
	per	-		oft		he vehicle [kg]		
	g]							
	175kg	175kg 267kg				461kg		
Tire Pressure(front)	see deta	see detail on the mark of sidewall						
Tire Pressure(rear)	see deta	see detail on the mark of sidewall						
	Accordi	According to Annex Noise at the 86 dB(A)			86 dB(A)			
Noise	XII to Commission operator's ear							
	Delegat	Delegated Regulation						
	(EU) 13	(EU) 1322/2014						
	According to Annex N			Noise of ATV		of ATV	83 dB(A)	
	III to Co	III to Commission		in motion		n		
	Delegat	Delegated						
	Regulation (EU)							
	2015/96							
Brake System				L				
Service Brake	Hand Bra	Hand Brake		Hydraulic Disc				
Parking Brake	Rear Wh	Rear Wheel		Mechanical				
Auxiliary Brake	Foot Brake		Hydraulic Disc					

Engine				
Engine Type	LH173MN-4/ LH173MN-5,4Stroke, Single			
	Cylinder, SOHC			
Bore x Stroke	72.5mmX66.8mm			
Displacement	275CC			
Starter System	Electric Starter			
Engine Cooling	Liquid-Cooled			
Lubrication System	Wet Sump			
Ignitions	EFI			
Spark Plug Type	DR8EA (NGK)			

19. SPECIFICATION

Electrical Equipment			
300cc			
Battery	12V 18AH		
Front High Beam	12V 7.8Wx2		
Front Dipped Headlight	12V 7.2WX2		
Brake/ Tail Light	12V 5W X 2		
Front Flasher Light	12V 21W X 2		
Rear Flasher Light	12V 5WX 2		
Mark Light	12V 5W		

20.WIRNING DIAGRAM



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