### **Operator's Manual**

## **ALL TERRAIN VEHICLE**

260 Electric Start Engine 2 Wheel or 4-Wheel Drive Automatic Transmission





#### Before operating this vehicle, the owner and each operator must:

- Understand that this vehicle was not designed or manufactured to meet specifications for use on public roads, streets, highways, and thoroughfares.
- 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 the vehicle.
- View "Operations and Safety" video.
- Be at least 16 years of age.

For answers to your questions about this product, call:

1-800-643-7332 8 a.m. – 5 p.m. ET, Mon – Fri

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## 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. Should you experience any problem you cannot easily remedy, contact 1-800-643-7332 for an authorized service center.

This manual is provided to help the owner and operators of this ATV become familiar with the operating characteristics, and the many features offered on this ATV. Please read and observe the safety warnings detailed in this manual. Failure to follow these warnings increases the possibility of accidents leading to **DEATH** or **SERIOUS INJURY!** 

Follow a regular schedule for maintaining and caring for your ATV, including storage, as outlined in this manual.

#### **Important Safety Notice**

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

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 of your ATV.

Please be certain that any accessory added has been approved by Manco. Contact Manco Customer Service at 1-800-643-7332 or 1-260-432-1596.

#### Practice Responsible ATV Riding

Make sure that you understand and follow all local, state/province, and federal riding laws and requirements. Many parks, recreation areas and trails that allow ATV riding have their own safety rules as well. Be smart, check before you ride.

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.

## 2. Understanding Warnings

## ATTENTION: Read and understand warnings and owner's manual before operation. This is an adult vehicle only— it is not a toy.

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 signals and words are used throughout this manual to convey the following messages:



This is the **Safety Alert Symbol.** When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



### WARNING

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



## CAUTION

Indicates a potential hazard which may result in minor personal injury or damage to the ATV.

#### CAUTION

Caution when used without the alert symbol indicates 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 Warnings

#### AN ATV CAN BE HAZARDOUS TO OPERATE

An ATV handles differently from other vehicles; including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

### Know your vehicle before you begin riding!

Read this manual thoroughly prior to operating your vehicle. Operating this vehicle carries with it responsibilities for your personal safety, the safety of others, and the protection of our environment.



### WARNING

Serious injury or death can result if you do not follow these instructions.

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. 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.
- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- 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 as outlined in Section 11 "Riding Gear".
- 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, 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 as outlined in Section 5 "Daily Pre-Ride Inspection".

- Always follow the maintenance procedures and schedules described in this manual as outlined in Section 17 "Maintenance".
- 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 Section 12 "Riding – Making Turns". 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 Section 12 "Riding – Traveling Uphill". 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 Section 12 "Riding – Traveling Downhill". 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 Section 12 "Riding – Side Hilling". Avoid hills with excessively slippery or loose surfaces. Shift your weight to the up side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered level-ground turning technique described in Section 12 "Riding – Making Turns". 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, follow the special procedure described in Section 12 "Riding Turning around on a Hill".
- 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 Section 12 "Riding – Trail Obstacles"

- Always be careful of skidding or 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 (See Section 12 "Riding – Riding on Slippery Surfaces").
- Avoid operating the ATV through deep or fast flowing water. Avoid water which exceeds the recommended maximum depth of 8 inches, as detailed in Section 12 "Riding – Crossing Streams". 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 as described in Section 12 "Riding – Operating in Reverse".
- Always use the size and type tires specified in this manual, as detailed in Section 21 – "System Specifications". 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 as stated in Section 21 – "System Specifications". 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.

## 

We strongly recommend that all new ATV riders attend a professional training class. To obtain more information on ATV training courses in your area call 1-800-887-2887. Once you have completed this training, you will be reimbursed for the cost of the class for all first time riders in your immediate family. Fill out and return the Rider Training Coupon that you received with your new ATV to receive the reimbursement plus a certificate for up to \$100 in free merchandise.

## 4. Warning Decals

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event that any decal becomes illegible or comes off, contact 1-800-643-7332.

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

Do not remove the radiator cap when the engine and radiator are hot. Scalding hot fluid and steam may be blown out under pressure, which could cause serious injury. When the engine has cooled, open the radiator cap as follows: Place a thick rag or a towel over the radiator cap. Slowly rotate the cap counterclockwise toward the detent. This allows any residual pressure to escape. When any hissing sound has stopped, press down on the cap while turning counterclockwise and remove it. PN 82398-		
	Warning Warning	
	When shifting to 2WD from 4WD, even though the drive selector is in the 2WD position, 4WD will still be engaged until riding on a hard surface or riding in reverse. The 4WD indicator light will only go off when 4WD actually disengages.	
	A Warning	
	Do not switch on 4WD if the rear wheels are spinning. This may cause severe machine damage. When switch on 4WD, the button will stay in 4WD position but \$wd 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. No. 38	

## ▲ Warning

Only press the override button BEFORE backing up. Pressing the button while the throttle is open can result in loss of control, causing severe personal injury or death

No. 28

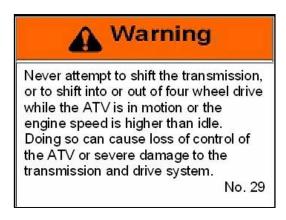






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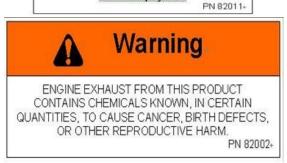






ALWAYS maintain proper tire pressure as indicated on the sidewall of your ATV tires...

NEVER exceed the Vehicle Load Capacity of 350 lbs /150kg. Combined rider and payload.



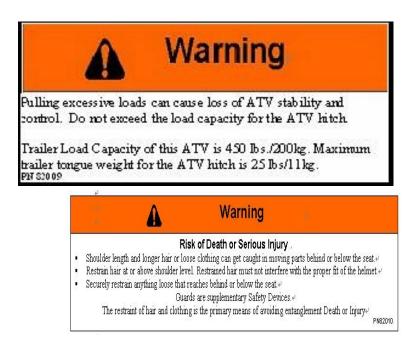
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Hot Surfaces. Never touch engine or exhaust system after running engine, until they have cooled. PN 82006+



THIS GUARD MUST BE IN PLACE DURING OPERATION OF THE ENGINE. KEEP HANDS, FEET, HAIR AND LOOSE GARMENTS AWAY FROM THE ENGINE, CHAIN AND DRIVE COMPONENTS+ PN 82005+



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**Emission Control Information:** 



EMISSION CONTROL INFORMATION IMPORTED BY Sunright International of America, Inc. HANGSU LINHAI POWER MACHINERY GROUP ENGINE DISPLACEMENT: 257cc MAXIUM BRAKE HORSEPOWER: 18.8HP ENGINE FAMILY: 6JLPX0.26NPG THIS VEHICLE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

#### EΜ

THIS VEHICLE CONFORMS TO US ENVIRONMENTAL PROTECTION AGENCY REGULATIONS APPLICABLE TO 2006 MODEL YEAR ALL-TERRAIN VEHICLES AND IS CERTIFIED TO 1.5 GM/KM HC+NO<sub>X</sub> ENGINE FAMILY EXHAUST EMISSION STANDARDS.

THIS VEHICLE CONFORMS TO CALIFORNIA ARB REGULATIONS APPLICABLE TO 2006 MODEL YEAR NEW OFF-HIGHWAY RECREATIONAL VEHICLES AND IS CERTIFIED TO 1.2 GM/KM HC ENGINE FAMILY EXHAUST EMISSIONS STANDARDS.

THE WARRANTED USEFUL LIFE OF THIS ENGINE FOR THE PURPOSE OF MEETING US EPA STANDARDS IS 60 MONTHS OR 10,000 KILOMETERS, WHICHEVER OCCURS FIRST.

> ENGINE TUNE-UP SPECIFICATIONS: SPARK PLUG TYPE: DR7EA GAP.0.6MM-0.7MM FUEL: UNLEADED 89 OCTANE OR HIGHER OIL: SAE 15W40 WARM IDEL SPEED: 1500 RPM IN NEUTRAL WARNING – SEE OWNERS GUIDE NO OTHER ADJUSTABLE PARAMETERS

MADE IN CHINA DATE MANUFACTURED.

## 5. 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. Tires: check condition and pressures.
- 2. Fuel tank: fill the fuel tank to its proper level.
- 3. All brakes: check operation, adjustment and fluid level (includes auxiliary brake).
- 4. Throttle: check for free operation and closing.
- 5. Headlight / Tail light / 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 that 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. Operator: wear proper riding gear; helmets, goggles and clothing.
- 12. Engine coolant: check for proper level at the recovery bottle.
- 4WD Units Only: pull the handlebar to one side or ride the ATV at a low speed. Steering should remain balanced from left to right in 2WD and 4WD positions.

## 6. Operation Warnings



#### POTENTIAL HAZARD

Operating 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 a certified training course. They should then regularly practice techniques described in this manual.

For more information about the training course, contact 1-800-887-2887.

## 

#### POTENTIAL HAZARD

Operating 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

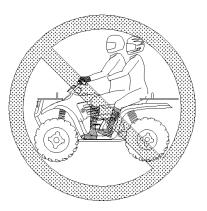
Carrying a passenger on this ATV.

#### WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this ATV. Could cause an accident, resulting in harm to you and /or your passenger.

#### HOW TO AVOID THE HAZARD

Never carry a passenger.





#### POTENTIAL HAZARD

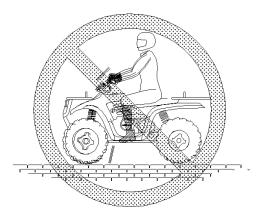
Operating this ATV on paved surfaces, including sidewalks, paths, parking lots, and driveways.

#### WHAT CAN HAPPEN

Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

#### HOW TO AVOID THE HAZARD

Avoid operating the ATV on pavement.



## 

#### POTENTIAL HAZARD

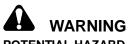
Operating this ATV after consuming alcohol or drugs.

#### 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 operating 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 that is proper for the terrain, visibility, operating conditions, and your experience.



#### POTENTIAL HAZARD

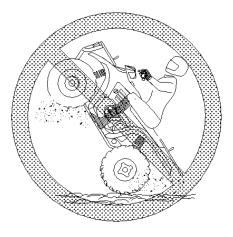
Attempting wheelies, jumps and other stunts.

#### 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 ATV.

#### WHAT CAN HAPPEN

Increases the possibility of accident or equipment damage.

#### HOW TO AVOID THE HAZARD

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition. Always follow the inspection procedures outlined in Section 5 "Pre-Ride Inspection" and maintenance procedures described in Section 17 "Maintenance".

## 

#### POTENTIAL HAZARD

Removing hand 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, causing injury or 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.

# 

#### 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 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 Section 12 "Riding – Traveling Uphill". 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, 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 Section 12 "Riding – Making Turns".

## 

#### 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 with an incline steeper than 15 degrees.

# WARNING

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 Section 12 "Riding – Traveling Downhill".

**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 level ground turning technique as described in Section 12 "Riding – Making Turns". Be very careful when 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 Section 11 "Riding – Side Hilling". Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV.



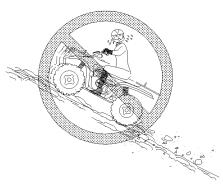
Stalling, rolling backwards, or improperly dismounting while climbing a hill.

#### WHAT CAN 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 and apply the brakes. Lock the 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. Apply the single-lever brake gradually. When fully stopped, apply rear brake as well, 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 Section 12 "Riding – Turning around on a Hill".

## WARNING 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 Section 12 "Riding – Trail Obstacles".



#### 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. Always follow proper procedures as described in Section 12 "Riding – Riding on Slippery Surfaces".



#### 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 operate the ATV through water which exceeds the recommended maximum depth in this manual (see Section 12 "Riding – Crossing Streams"). Avoid operating the ATV through deep or fast flowing water. 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.

## WARNING 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. Always follow proper procedures as described in Section 12 "Riding – Operating in Reverse".



#### 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 tire pressure, may cause loss of control, and increases the risk of an accident.

#### HOW TO AVOID THE HAZARD

Always use the size and type tires specified in Section 21 "System Specifications" for this vehicle. Always maintain proper tire pressure specified as well.

## 

#### POTENTIAL HAZARD

Operating this ATV with improper modifications or accessories.

#### 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 supplied with the part. If you have questions, contact 1-800-643-7332.

## 

#### 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 specified in Section 21 "System Specifications". Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer and allow greater distance for braking. Always follow proper procedures as described in Section 13 "Carrying Loads".



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 your 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.



- 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-interactive vehicle requires good judgment 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.

## 7. Vehicle Identification







Record these numbers from your ATV in the spaces provided.

- 1. Frame VIN (found on the left side, below engine, by rear swing arm)
- 2. Engine Serial Number (left front side of engine crankcace)

The vehicle VIN and engine serial numbers are important for model identification when registering your vehicle, obtaining insurance, or whenever replacement parts are required. Also, these numbers are essential to the recovery and identification of your ATV if it is ever stolen.

Frame VIN

Engine Serial #

Remove the spare key and store in a safe place.

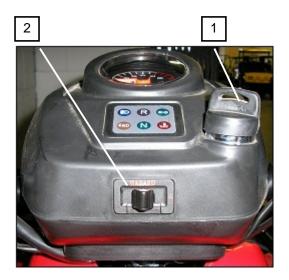
Your key can only be duplicated by obtaining a key blank and having it cut by mating it with your existing key. Record key number in space below.

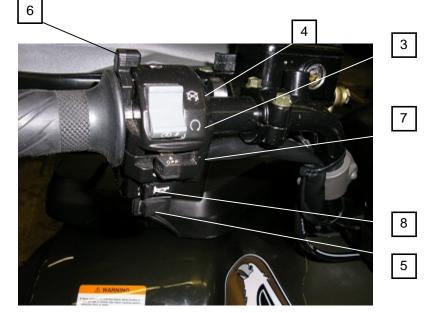
Key Number



## 8. Basic System Functions

### **Electrical Switches**





- Main Switch This key switch must be turned clockwise to the "on" position to start the engine.
- Hazard Light Switch (when equipped) When the switch is pushed to "△", the four signal lights are on and the buzzer is sounding.
- 3. Engine Start Button To start the engine.
- 4. Engine Stop Switch To stop the engine.
- 5. Override Button (when equipped) press the override button BEFORE backing up to obtain additional power.
- 6. Bright Light Switch Will change the light setting from dim to bright.
- 7. Blinker Switch (when equipped) Will activate both left and right blinkers.
- 8. Horn Button Will activate the horn.



### WARNING

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

# 

This ATV is NOT equipped with highway-approved lighting. This ATV is designed for off-road use only and must not be ridden on streets or highways. 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 between High and Lo on models equipped with Hi - Lo beams.

#### Indicator Lights

The ATV has indicator lights. The configuration of these lights differs with individual models and not every model is equipped with all the lights. This information will help you identify the lights on your machine and their function.

With engine running, verify function of indicator lights each time ATV is used.

**NOTE:** The taillight is on whenever the main switch (key) is in the "on" position. Turn the key off to prevent battery drain.

- 1. High Beam Indicator Blue
- 2. Transmission Reverse Purple
- 3. Turn Signal Indicator Green
- 4. 4WD Indicator Yellow
- 5. Transmission Neutral Green
- High Temp Red (Will light only if engine overheats, at the same time, a buzzer sounds)



#### Throttle



## WARNING

Do not start or operate an ATV with sticking or improperly operating throttle control. A stuck or improperly operating throttle could cause an accident resulting in 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.

## WARNING

Washing or operating the ATV 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.

#### Throttle Lever



Pressing the throttle lever (1) with your thumb controls engine speed and vehicle movement. The throttle lever is spring-loaded and engine speed returns to idle when the lever is released.

### **Speed Adjustment**



To limit throttle travel and top speed, the ATV is equipped with a throttle adjuster screw. The screw can be turned in to lower the top speed and out to increase the top speed. After adjustment, the locknut must be tightened down against the throttle housing.

1. Locknut

2. Throttle Adjuster Screw

#### Front and Rear Brake Control



### WARNING

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

The front and rear brake control is located on the left handlebar and operated by the left hand. The front and rear brakes are hydraulically activated disc type brakes, which are activated by one control only. Always test brake lever travel and reservoir fluid level before riding. When squeezed, the lever should feel firm. Any sponginess would indicate a possible fluid



#### Front and Rear Brake Control Lever

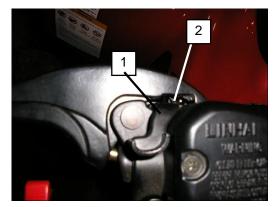
leak or low master cylinder fluid level which must be corrected before riding. Contact 1-800-643-7332 for proper diagnosis and repairs.

#### Setting the Parking Brake

## WARNING

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.

- Squeeze the left hand brake lever two or three times and hold it.
- To release the parking brake lock, squeeze the brake lever. It will return to its released position.



#### Important Safeguards

- The parking brake may relax when left on for a long period 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.

### **Auxiliary Brake Operation**

## 

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.



### WARNING

Aggressively applying the auxiliary brake when backing



down a hill may cause the ATV to become unstable and tip over.

Your ATV has an auxiliary brake, provided as a safety feature, which operates a rear brake on your unit. Step on the pedal located on the right footboard to operate the auxiliary brake. The auxiliary brake is intended as a backup to the main brake system in the event the main system becomes inoperative.

### **Brake Fluid Levels**



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 that 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 severe injury.

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#### Master Cylinder

The brake fluid in the master cylinder, which is located on the left handlebar, should be checked before each ride. 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 brake fluid, the ATV must be on level ground and the handlebars must be straight. If fluid level is low add DOT 3 only.

#### Auxiliary Brake

The brake fluid level for the auxiliary brake should be checked before each ride. The reservoir is located under the seat. The fluid should be kept between the maximum and minimum marks.

### **Automatic Transmission Gear Selector Operation**



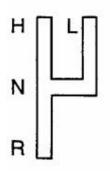
### WARNING

Engaging a lower gear when the engine speed is too high could cause the wheels to stop rotating leading to loss of control which could lead to the possibility of death or serious injury.

## CAUTION

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.

The transmission gear selector is located on the right side of the vehicle. The transmission selector lever has four positions: high forward; neutral; reverse; and low forward.



Always place the transmission in gear with the

parking brake locked whenever the vehicle is left unattended. Shift linkage adjustment is important to assure proper transmission function. Should you experience any shifting problem, contact 1-800-643-7332.

**NOTE:** There is a torque converter belt used to drive the transmission. To extend belt life, use low forward gear in heavy pulling situations and in situations when you are operating below 7mph (11km/h) for extended periods of time.

#### Engine Cooling System Coolant level – Recovery bottle

Fill Location

The recovery bottle, located under the seat, must be maintained between the minimum and maximum levels indicated on the recovery bottle. Remove the seat and the coolant reservoir cap to add coolant to appropriate level.



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.

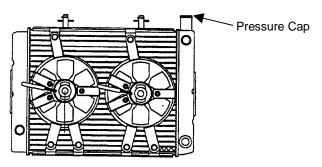
**NOTE:** Some coolant level drop on new machines is normal as the system is purging itself of trapped air. Observe coolant levels and maintain as recommended by adding coolant to the recovery bottle. We recommend the use of a 50/50 mixture of high quality aluminum compatible anti-freeze coolant and distilled water. (Always follow the anti-freeze manufacturer's mixing recommendations for the freeze protection required in your area.)

#### **Radiator Coolant Level**

If the cooling system has been drained for maintenance and/or repair, slowly add coolant as necessary through the radiator filler neck. It is recommended that the system be completely drained every two years and a fresh mixture of antifreeze and water be added so that the coolant maintains its ability to protect the engine. Use of a non-standard pressure cap will not allow the recovery system to function properly. If the cap should need replacement contact 1-800-643-7332 for the correct replacement part.

## WARNING

Never remove the pressure cap (1) when the engine is warm or hot. Escaping steam can cause severe burns. The engine must be cool before removing the pressure cap.



#### Fuel System



### WARNING

- Gasoline is highly flammable and explosive under certain conditions.
- The engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

**CAUTION:** Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See storage instructions in Section 17 "Maintenance" for additional information.

**CAUTION:** Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

#### Additional Fuel System Safety Instructions

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine turned off 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.

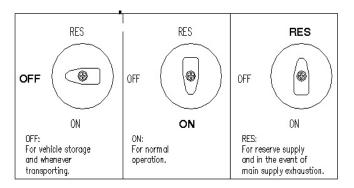
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- Shut off the fuel valve whenever the ATV is stored or parked.

The fuel tank filler cap (1) is located directly behind the handlebar. Refer to Section 19 "Specifications" for tank capacity. Use regular unleaded gasoline. The fuel valve selector is located on the left side of the front fender and has three positions:

OFF: For vehicle storage and whenever transporting.

**ON:** For normal operation.

**RES:** For reserve supply in the event of main supply exhaustion.



**NOTE:** The reserve supply has about a 6 mile /10km range of gas. Always refill the gas tank as soon as possible after having used the reserve supply. Always return valve to ON position after refueling the machine.

#### **Fuel Filter**

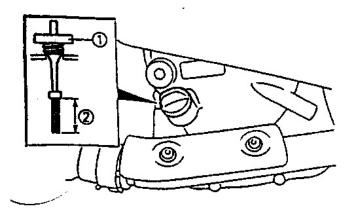
The filter should be replaced every 100 hours of operation or annually. Do not attempt to clean the fuel filter.

### Oil System



Use only SAE 15W/40 OIL. Never substitute or mix oil brands. Serious engine damage and voiding of warranty can result.

The oil fill 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 for 20-30 seconds.
- 3. Stop the engine, remove the dipstick (1) and wipe dry with a clean cloth.
- 4. Put dipstick into the oil fill hole, remove it, and read the oil level.
- 5. If the oil level is between the full and add marks (2). Add oil as indicated by the level on the dipstick. Do not overfill.

### 4-Wheel Drive System (4WD)

## 

Extremely heavy steering feel is a symptom of malfunction of the front gear case (differential). Loss of control could result, even in 2-Wheel Drive (2WD) position. If you experience any of these steering symptoms, contact 1-800-643-7332 for an authorized service dealer. Asymmetrical heavy steering is a symptom of malfunction of the inner or outer CV joints on one side of the unit. Loss of control could result, even in 2WD position. If you experience any of these steering symptoms, contact 1-800-643-7332 for an authorized service dealer.

**CAUTION:** To engage or disengage the 4WD drive system, stop the vehicle and with the engine idling, move the lever to desired position. Shifting while the vehicle is moving or the rear wheels are spinning could cause transmit ion and drive system damage.

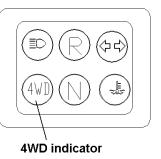
4-Wheel Drive ATVs are equipped with an electronic shift. The drive selector is located on the right handle bar of the vehicle. The selector lever has two positions: 2WD and 4WD. In 2WD (2-Wheel Drive), only rear drive is engaged. In 4WD, both rear and front drives are engaged.



The 4WD indicator will light when the front drive is engaged. After 4WD is

engaged steering effort should increase but remain balanced from left to right.

**NOTE:** When shifting to the 2WD position from 4WD, the engagement shifter may appear to return to the engaged position, however, the 4WD will be disengaged. The 4WD shifter should finally disengage when the unit is ridden on a hard surface or in reverse. The 4WD indicator light will come off when the 4WD is disengaged. If the



4WD continues to remain engaged after following these instructions, contact 1-800-643-7332 for an authorized service dealer.

**NOTE:** Heavier steering effort and feel will be experienced when 4WD is engaged.

# 9. Starting the 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.

**CAUTION:** This ATV is only equipped with an electric start system. If the battery is under-charging, the ATV will not run.

#### **Starting Procedure**

The following procedure will assure all fuel lines are full and the engine will operate properly.

- 1. Make sure that the fuel tank is at least half full (approx. 2 gallons) with fresh, clean gasoline and the fuel valve selector is in the ON position.
- 2. Sit on the vehicle. Check that the engine stop switch is in the RUN position.
- 3. Turn the key switch to ON. Hold the brake lever and place transmission in neutral. Press the engine start button. **NEVER** press the engine start button for more than 5 seconds at a time or you can flood the engine.
- 4. If the engine does not start, turn the key switch off, wait 15 seconds and repeat steps 3 and 4 two more times.
- 5. If after step 4 the engine still does not start , press and release the throttle lever 1/4 of its full travel 3 times to prime the carburetor before attempting to start the engine again.

**CAUTION:** NEVER press the throttle more than <sup>1</sup>/<sub>4</sub> of its full travel during the starting procedure. Doing so will flood the engine and cause fouling of the spark plug.

### Cold Weather Starting (less than 40° F)

Perform starting procedure steps 1 through 5.

**NOTE:** While pressing the engine start button it may be necessary to hold the throttle lever not more than ¼ of the full travel to accommodate the auto-choking system in a cold weather.

#### **REMEMBER:**

- Always double-check that the engine stop switch is in the RUN position.
- Turn the fuel valve selector to OFF when ATV is not in use or is being transported.
- Never press the engine start button for more than five seconds at a time or you can flood the engine.

## 10. Vehicle Break-in Period

## 

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 fitting engine parts.

**CAUTION:** Speed adjustment should be limited during the break-in period to a top speed of 25 MPH.

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 a new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.

- 1. Fill fuel tank with fresh, clean fuel.
- 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 a 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 Section 5 "Daily Pre-Ride Inspection".
- 6. Don't pull loads.
- 7. Change oil and filter after first 20 hours or 200 miles / 320 km.

## 11. Riding Gear

### Safe Riding Gear

ATV riding requires special protective clothing, which will make your ride more comfortable and reduces the chance 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.
- Eye Protection A pair of goggles or helmet face shield offers 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 moto-cross boots.
- 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.