

2011



POLARIS®
The Way Out.

Owner's Manual for Maintenance and Safety

OUTLAW® 525 IRS

This Category "S" (Sport) ATV is a high-performance ATV for off-road use only. It is for sport-type recreational and competitive use by operators with advanced skills and substantial experience.

Operation is prohibited for anyone under 16 years of age.

**Read this manual carefully.
It contains important safety information.**

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

A card containing important ATV safety information should be attached to the owner's manual on the next page. If you cannot locate this card, or if it has been removed, please call 1-800-342-3764 for assistance.



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⚠️ WARNING

**Improper vehicle use can result in
SEVERE INJURY or DEATH.**



**ALWAYS USE
AN APPROVED
HELMET AND
PROTECTIVE
GEAR**



**NEVER USE
ON PUBLIC
ROADS**



**NEVER CARRY
PASSENGERS**



**NEVER USE
WITH DRUGS
OR ALCOHOL**

**READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND WARNINGS.**

NEVER operate:

- without proper training or instruction
- at speeds too fast for your skills or the conditions
- on public roads - a collision can occur with another vehicle
- with a passenger - passengers affect balance and steering and increase risk of losing control

ALWAYS:

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns
- avoid paved surfaces - pavement may seriously affect handling and control



POLARIS®
The Way Out.

For your nearest Polaris dealer, call 1-800-POLARIS
or visit www.polarisindustries.com
Polaris Sales Inc., 2100 Hwy 55
Medina, MN 55340
Phone 1-888-704-5290
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The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

Printed in U.S.A.

2011 OUTLAW 525 IRS ATV Owner's Manual

P/N 9923078

Welcome

Thank you for purchasing a POLARIS vehicle, and welcome to our world-wide family of POLARIS owners. We proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- *RANGER*® utility vehicles
- Victory Motorcycles®
- Low emission vehicles (LEVs)

Welcome

We believe POLARIS sets a standard of excellence for all utility and recreational vehicles manufactured in the world today. Many years of experience have gone into the engineering, design, and development of your POLARIS vehicle, making it the finest machine we've ever produced.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance, but information about major repairs is outlined in the POLARIS Service Manual and should be performed only by a factory certified Master Service Dealer® (MSD) technician. Your POLARIS dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.

We also take great pride in our Pure POLARIS products, available through our online store at www.purepolaris.com. Have your accessories and clothing delivered right to your door!

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Introduction

Safety Words and Symbols

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.



The safety alert symbol indicates a potential personal injury hazard.

WARNING

A **WARNING** indicates a hazardous situation which, if not avoided, may result in death or serious injury.

CAUTION

A **CAUTION** indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

A **NOTICE** indicates a situation that may result in property damage.



The Prohibition Safety Sign indicates an action **NOT** to take in order to avoid a hazard.



The Mandatory Action Sign indicates an action that **NEEDS** to be taken to avoid a hazard.

Introduction

WARNING

Failure to follow the warnings and safety precautions contained in this manual can result in severe injury or death. A POLARIS ATV is not a toy and can be hazardous to operate. This vehicle handles differently than other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

- Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating a POLARIS ATV. Keep this manual with the ATV.
- Never operate an ATV without proper instruction. Take a training course.
- This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age.
- Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.

Introduction

Service Requirements

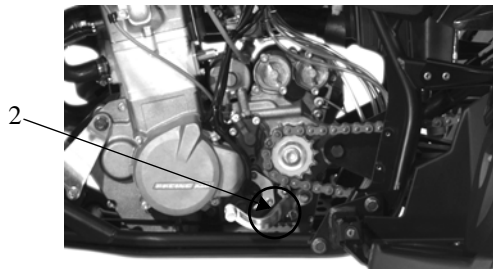
The high performance engine in your vehicle *requires* routine service to maintain the highest level of performance and reliability. Please read and follow the “Break-In Period” and “Maintenance” sections of your Owner’s Manual carefully. Failure to perform the recommended procedures at the service intervals specified in your owner’s manual will void warranty coverage and decrease the performance and reliability of your vehicle.

Vehicle Identification Numbers

Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a POLARIS key blank (using your key number) and mating it with one of your existing keys. The ignition switch must be replaced if all keys are lost.

Introduction

Vehicle Identification Numbers



Vehicle Model Number: _____

Frame Vehicle Identification Number (1): _____

Engine Serial Number (2): _____

Key Number (on the key): _____

Safety

Safety Training

ATV safety training is a top priority for POLARIS. POLARIS strongly encourages you and any family members who will be riding the ATV to take a training course.

If you purchased a new POLARIS ATV in the United States, your dealer provided information about the authorized ATV *RiderCourse*sm that is available to you and your eligible family members. This training is included in the purchase price of your ATV. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis.

If you purchased a used POLARIS ATV in the United States, you can enroll in the ATV *RiderCourse*sm for a fee. Call ATV Enrollment Express at (800) 887-2887 or visit www.atvsafety.org.

If you purchased a POLARIS ATV outside the United States, please contact your dealer or local law enforcement agencies for information about safety training.

Safety Training

A POLARIS ATV is an off-road vehicle. Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

Follow the recommended maintenance program outlined in your owner's manual. This program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals.

FOR MORE INFORMATION ABOUT ATV SAFETY in the United States, call the Consumer Product Safety Commission at 1-800-638-2772, or visit www.cpsc.gov, visit www.atvsafety.org, or call POLARIS at 1-800-342-3764.

Safety

Equipment Modifications

We are concerned for the safety of our customers and for the general public. Therefore, we strongly recommend that consumers do not install on a POLARIS ATV any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of bodily injury.

The warranty on your POLARIS ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase its speed or power.

The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Use only POLARIS-approved accessories, and familiarize yourself with their function and effect on the vehicle.

Safety

Safe Riding Gear

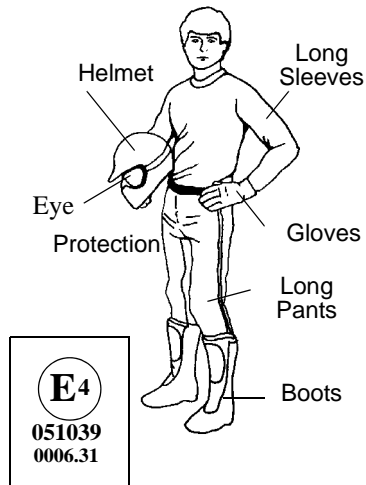
Always wear clothing suited to the type of riding. ATV riding requires special protective clothing for comfort and to reduce the chance of injury.

Helmet

Wearing a helmet can prevent a severe head injury. Whenever riding a POLARIS vehicle, always wear a helmet that meets or exceeds established safety standards.

Approved helmets in the USA and Canada bear a U.S. Department of Transportation (DOT) label.

Approved helmets in Europe, Asia and Oceania bear the ECE 22.05 label. The ECE mark consists of a circle surrounding the letter E, followed by the distinguishing number of the country which has granted approval. The approval number and serial number will also be displayed on the label.



Safety

Safe Riding Gear

Eye Protection

Do not depend on eyeglasses or sunglasses for eye protection. Whenever riding a POLARIS vehicle, always wear shatterproof goggles or use a shatterproof helmet face shield.

POLARIS recommends wearing approved Personal Protective Equipment (PPE) bearing markings such as VESC 8, V-8, Z87.1, or CE. Make sure protective eye wear is kept clean.

Gloves

Off-road style gloves with knuckle pads are the best for comfort and protection.

Boots

The best footwear is a pair of ATV-specific riding boots. If not available, wear strong over-the-calf boots with low heels.

Clothing

Always wear shoulder pads and chest protection when riding a sport ATV. Always wear long sleeves and long pants to protect arms and legs. Padded riding pants and jackets offer the best protection.

Safety Warnings

WARNING

Failure to operate the ATV properly can result in a collision, loss of control, accident or overturn, which may result in serious injury or death. Heed all safety warnings outlined in this section of the owner's manual. See the OPERATION section of the owner's manual for proper operating procedures.

Operator Restrictions/Age Restrictions

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age. This category S (Sport) ATV is a high performance vehicle intended for off road use only, for sport-type recreation and for competitive use by operators with advanced skills and substantial experience.

Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities, or judgment needed to operate an ATV safely and could be susceptible to accident or injury.



Safety

Safety Warnings

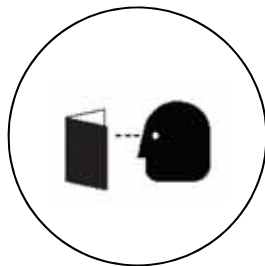
Operating Without Instruction

Operating this ATV without proper instruction increases the risk of an accident. The operator must understand how to operate the ATV properly in different situations and on different types of terrain.

Beginning and inexperienced operators should complete the ATV *RiderCourse*sm offered by POLARIS through the SVIA. They should then regularly practice the skills learned in the course and the operating techniques described in the Owner's Manual.

For more information about the ATV *RiderCourse*sm contact ATV Enrollment Express at (800) 887-2887 or visit www.atvsafety.org.

Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.



Safety Warnings

Handling Gasoline

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 overfill the tank. Do not fill the tank neck.
- If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.

Exposure to Exhaust

Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time. Never start the engine or let it run in an enclosed area.

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

Safety

Safety Warnings

Failure to Inspect Before Operating

Failure to inspect and verify that the ATV is in safe operating condition before operating increases the risk of an accident. Always inspect the ATV before each use to make sure it's in safe operating condition. Always follow all inspection and maintenance procedures and schedules described in the owner's manual.

Protective Apparel

Operating this ATV without wearing an approved helmet increases the risk of a serious head injury in the event of an accident. Operating without eye protection could result in an accident and could increase the chance of a serious injury in the event of an accident.

Always wear shoulder pads and chest protection when riding a sport ATV.

Always wear an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket and long pants.



Safety Warnings

Carrying a Passenger

Carrying a passenger greatly reduces the operator's ability to balance and control the ATV, which may result in an accident or overturn. Never carry a passenger on this ATV.



Using Alcohol or Drugs

Operating the ATV after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception. Never consume alcohol or drugs before or while operating an ATV.



Safety

Safety Warnings

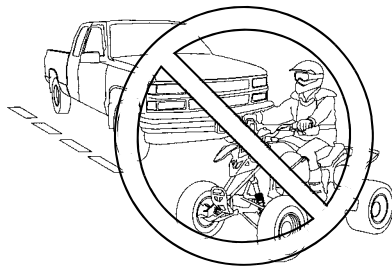
Operating on Pavement

Operating an ATV on paved surfaces (including sidewalks, paths, parking lots and driveways) may adversely affect the handling of the ATV and could result in loss of control and accident or overturn. Avoid operating the ATV on pavement. ATV tires are designed for off-road use. If it's unavoidable, travel slowly and avoid sudden turns or stops.



Operating on Public Roads

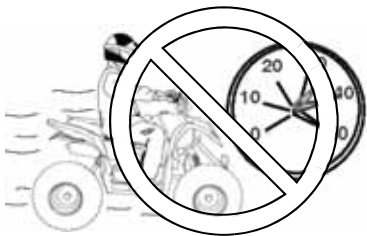
Operating this ATV on public streets, roads or highways could result in a collision with another vehicle. Never operate the ATV on any public street, road or highway, including dirt and gravel roads. In many states it's unlawful to operate ATVs on public streets, roads and highways.



Safety Warnings

Operating at Excessive Speeds

Operating the ATV at excessive speeds increases the operator's risk of losing control. Always operate at a speed that's appropriate for the terrain, the visibility and operating conditions, and your experience.



Physical Control of the ATV

Removing a hand from the handlebars or feet from the footpegs during operation can reduce your ability to control the vehicle or cause loss of balance and ejection from the ATV. If the operator's foot is not firmly planted on the footpeg, it could also contact the rear wheels.

Never remove your hands from the handlebars while operating, and always keep both feet on the footpegs.



Safety

Safety Warnings

Turning Improperly

Turning improperly could cause loss of traction, loss of control, accident or overturn. Always follow proper procedures for turning as described in the owner's manual.

Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow speeds before attempting to turn at faster speeds.

Jumps and Stunts

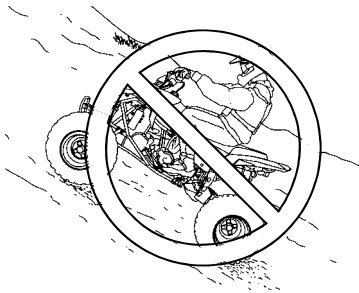
Attempting wheelies, jumps and other stunts increases the risk of an accident or overturn. Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.



Safety Warnings

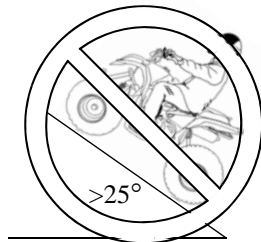
Improper Hill Climbing

Improper hill climbing could cause loss of control or overturn. Always follow proper procedures for climbing hills as described in the owner's manual. See page 72.



Operating on Steep Hills

Operating on excessively steep hills could cause an overturn. Never operate on hills too steep for the ATV or for your abilities. Never operate the ATV on hills steeper than 25 degrees.



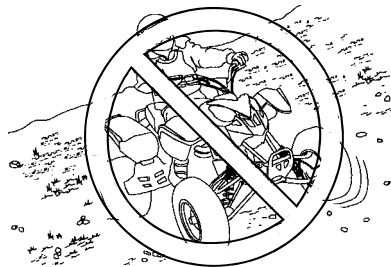
Safety

Safety Warnings

Descending Hills Improperly

Improperly descending a hill could cause loss of control or overturn.

- Always follow proper procedures for traveling down hills as described in the owner's manual. **NOTE:** A special technique is required when braking while traveling downhill. See page 75.
- Always descend a hill with the transmission in forward gear. Do not descend a hill with the transmission in neutral.
- Always check the terrain carefully before descending a hill.
- Shift your weight rearward.
- Never travel down a hill at high speed.
- Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.



Safety Warnings

Crossing Hillsides

Driving on a sidehill is not recommended. Improper procedure could cause loss of control or overturn. Avoid crossing the side of any hill unless absolutely necessary.

If crossing a hillside is unavoidable, always follow proper procedures as described in the owner's manual. See page 74.

Never attempt to turn the ATV around on any hill until you've mastered the turning technique (on level ground) as described in the owner's manual. See page 76.



Safety

Safety Warnings

Stalling While Climbing a Hill

Stalling, rolling backwards or improperly dismounting while climbing a hill could cause an overturn.

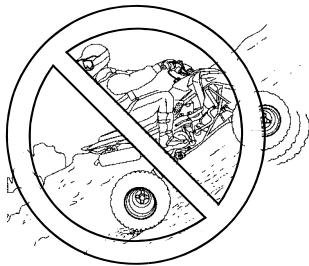
Always maintain a steady speed when climbing a hill.

If all forward speed is lost

Keep body weight uphill. Apply the front brakes gradually (right lever). When fully stopped, apply the foot brake as well, and then lock the parking brake.

If the ATV begins rolling downhill:

Keep weight uphill. Never apply engine power. Never apply the rear brake while rolling backwards. Apply the front brake slowly. When fully stopped, apply the rear brake as well, and then lock the parking brake. Dismount on uphill side, or to either side if ATV is pointed straight uphill. Turn the ATV around and remount, following the procedure described in the owner's manual. See page 76.



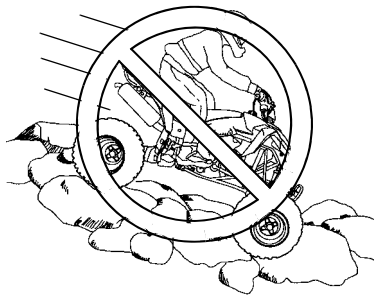
Safety Warnings

Operating on Slippery Terrain

Failure to use extra caution when operating on excessively rough, slippery or loose terrain could cause loss of traction, loss of control, accident or overturn.

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

Always use extra caution on rough, slippery or loose terrain.



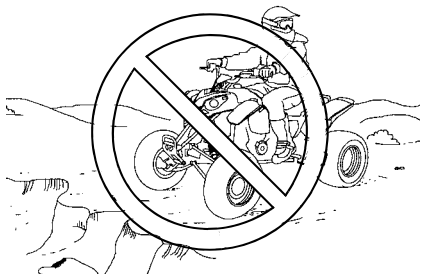
Safety

Safety Warnings

Operating in Unfamiliar Terrain

Failure to use extra caution when operating on unfamiliar terrain could result in an accident or overturn. Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.



Operating Improperly in Reverse

Improperly operating in reverse could result in a collision with an obstacle or person. Always follow proper operating procedures as outlined in this manual. See page 82.

Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it's safe to proceed, back slowly.

Improper Tire Maintenance

Operating this ATV with improper tires or with improper or uneven tire pressure could cause loss of control or accident.

Always use the size and type of tires specified for your ATV. Always maintain proper tire pressure as described in the owner's manual and on safety labels.

Safety Warnings

Improper Vehicle Modifications

Improper installation of accessories or modification of the ATV may cause changes in handling, which could cause loss of control or an accident.

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine POLARIS Industries Inc. or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. See your authorized POLARIS ATV dealer for more information.

Operating Over Obstacles

Improperly operating over obstacles could cause loss of control or overturn.

Before operating in a new area, check for obstacles. Avoid operating over large obstacles such as rocks and fallen trees. If unavoidable, use extreme caution and always follow proper operating procedures as outlined in this manual. See page 79.

Skidding or Sliding

Skidding or sliding can cause loss of control or overturn (if tires regain traction unexpectedly). On slippery surfaces such as ice, travel slowly and use extra caution to reduce the chance of skidding or sliding.

Safety

Safety Warnings

Operating Through Deep Water

Operating the ATV through deep or fast-flowing water could cause the tires to float, causing loss of control or overturn. Avoid operating through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the height of the footpegs:

- Travel slowly.
- Balance your weight carefully.
- Avoid 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. After leaving water, test the brakes. Apply them lightly several times while driving. The friction will help dry out the pads.

Safety Warnings

Poor Visibility

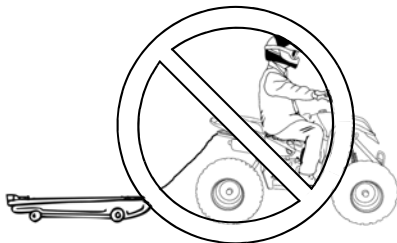
Operating the ATV in darkness or inclement weather could result in a collision or accident, especially if operating on a road or street. This ATV is not equipped with highway-approved lights. Operate this vehicle off-road only. Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness. Clean headlights frequently and replace burned out headlamps promptly.

Improper Cargo Loading

Overloading the ATV or carrying/towing cargo may cause changes in handling, which could cause loss of control or an accident. Never haul cargo or tow a load with this ATV.

Never tow or pull an object behind the ATV. A wagon, sled or other towed object does not have brakes or steering. The object may overturn or collide with other objects.

Never exceed the stated load capacity for this ATV.



Safety

Safety Warnings

Operating on Frozen Bodies of Water

Operating on frozen bodies of water may result in serious injury or death if the ATV and/or the operator fall through the ice.

Never operate the ATV on a frozen body of water unless you have independently verified that the ice is sufficiently thick to support the weight and moving force of the ATV, you and your cargo, together with any other vehicles in your party. Variances in snow depth and/or water currents may result in uneven ice thickness. Always check with local authorities and residents to confirm ice conditions and thickness over your entire route. ATV operators assume all risk associated with ice conditions on frozen bodies of water.

Operating a Damaged ATV

Operating a damaged ATV can result in an accident. After any overturn or accident, have a qualified service dealer inspect the entire machine for possible damage, including (but not limited to) brakes, throttle and steering systems.

Physical Skills

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 overturn and loss of control.

Safety Warnings

Hot Exhaust Systems

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, especially dry grass.

Unauthorized Use of the ATV

Leaving the keys in the ignition can lead to unauthorized use of the vehicle, which could result in an accident or overturn. Always remove the ignition key when the vehicle is not in use.

Safety

Safety Labels and Locations

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions on each label carefully. If any of the labels shown in this manual differ from the labels on your vehicle, always read and follow the instructions of the labels on the vehicle.

If an informational or graphic label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement.

Replacement *safety* labels are provided by POLARIS at no charge. The part number is printed on the label.



Safety Labels and Locations

General Warning

WARNING

Improper ATV use can result in SEVERE INJURY OR DEATH.

Always use an approved helmet and protective gear. Never use on public roads. Never carry passengers. Never use with drugs or alcohol.

NEVER operate:

- without proper training or instruction
- at speeds too fast for your skills or the conditions
- on public roads - a collision can occur with another vehicle
- with a passenger - passengers affect balance and steering and increase risk of losing control

ALWAYS:

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns
- avoid paved surfaces - pavement may seriously affect handling and control.

LOCATE AND READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND
WARNINGS.

7175376

Safety

Safety Labels and Locations

Age 16 Warning

WARNING

Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age 16.

7175374

Discretionary/Sport ATV Warning

WARNING

- Never operate this ATV on HILLS steeper than 25 degrees \angle 25°. To prevent overturn on hilly terrain, use throttle and brakes gradually and shift weight uphill.
- REVERSE operation can be dangerous even at low speeds. Steering becomes difficult. To prevent loss of control, avoid sudden braking or sharp turns.

This ATV may exceed the performance of other ATVs you may have ridden in the past. This category S (Sport) ATV is a high performance vehicle for off-road use only, in sport type recreation and competitive use by operators with advanced skills and substantial experience.

7175637

Safety Labels and Locations

No Passenger Warning

WARNING

NEVER ride as a passenger.

Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.

7175378

Tire Pressure/Load Warning

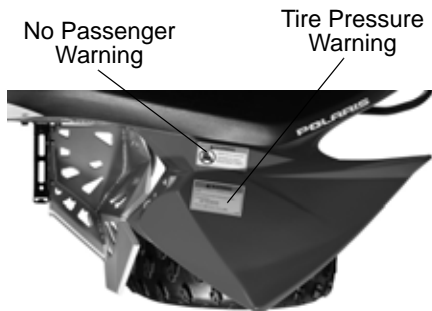
WARNING

Improper tire pressure or overloading can cause loss of control.

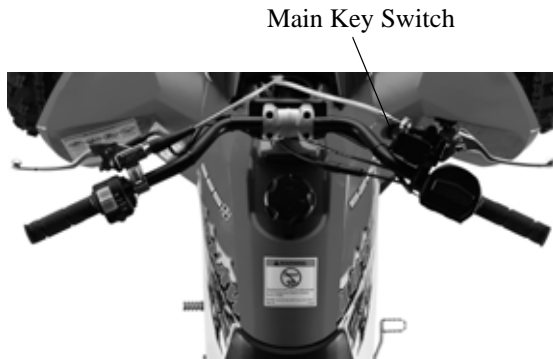
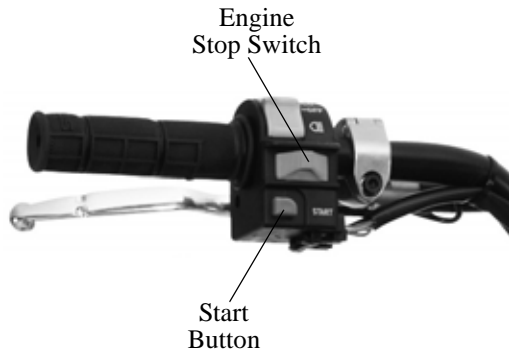
Loss of control can result in severe injury or death.

- Cold tire pressure:
Front: 4.0 psi (27.6 kPa)
Rear: 4.0 psi (27.6 kPa)
- Maximum Weight Capacity 215 lbs. (98 kg)

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Features and Controls



Features and Controls

Main Key Switch

The main key switch must be in the RUN position to start the engine. See page 66 for starting procedures.

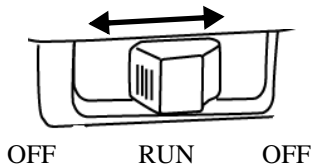
Start Button

Press the start button to engage the starter. Always release the start button promptly when the engine starts. If the starter fails to engage, replace the blown fuse or see your POLARIS dealer.

Engine Stop Switch

Move the stop switch either left or right to the OFF position to stop the engine quickly. The engine will not start or run when the switch is off.

Both the main switch and the engine stop switch will shut off all electrical power to the vehicle, including lights.



Features and Controls

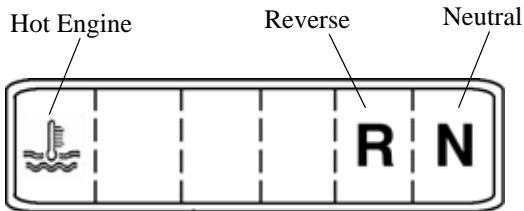
Lights

Indicator Lights

An illuminated light in the indicator window will alert you to the following conditions.

- Hot engine
- Reverse gear is selected
- Neutral gear is selected

If indicator lights fail to operate, check connections. See your POLARIS dealer for inspection of the capacitor and voltage regulator.



Features and Controls

Lights

Headlights

Use the headlight switch to turn the lights on and off and to switch the lights from high beam to low beam. The key must be in the ON position and the engine stop switch must be in the RUN position to operate the headlights.



Features and Controls

Clutch Lever

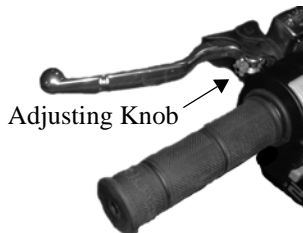
The hydraulic clutch lever is located on the left handlebar. Squeeze the clutch lever toward the handlebar to disengage the clutch. Disengage the clutch before shifting gears.

The clutch is self-adjusting, but lever position can be changed to fit the operator's hand. Turn the adjusting knob counterclockwise to move the lever closer to the handlebar. Turn the adjusting knob clockwise to move the lever away from the handlebar.

The adjustment range is limited. Never apply excessive force to the knob. Always turn the knob manually.

Always check the lever for smooth operation before riding. If the lever does not operate smoothly, check the fluid level at the master cylinder. See page 43.

If the lever begins to feel unresponsive, bleed the clutch system as outlined on page 140.



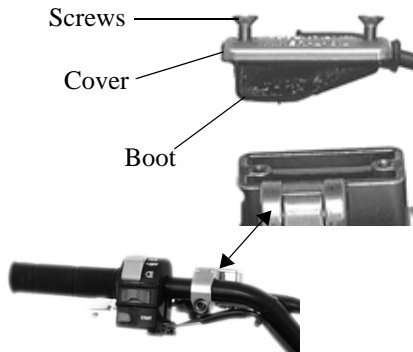
Features and Controls

Clutch Fluid

The clutch fluid master cylinder is located on the left handlebar. Check the fluid level in the reservoir before each ride. The level should be 4mm below the upper edge of the reservoir. Do not overfill.

POLARIS recommends the use of KTM Hydraulic Clutch Oil. *Do not use brake fluid. Do not mix clutch fluid with any other hydraulic fluids.* See page 170 for the part numbers of POLARIS products.

1. Position the vehicle on a level surface.
2. Turn the handlebar until the master cylinder is in a horizontal position.
3. Remove the two cover screws, the cover and the rubber boot.
4. Add the recommended fluid as needed.
5. Reinstall the cover, boot and screws securely.



Features and Controls

Throttle Lever

WARNING

Operating an ATV with sticking or improperly operating throttle controls could cause an accident. Never start or operate an ATV that has a sticking or improperly operating throttle. Always contact your dealer for service before operating the vehicle.

Failure to check or maintain proper operation of the throttle system can result in an accident if the throttle lever sticks during operation. Always check the lever for free movement and return before starting the engine. Also check occasionally during operation.

Modifications to the electronic throttle control could result in failure to perform as designed, which could result in an accident. Do not attempt to modify the throttle control system or replace it with any after market throttle mechanisms. Always ensure that the throttle cable is properly installed to the throttle control.

Features and Controls

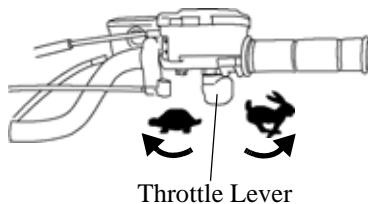
Throttle Lever

The throttle lever is located on the right handlebar. Squeeze the lever toward the handlebar to increase engine speed and vehicle movement.

Fuel is injected into the intake passage each time throttle is applied. Do not squeeze the throttle lever while starting the engine. Do not squeeze the throttle lever when the engine is stopped.

Engine speed returns to idle when the lever is released. See page 143 for throttle adjustment procedures.

This ATV is equipped with an Electronic Throttle Control (ETC), which is designed to reduce the risk of a frozen or stuck throttle. If the throttle cable should stick in an open position when the operator releases the throttle lever, the engine will stop.



Features and Controls

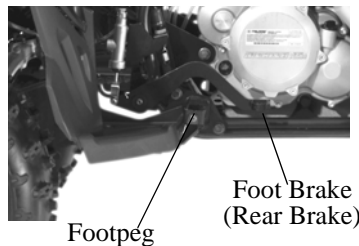
Foot Brake

The foot brake operates the rear brakes. The brake pedal is located in front of the right-hand footpeg. If the rear wheels slide while using the foot brake, reduce brake pedal pressure to brake the wheels without skidding.

Check the brake fluid level frequently for the foot brake system. The reservoir is located under the seat. Maintain the fluid level between the minimum and maximum marks.

Check the rear brake light for proper operation before each use of the vehicle. See page 119.

WARNING! Aggressively applying the foot brake when backing down a hill may cause rear tipover, which could result in serious injury or death. Never back down a hill. Use caution when applying the foot brake. Do not aggressively apply the foot brake when going forward. The rear wheels may skid and slide sideways, causing loss of control.



Features and Controls

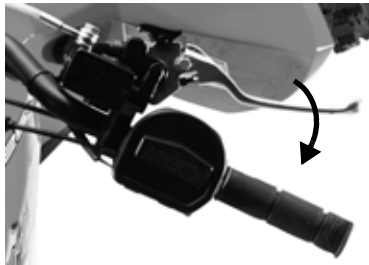
Hand Brake

The hand brake operates the front brakes. The hand brake is located on the right handlebar. These brakes are hydraulically activated disc type brakes. Squeeze the brake lever toward the handlebar to engage the front brakes.

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

WARNING! Operating the ATV with a spongy brake lever can result in loss of braking, which could cause an accident. Never operate the ATV with a spongy-feeling brake lever. Always contact your dealer for service before operating the vehicle.

Hand Brake (Front Brake)



Features and Controls

Master Cylinder/Brake Fluid

WARNING

An over-full master cylinder may cause brake drag or brake lock-up, which could result in an accident. Maintain brake fluid at the recommended level. Do not overfill.

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of brake failure, which could result in an accident. After opening a bottle of brake fluid, always discard any unused portion.

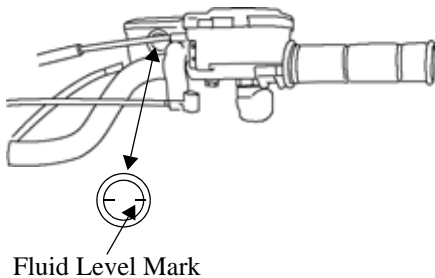
Features and Controls

Master Cylinder/Brake Fluid

Check the brake fluid in the master cylinder before each ride. If the fluid level is low add DOT 4 brake fluid only. Do not overfill. See page 170 for the part numbers of POLARIS products.

Hand Brake Fluid Level

1. Position the ATV on a level surface. Position the handlebars so the master cylinder is level.
2. View the fluid level through the indicator window on the side of the master cylinder.
3. Maintain the fluid level at or slightly above the mark near the center of the sight glass. Do not overfill.



Foot Brake Fluid Level

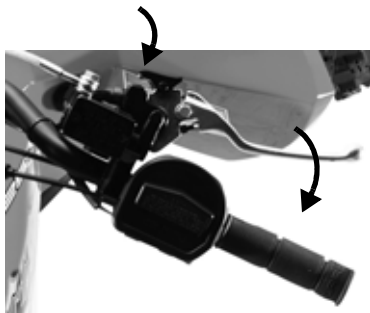
1. Position the ATV on a level surface.
2. Remove the seat and view the fluid level in the reservoir. Maintain the fluid level between the maximum and minimum marks.

Features and Controls

Parking Brake

1. Place the transmission in first gear.
2. Squeeze and release the brake lever two or three times, then squeeze and hold.
3. Push the parking brake lock inward to engage the lock. Release the brake lever.
4. To release the parking brake lock, squeeze and release the brake lever. The lock will automatically disengage.

WARNING! Operating the ATV while the parking brake is engaged could result in an accident. Always check to be sure the parking brake is disengaged before operating.



Features and Controls

Parking Brake

The parking brake may relax if left on for a long period of time. Always block the wheels to prevent rolling. Always block the wheels on the downhill side of the ATV if leaving it parked on a hill. Another option is to park the ATV in a sidehill position.

Never depend on the parking brake alone if the ATV is parked on a hill. Always block the wheels to prevent rolling.

Place the transmission in first gear before locking the parking brake.

Features and Controls

Manual Shift

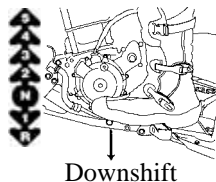
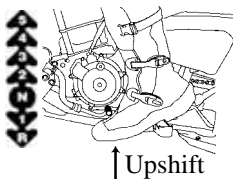
Shift Pedal

The gear shift pedal is located in front of the left-hand footpeg. One full stroke of the pedal shifts the transmission to the next gear in the shifting sequence. The pedal automatically returns to a horizontal position when released.

To upshift to a higher gear, place the toe of your boot under the gear shift pedal and raise the pedal one full stroke.

To downshift, place your foot on the gear shift pedal and depress the pedal one full stroke. See page 53.

To shift into reverse, see page 54.



Features and Controls

Manual Shift

Shifting Gears

Always allow a cold engine to warm up before shifting gears.

1. When starting from a stopped position, place the transmission in neutral.
2. Squeeze and hold the brake lever. Do not apply throttle.
3. Squeeze the clutch lever to disengage the clutch.
4. Depress the gear shift pedal one full stroke to shift into first gear.
5. Release the brake lever.
6. Gradually squeeze the throttle lever while slowly releasing the clutch lever.
7. As engine speed (RPM) increases in first gear, simultaneously release the throttle, disengage the clutch and shift to second gear by raising the gear shift pedal one full stroke. Repeat this procedure to progressively upshift to additional gears.

WARNING! Shifting without releasing the throttle and disengaging the clutch could cause loss of control or vehicle overturn. Always release the throttle and fully squeeze the clutch lever while shifting gears.

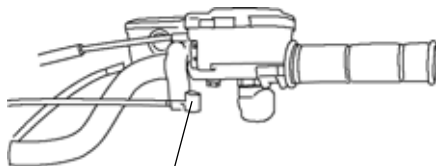
Features and Controls

Manual Shift

Reverse Lock-Out Switch

The reverse lock-out switch prevents the operator from shifting into reverse unintentionally. The switch must be manually unlocked before shifting into reverse gear. The lock will automatically re-engage when the transmission is shifted out of reverse gear.

1. Place the transmission in first gear. See page 52.
2. Push the lock-out lever forward toward the handlebar to unlock the transmission.
3. Shift down into reverse gear.



Lock-Out Lever

Features and Controls

Manual Shift

Deceleration

To slow or stop the vehicle, release the throttle lever and apply the brakes smoothly and evenly. As the vehicle slows and engine RPM decreases, disengage the clutch and shift to a lower gear. Be sure the engine RPM has sufficiently decreased before shifting to a lower gear.

WARNING! Improper use of the brakes or shifting when the engine speed is too high can cause the tires to lose traction or stop rotating, which could result in loss of control.

NOTICE: Shifting when engine speed is too high can also cause engine and drive train damage.

Features and Controls

Choke

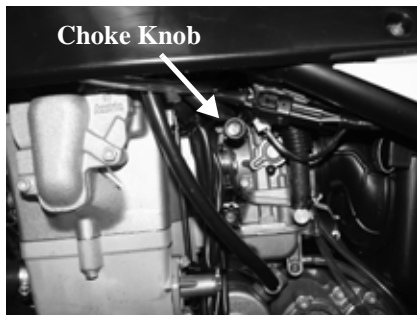
The choke assists in starting a cold engine. The choke knob is located on the left side of the carburetor. Refer to the engine starting procedure on page 66 for correct choke and throttle settings during starting.

Fuel Tank

The fuel tank filler cap is located directly below the handlebar. POLARIS recommends the use of 91 octane or higher fuel. *Do not use fuel with ethanol content greater than 10 percent, such as E-85 fuel.*

Fuel Filters

The fuel pick-ups have internal fuel filters. Do not attempt to clean the fuel filters. See your POLARIS dealer for service if you suspect the fuel filters are plugged.



Features and Controls

Fuel Valve

The fuel valve is located on the right side of the ATV. It has three positions:

OFF: For vehicle storage and when transporting. Turn the fuel valve off whenever the vehicle is stored or parked.

ON: For normal operation.

RES: For reserve supply if main supply is exhausted. There's about a 5 to 8 mile (8 to 13 km) range on reserve gas. Always refill the gas tank as soon as possible after using the main supply. Always return the valve to the ON position after refueling.



Operation

WARNING

Failure to operate the ATV properly can result in a collision, loss of control, accident or overturn, which may result in serious injury or death. Read and understand all safety warnings outlined in the safety section of this owner's manual.

Break-In Period

The break-in period for your new POLARIS ATV is the first three hours of operation, or the time it takes to use 5-6 gallons (20 liters) of fuel. No single action on your part is as important as following the procedures for a proper break-in. Careful treatment of a new engine and transmission will result in more efficient performance and longer life for both.

Do not allow engine speed to exceed 7000 RPM during the break-in period. Follow the break-in period with an additional 12 hours of cautious operation, with engine speed below 75% of capacity.

NOTICE: Failure to perform the recommended break-in maintenance can result in serious engine damage.

Break-In Period

Perform the following break-in and maintenance procedures carefully.

1. Fill the fuel tank with gasoline. Always exercise extreme caution whenever handling gasoline.
2. Check the oil level. Add the recommended oil as needed to maintain the oil level in the proper range. See page 97.
3. Allow the engine sufficient time to warm up before operating.
4. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
5. Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts. Do not allow engine speed to exceed 7000 RPM during the first three hours of use.
6. Vary throttle positions. Do not operate at sustained idle.
7. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 60.
8. At the end of the break-in period (3 hours), change the engine oil and the long and short oil filters. See page 98. Clean the oil screen and drain plug magnet.

Operation

Pre-Ride Inspection

Failure to inspect and verify that the ATV is in safe operating condition before operating increases the risk of an accident. Always inspect the ATV before each use to make sure it's in safe operating condition.

Pre-Ride Checklist		Page
Brake systems / lever travel	Ensure proper operation	46-51 144-145
Brake fluid	Ensure proper level	48
Clutch lever	Check for proper operation and adjustment	42
Clutch fluid	Ensure proper level	43
Suspension, front and rear	Inspect, lubricate if necessary	92
Steering	Check for free operation/loose components	--
Frame nuts, bolts, fasteners	Inspect, ensure tightness	--
Fuel and oil	Ensure proper levels	56, 97

Pre-Ride Inspection

Pre-Ride Checklist		Page
Coolant (if applicable)	Ensure proper level	107
Coolant hoses (if applicable)	Inspect for leaks	--
Throttle	Ensure smooth operation	44
Indicator lights / switches	Ensure operation	40, 41
Engine stop switch	Ensure proper operation	39
Air filter	Inspect, clean, replace as needed	110
Air box sediment tubes	Drain deposits when visible	--
Headlamp	Check operation, apply POLARIS dielectric grease to the socket when the lamp is replaced	117
Brake light / tail lamp	Check operation, adjust brake light switch	119
Riding gear	Wear helmet, goggles, protective clothing	13
A-arm ball joints	Check freeplay. If the tire moves excessively, do not operate. See your POLARIS dealer.	--
Rear shaft assembly	Check boots for tears, punctures and grease leaks	138

Operation

Safe Operation Practices

1. Complete the recommended safety training before operating this vehicle. See page 10.
2. Do not allow anyone under 16 years of age to operate this vehicle. Do not allow anyone with cognitive or physical disabilities to operate this vehicle.
3. Never carry a passenger on this ATV.
4. Engine exhaust fumes are poisonous. Never start the engine or let it run in an enclosed area.
5. Operate this vehicle off-road only. Never operate the vehicle on pavement or on any public street, road or highway, including dirt and gravel roads.
6. Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness. Clean headlights frequently and replace burned out headlamps promptly.
7. Never exceed the maximum weight capacity of the vehicle. When determining the weight you are adding to the vehicle, include the weight of the operator, accessories, loads on the racks (if equipped) and the load on the trailer tongue (if equipped). The combined weight of these items must not exceed the maximum weight capacity.

Safe Operation Practices

8. Drive in a manner appropriate for your skills and operating conditions. Never operate at excessive speeds. Never attempt wheelies, jumps, or other stunts. Never remove your hands from the handlebars while operating, and always keep both feet on the footpegs.
9. Never consume alcohol or drugs before or while operating an ATV.
10. Always remove the ignition key when the vehicle is not in use to prevent unauthorized use.
11. Always use the size and type of tires specified for your vehicle. Always maintain proper tire pressure.
12. Never operate a damaged ATV. After any overturn or accident, have a qualified service dealer inspect the entire machine for possible damage.
13. Never operate the ATV on a frozen body of water unless you have independently verified that the ice is sufficiently thick to support the weight and moving force of the ATV, you and your cargo, together with any other vehicles in your party.
14. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.

Operation

Know Your Riding Area/Tread Lightly

Familiarize yourself with all laws and regulations concerning the operation of this off-road vehicle in your area. Respect the environment in which you ride. Find out where the designated riding areas are by contacting your POLARIS dealer, a local riding club or local officials.

Help keep our trails open for recreational vehicle use. As an off-road enthusiast, you represent the sport and can set a good example (or a poor example) for others to follow. Tread lightly. Operate with respect for the terrain, avoid littering, and always stay on the designated trails.

Trail Etiquette

Always practice good etiquette when riding. Allow a safe distance between your vehicle and other vehicles operating in the same area. Communicate to oncoming operators by signaling the number of vehicles in your group. When stopping, move your vehicle to the edge of the trail as far as possible to allow others to pass safely.

Operation

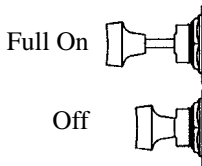
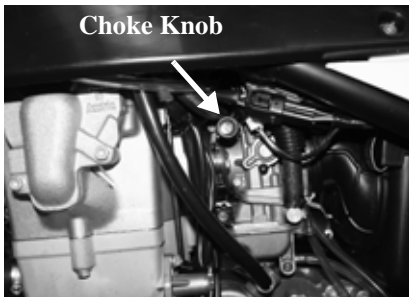
Starting the Engine

The engine can be started when the transmission is in neutral, or while in gear if the clutch is disengaged. If starting a warm engine, do not use the choke.

Fuel is injected into the intake passage each time the throttle lever is depressed. Do not depress the throttle lever while starting the engine. Do not depress the throttle lever when the engine is stopped.

NOTICE: Operating the ATV immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating.

1. Shift the transmission to neutral.
2. Lock the parking brake. Turn the fuel valve on.
3. Sit on the vehicle. Disengage the clutch.
4. If the engine is cold, pull the choke knob out until it stops. Do not use the choke if starting a warm engine.



Starting the Engine

5. Move the engine stop switch to the RUN position. Turn the ignition key to ON.
6. If starting the engine while in gear, apply the hand brake and squeeze the clutch lever fully to disengage the clutch. If starting the engine while in neutral, the neutral indicator light should be on. If it isn't, disengage the clutch and shift the foot pedal to find neutral. See page 52.
7. Do not apply throttle. Press the start button to start the engine. Activate the starter for a maximum of five seconds. Release the start button immediately when the engine starts.

NOTICE: Excessive engagement may result in starter damage.

8. If the engine does not start, wait five seconds after releasing the start button, then activate the starter for another five seconds. Repeat until the engine starts. If the engine does not start, review the engine troubleshooting information beginning on page 172. If all conditions are favorable and the engine still does not start, see your POLARIS dealer for service.
9. Push the choke knob completely in. Vary engine speed slightly with the throttle to aid in warm-up.

Operation

Driving Procedure

1. Wear a helmet and eye protection.
2. Sit upright with both feet on the footpegs and both hands on the handlebars.
3. Start the engine and allow it to warm up.
4. Shift the transmission into gear. See page 52.
5. Check your surroundings and determine your path of travel.
6. Release the parking brake.
7. Slowly depress the throttle with your right thumb while slowly releasing the clutch lever to begin driving.
8. Drive slowly. Practice maneuvering and using the throttle, clutch and brakes on level surfaces.



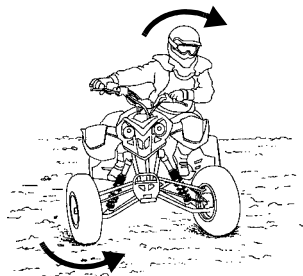
Making Turns

Your ATV is equipped with a solid rear axle, which drives both rear wheels equally at all times. The wheel on the outside of the turn travels a greater distance than the inside wheel when turning, and the inside tire slips 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 footpeg. 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.

Practice making turns at slow speeds before attempting to turn at faster speeds.

WARNING! Turning improperly can result in vehicle overturn. Never turn abruptly or at sharp angles. Never turn at high speeds.

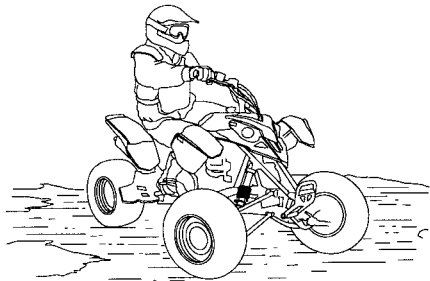


Operation

Driving on Slippery Surfaces

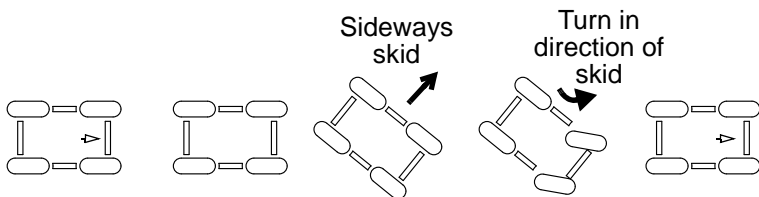
Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

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.



Driving on Slippery Surfaces

4. Never apply the brakes during a skid. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.

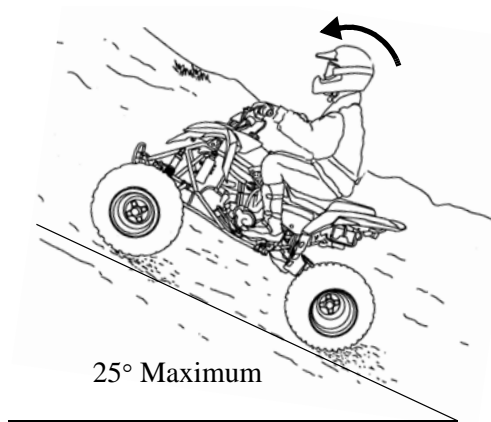


Operation

Driving Uphill

Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or overturn. Whenever traveling uphill, follow these precautions:

1. Drive straight uphill.
2. Avoid steep hills (25° maximum).
3. Always check the terrain carefully before ascending any hill.
4. Never climb hills with excessively slippery or loose surfaces.



Driving Uphill

5. Keep both feet on the footpegs.
6. Shift body weight uphill.
7. Proceed at a steady rate of speed and throttle opening. Opening the throttle suddenly could cause the ATV to flip over backwards.
8. Never back down a hill.

WARNING! Aggressively applying the foot brake when backing down a hill may cause rear tipover.

9. 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.
10. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.

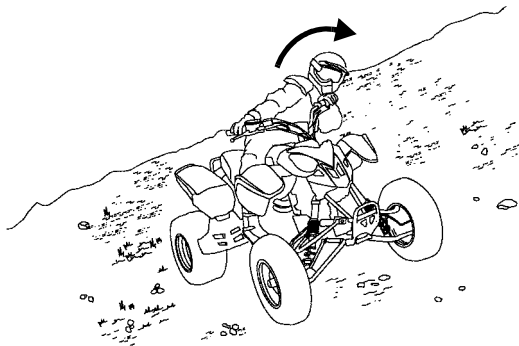
Operation

Driving on a Sidehill (Sidehilling)

Driving on a sidehill is not recommended. Improper procedure could cause loss of control or overturn. Avoid crossing the side of any hill unless absolutely necessary.

If crossing a sidehill is *unavoidable*, follow these precautions:

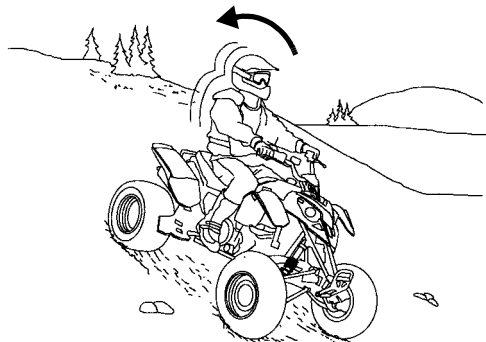
1. Slow down.
2. Lean into the hill, transferring your upper body weight uphill while keeping your feet on the footpegs.
3. If the vehicle begins to slide or tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side *immediately*!



Driving Downhill

Whenever descending a hill, follow these precautions:

1. Avoid steep hills (25° maximum).
2. Shift body weight uphill. Transfer your weight to the rear of the vehicle.
3. Drive straight downhill.
4. Slow down. Excessive speed when traveling downhill can cause loss of control.
5. Shift to the lowest gear possible while maintaining a safe speed.
6. Do not apply the brakes abruptly when driving downhill. Apply the foot brake *slightly* to aid in slowing.



Operation

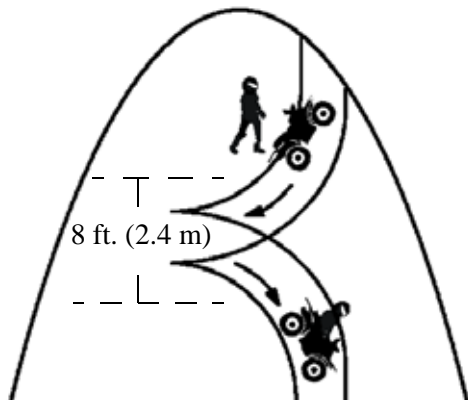
Turning Around on a Hill

If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-turn to turn around:

1. Keep your body weight uphill.
2. Pull in the clutch lever and apply the front and rear brakes.
3. When completely stopped, shut off the engine. Leaving the transmission in gear, release the clutch lever and lock the parking brake.
4. Dismount on the uphill side of the vehicle, or on the left side if the vehicle is pointing straight uphill.
5. Staying uphill of the ATV, turn the handlebars full left.
6. Reach across the handlebar and apply the front brakes to unlock the parking brake.

Turning Around on a Hill

7. With the front brakes applied, pull in the clutch lever. Use the brakes to slowly allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.
8. With the front brakes still applied, release the clutch lever and lock the parking brake. Remount from the uphill side, keeping body weight uphill.
9. Pull in the clutch lever, shift into neutral and restart the engine.
10. Release the parking brake and slowly release the clutch lever, allowing the ATV to proceed slowly. Stay in first gear, using the brakes for additional speed control if necessary, until more level ground is reached.
11. Follow proper procedures for driving downhill. See page 75.

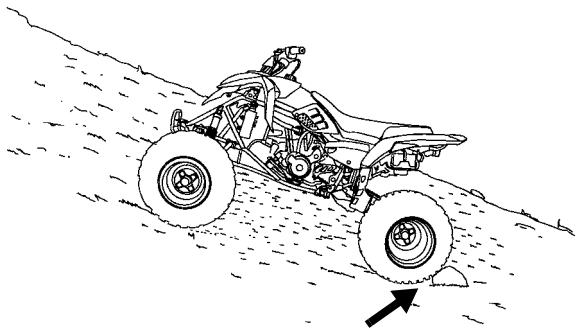


Operation

Parking on a Hill or Incline

Avoid parking on a hill or incline if possible. If it's unavoidable, follow these precautions:

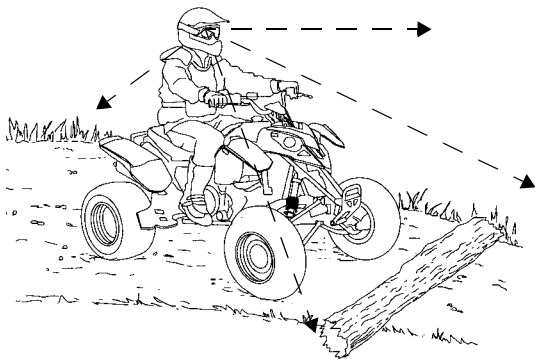
1. Turn the engine off.
2. Place the transmission in first gear.
3. Lock the parking brake.
4. Always block the rear wheels on the downhill side. See illustration.
5. Turn the fuel valve off.



Driving Over Obstacles

Follow these precautions when operating over obstacles:

1. Always check for obstacles before operating in a new area.
2. Look ahead and learn to read the terrain. Be constantly alert for hazards such as logs, rocks and low hanging branches.
3. Travel slowly and use extra caution when operating on unfamiliar terrain. Not all obstacles are immediately visible.
4. Never attempt to operate over large obstacles, such as rocks or fallen trees.



Operation

Driving Through Water

POLARIS does not recommend operating in water deeper than the height of the footpegs. Follow these procedures when operating through water:

1. Determine water depth and current before entering water.
2. Choose a crossing where the water level is lowest and where both banks have gradual inclines.
3. Avoid operating through deep or fast-flowing water.



Maximum Depth

Driving Through Water

NOTICE: Serious engine damage can result if the vehicle is not thoroughly inspected after operating in water deeper than the footpeg level. As soon as possible, perform the inspections and maintenance services outlined in the periodic maintenance chart beginning on page 85. Engine oil and all grease fittings need special attention.

If the vehicle tips or overturns in water, or if the engine stops during or after operating in water, restarting can result in serious engine damage. Transport the vehicle to your dealer for service before restarting the engine. If this is not possible, follow the vehicle immersion inspection and drying procedures outlined on page 126, then see your dealer for service at the first opportunity.

4. After leaving water, test the brakes. Apply them lightly several times while driving. The friction will help dry out the pads.

If it's unavoidable to enter water deeper than the footpeg level:

- Proceed slowly. Avoid rocks and obstacles.
- Balance your weight carefully. Avoid sudden movements.
- Maintain a steady rate of speed. Do not make sudden turns or stops. Do not make sudden throttle changes.

Operation

Driving in Reverse

Follow these precautions when operating in reverse:

1. Always check for obstacles or people behind the vehicle.
2. Always avoid backing downhill.
3. Back slowly.
4. Apply the brakes *lightly* for stopping.
5. Avoid turning at sharp angles.
6. Never open the throttle suddenly while backing. Do not operate at full throttle. Use just enough throttle to maintain a desired speed.
7. Always look left, right and behind the ATV before backing.

NOTICE: Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.



Emission Control Systems

Noise Emission Control System

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with U.S.A. EPA noise control requirements (40 CFR 205) and local noise level requirements.

Operation on Public Lands in the U.S.A.

Your POLARIS vehicle has a spark arrestor that was tested and qualified to be in accordance with the USFS standard 5100-1c. Federal law requires that this spark arrestor be installed and functional when the vehicle is operated on public lands.

Operation of off-road vehicles on public lands in the U.S.A. is regulated by 43 CFR 420. Violations are subject to monetary penalties. Federal regulations can be viewed online at www.gpoaccess.gov/ecfr/.

Crankcase Emission Control System

This engine is equipped with a closed crankcase system. Blow-by gases are forced back to the combustion chamber by the intake system. All exhaust gases exit through the exhaust system.

Emission Control Systems

Exhaust Emission Control System

The emissions from the exhaust of this vehicle are controlled by engine design, including factory-set fuel delivery and ignition. The engine and related components must be maintained at POLARIS specifications to achieve optimal performance.

Engine idle speed is the only adjustment POLARIS recommends that the operator perform. Any other adjustments should be performed by an authorized POLARIS dealer.

The compliance label is located on a frame tube to the left side of the frame, behind the radiator.

Electromagnetic Interference

This spark ignition system complies with Canadian ICES-002.

This vehicle complies with the EMC requirements of European directives 97/24/EC and 2004/108/EC.

Non-ionizing Radiation: This vehicle emits some electromagnetic energy. People with active or non-active implantable medical devices (such as heart monitoring or controlling devices) should review the limitations of their device and the applicable electromagnetic standards and directives that apply to this vehicle.

Periodic Maintenance Chart

The high performance engine in your vehicle *requires* routine service to maintain the highest level of performance and reliability. Please read and follow the “Break-In Period” and “Maintenance” sections of your Owner’s Manual carefully.

Failure to perform the recommended maintenance procedures outlined in the Periodic Maintenance Chart will result in forfeited warranty coverage as well as decreased performance and reliability of the vehicle. *If you're unable to perform the required service and adjustment procedures, have a qualified dealer perform these operations.*

Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, use genuine POLARIS parts available from your POLARIS dealer. Record maintenance and service in the Maintenance Log beginning on page 199.

Maintenance

Periodic Maintenance Chart

The recommended service intervals are based on average riding conditions. Vehicles subjected to severe use must be inspected and serviced more frequently.

Severe Use Definition

- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle
- Short trip cold weather operation

Periodic Maintenance Chart

WARNING

Improperly performing the procedures marked with a **n** could result in component failure and cause an accident, which may result in serious injury or death. Always have an authorized POLARIS dealer perform these services.

Maintenance Chart Key

- Perform these operations more often under severe use.
- E** Emission-related service (Failure to conduct this maintenance will not void the emissions warranty but may affect emissions.)
- n** Have an authorized POLARIS dealer perform these services.
- Use POLARIS Premium All Season Grease or grease conforming to NLGI No. 2.

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used		
	Brake systems/brake fluid	--	Pre-ride	--	Check each day before operating the vehicle. Make adjustments as needed. See the Pre-Ride Checklist.	60
	Tires	--		--		
	Wheels/lug nuts	--		--		
	Frame fasteners	--		--		
	Coolant	--		--		
	Fuel	--		--		
	Engine oil	--		--		
	Transmission oil	--		--		
	Throttle	--		--		
	Clutch system/clutch fluid	--		--		
	Lights	--		--		
	Engine stop switch	--		--		
	Steering	--		--		

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used in gallons (liters)		
	Air box sediment tubes	--	Pre-ride	--	Check each day before operating the vehicle. Make adjustments as needed. See the Pre-Ride Checklist.	60
	Headlamp	--		--		
	Tail lamp/brake lamp	--		--		
	A-arm ball joint	--		--		
	Rear shaft assembly	--		--		
	Boots	--	Post-ride	--	Burp boots if bulging/ballooned	139
	Oil and filter change	3	Break-in	5 (20)	Change the oil and filters	98
	Oil screen/drain plug				Clean screen and plug magnet	100
	Idle speed				Check idle speed setting	112
	Engine mounting bolts				Check torque	--
E	Valve clearance				Check; adjust	--

► Perform these procedures more often for vehicles subjected to severe use

E Emission-Related Service

n Have an authorized POLARIS dealer perform these services

● Use POLARIS Premium All Season Grease

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used in gallons (liters)		
	Brake pad wear	10	Monthly	--	Inspect regularly	145
	Rear sprocket bolts	10	Monthly	--	Check torque	149
	Battery	10	Monthly	--	Check terminals; clean; test	129
►E	Air filter	15	Weekly	--	Inspect; clean; replace as needed	110
►	Oil and filter change	15	6 M	26 (100)	Perform initial oil change after first 3 hours of operation.	98
►	Oil screen/drain plug	15	6 M	26 (100)	Clean screen and plug magnet	100
	Idle speed	15	6 M	26 (100)	Check; adjust as needed	112
	Engine mounting bolts	15	6 M	26 (100)	Check torque	--
	Shift lever bolt	15	6 M	26 (100)	Check torque	--
E	Valve clearance	15	6 M	26 (100)	Check; adjust	--
	Clutches	30	6 M	52 (200)	Check discs for wear	--
E	Spark plug	30	6 M	52 (200)	Replace	122

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used in gallons (liters)		
►●	General lubrication	45	3 M	78 (300)	Lubricate all fittings, pivots, cables, etc.	--
	Carburetor float bowl	45	6 M	78 (300)	Drain bowl periodically and prior to storage	113
nE	Throttle cable/ETC switch	45	6 M	78 (300)	Inspect; adjust; replace as needed	143
►	Drive chain(s)	45	6 M	78 (300)	Inspect daily; adjust; lubricate if needed	149
►n	Brake pad replacement	45	6 M	78 (300)	See your POLARIS dealer	--
	Coolant strength	45	6 M	78 (300)	Inspect strength seasonally	106

► Perform these procedures more often for vehicles subjected to severe use

E Emission-Related Service

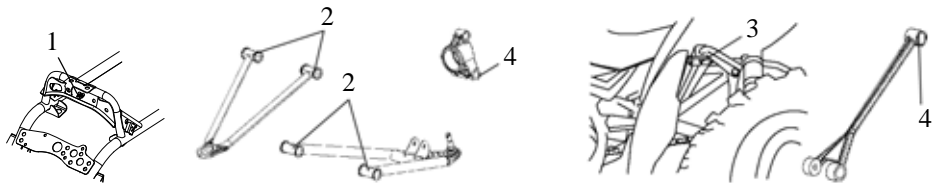
n Have an authorized POLARIS dealer perform these services

● Use POLARIS Premium All Season Grease

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	
		Hours	Calendar	Fuel Used in gallons (liters)		
►●	Upper steering post (1)	45	6 M	--	Inspect; tighten fasteners; grease after washing ATV/driving in water	
►●	Front A-Arms (2)	45	6 M	--	Inspect; tighten fasteners; grease (also after washing ATV or driving in water)	
►●	Stabilizer Bar (3)	45	6 M	--	Grease	
►●	Rear Control Arm Needle Bearings (4)	90	12 M	--	Disassemble; clean; inspect bearings/seals; grease; reassemble	



Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used in gallons (liters)		
	Clutch springs	60	12 M	104 (400)	Check spring length (see dealer)	--
	Cam chain tensioner	60	12 M	104 (400)	Check ratchet teeth for wear	--
	Coolant system	90	12 M	156 (600)	Pressure test system annually	--
►	Cooling system hoses	90	12 M	156 (600)	Inspect	--
	Radiator	90	12 M	156 (600)	Inspect; clean external surface; change coolant every 2 years	--
nE	Fuel system	90	12 M	156 (600)	Check for leaks at tank cap, lines, fuel valve, filter, carburetor; replace lines every two years	--
E	Cylinder and piston	90	--	156 (600)	Inspect; measure; replace as needed	--
	Piston pin circlip groove	90	--	156 (600)	Visual inspection for wear	--

► Perform these procedures more often for vehicles subjected to severe use

E Emission-Related Service

n Have an authorized POLARIS dealer perform these services

● Use POLARIS Premium All Season Grease

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Fuel Used in gallons (liters)	
E	Compression ring	90	--	156 (600)	See your dealer or refer to the Dealer Service Manual; measure ring gap and replace if at or below service limit
E	Oil scraper ring	90	--	156 (600)	
	Camshaft	90	--	156 (600)	Visual inspection for wear
	Valve spring cap	90	--	156 (600)	Visual inspection for wear
E	Camshaft bearings	90	--	156 (600)	Replace
E	Valve springs	90	--	156 (600)	See your dealer or refer to the Dealer Service Manual; perform measurements; replace as needed
E	Valve seats/guides	90	--	156 (600)	
E	Rocker arm rollers	90	--	156 (600)	
E	Timing chain	90	--	156 (600)	Measure elongation; replace as needed
	Cam chain tensioner	90	--	156 (600)	Check ratchet teeth for wear
E	Bearings (connecting rod, balance shaft, crankshaft main)	90	--	156 (600)	Replace
	Crankshaft run-out	90	--	156 (600)	Measure; adjust as needed

Maintenance

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks	See Page
		Hours	Calendar	Fuel Used in gallons (liters)		
	Oil pressure valve	90	--	156 (600)	Measure spring; replace as needed	
	Transmission	90	--	156 (600)	Check entire transmission/bearings for wear; replace as needed	
nE	Ignition Timing	--	12 M	--	Inspect; adjust as needed	
	Clutch fluid	90	12 M	--	Bleed as needed; change yearly	140
nE	Jet needle/needle jet	180	24 M	--	Replace	
n	Brake fluid	180	24 M	--	Replace	
	Spark arrestor	300	36 M	--	Clean out	124
n	Front/rear wheel bearings	300	36 M	--	Inspect; replace as needed	
n	Toe adjustment	As required			Inspect periodically; adjust when parts are replaced	146
	Headlight aim	As required			Adjust as needed	115

- Perform these procedures more often for vehicles subjected to severe use
- E Emission-Related Service
- n Have an authorized POLARIS dealer perform these services
- Use POLARIS Premium All Season Grease

Maintenance

Engine Oil Recommendations

Always check and change the engine oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 85. POLARIS recommends the use of POLARIS PS-4 *PLUS Performance* Synthetic 2W-50 4-cycle oil or a similar oil designed for use in 4-stroke manual clutch ATV and motorcycle applications. Do not use POLARIS PS-4 *Performance* Synthetic 10W-40 Oil. Always use 2W-50. See page 170 for the part numbers of POLARIS products.

NOTICE: Mixing brands or using a non-recommended oil may cause serious engine damage. Always use the recommended oil. Never substitute or mix oil brands.

If the ATV is used year-round, check the oil level frequently. A rising oil level could indicate the accumulation of contaminants such as water or excess fuel in the bottom of the crankcase. Water in the bottom of the crankcase can lead to engine damage and must be drained. Change the oil immediately if the oil level rises.

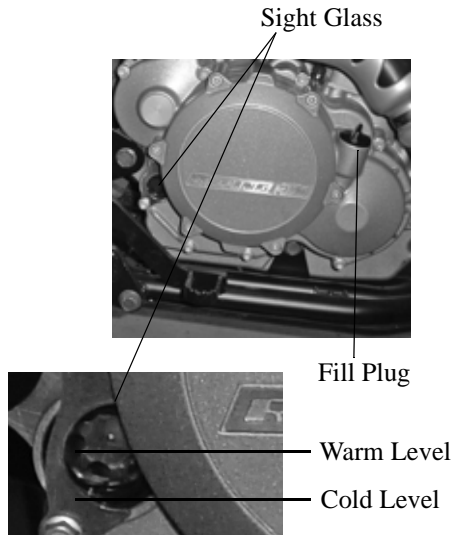
Maintenance

Engine Oil Level

Check the oil level before each use of the vehicle. If the engine is cold, the oil level should be visible at the lower edge of the sight glass. If the engine is warm, the oil level should be visible at the center of the sight glass.

A high oil level can cause engine overheating, which could result in engine damage. Always maintain the oil level as recommended.

1. Position the vehicle on a level surface.
2. View the oil level through the sight glass on the right side of the vehicle.
3. Remove the fill plug and add the recommended oil as needed.
4. Reinstall the fill plug.



Maintenance

Engine Oil Change

Always change the oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 85. Change the oil more frequently on vehicles subjected to severe use.

IMPORTANT: Perform the initial break-in oil change after the first three hours of operation. Always change both oil filters and clean the oil screens whenever changing oil.

Before beginning the oil change procedure, read through the entire procedure. Be prepared to complete the procedure entirely. Do not allow the vehicle to be without oil and filter overnight. Always replace the oil and filters within a few hours of draining the oil.

NOTICE: If the ATV is left without oil in the system for extended periods, the oil pump may lose its prime, which could result in engine damage.

Engine Oil Change

1. Position the vehicle on a level surface.
2. Remove the skid plate for better access to the oil drain plug and short screen.
3. Start the engine. Allow it to idle for two to three minutes. Stop the engine.
4. Place a drain pan beneath the crankcase. Remove the drain plug. Allow the oil to drain completely.

CAUTION! Hot oil can cause burns to skin. Do not allow hot oil to contact skin.

5. Clean the crankcase sealing surface and the drain plug (with magnet) thoroughly.
6. Replace the sealing ring. Reinstall the drain plug. Torque to 15 ft. lbs. (20 Nm).

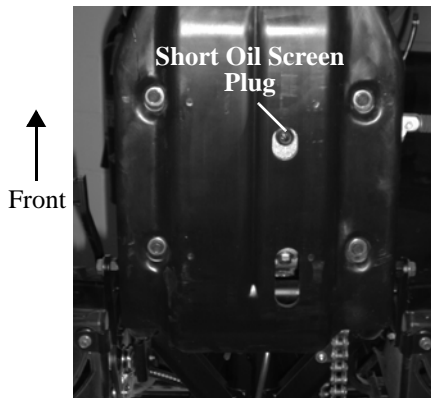


Drain Plug

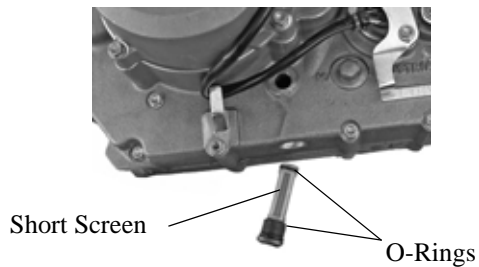
Maintenance

Engine Oil Change

Cleaning the Short Oil Screen



View from bottom of vehicle



Engine Oil Change

Cleaning the Short Oil Screen

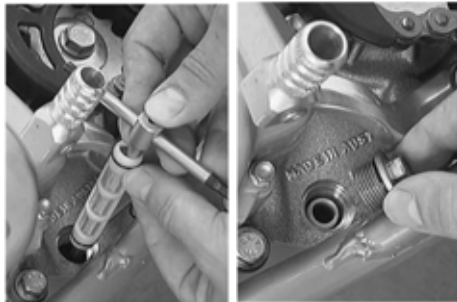
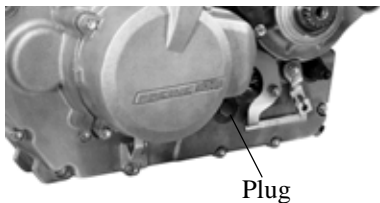
1. Remove the short oil screen plug at the bottom of the engine. See illustration on preceding page.
2. Remove the short oil screen from the plug. Clean the screen components thoroughly and blow well with compressed air.
3. Check the O-rings. If damaged, install new O-rings.
4. Reinstall the screen to the plug.
5. Lubricate the threads and reinstall the plug. Torque to 7.5 ft. lbs. (10 Nm).

Maintenance

Engine Oil Change

Cleaning the Long Oil Screen

1. Remove the long screen plug, located on the side of the engine near the engine number.
2. Remove the oil screen. Clean the screen thoroughly and blow with compressed air.
3. Check the O-rings. If damaged, install new O-rings.
4. Place the long oil screen on a pin-type key or similar tool of about 12 inches (300 mm) in length.



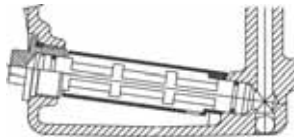
Engine Oil Change

Cleaning the Long Oil Screen

5. Insert the tool through the opening and into the bore of the opposite engine casing wall. Push the oil screen into the casing as far as possible. Remove the tool.

NOTICE: An improperly installed oil screen will function poorly and result in increased engine wear. Install the screen securely at the angle shown in the illustration.

6. Reinstall the plug. Torque to 11 ft. lbs. (15 Nm).

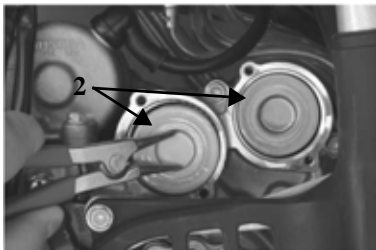
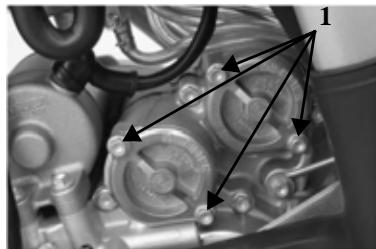


Maintenance

Engine Oil Change

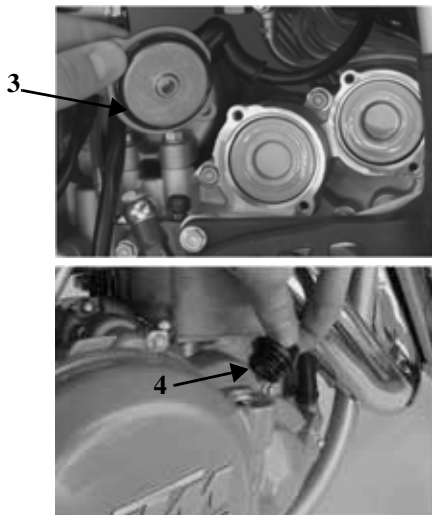
Changing Oil Filters

1. Place a drain pan under the engine.
2. Remove the four oil filter cover screws (1). Remove the covers.
3. Using circle clip (snap ring) pliers, pull the oil filter inserts (2) out of the housing.
4. Thoroughly clean the engine casing, filter covers and sealing surfaces of the O-rings. Check the O-rings. If damaged, install new O-rings.
5. Fill each oil filter with oil. Install the long filter at the front of the filter box. Install the short filter at the rear of the box.



Engine Oil Change Changing Oil Filters

6. Grease the filter cover O-rings (3).
7. Reinstall the covers and the screws. Tighten screws to 4.5 ft. lbs. (6 Nm).
8. Remove the oil fill plug (4). Add 1.7 qts. (1.6 l) of the recommended engine oil (see page 96). Reinstall the fill plug.
9. Start the engine. Allow it to idle for at least one minute to fully distribute the new oil. Stop the engine.
10. Check for leaks at all threaded connections and at the oil filter covers.
11. View the oil level in the sight glass. Add oil as needed to maintain the level as recommended (see page 97).



Maintenance

Engine Cooling System

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.

To ensure that the coolant maintains its ability to protect the engine, we recommend that you completely drain the cooling system every two years and add a fresh mixture of antifreeze and water.

POLARIS recommends the use of POLARIS Premium 60/40 anti-freeze/coolant or a 50/50 mixture of high quality aluminum compatible anti-freeze/coolant and distilled water. Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

POLARIS Premium 60/40 is already premixed and ready to use. Do not dilute with water. See page 170 for the part numbers of POLARIS products.

Engine Cooling System

Coolant Level

The recovery bottle is located on the right side of the vehicle under the front fender. If the fluid level is visible at the bottom of the side panel, add 6 oz. (175 ml) of coolant.

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.

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.



Maintenance

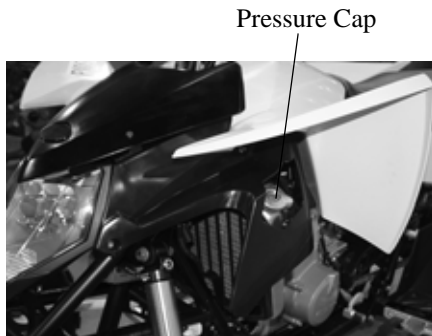
Engine Cooling System

Radiator Coolant Level

If the recovery bottle has run dry, inspect the level in the radiator and add coolant if necessary. The radiator pressure cap is located on the left side of the vehicle.

CAUTION! Escaping steam can cause burns. Never remove the pressure cap while the engine is warm or hot. Always allow the engine to cool before removing the pressure cap.

1. Remove the pressure cap.
2. Using a funnel, slowly add coolant as necessary through the radiator filler neck.
3. Reinstall the pressure cap. Use of a non-standard pressure cap will not allow the recovery system to function properly. Contact your dealer for the correct replacement part.



Engine Cooling System

Cooling System Bleeding

Bleeding the cooling system is required only if the system has been drained for maintenance and/or repair. Always allow the engine to cool sufficiently before removing the radiator pressure cap.

1. Remove the pressure cap.
2. Using a funnel, slowly add the recommended coolant. Fill the radiator to the bottom of the filler neck.
3. Reinstall the pressure cap.
4. Start the engine and allow it to idle for five minutes, or until operating temperature is reached.
5. Stop the engine.
6. After the engine has cooled, add additional coolant to refill the radiator to the bottom of the filler neck.
7. Operate the vehicle for 20 minutes, allow the engine to cool, then recheck the coolant level in the radiator. Add coolant as needed.

Maintenance

Air Filter Systems

Refer to the illustrations on page 111.

1. Remove the seat.
2. Release the airbox cover clips and remove the cover.
3. Loosen the filter clamp. Remove the air filter from the box.
4. Locate the retaining spring.
5. Carefully remove the retaining spring from the filter.
6. Remove the inner and outer foam filter elements from the internal cage.
7. Separate the two filters. Wash the filters in soapy water, then rinse and let dry.
8. Apply a commercially available foam filter lubricant to the foam filters.
9. Reinstall all components.
10. Check the hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.

Air Filter Systems



Step 3



Step 4



Step 5



Step 6



Step 7

Maintenance

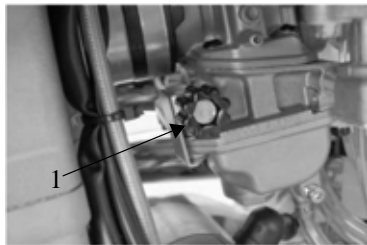
Carburetor

Normal wear from engine vibrations may cause the carburetor to supply an overly rich fuel mixture. Replace the jet needle and the needle jet after every 180 hours of operation.

Idle Speed

Carburetor idle adjustments affect engine starting behavior. A proper idle speed of 1500-1600 RPM will result in easier starting. If idle speed is unsatisfactory, use the following procedure to make adjustments.

1. Position the vehicle on a level surface.
2. Lock the parking brake. Place the transmission in neutral.
3. Start the engine and allow it to idle for five minutes, or until operating temperature is reached.
4. Turn the idle adjusting wheel (1) until idle speed reaches 1500-1600 RPM.
5. If idle speed is unsatisfactory after performing this procedure, see your POLARIS dealer for information about jetting changes.

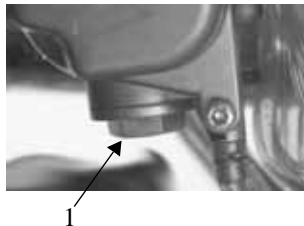


Carburetor

Carburetor Draining

Drain the carburetor float bowl at the intervals outlined in the Periodic Maintenance Chart beginning on page 85. Always drain the bowl after exposure to wet conditions. Perform this procedure when the engine is cool.

1. Turn the fuel valve off.
2. Place a suitable container under the carburetor to collect drained fluid.
3. Remove the hex plug (1). Allow fluids to drain.
4. Reinstall the hex plug securely.



Maintenance

Carburetor Jetting

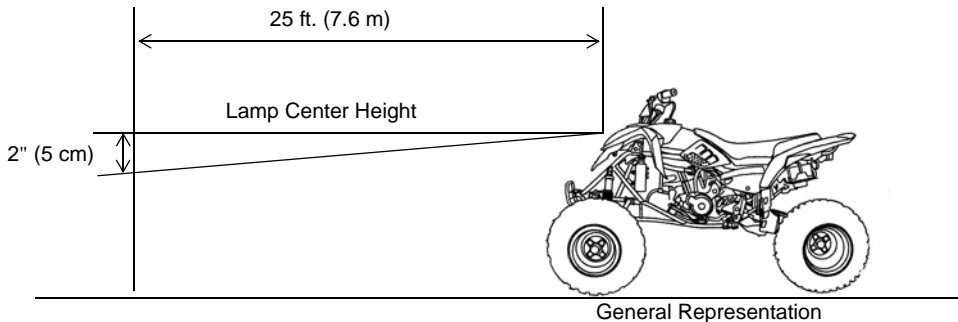
Carburetor re-jetting can be performed to compensate for altitude and/or temperature changes. If the vehicle is to be operated at various altitudes and temperatures, certain adjustments can be made to improve its operation and driveability. Above 6000 feet (1800 m) the engine air/fuel mixture becomes overly rich. An engine loses approximately 3% of its power for each 1000-foot (305 m) increase in elevation. Although this power cannot be regained, changes to the carburetor and drive system can be made to allow more efficient operation.

Contact your dealer for altitude adjustments. Your dealer has the training and special tools required to perform these modifications.

Lights

Headlight Adjustment

1. Position the vehicle on a level surface with the headlight approximately 25 ft. (7.6 m) from a flat 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.



Maintenance

Lights

4. Observe the headlight aim on the wall. The most intense part of the headlight beam should be aimed 2" (5 cm) below the mark placed on the wall. Include rider weight on the seat when measuring.
5. Loosen the pivot screw and adjust the beam to the desired position.
6. Tighten the screw and torque to 27 in. lbs. (3 Nm).



Pivot Screw

Lights

Headlight Lamp Replacement

When servicing a halogen lamp, avoid touching the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp. If fingers do touch a lamp, clean it with denatured alcohol.

1. Remove the wire harness connector from the back of the headlight.
2. Grasp the bulb housing and turn it *counterclockwise* to remove the bulb.

CAUTION! Hot components can cause burns to skin. Allow lamps to cool before servicing.

3. Apply dielectric grease to the socket and install the new bulb. Rotate firmly. The bulb must be positioned so the harness installs into the lamp at outer side.
4. Reinstall the connector to the back of the headlight.

Maintenance

Lights

Headlight Assembly Replacement

1. Remove the front cover.
2. Remove the wire harness connector from the headlights.
3. Remove the two retaining brackets and the adjuster screw.
4. Remove the headlamp.
5. Install the new headlamp, placing it in the slots on the frame tabs. Secure the headlamp with the retaining brackets.
6. Install the adjuster screw, leaving it loose so the headlight can be adjusted.
7. Connect the wire harness to the headlamp. Reinstall the front cover.
8. Adjust the lamp as needed (see page 115), then tighten the adjuster screw.

Lights

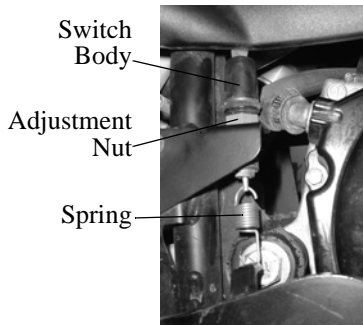
Brake Light Adjustment

Check the rear brake light for proper operation before each use of the vehicle.

1. Turn the ignition key on.
2. Lightly apply and release the foot brake several times. A properly operating rear brake light will immediately flash on and off with each movement of the brake pedal.
3. If the light does not operate properly, grasp the switch body with a pliers or similar tool and hold it lightly, but securely. Using a wrench, rotate the adjustment nut clockwise to increase tension on the spring.

TIP: Rotate the adjusting nut counter-clockwise to decrease tension on the spring if the brake light comes on when there is no pressure on the brake pedal.

4. Recheck and readjust as needed until the brake light operates properly.

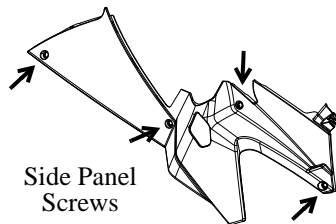
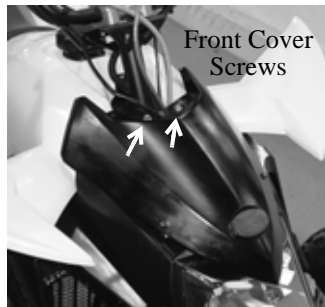


Maintenance

Front Cab/Side Panel Removal

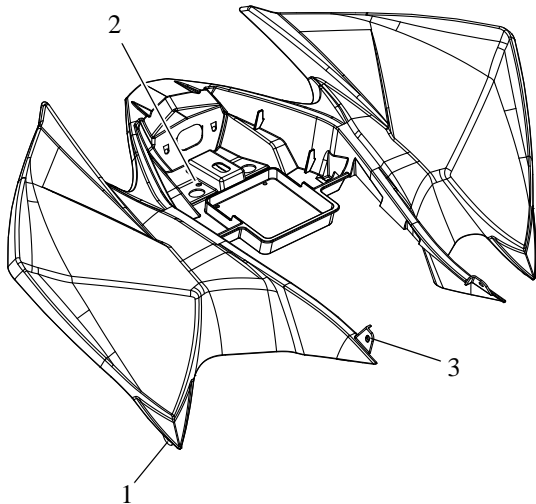
The front cab and side panel assembly is removed in one piece.

1. Remove the seat.
2. Remove the two front cover screws and remove the front cover.
3. Remove the eight side panel screws (four on each side).
4. Remove the fuel cap.
5. Gently pull the side panel/cab assembly upward and rearward.
6. Unplug the key switch and the indicator panel before removing the cab.
7. To remove a side panel from the cab, remove the corresponding push pin and slide the panel forward to disengage the locking tabs.



Rear Cab Removal

1. Unlatch and remove the seat.
2. Remove the two lower bolts (1) on the rear fenders of the cab.
3. Remove the two bolts and grommets (2) on the top of the cab.
4. Remove the two bolts (3) at the rear cab-to-front-cab joint.
5. Unplug the taillight connector.
6. Remove the cab.



Maintenance

Spark Plugs

Refer to the specifications section beginning on page 168 for recommended spark plug type and gap

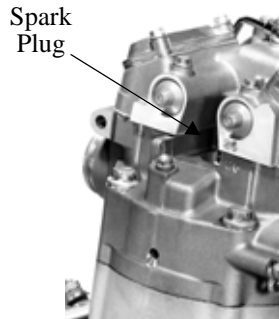
NOTICE: Using non-recommended spark plugs can result in serious engine damage. Always use POLARIS-recommended spark plugs.

Spark plug condition is indicative of engine operation. The spark plug firing end condition should be read after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color.

1. Access the spark plug at the right side of the engine.
2. Using the spark plug socket and a wrench, rotate counter-clockwise to remove the spark plug.

CAUTION! A hot exhaust system and engine can cause burns. Wear protective gloves when removing a spark plug for inspection.

3. After reinstalling the spark plug, torque to 14 ft. lbs. (19 Nm).



Spark Plugs

Normal Plug

The normal insulator tip is gray, tan or light brown. There will be few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

The tip should not be white. A white insulator tip indicates overheating, caused by use of an improper spark plug or incorrect carburetor/throttle body adjustments.

Wet Fouled Plug

The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes of fouling are excessive oil, use of non-recommended oil, improper use of the choke, or incorrect carburetion adjustments.

Maintenance

Spark Arrestor Clean-Out

WARNING

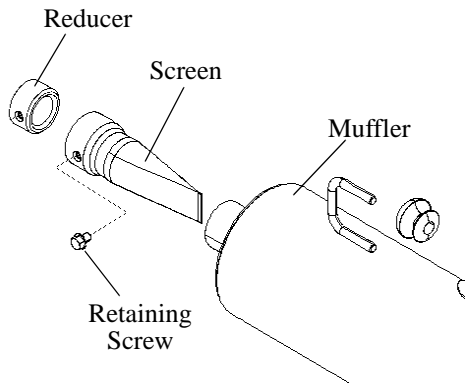
Failure to heed the following warnings while servicing the spark arrestor could result in serious injury or death. The exhaust system can get extremely hot. Do not perform service on the spark arrestor while the system is hot. Allow components to cool sufficiently before proceeding.

Remove any combustible materials from the area. Wear eye protection and leather work gloves. Do not stand behind or in front of the vehicle while purging. Never run the engine in an enclosed area. Never go under the vehicle while it's inclined.

Spark Arrestor Clean-Out

To remove accumulated carbon, clean the spark arrestor at the intervals recommended in the Periodic Maintenance Chart beginning on page 85.

1. Remove the retaining screw and remove the screen from the end of the muffler.
2. Use a non-synthetic brush to clean the arrestor screen. A synthetic brush may melt if components are warm. If necessary, blow debris from the screen with compressed air.
3. Inspect the screen for wear and damage. Replace a worn or damaged screen.
4. Reinstall the screen. Torque the screw to 5-7 ft. lbs. (7-9 Nm).



Maintenance

Vehicle Immersion

If the vehicle tips or overturns in water deeper than the footpeg level, or if the engine stops during or after operating in water, restarting WILL result in serious engine damage. Transport the vehicle to your dealer for service before restarting the engine. If this is not possible, follow the vehicle immersion inspection and drying procedures outlined below. This procedure will allow *short-term operation only* to drive the ATV to a trailer or towing vehicle.

Do not perform the following procedures if you don't feel completely capable, or if you suspect that water has entered the fuel tank (likely if the water was deep or if the ATV overturned). Tow or trailer the ATV to your dealer for immediate service.

Vehicle Immersion

1. Turn the fuel valve off.
2. Drain water from the air box and clean the air filter. See page 110.
3. Drain the carburetor bowl. See page 113.
4. Remove the spark plug. See page 122.

WARNING! Fluids will be ejected through the spark plug hole and may cause serious injury to face or other body parts. Wear protective eyewear and stand clear of the spark plug while performing the following steps.

5. Intermittently and briefly touch the starter button in half-second intervals to **SLOWLY** rotate the engine three or four times. *Fluid will eject from the spark plug hole.*

(continued on following page)

Maintenance

Vehicle Immersion

6. Press and hold the starter button for 10 second intervals for about one minute or until water vapor is no longer ejecting from the spark plug hole.
7. Check the oil level. If the level is higher than the pre-ride inspection level, water has entered the crankcase. *Do not start the engine.* Transport the vehicle to your dealer for inspection and service. If the oil level is unchanged from the pre-ride inspection level, replace the spark plug, start the engine and move the ATV promptly to a trailer or towing vehicle.

NOTICE: If water isn't removed promptly from a submerged ATV, rust will form in precision components, gears, bearings, the cylinder and other areas and result in serious engine damage. Always see your dealer promptly after an ATV has been submerged.

Battery

WARNING

Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (black) cable first. When reinstalling the battery, always connect the negative (black) cable last.

The sealed battery is already filled with electrolyte and has been sealed and fully charged at the factory. *Never* pry the sealing strip off or add any other fluid to this battery.

Keep the battery terminals and connections 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 shop towels. Coat the terminals with dielectric grease or petroleum jelly.

Maintenance

Battery Storage

Whenever the vehicle is not used for a period of three months or more, remove the battery from the vehicle, ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

Battery Removal

1. Disconnect the hold-down strap securing the battery in position.
2. Disconnect the black (negative) battery cable first.
3. Disconnect the red (positive) battery cable last.
4. Lift the battery out of the ATV.

Battery Installation

Always install a fully charged battery. Using a new battery that has not been fully charged can damage the battery and result in a shorter life. It can also hinder vehicle performance. If recharging is necessary, use a .5 amp battery charger.

1. Place the battery in the battery holder.
2. Connect and tighten the red (positive) cable first.
3. Connect and tighten the black (negative) cable last.
4. Attach the hold-down strap.
5. Verify that cables are properly routed.

Maintenance

Battery Charging (Sealed Battery)

On a sealed battery, the sealing strip cannot be removed. Use a voltmeter or multimeter to measure DC voltage. A fully charged battery will register 12.8 V or higher. If the voltage is less than 12.8 volts, recharge the battery.

WARNING! An overheated battery could explode, causing severe injury or death. Always watch charging times carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

The battery may be recharged without removing it from the vehicle. Attach cables in the following order:

1. Attach the positive (+) cable clamp to the positive battery terminal.
2. Attach the negative (-) cable clamp to the negative (-) battery terminal.

Battery Charging (Sealed Battery)

The POLARIS Battery Tender battery charger can be left connected during the storage period and will automatically charge the battery if the voltage drops below a pre-determined point.

If the battery fails to recharge during vehicle operation, check voltage regulator connections. See your POLARIS dealer for inspection of the voltage regulator and generator.

When using an automatic charger such as the POLARIS Battery Tender, refer to the manufacturer's instructions for recharging. When using a constant current charger, use the guidelines on the following page for recharging.

Maintenance

Battery Charging (Sealed Battery)

Always verify battery condition before and 1-2 hours after the end of charging.

State of Charge	Voltage	Action	Charge Time (Using constant current charger @ standard amps specified on top of battery)
100%	12.8-13.0 volts	None, check at 3 months from date of manufacture	None required
75%-100%	12.5-12.8 volts	May need slight charge, if no charge given, check in 3 months	3-6 hours
50%-75%	12.0-12.5 volts	Needs charge	5-11 hours
25%-50%	11.5-12.0 volts	Needs charge	At least 13 hours, verify state of charge
0%-25%	11.5 volts or less	Needs charge with desulfating charger	At least 20 hours

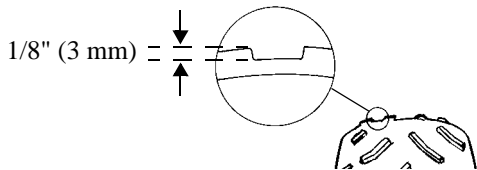
Tires

WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling and could cause an accident resulting in serious injury or death. Always follow all tire maintenance procedures as outlined in this manual and on the labels on the vehicle. Always use original equipment size and type when replacing tires. Always ensure that all nuts are torqued to specification.

Tire Tread Depth

Always replace tires when tread depth is worn to 1/8" (3 mm) or less.



Maintenance

Wheel Nut Torque Specifications

Check the wheel nut torques occasionally and when they've been loosened for maintenance.

Bolt Location & Size	Torque Specification
Front 3/8"	30-35 ft. lbs. (40-47 Nm)
Rear 3/8"	30-35 ft. lbs. (40-47 Nm)

Wheel Hub Tightening

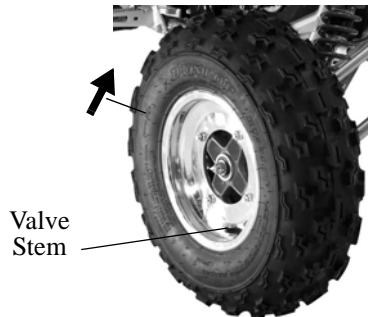
Front wheel bearing tightness and spindle nut retention are critical component operations. All service must be performed by your authorized POLARIS dealer.

Wheel Removal

1. Stop the engine. Place the transmission in gear. Lock the parking brake.
2. Loosen the wheel bolts slightly.
3. Elevate the side of the vehicle by placing a suitable stand under the frame.
4. Remove the wheel nuts and remove the wheel.

Wheel Installation

1. Place the transmission in gear. Lock the parking brake.
2. Place the wheel on the wheel hub with the valve stem toward the outside and rotation arrow on the tire pointing toward forward rotation.
3. Install the wheel bolts and finger tighten them.
4. Lower the vehicle to the ground.
5. Securely tighten the bolts to specification. See page 136.



Maintenance

Boot Inspection

Before Operating

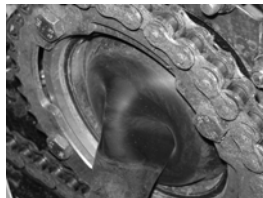
Inspect the boots before operating the vehicle. If a boot is torn, punctured or leaking fluid, see your POLARIS dealer for service or replacement.

After Operating

Inspect the boots after operating the vehicle. If a boot is bulging or ballooned, perform the boot burping procedure on page 139.



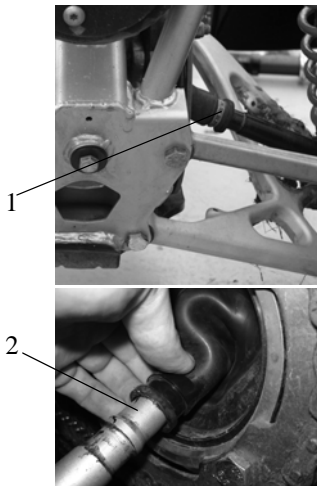
Good Boot



Bulging Boot

Boot Burping

1. Using a needle nose pliers or boot clamp removal tool, remove the small boot clamp (1) from the inboard boot. Do not use any tools that may damage the boot.
2. Slide the free end of the boot two inches toward the center of the vehicle and lift the boot away from the shaft to allow excess air to escape (2).
3. Wipe excess grease from the shaft before returning the boot to the boot groove. Use caution not to allow excess air back into the system when reinstalling the boot.
4. Reinstall the boot clamp.



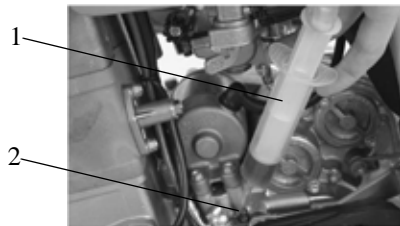
Maintenance

Clutch System Bleeding

Always bleed the clutch system at the intervals outlined in the Periodic Maintenance Chart beginning on page 85. Always bleed the clutch system any time the clutch lever feels unresponsive.

Always use the recommended fluid when bleeding the clutch system. See page 43.

1. Position the vehicle on a level surface. Turn the handlebar until the master cylinder is in a horizontal position.
2. Remove the two cover screws, the cover and the rubber boot.
3. Fill a bleeder syringe (1) with the recommended hydraulic clutch oil.



Clutch System Bleeding

4. Remove the bleeder screw (2) from the slave cylinder.
5. Press fluid into the system until the fluid runs out of the hole (3) in the master cylinder without producing bubbles.

TIP: Extract fluid from the master cylinder during the process to prevent overflowing.

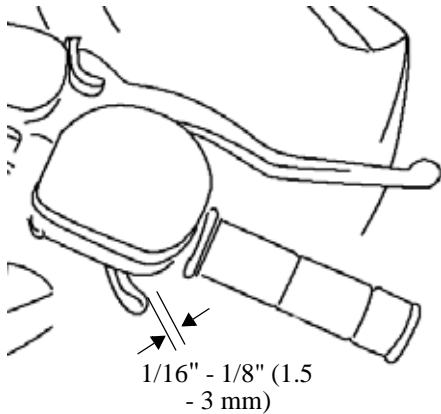
6. When finished, remove the bleeder syringe.
7. Reinstall the bleeder screw.
8. Add or remove fluid as needed to maintain the level 4mm below the top edge of the master cylinder reservoir.
9. Reinstall the cover, boot and screws securely.

Maintenance

Throttle Lever Freeplay

Periodically check throttle lever freeplay. Maintain freeplay between $\frac{1}{16}$ " and $\frac{1}{8}$ " (1.5 - 3 mm).

If adjustments are needed, use the procedure on page 143.

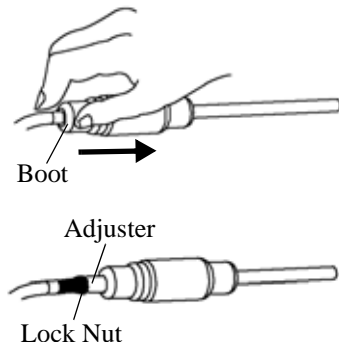


Throttle Cable Freeplay Adjustment

⚠ WARNING

Improper adjustment of throttle cable freeplay can result in loss of control, which could result in serious injury or death. POLARIS recommends that this procedure be performed by a POLARIS dealer to ensure that it's done correctly. Mechanically knowledgeable persons who perform this procedure must follow the adjustment procedures exactly.

1. Locate the throttle cable adjuster at the handlebar.
2. Squeeze the end of the rubber boot and slide it far enough to expose the end of the inline cable adjuster.
3. Loosen the adjuster lock nut.
4. Rotate the boot to turn the adjuster until 1/16" to 1/8" (1.5-3 mm) of freeplay is achieved at the thumb lever. While adjusting freeplay, be sure to flip the throttle lever back and forth.
5. Tighten the lock nut.
6. Squeeze the end of the rubber boot and slide it over the cable adjuster to its original position.



Maintenance

Brakes

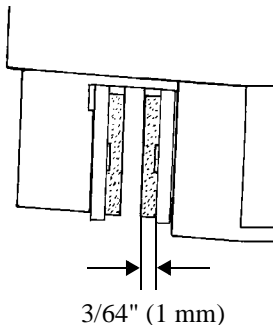
Under normal operation, the diaphragm extends into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is likely and the diaphragm should be replaced. To ensure proper diaphragm operation, always fill the reservoir as needed whenever the cover is loosened or removed. Do not overfill.

WARNING! An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

Both brakes are self-adjusting, but the following checks are recommended to keep the brake systems in good operating condition. Check more often if brakes are used heavily under normal operation.

Brakes

1. Always maintain brake fluid at the recommended level. See pages 48-49.
2. Check the brake system for fluid leaks.
3. Check the brakes for excessive travel or spongy feel.
4. Check the friction pads for wear, damage and looseness.
5. Check the security and surface condition of the disc.
6. Inspect the rear brake disc spline and pad wear surface for excessive wear. Pads should be changed when worn to $3/64"$ (1 mm).



Maintenance

Toe Alignment

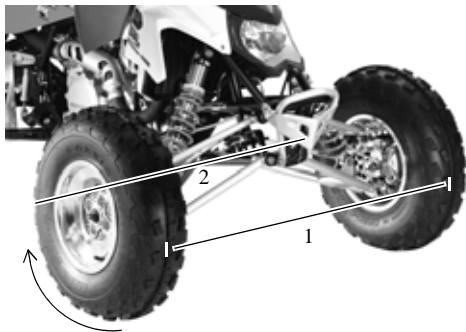
Use the following procedure to check the toe alignment of the vehicle. The vehicle is designed for a neutral toe setting.

WARNING! Severe injury or death can result from improper toe alignment and adjustment. Do not attempt to adjust tie rod alignment. All tie rod adjustments should be performed by an authorized POLARIS dealer.

1. Position the vehicle on a level surface. Ensure the vehicle is at the proper ride height by placing a rider on the vehicle.
2. Place the handlebars in a straight-ahead position. Secure the handlebars in this position.
3. Place a chalk mark on the center line of the front tires approximately 10" (25.4 cm) from the floor, or as close to the hub/axle center line as possible. Make sure both marks are the same distance from the floor.

Toe Alignment

4. Measure the distance between the marks and record the measurement (1).
5. Move the vehicle until the chalk marks are at the rear of the tires, even with the hub/axle center line.
6. Measure the distance between the marks and record the measurement (2).
7. Subtract measurement 2 from measurement 1. The difference is the vehicle toe alignment.
8. The recommended toe alignment is 0" to 1/16" (0-1.6 mm) toe out. This means that the front measurement should be 0" to 1/16" (0-1.5 mm) greater than the rear measurement.
9. If you discover improper alignment, see your POLARIS dealer for service.



Maintenance

Chain Tension

CAUTION! Never adjust or operate the vehicle with the rear drive chain too loose or too tight. Severe damage to the transmission and drive components can result.

Check the amount of chain slack by moving the vehicle slightly forward to remove slack at the top side of the chain. At the center point of the top side of the chain there should be 1/4"-3/8" (6-9 mm) deflection.

Use the following procedure if the chain needs adjustment.

TIP: The chain has a press-on master link. A chain tool must be used if it's necessary to remove the chain for service.

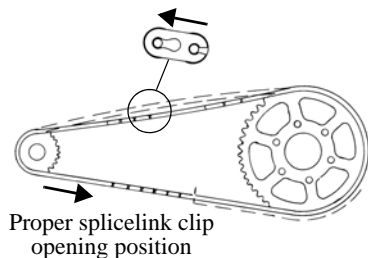
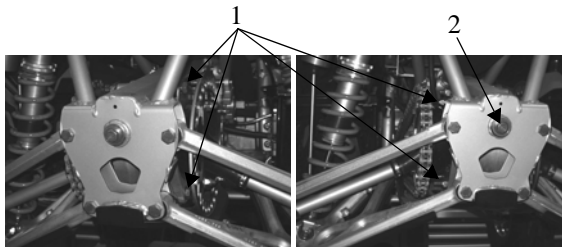
1. Loosen the upper and lower pivot mounting bolts (1).
2. Thread the chain adjusting bolt (2) inward or outward to adjust chain slack to the proper dimension.



Chain Tension

3. Tighten the pivot mounting bolts to 30 ft. lbs. (40 Nm).
4. Torque the chain adjusting bolt to 17 ft. lbs. (23 Nm).
5. Check sprocket bolts to make sure the retainer tabs fit tightly against the bolt heads. If not, tighten the bolts to 28 ft. lbs. (38 Nm).
6. Bend the retaining tabs tightly against the flat edges of the bolt heads. If a tab cannot be aligned with a flat edge, it should be bent around a point of the bolt head.

TIP: If a retainer tab does not align with the flat edge of a bolt head, the bolt can be tightened to a maximum of 38 ft. lbs. (51 Nm).



Maintenance

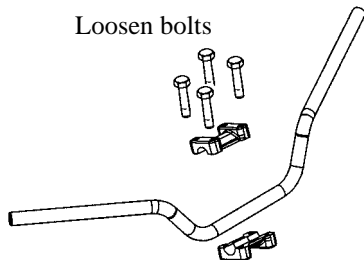
Handlebar Adjustment

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. Follow the adjustment procedures exactly, or see your POLARIS dealer for service.

The handlebars can be adjusted for rider preference.

1. Loosen the four handlebar bolts.
2. Adjust the handlebar to the desired height. Be sure the handlebars do not contact the gas tank or any other part of the machine when turned fully to the left or right.
3. Torque the two front bolts to 10-12 ft. lbs. (14-16 Nm), then torque the two rear bolts. A gap of up to 1/8" (3 mm) will remain at the rear bolts.



Steering Inspection

Check the steering assembly periodically for loose nuts and bolts. If loose nuts and bolts are found, or if you notice any freeplay in the steering post, see your POLARIS dealer for service before operating the vehicle.

Camber and Caster

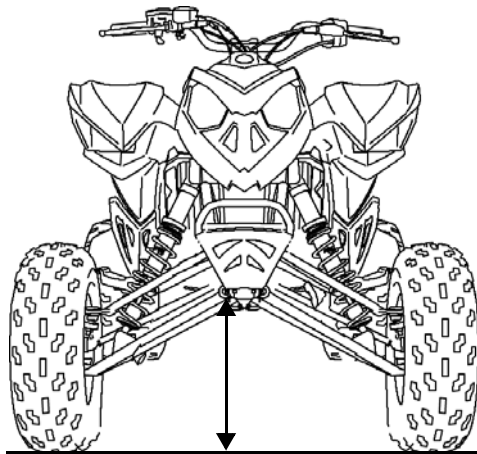
The camber and caster are non-adjustable.

Maintenance

Front Suspension

Suspension Set-Up

1. Position the vehicle on a level surface.
2. Stop the engine.
3. Elevate the front of the vehicle by placing a suitable stand under the frame. The tires should be barely touching the ground and the suspension should be at full rebound.
4. Measure the distance from the ground to the bottom of the lower front bumper bolt. Note this measurement for later use.
5. Remove the stand and have a rider sit comfortably on the seat with hands on the handlebars.



Front Suspension Suspension Set-Up

6. Place the transmission in neutral and slowly roll the machine forward and rearward at least ten feet (3 m) without lifting or pushing down on the suspension.
7. Turn the handlebars fully to the left and right.
8. With the rider still on the vehicle, repeat the measurement performed in step 4. Subtract the step 8 measurement from the step 4 measurement. The difference should be between 3.75 and 4 inches (9.5-10.2 cm).
9. If the number is less than 3.75 inches (9.5 cm), *decrease* the front spring preload (see page 154) and repeat all steps. If the number is higher than 4 inches (10.2 cm), *increase* spring preload and repeat all steps.

Maintenance

Front Suspension

Spring Preload

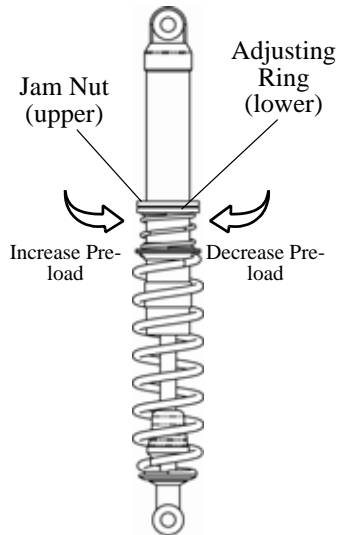
The front suspension preload may be adjusted to suit different riding conditions and operator weight.

WARNING! Uneven adjustment may cause poor handling of the ATV, which could result in an accident and serious injury or death. Always adjust both the left and right spring preloads equally or have your POLARIS dealer perform the adjustments.

Front Suspension

Spring Preload

1. Raise and safely support the front of the vehicle off the ground to allow the suspension to fully extend.
2. Loosen the jam nut.
3. Turn the adjusting ring clockwise to increase preload. Turn the ring counter-clockwise to decrease preload.
4. Tighten the jam nut firmly against the adjusting ring.
5. Measure the preload of the left and right shocks. Make sure both shock measurements are equal.

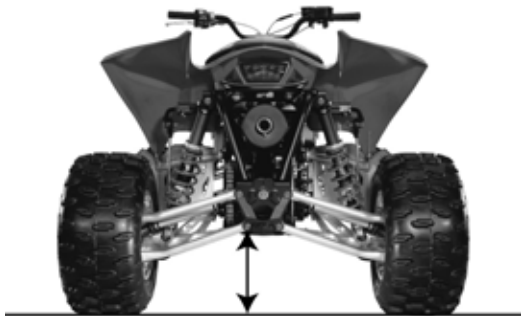


Maintenance

Rear Suspension

Suspension Set-Up

1. Position the vehicle on a level surface.
2. Stop the engine.
3. Elevate the rear of the vehicle by placing a suitable stand under the frame. The tires should be barely touching the ground and the suspension should be at full rebound.
4. Measure the distance from the ground to the bottom of the rear lower control arm pivot bolt. Note this measurement for later use.



Rear Suspension Suspension Set-Up

5. Remove the stand and have a rider sit comfortably on the seat with hands on the handlebars.
6. Place the transmission in neutral and slowly roll the machine forward and rearward at least ten feet (3 m) without lifting or pushing down on the suspension.
7. Turn the handlebars fully to the left and right.
8. With the rider still on the vehicle, repeat the measurement performed in step 4.
9. Subtract the step 8 measurement from the step 4 measurement. The difference should be between 4.25 and 4.5 inches (10.8-11.4 cm).
10. If the number is less than 4.25 inches (10.8 cm), *decrease* the rear spring preload on both shocks (see page 158) and repeat all steps. If the number is higher than 4.5 inches (11.4 cm), *increase* spring preload and repeat all steps.

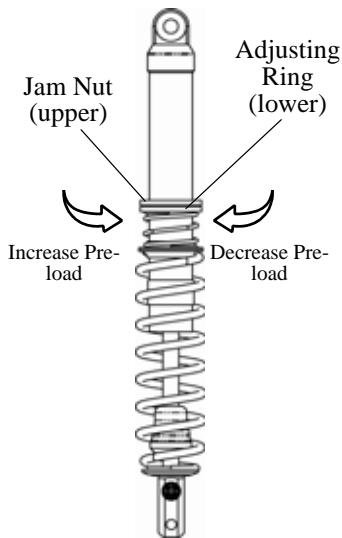
Maintenance

Rear Suspension

The rear suspension spring preload and shock compression damping may be adjusted to suit different riding conditions and operator weight.

Spring Preload

1. Raise and safely support the rear of the vehicle off the ground to allow the suspension to fully extend.
2. Loosen the jam nut.
3. Turn the adjusting ring clockwise to increase preload. Turn the ring counter-clockwise to decrease preload.
4. Tighten the jam nut firmly against the adjusting ring.
5. Measure the preload of the left and right shocks. Make sure both shock measurements are equal.



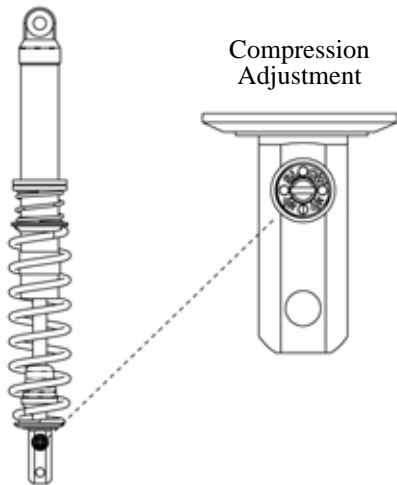
Rear Suspension

Compression Damping

The compression damping clickers are located on the bottom of the shocks (on the lower clevis). Use a screwdriver to make adjustments.

To set the shock at the firmest setting, turn the screw clockwise until it stops (fully closed position). From this position, turn the screw counter-clockwise to decrease compression damping.

Setting	Compression Damping
Softest	24 clicks from closed
Factory	8 clicks from closed
Firmest	2 clicks from closed



Maintenance

Cleaning

Keeping your vehicle clean will not only improve its appearance but it can also extend the life of various components.

NOTICE: High water pressure may damage components. POLARIS recommends washing the vehicle by hand or with a garden hose, using mild soap.

Certain products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

Washing the Vehicle

The best and safest way to clean your POLARIS vehicle is with a garden hose and a pail of mild soap and water.

1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
2. Rinse with clean water frequently.
3. Dry surfaces with a chamois to prevent water spots.

Cleaning

Washing the Vehicle

Washing Tips

- Avoid the use of harsh cleaners, which can scratch the finish.
- Do not use a power washer to clean the vehicle.
- Do not use medium to heavy duty compounds on the finish.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

Maintenance

Cleaning

Washing the Vehicle

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and decals. If warning and safety labels are damaged, contact your POLARIS dealer for free replacement. Avoid directing the water stream at the following items:

- Wheel bearings
- Electrical components and wiring
- Transmission seals
- Brakes
- Cab and body panels
- Labels and decals

Grease all zerk fittings immediately after washing. Allow the engine to run for a while to evaporate any water that may have entered the engine or exhaust system.

Maintenance

Polishing

POLARIS recommends the use of common household aerosol furniture polish for polishing the finish on your POLARIS vehicle. Follow the instructions on the container.

Polishing Tips

- Avoid the use of automotive products, some of which can scratch the finish of your vehicle.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

Storage

NOTICE: Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

Exterior

Make necessary repairs and clean the vehicle as recommended. See page 160.

Battery Storage

Refer to pages 129-134 for battery storage and battery charging procedures.

Maintenance

Storage

Engine Oil

Change the oil and both filters. Clean the oil screens. See page 98.

Air Filter / Air Box

Inspect and clean (or replace) the air filter. Clean the air box. Drain the sediment tube.

Fluid Levels

Inspect fluid levels. Change fluids as recommended in the Periodic Maintenance Chart beginning on page 85.

- Transmission Oil
- Engine Oil
- Coolant (test strength/fill)
- Brake Fluid
- Clutch Fluid

Storage

Stabilize the Fuel

1. Fill the fuel tank with fuel.
2. Add POLARIS Carbon Clean Fuel Treatment or POLARIS Fuel Stabilizer. Follow the instructions on the container for the recommended amount. Carbon Clean removes water from fuel systems, stabilizes fuel and removes carbon deposits from pistons, rings, valves and exhaust systems. It also prevents bacterial growth and promotes better starting after the storage period.
3. Start the engine and allow it to run for 15-20 minutes so the stabilizer can disperse through the fuel in the tank and carburetor.
4. Stop the engine. Turn the fuel valve off.
5. Start the engine. Allow the engine to operate until it stops.
6. Drain the carburetor bowl. See page 113.
7. Remove the spark plug. Pour approximately 5 cc of engine oil into the cylinder through the opening. Using the start button, rotate the engine several times to distribute the oil onto the cylinder walls. Reinstall the spark plug. Torque to specification.

Maintenance

Storage

Lubricate

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 85.

Storage Area/Covers

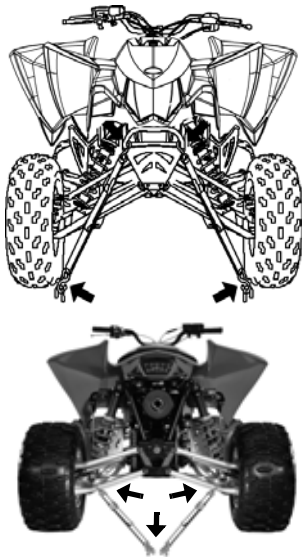
1. Make sure tire pressure is at specification.
2. Be sure the storage area is well ventilated.
3. Using suitable supports under the frame, raise the vehicle slightly so that the tires are not touching the ground.
4. Cover the vehicle with an appropriate cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

Maintenance

Transporting the ATV

Follow these procedures when transporting the vehicle.

1. Stop the engine.
2. Place the transmission in first gear.
3. Lock the parking brake.
4. Remove the key to prevent loss during transporting.
5. Secure the fuel cap, oil cap and seat.
6. Turn the fuel valve off.
7. Always tie the *frame* of the ATV to the transporting unit securely with suitable straps or rope.



Specifications

OUTLAW 525 IRS			
Max. Weight Capacity	215 lbs./97.5 kg	Pilot Jet	45
Dry Weight	389 lbs./176 kg	Main Jet	148
Fuel Capacity	3.1 gal./11.7 l	Needle Jet	OBDVS
Overall Length	71.5 in./182 cm	Needle Clip	#4
Overall Width	47.5 in./121 cm	Slow Air Jet	100
Overall Height	45 in./114 cm	Alternator Output	200 w @ 3000 RPM
Wheelbase	51 in./130 cm	Compression Ratio	11:1
Ground Clearance	11.5 in./29 cm	Starting System	Electric
Min. Turning Radius	67 in./170 cm	Carburetor	Keihin FCR-MX 39mm
Engine Oil Capacity	1.7 qts./1.6 l	Ignition System	CDI
Coolant Capacity	2.25 qts./2.1 l	Ignition Timing	25° +/- 3° @ 3500 RPM in neutral
Engine	ES51KLE	Spark Plug Type	NGK DCPR8E
Displacement	510 cc	Spark Plug Gap	0.6 mm / .024 in.
Bore x Stroke	95 x 72 mm	Lubrication System	Dry Sump/Internal Reservoir

Specifications

OUTLAW 525 IRS					
Driving System Type	Rear Two-Wheel Drive		Tire Size - Front	21 x 7R10	
Shift Type	5-Speed Manual Shift		Tire Size - Rear	20 x 10R10	
Primary Ratio	2.516		Tire Pressure - All	4 psi/27.6 KPa	
Gear Ratio - 1st	2.500		Front Brake	Hydraulic Disc, Dual Bore	
Gear Ratio - 2nd	1.941		Rear Brake	Hydraulic Disc	
Gear Ratio - 3rd	1.579		Parking Brake	Hydraulic lock, front wheel	
Gear Ratio - 4th	1.333		Headlights	Dual Beam (55w/60w)	
Gear Ratio - 5th	1.130		Taillights	LED	
Gear Ratio - Reverse	2.429		Brakelight	LED	

Jetting Chart

ALTITUDE Meters (Feet)	AMBIENT TEMPERATURE	
	Below 40° F (Below 5° C)	+40°F and above (+5°C and above)
0-1800 (0-6000)	Main Jet: 158 Needle Clip Position: #4	Main Jet: 148 Needle Clip Position: #4
1800-3700 (6000-12000)	Main Jet: 148 Needle Clip Position: #3	Main Jet: 138 Needle Clip Position: #3

POLARIS Products

Part Number	Description
Engine Lubricant	
2876244	PS-4 PLUS Performance Synthetic 2W-50 4-Cycle Oil (qt.)
2876245	PS-4 PLUS Performance Synthetic 2W-50 4-Cycle Oil (gal.)
Grease / Specialized Lubricants	
2871312	Grease Gun Kit, Premium All Season (3 oz.)
2871322	Premium All Season Grease (3 oz. cartridge)
2871423	Premium All Season Grease (14 oz. cartridge)
2871460	Starter Drive Grease (2 oz.)
2871329	Dielectric Grease (Nyogelt)
2872073	Chain Lube, Aerosol (6.25 oz.)
2872348	Chain Lube, Aerosol (16 oz.)
1350046	Rear Shaft Grease (30 g)

POLARIS Products

Part Number	Description
Coolant	
2871323	60/40 Coolant (gal.)
2871534	60/40 Coolant (qt.)
Additives / Miscellaneous	
2871326	Carbon Clean Plus (12 oz.)
2870652	Fuel Stabilizer (16 oz.)
2872189	DOT4 Brake Fluid (12 oz.)
2876335	Hydraulic Clutch Oil (qt.)

Troubleshooting

See your POLARIS dealer if you're unable to identify solutions using the following charts.

Engine Turns Over, Fails to Start

Possible Cause	Solution
Out of fuel	Turn the fuel valve to reserve, refuel
Water is present in carburetor or fuel supply	Clean carburetor and/or drain fuel system and refuel
Fuel valve is turned off	Turn the fuel valve on
Engine is cold	Use choke to start a cold engine
Interrupted fuel supply	Turn the fuel valve off; remove the fuel hose at the carburetor and place in a drain pan; turn the fuel valve on. <ul style="list-style-type: none">• If fuel leaks out, clean the carburetor.• If no fuel leaks out, clean the fuel valve.
Clogged fuel valve or filter	Inspect and clean or replace
Old or non-recommended fuel	Replace with new fuel
Fouled or defective spark plug(s)	Inspect and clean or replace plug(s)
Incorrect spark plug gap	Adjust gap to specification

Troubleshooting

Engine Turns Over, Fails to Start

Possible Cause	Solution
No spark to spark plug	Inspect, clean and/or replace spark plugs See your POLARIS dealer
Overuse of choke/flooded engine	Engage starter 2 times for 5 seconds each, then restart. If engine fails to start, inspect, clean and/or replace spark plugs.
Low battery voltage	Recharge battery to 12.8 VDC
Ignition system or other mechanical failure	See your POLARIS dealer
Throttle ETC switch not opening	Adjust throttle freeplay
The plug connection of the CDI-unit, pulse generator or ignition coil has oxidized	Clean the plug connection and treat with contact spray

Troubleshooting

Engine Doesn't Turn Over

Possible Cause	Solution
Fuseable link	See POLARIS dealer for replacement
Low battery voltage	Recharge battery to 12.8 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

Engine Pings or Knocks

Possible Cause	Solution
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your POLARIS dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

Engine Backfires

Possible Cause	Solution
Weak, fouled or defective spark plug	Inspect, clean and/or replace spark plugs
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	Replace with new fuel
Exhaust leak	Inspect system for leaks; see your POLARIS dealer
Incorrectly installed spark plug wire	See your POLARIS dealer
Incorrect ignition timing	See your POLARIS dealer
Mechanical failure	See your POLARIS dealer

Troubleshooting

Engine Runs Irregularly, Stalls or Misfires

Possible Cause	Solution
Fouled or defective spark plug	Inspect, clean and/or replace spark plug
Worn or defective spark plug wire	See your POLARIS dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Defective ignition system	See your POLARIS dealer
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.8 VDC or replace
Kinked or plugged fuel vent line	Inspect and replace
Old or non-recommended fuel	Replace with recommended fuel

Troubleshooting

Engine Runs Irregularly, Stalls or Misfires

Possible Cause	Solution
Clogged air filter	Inspect and clean or replace
Electronic throttle control malfunction	See your POLARIS dealer
Incorrect idle adjustment	Adjust idle speed or see your POLARIS dealer
Clogged idle jet	Disassemble carburetor and clean the jets
Other mechanical failure	See your POLARIS dealer

Troubleshooting

Engine Runs Irregularly, Stalls or Misfires

Possible Lean Fuel Mixture Cause	Solution
Low or contaminated fuel	Add or change fuel, clean the fuel system
Low octane fuel	Replace with recommended fuel
Old or non-recommended fuel	Replace with recommended fuel
Clogged fuel valve screen	See your POLARIS dealer
Incorrect jetting	See your POLARIS dealer
Possible Rich Fuel Mixture Cause	Solution
Overuse of choke	Inspect, clean and/or replace spark plugs
Fuel is very high octane	Replace with recommended octane fuel
Incorrect jetting	See your POLARIS dealer
Plugged, dirty or wet air filter	Clean pre-filter, replace main filter as needed

Troubleshooting

Engine Fails to Reach High RPM

Possible Cause	Solution
Worn or dirty needle valve	Clean and/or replace needle valve
Loose carburetor jets	Tighten jets
Faulty ignition timing	See your POLARIS dealer

Engine Uses Excessive Oil

Possible Cause	Solution
Bent engine ventilation hose	Install a new hose
Excessive oil in system	Check oil level, maintain at recommended level
Use of non-recommended oil (too thin)	Replace with a recommended oil

Troubleshooting

Engine Stops or Loses Power

Possible Cause	Solution
Out of fuel	Turn the fuel valve to reserve, refuel
Interrupted fuel supply	Clean fuel system and carburetor
Clogged, dirty or wet air filter	Inspect and clean or replace
Electronic throttle control malfunction	See your POLARIS dealer
Other mechanical failure	See your POLARIS dealer
Overheated engine	Clean radiator screen and core if equipped Clean engine exterior See your POLARIS dealer

Troubleshooting

Engine Stops or Loses Power

Possible Cause	Solution
Kinked or plugged fuel vent line	Inspect and replace
Water present in fuel	Replace with new fuel
Overuse of choke	Inspect, clean and/or replace spark plugs
Fouled or defective spark plug	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wire	See your POLARIS dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge battery to 12.8 VDC
Old or non-recommended fuel	Replace with recommended fuel

Troubleshooting

Engine Overheats

Possible Cause	Solution
Debris lodged in screen	Remove and clean the screen
Plugged radiator	Use a garden hose to flush any debris from the radiator fins. NOTE: High pressure washers can deform the radiator fins and reduce cooling efficiency.
Insufficient coolant	Check levels and fill as needed; check for leaks
Insufficient air flow due to slow operation	Operate at a faster speed to increase air flow
Cooling system has not been bled	Bleed the cooling system
Foam has formed in cooling system	Drain and replace coolant with recommended coolant
Bent cooling hose	Shorten or replace hose
Defective thermostat or thermoswitch	See your POLARIS dealer
Blown fan fuse or defective fan	Replace fuse and check fan for proper operation or see your POLARIS dealer

Troubleshooting

Engine Fails to Reach Full Power

Possible Cause	Solution
Interrupted fuel supply	Clean fuel system and carburetor
Float leaks	Replace the float
Clogged, dirty or wet air filter	Inspect and clean or replace
Faulty exhaust system	Check system for damage; see your POLARIS dealer
Valve gap is too small	Adjust valve gap
Faulty ignition timing	See your POLARIS dealer

Declaration of Conformity

POLARIS Industries Inc.,
2100 Hwy 55, Medina, MN 55340 U.S.A.
Telephone 763-542-0500
April 22, 2010



We, POLARIS Industries Inc., declare that the vehicles listed below conform to the essential health and safety requirements applicable to off-road all-terrain vehicles.

APPLICABLE EUROPEAN DIRECTIVES	TEST / EVALUATION METHODS	
2006/42/EC as amended (Machinery Directive)	EN 1050 hazard analysis prEN 15997 driver-perceived noise level prEN 15997 vibration	
2004/108/EC as amended (EMC Directive)	CISPR 12:2009 CAN/CSA-C108.4-M92	EN 55012:2007 EN 61000-6-2:2005

PRODUCT IDENTIFICATION

VEHICLE SERIES	TRADE NAME	MODEL YEARS
___KA05___ / ___KA09___	OUTLAW 50 / 90	2008, 2009, 2010, 2011
___FA09___	SPORTSMAN 90	2008, 2009, 2010, 2011
___VA17___	RZR 170	2009, 2010, 2011
___PB20___	PHOENIX 200	2008, 2009, 2010, 2011
___BA32___, ___NA32___	TRAIL BLAZER 330	2008, 2009, 2010, 2011
___CA32___, ___EA32___	TRAIL BOSS 330	2008, 2009, 2010, 2011

Declaration of Conformity

PRODUCT IDENTIFICATION

VEHICLE SERIES	TRADE NAME	MODEL YEARS
___BA50___, ___BG50___	SCRAMBLER 500	2008, 2009, 2010, 2011
___GJ45___	OUTLAW 450	2008, 2009, 2010, 2011
___GJ52___, ___GP52___	OUTLAW 525 / 525 S	2008, 2009, 2010, 2011
___LH46___	SPORTSMAN 400	2008, 2009, 2010, 2011
___MH50___	SPORTSMAN 500 HO	2008, 2009, 2010, 2011
___DH50___	SPORTSMAN 500 HO TOURING	2010, 2011
___ZN55___, ___ZX55___	SPORTSMAN 550 EFI	2009, 2010, 2011
___TN55___, ___TX55___	SPORTSMAN 550 X2	2010, 2011
___DN55___, ___DX55___	SPORTSMAN 550 TOURING	2010, 2011
___MN76___	SPORTSMAN 800	2008, 2009, 2010, 2011
___CL76___, ___CF76___	SPORTSMAN 800 6X6	2009, 2010, 2011
___ZN85___, ___ZX85___	SPORTSMAN 850 EFI	2009, 2010, 2011
___TN85___, ___TX85___	SPORTSMAN 850 X2	2010, 2011
___DN85___, ___DX85___	SPORTSMAN 850 TOURING	2010, 2011
___RH45___	RANGER 400	2010, 2011
___WH45___	RANGER 400 CREW	2011
___RH50___	RANGER 500 4X4	2010, 2011
___TH76___	RANGER 800 EFI 4X4	2010, 2011

Declaration of Conformity

PRODUCT IDENTIFICATION

VEHICLE SERIES	TRADE NAME	MODEL YEARS
___WH76___	RANGER 800 EFI CREW	2010, 2011
___HR76___	RANGER 800 6X6	2010, 2011
___HY76___, ___TY76___	RANGER HD 800 4X4	2010, 2011
___TH90___	RANGER DIESEL	2011
___WH90___	RANGER DIESEL CREW	2011
___VH76___, ___VY76___	RANGER RZR / RZR S	2008, 2009, 2010, 2011
___XH76___	RANGER RZR 4	2011

<p>European Community Person Authorized to Compile the Technical File:</p> <p>Ross Clifford, General Manager POLARIS Britain Ltd Forge Mills Park, Station Road Coleshill, Warwickshire B46 1HT</p>	<p>Authorized Manufacturer Signatory Empowered to Draw up the EC Declaration of Conformity:</p> <p>Lawrence E. Keller, Product Compliance Manager 7290 East Viking Blvd. Wyoming, MN 55092</p>
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LIMITED WARRANTY

POLARIS Sales Inc., 2100 Highway 55, Medina, MN 55340, gives a SIX MONTH LIMITED WARRANTY on all components of the POLARIS All Terrain Vehicle (ATV) against defects in material or workmanship. POLARIS also gives a one year limited warranty on the final drive chain (if equipped) for failure due to defects. This warranty covers the parts and labor charges for repair or replacement of defective parts which are covered by this warranty. This warranty begins on the date of purchase. This warranty is transferable to another consumer during the warranty period through a POLARIS dealer.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to POLARIS within ten days. Upon receipt of this registration, POLARIS will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be the warranty entitlement. If you have not signed the original registration and received the “customer copy”, please contact your dealer immediately. **NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR ATV IS REGISTERED WITH POLARIS.**

Initial dealer preparation and set-up of your ATV is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

Warranty

WARRANTY COVERAGE AND EXCLUSIONS:

LIMITATIONS OF WARRANTIES AND REMEDIES

The POLARIS limited warranty excludes any failures that are not caused by a defect in material or workmanship. This warranty does not cover accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any ATV that has been altered structurally, modified, neglected, improperly maintained, used for racing, or used for purposes other than for which it was manufactured, or for any damages which occur during trailer transit or as a result of unauthorized service or the use of unauthorized parts. In addition, this warranty does not cover physical damage to paint or finish, stress cracks, tearing or puncturing of upholstery material, corrosion, or defects in parts, components or the ATV due to fire, explosions or any other cause beyond POLARIS' control.

Warranty does not apply to parts exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items:

- Wheels and tires
- Suspension components
- Brake components
- Seat components
- Clutches and components
- Steering components
- Batteries
- Light bulbs/Sealed beam lamps
- Finished and unfinished surfaces
- Carburetor/Throttle body components
- Engine components
- Drive belts
- Hydraulic components
- Circuit breakers/Fuses
- Electronic components

WARRANTY COVERAGE AND EXCLUSIONS: LIMITATIONS OF WARRANTIES AND REMEDIES

Warranty applies to the product only and does not allow for coverage of personal loss. Some items are considered "consumable," meaning they are considered part of normal maintenance or part of completing an effective repair. The following items are excluded from warranty coverage in the event of a warranty claim:

- Spark Plugs
- Filters
- Fuel
- Sealants
- Hotel fees
- Towing charges
- Mileage
- Rentals/Loss of product use
- Lubricants such as oil, grease, etc.
- Batteries (unless defective)
- Cosmetic damage/repair
- Coolants
- Meals
- Shipping/ handling fees
- Product pick-up/delivery
- Loss of vacation/personal time

Warranty

WARRANTY COVERAGE AND EXCLUSIONS:

LIMITATIONS OF WARRANTIES AND REMEDIES

This warranty also excludes failures resulting from improper lubrication; improper engine timing; improper fuel; surface imperfections caused by external stress, heat, cold or contamination; operator error or abuse; improper component alignment, tension, adjustment or altitude compensation; failure due to snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket components resulting in failure; unauthorized repairs; repairs made after the warranty period expires or by an unauthorized repair center; use of the product in competition or for commercial purposes. Warranty will not apply to any product which has been damaged by abuse, accident, fire or any other casualty not determined a defect of materials or workmanship.

WARRANTY COVERAGE AND EXCLUSIONS: LIMITATIONS OF WARRANTIES AND REMEDIES

This warranty does not cover the use of unauthorized lubricants, chemicals, or fuels that are not compatible with the ATV. The exclusive remedy for breach of this warranty shall be, at POLARIS' exclusive option, repair or replacement of any defective materials, or components or products. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE. Some states do not permit the exclusion or limitation of incidental or consequential damages or implied warranties, so the above limitations or exclusions may not apply to you if inconsistent with controlling state law.

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE ABOVE SIX MONTH WARRANTY PERIOD. POLARIS FURTHER DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you if inconsistent with controlling state law.

Warranty

HOW TO OBTAIN WARRANTY SERVICE

If your ATV requires warranty service, you must take it to a POLARIS dealer authorized to repair POLARIS ATVs. When requesting warranty service you must present your copy of the Warranty Registration form to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY). POLARIS suggests that you use your original selling dealer; however, you may use any POLARIS Servicing Dealer to perform warranty service.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance they will contact the appropriate personnel at POLARIS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If any of the above terms are void because of state or federal law, all other warranty terms will remain in effect.

Recommended Lubricants

1. Mixing oil brands or using non-recommended oil may cause engine damage. We recommend the use of POLARIS engine oil.
2. Damage resulting from the use of non-recommended lubricants may not be covered by warranty.

Spark Arrestor

POLARIS warrants that the spark arrestor in this vehicle will meet the efficiency requirements of USFS standard 5100-1c for at least 1000 hours when subjected to normal use and when maintenance and installation are in accordance with POLARIS recommendations.

EXPORTED VEHICLES

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WARRANTY OR SERVICE BULLETIN COVERAGE ON THIS VEHICLE IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION.

This policy does not apply to vehicles that have received authorization for export from POLARIS Industries. Dealers may not give authorization for export. You should consult an authorized dealer to determine this vehicle's warranty or service bulletin coverage if you have any questions.

This policy does not apply to vehicles registered to government officials or military personnel on assignment outside the country of the selling dealer's authorized location.

This policy does not apply to Safety Bulletins.

How to Get Service

In the country where your vehicle was purchased:

Warranty or Service Bulletin repairs must be done by an authorized POLARIS dealer. If you move or are traveling within the country where your vehicle was purchased, Warranty or Service Bulletin repairs may be requested from any authorized POLARIS dealer who sells the same line as your vehicle.

Outside the country where your vehicle was purchased:

If you are traveling temporarily outside the country where your vehicle was purchased, you should take your vehicle to an authorized POLARIS dealer. You must show the dealer photo identification from the country of the selling dealer's authorized location as proof of residence. Upon residence verification, the servicing dealer will be authorized to perform the warranty repair.

Warranty

EXPORTED VEHICLES

How to Get Service

If You Move:

If you move to another country, be sure to contact POLARIS Customer Assistance and the customs department of the destination country before you move. Vehicles importation rules vary considerably from country to country. You may be required to present documentation of your move to POLARIS Industries in order to continue your warranty coverage. You may also be required to obtain documentation from POLARIS Industries in order to register your vehicle in your new country. You should warranty register your vehicle at a local POLARIS dealer in your new country immediately after you move to continue your warranty coverage and to ensure that you receive safety information and notices regarding your vehicle.

If Purchased From A Private Party:

If you purchase a POLARIS product from a private citizen outside of the country in which the vehicle was originally purchased, all warranty coverage will be denied. You must nonetheless warranty register your vehicle under your name and address with a local POLARIS dealer in your country to ensure that you receive safety information and notices regarding your vehicle.

Notice

If your vehicle is registered outside of the country where it was purchased, and you have not followed the procedure set out above, your vehicle will no longer be eligible for warranty or service bulletin coverage of any kind, other than *safety* bulletins. (Vehicles registered to Government officials or military personnel on assignment outside of the country where the vehicle was purchased will continue to be covered by the basic warranty.)

For questions call POLARIS Customer Assistance:

United States: 1-888-704-5290

Canada: 1-204-925-7100

U.S.A. EPA Emissions Limited Warranty

This emissions limited warranty is in addition to the POLARIS standard limited warranty for your vehicle. POLARIS Industries Inc. warrants that at the time it is first purchased, this emissions-certified vehicle is designed, built and equipped so it conforms with applicable U.S. Environmental Protection Agency emission regulations. POLARIS warrants that the vehicle is free from defects in materials and workmanship that would cause it to fail to meet these regulations.

The warranty period for this emissions-certified vehicle starts on the date the vehicle is first purchased and continues for a period of 250 hours of engine operation, 2500 kilometers (1550 miles) of vehicle travel, or 30 calendar months from the date of purchase, whichever comes first.

This emissions limited warranty covers components whose failure increases the vehicle's regulated emissions, and it covers components of systems whose only purpose is to control emissions. Repairing or replacing other components not covered by this warranty is the responsibility of the vehicle owner. This emissions limited warranty does not cover components whose failure does not increase the vehicle's regulated emissions.

Warranty

U.S.A. EPA Emissions Limited Warranty

For exhaust emissions, emission-related components include any engine parts related to the following systems:

- Air-induction system
- Ignition system
- Fuel system
- Exhaust gas recirculation systems

The following parts are also considered emission-related components for exhaust emissions:

- Aftertreatment devices
- Sensors
- Crankcase ventilation valves
- Electronic control units

The following parts are considered emission-related components for evaporative emissions:

- Fuel Tank
- Vacuum Control Diaphragms*
- Fuel Cap
- Control Cables*
- Fuel Line
- Control Linkages*
- Fuel Line Fittings
- Purge Valves
- Clamps*
- Vapor Hoses
- Pressure Relief Valves*
- Liquid/Vapor Separator
- Control Valves*
- Carbon Canister
- Control Solenoids*
- Canister Mounting Brackets
- Electronic Controls*
- Carburetor Purge Port Connector

*As related to the evaporative emission control system.

U.S.A. EPA Emissions Limited Warranty

The exclusive remedy for breach of this limited warranty shall be, at the exclusive option of POLARIS, repair or replacement of any defective materials, components or products. THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE WARRANTY PERIOD DESCRIBED HEREIN. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply if it is inconsistent with the controlling state law.

Warranty

U.S.A. EPA Emissions Limited Warranty

This limited warranty excludes failures not caused by a defect in material or workmanship. This limited warranty does not cover damage due to accidents, abuse or improper handling, maintenance or use. This limited warranty also does not cover any engine that has been structurally altered, or when the vehicle has been used in racing competition. This limited warranty also does not cover physical damage, corrosion or defects caused by fire, explosions or other similar causes beyond the control of POLARIS.

Owners are responsible for performing the scheduled maintenance identified in the owner's manual. POLARIS may deny warranty claims for failures that have been caused by the owner's or operator's improper maintenance or use, by accidents for which POLARIS has no responsibility, or by acts of God.

Any qualified repair shop or person may maintain, replace, or repair the emission control devices or systems on your vehicle. POLARIS recommends that you contact an authorized POLARIS dealer to perform any service that may be necessary for your vehicle. POLARIS also recommends that you use only Pure POLARIS parts. It is a potential violation of the Clean Air Act if a part supplied by an aftermarket parts manufacturer reduces the effectiveness of the vehicle's emission controls. Tampering with emission controls is prohibited by federal law.

If you have any questions regarding your warranty rights and responsibilities, please contact the POLARIS Warranty Department at 1-888-704-5290.

Maintenance Log

Present this section of your manual to your dealer each time your vehicle is serviced. This will provide you and future owners with an accurate log of maintenance and services performed.

DATE	SERVICE INTERVAL (HOURS)	TECHNICIAN	SERVICE PERFORMED / COMMENTS
	3 Hours (Break-in)		
	15		
	30		
	45		

Maintenance Log

DATE	SERVICE INTERVAL (HOURS)	TECHNICIAN	SERVICE PERFORMED / COMMENTS
	60		
	90		

Maintenance Log

DATE	SERVICE INTERVAL (HOURS)	TECHNICIAN	SERVICE PERFORMED / COMMENTS

Maintenance Log

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