

# POLARIS®



## Sportsman® 570

**Owner's Manual  
for Maintenance and Safety**

**Read this manual carefully. It contains important safety information.  
This is an adult vehicle only.  
Operation is prohibited for those under 16 years of age.**

**⚠ 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.



*For videos and more information about a safe riding experience with your Polaris vehicle, scan this QR code with your smartphone.*

# WELCOME

Thank you for purchasing a POLARIS vehicle, and welcome to our world-wide family of POLARIS enthusiasts. Be sure to visit us online at [www.polaris.com](http://www.polaris.com) for the latest news, new product introductions, upcoming events, career opportunities and more.

Here at POLARIS we proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- Low emission vehicles (LEVs)
- *RANGER*® utility vehicles
- *RZR*® sport vehicles
- *VICTORY*® motorcycles
- *GEM*® vehicles

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.

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.



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Copyright 2014 POLARIS Industries Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

Printed in U.S.A.

2015 SPORTSMAN 570 Owner's Manual

P/N 9925122

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# INTRODUCTION

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.

## DANGER

A DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

## WARNING

A WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

## CAUTION

A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

## NOTICE

A NOTICE indicates a situation that could 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.

## **⚠ WARNING**

Failure to heed 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 certified ATV safety training course ([www.atvsafety.org](http://www.atvsafety.org)).
- 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 ([www.atvsafety.org](http://www.atvsafety.org)).

## **European Vibration and Noise**

The driver-perceived noise and hand/arm and whole body vibration levels of this machinery is measured per prEN 15997.

The operating conditions of the machinery during testing:

The vehicles were in like-new condition. The environment was controlled as indicated by the test procedure(s).

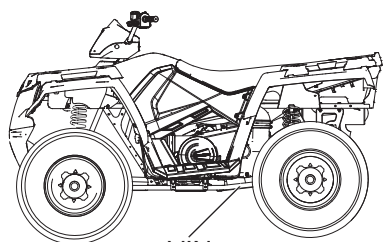
The uncertainty of vibration exposure measurement is dependent on many factors, including:

- Instrument and calibration uncertainty
- Variations in the machine such as wear of components
- Variation of machine operators such as experience or physique
- Ability of the worker to reproduce typical work during measurements
- Environmental factors such as ambient noise or temperature

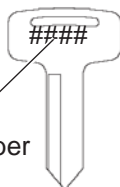
# INTRODUCTION

## Vehicle Identification Numbers

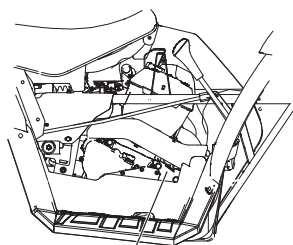
Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a POLARIS key blank (using your key number) and mating it with one of your existing keys. The ignition switch must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



VIN  
(front or rear frame)



Key Number



Engine Serial  
Number

Vehicle Model Number: \_\_\_\_\_

Frame VIN: \_\_\_\_\_

Engine Serial Number: \_\_\_\_\_

Key Number: \_\_\_\_\_



## 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*<sup>sm</sup> 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*<sup>sm</sup> for a fee. Call ATV Enrollment Express at (800) 887-2887 or visit [www.atvsafety.org](http://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.

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

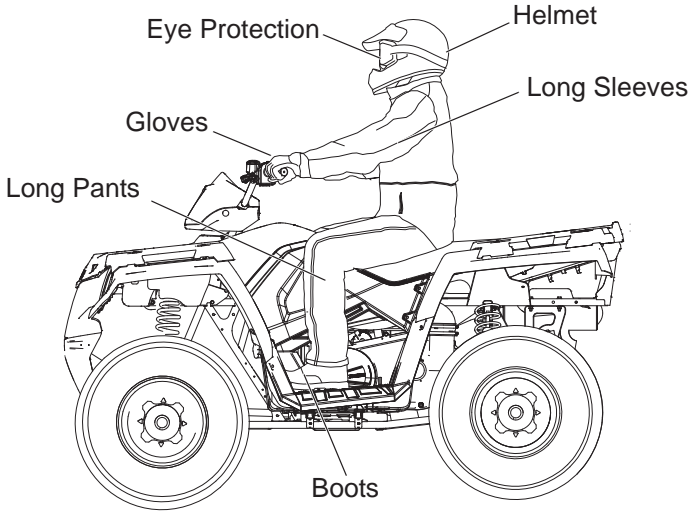
We strongly advise you to strictly follow the recommended maintenance program outlined in your owner's manual. This preventive maintenance program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals.

**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](http://www.cpsc.gov), visit [www.atvsafety.org](http://www.atvsafety.org), or call POLARIS at 1-800-342-3764.**

# SAFETY

## Safe Riding Gear

Always wear appropriate clothing when riding an ATV. Wear protective clothing for comfort and to reduce the chance of injury.

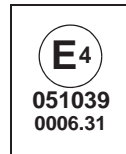


### Helmet

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.



## 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 sturdy over-the-calf boots with low heels.

### Clothing

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

## Equipment Modifications

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.

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

## Safety Warnings

### **⚠ WARNING**

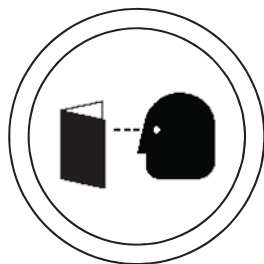
Failure to operate the ATV properly can result in a collision, loss of control, accident or rollover, which may result in serious injury or death. Heed all safety warnings outlined in this section of the owner's manual. See the OPERATION section of the owner's manual for proper operating procedures.

### **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 recommended safety training before operating this vehicle. See page 7.

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.



### **Age Restrictions**

This vehicle is an **ADULT VEHICLE ONLY**. Operation is prohibited for anyone under 16 years of age.

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 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.

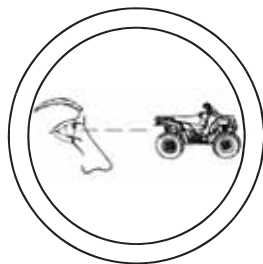
The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

### 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.



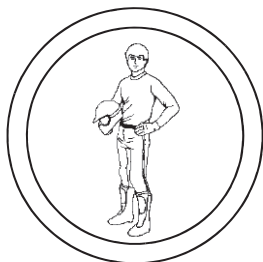
# SAFETY

## Safety Warnings

### Protective Apparel

Riding in this vehicle without wearing an approved helmet and protective eye wear increases the risk of a serious injuries in the event of an accident.

The operator must always wear an approved helmet that fits properly and eye protection (goggles or face shield).



### 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.



### 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 rollover.

Never carry a passenger on this ATV.



## 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 rollover.

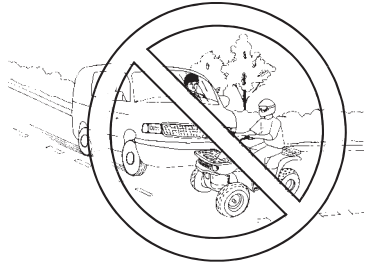
Avoid operating the ATV on pavement. ATV tires are designed for off-road use. If it's unavoidable, travel slowly and avoid sudden turns or stops.



### 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.



### 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.



# SAFETY

## Safety Warnings

### Physical Control of the ATV

Removing a hand from the handlebars or feet from the footrests 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 footrest, it could also contact the rear wheels.

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



### Turning Improperly

Turning improperly could cause loss of traction, loss of control, accident or rollover.

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 rollover.

Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.



### Improper Hill Climbing

Improper hill climbing could cause loss of control or rollover. Always follow proper procedures for climbing hills as described in the owner's manual. See page 55.



## Safety Warnings

### Descending Hills Improperly

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

- 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 57.
- 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.



### Crossing Hillside

Driving on a sidehill is not recommended. Improper procedure could cause loss of control or rollover. 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 56.

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 58.



# SAFETY

## Safety Warnings

### Stalling While Climbing a Hill

Stalling, rolling backwards or improperly dismounting while climbing a hill could cause vehicle rollover.

- Always maintain a steady speed when climbing a hill.

If all forward speed is lost:

- Keep body weight uphill.
- Apply the brakes.
- Lock the parking brake when fully stopped.
- 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 58.

If the ATV begins rolling downhill:

- Keep body weight uphill.
- Never apply engine power.
- Never apply the rear brake while rolling backwards. Apply the single-lever brake gradually.
- 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 58.



### Operating on Steep Hills

Operating on excessively steep hills could cause vehicle rollover.

Never operate on hills too steep for the ATV or for your abilities. Never operate the ATV on hills steeper than 25 degrees.



## 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 rollover.

Do not operate on excessively rough, slippery or loose terrain. Always use extra caution on rough, slippery or loose terrain.



### Operating in Unfamiliar Terrain

Failure to use extra caution when operating on unfamiliar terrain could result in an accident or rollover.

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or rollover.

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



# SAFETY

## Safety Warnings

### 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 61.

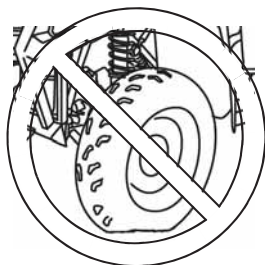
Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it's safe to proceed, back slowly.

### 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.



### Operating Over Obstacles

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

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 60.

### Skidding or Sliding

Skidding or sliding can cause loss of control or rollover (if tires regain traction unexpectedly).

On slippery surfaces such as ice or loose gravel, travel slowly and use extra caution to reduce the chance of skidding or sliding. Do not operate on excessively slippery surfaces.

## 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 rollover.

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the recommended maximum depth (see page 59):

- 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 slowly. The friction will help dry out the pads.



### Improper Cargo Loading

Overloading the ATV or carrying/towing cargo improperly may cause changes in handling, which could cause loss of control or an accident.

- Never exceed the stated load capacity for this ATV.
- Cargo should be properly distributed and securely attached.
- Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking.
- NEVER exceed 50 MPH (80 km/h) when rear cargo loads are above 75 lbs. (34 kg) and/or front cargo loads are above 37 lbs. (17 kg).
- Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer. See page 63.

# **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.

### **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.

### **Operating a Damaged ATV**

Operating a damaged ATV can result in an accident. After any rollover 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 rollover and loss of control.

### **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 rollover. Always remove the ignition key when the vehicle is not in use.

## 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.

### 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:

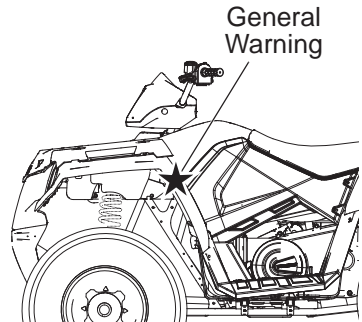
- without proper training or instruction
- at speeds too fast for your skills or the conditions
- on public roads - a collision can occur with another vehicle
- with a passenger - passengers affect balance and steering and increase risk of losing control

#### 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.



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# SAFETY

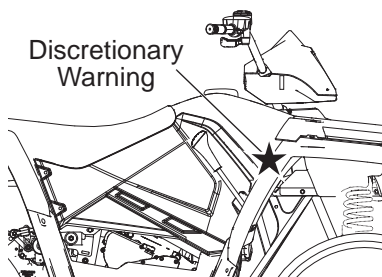
## Safety Labels and Locations

### Discretionary Warning

#### WARNING

- Never operate this ATV on HILLS steeper than 25 degrees. 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.

7175511



### 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: 5.0 psi (34.5 kPa)
  - Rear: 5.0 psi (34.5 kPa)
- Maximum weight capacity: 485 lbs. (220 kg)
- NEVER exceed 50 MPH (80 km/h) when rear cargo loads are above 75 lbs. (34 kg) and/or front cargo loads are above 37 lbs. (17 kg).

7177973

### Hitch Capacity Label

TRAILER MAX WEIGHT: 1225 LBS. (557 KG) ON LEVEL GROUND  
HITCH MAX. VERTICAL WEIGHT: 120 LBS. (55 KG)

7174159

### “No Passenger” Warning

#### WARNING

NEVER ride as a passenger.

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

7175378

### Age 16 Warning

#### WARNING

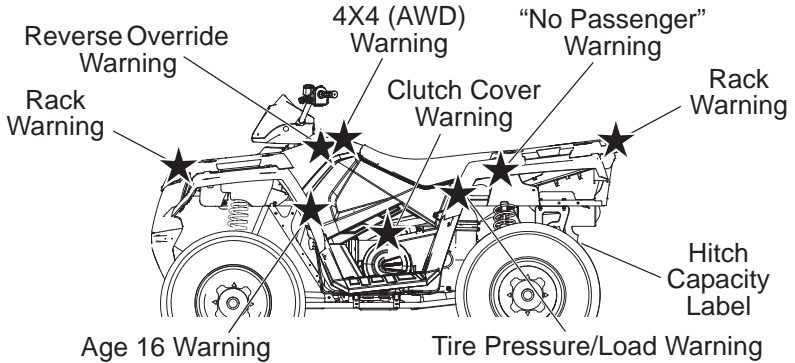
Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age 16.

7175374



## Safety Labels and Locations



### Clutch Cover Warning

#### WARNING

- Moving parts hazard under belt-clutch guard. To prevent serious injury, do not operate vehicle with guard removed.
- Do not modify engine or clutch. Doing so can cause part failure, possible imbalance, and excessive engine RPM, which can result in serious injury or death.

NO STEP

7172563

### Rack Warning, Front and Rear

#### WARNING

- DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch.
- Max Rack Loads: Front 90 lbs. (41 kg) Rear 180 lbs. (82 kg)

7172572

### Reverse Override Warning

#### WARNING

Improper use of override button can lead to loss of control resulting in serious injury or death. Do not activate override while throttle is engaged. Always apply throttle gradually while in reverse.

7175486

### 4X4 (AWD) Warning

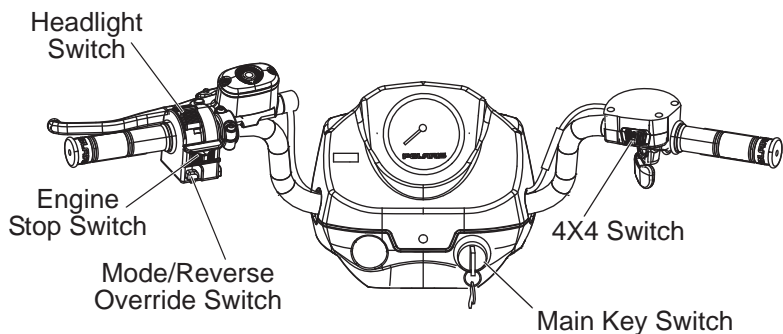
#### WARNING

Do not push switch to engage 4X4 (AWD) if the rear wheels are spinning. This may cause severe drive shaft and clutch damage.

7175485

# FEATURES AND CONTROLS

## Switches



### Mode/Reverse Override Switch

This vehicle is equipped with a reverse speed limiter system. To gain additional wheel speed while backing, release the throttle and depress the override button.

**WARNING!** Pressing the override button while the throttle is open can cause loss of control, which may result in serious injury or death. Always release the throttle before pressing the override button.

The override switch is also used to toggle through the modes of the rider information center. See page 34.

**Tip:** The override switch will not function as a MODE switch if the transmission is in reverse.

### 4X4 Switch

Use the 4X4 switch to engage 4X4 or 2X4. See page 33.

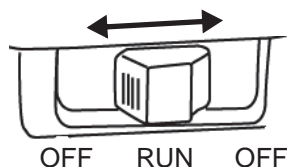
# FEATURES AND CONTROLS

## Switches

### 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.



### Main Key Switch

Use the main key switch to start the engine. See page 51 for starting procedures.

### Headlight Switch

Use the headlight switch to turn the lights on and off and to change 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

## Throttle Lever

### **⚠ WARNING**

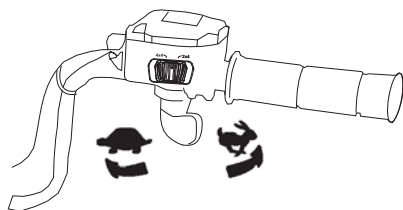
Operating an ATV with sticking or improperly operating throttle controls could cause an accident. Never start or operate an ATV that has a sticking or improperly operating throttle. Always contact your dealer for service before operating the vehicle.

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

Engine speed and vehicle movement are controlled by pressing the throttle lever. The throttle lever is spring loaded. Engine speed returns to idle when the lever is released.

This ATV is equipped with a throttle release switch, 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, engine speed will be limited to idle speed.



# FEATURES AND CONTROLS

## Brake Lever

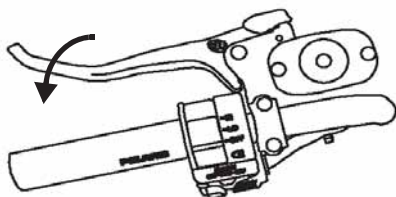
### **⚠ WARNING**

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.

Squeeze the brake lever toward the handlebar to apply the front and rear brakes.

These brakes are hydraulically activated disc type brakes that are activated by only one lever.

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.



# FEATURES AND CONTROLS

## Master Cylinder/Brake Fluid

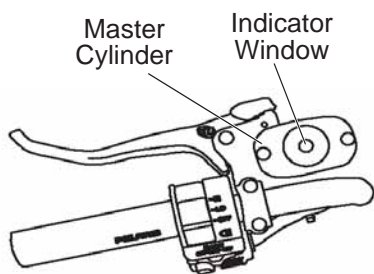
### **⚠ WARNING**

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.

Check the brake fluid in the master cylinder before each ride.

1. Position the ATV on a level surface.
2. Position the handlebars so the master cylinder is level.
3. View the brake fluid level through the indicator window on the top of the master cylinder. The eye will appear dark when the fluid level is full. When fluid is low, the eye will be clear.
4. If the fluid level is low add DOT 4 brake fluid only. Do not overfill.

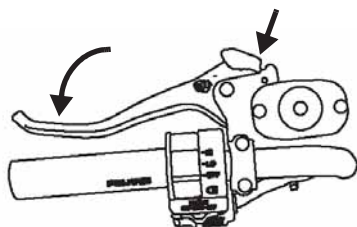


# FEATURES AND CONTROLS

## Parking Brake

### Locking the Parking Brake

1. Place the transmission in PARK.
2. Squeeze and release the brake lever two or three times, then squeeze and hold.
3. Push the parking brake lock forward to engage the lock.
4. Release the brake lever.
5. To release the parking brake lock, squeeze and release the brake lever. It will return to its unlocked position.



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

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.

# FEATURES AND CONTROLS

## Auxiliary Foot Brake

### **⚠ WARNING**

Never back down a hill. Applying the auxiliary brake when backing down a hill may cause rear tipover, which could result in serious injury or death.

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

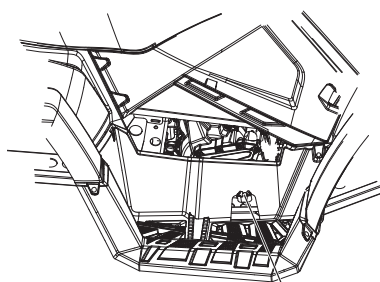
The auxiliary brake system is intended to be used as a backup for the main brake system. Should the main system fail, use the auxiliary foot brake. Since this is a rear brake only, it will not be as effective as the all wheel single lever system.

The auxiliary foot brake is located on the inside of the right footrest. Operate this brake with your right foot.

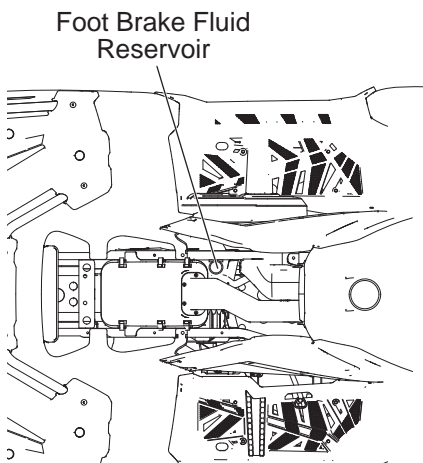
If the rear wheels slide while using the auxiliary brake, *reduce* brake pedal pressure to brake the rear wheels without skidding.

### **Brake Fluid Level**

Check the brake fluid level frequently for the auxiliary brake system. The reservoir is located under the seat on the left side of the vehicle. Maintain the fluid level between the maximum and minimum marks.



Auxiliary Foot Brake



Foot Brake Fluid Reservoir



# FEATURES AND CONTROLS

## Electronic Power Steering (EPS)

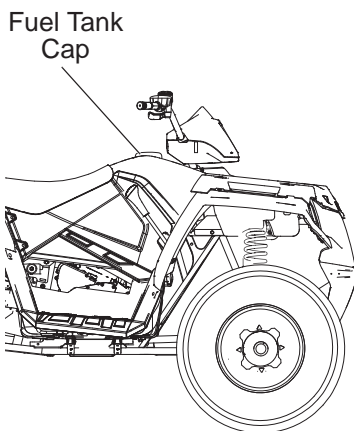
Electronic power steering (EPS), if equipped, engages when the ignition key is turned to the ON position. EPS remains engaged whether the vehicle is moving or idle. See page 35 for EPS Warning Indicator information.

## Fuel Tank Cap

This vehicle is equipped with a digital fuel gauge that will indicate a low fuel condition. Refuel when the gauge indicates a low fuel condition.

Always refuel with the engine stopped, and outdoors or in a well ventilated area. Refuel on a level surface.

Remove the fuel tank cap to add fuel to the fuel tank. Use either leaded or unleaded gasoline with a minimum pump octane number of  $87 = (R + M/2)$  octane. *Do not use fuel with ethanol content greater than 10 percent, such as E-85 fuel.*



## Extreme Use Battery

An optional extreme use battery may be available for your model. If the performance of the factory-installed battery is inadequate due to operation in extreme cold or due to extended use of multiple electrical accessories, please see your POLARIS dealer. Ask your dealer to provide any installation procedures that may differ for an extreme use battery.

# FEATURES AND CONTROLS

## Automatic Transmission Gear Selector

The transmission gear selector is located on the right side of the vehicle.

H: High Gear

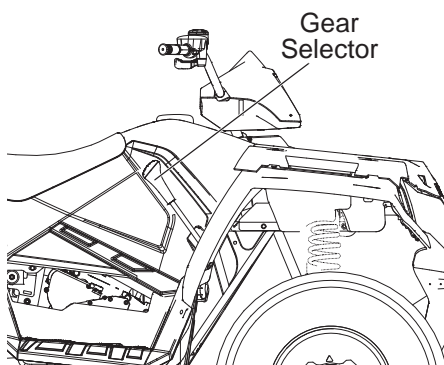
L: Low Gear

N: Neutral

R: Reverse

P: Park

To shift gears, brake to a complete stop. When the engine is idling, move the lever to the desired gear.



**NOTICE:** Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Whenever the ATV is left unattended, always place the transmission in PARK and lock the parking brake.

### Belt Life

To extend belt life, use low forward gear when pulling a heavy load at less than seven miles per hour for extended periods and when operating uphill at a slow speed.

# FEATURES AND CONTROLS

## All Wheel Drive System

The All Wheel Drive system is controlled by the 4X4 switch.

### 4X4 Mode

When the switch is on 4X4, the ATV is in 4X4, and the 4X4 indicator icon in the instrument cluster display will be visible.

When in 4X4, the demand drive unit will automatically engage any time the rear wheels lose traction. When the rear wheels regain traction, the demand drive unit will automatically disengage.

There is no limit to the length of time the vehicle may remain in 4X4. The vehicle automatically engages 4X4 when operating in reverse if the switch is set to the 4X4 position.

### 2X4 Mode

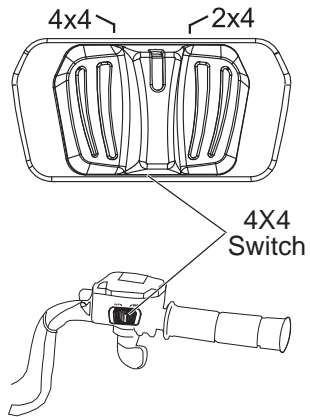
When the switch is on 2X4, the ATV is in two-wheel drive at all times.

## Engaging 4X4

The 4X4 switch may be turned on or off while the vehicle is moving. Initially, the vehicle's electronic system will not enable 4X4 until the engine RPM is below 3100. Once enabled, 4X4 remains enabled until the 4X4 switch is turned off. If the switch is turned off while the demand drive unit is moving, it will not disengage until the rear wheels regain traction.

Engage the 4X4 switch before getting into conditions where front wheel drive may be needed. If the rear wheels are spinning, release the throttle before switching to 4X4.

**NOTICE:** Switching to 4X4 while the rear wheels are spinning may cause severe drive shaft and gearcase damage. Always switch to 4X4 while the rear wheels have traction or are at rest.



# FEATURES AND CONTROLS

## Instrument Cluster

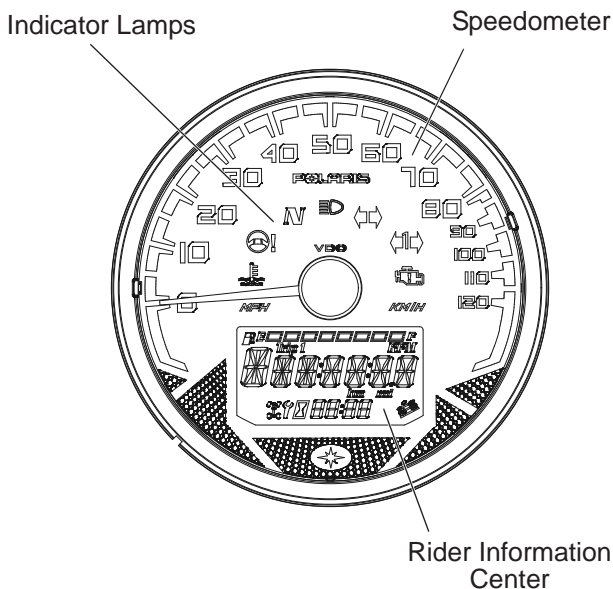
**NOTICE:** High water pressure may damage ATV components. Wash the ATV by hand or with a garden hose using mild soap.

Certain products, including insect repellents and chemicals, will damage the speedometer lens and other plastic surfaces. Do not use alcohol to clean the instrument cluster. Do not allow insect sprays to contact the lens. Immediately clean off any gasoline that splashes on the instrument cluster.

## Digital/Analog Gauge

### Speedometer

The speedometer displays vehicle speed in either miles per hour (MPH) or kilometers per hour (km/h).







# FEATURES AND CONTROLS

## Instrument Cluster

### Digital/Analog Gauge

### Indicator Lamps

Lamp	Indicates	Condition
<i>MPH</i>	Vehicle Speed	When standard mode is selected, speed displays in miles per hour.
<i>KMH</i>		When metric mode is selected, speed displays in kilometers per hour.
	Over Temperature	This lamp flashes to indicate an overheated engine. If the indicator stops flashing but remains illuminated, the overheating condition remains, and the system will automatically reduce engine power.
	EPS Warning (if equipped)	This indicator illuminates when the key is turned to the ON position and goes off when the engine is started. If the light remains on after starting the engine, the EPS system is inoperative. See your authorized POLARIS dealer for service.
<i>N</i>	Neutral	This lamp illuminates when the transmission is in neutral and the ignition key is in the ON position.
	High Beam	This lamp illuminates when the headlamp switch is set to high beam.
	Check Engine	This indicator appears if an EFI-related fault occurs. Do not operate the ATV if this warning appears. Serious engine damage could result. See your dealer.

# FEATURES AND CONTROLS

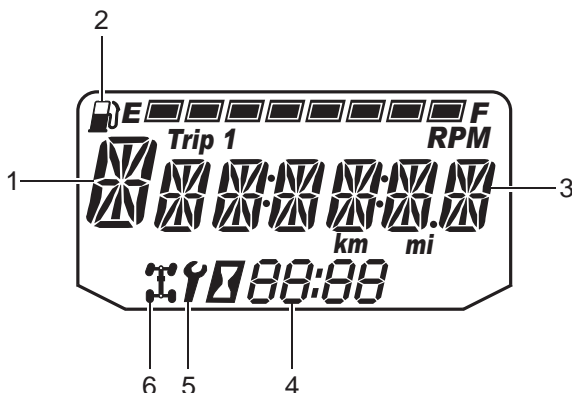
## Instrument Cluster

### Digital/Analog Gauge

### Rider Information Center

The rider information center is located in the instrument cluster. All segments will light up for one second at start-up. If the instrument cluster fails to illuminate, a battery over-voltage may have occurred and the instrument cluster may have shut off to protect the electronic speedometer. If this occurs, take the ATV to your POLARIS dealer for proper diagnosis.

The information center is set to display standard units of measurement and a 12-hour clock at the factory. To change to metric and/or a 24-hour clock, see page 39.



# FEATURES AND CONTROLS

## Instrument Cluster

### Digital/Analog Gauge

### Rider Information Center

1. **Gear Display** - This area displays gear shifter position:  
H = High Gear  
L = Low Gear  
N = Neutral  
R = Reverse Gear  
P = Park  
-- = Gear Signal Error (or shifter between gears)
2. **Fuel Gauge Display** - The segments of the fuel gauge show the level of fuel in the fuel tank. When the last segment clears, a low fuel warning is activated. All segments including the fuel icon will flash. Refuel immediately.  
**Tip:** If the fuel icon fails to display, an open or short circuit has occurred in the fuel sensor circuit. See your dealer.
3. **Information Display** - This area displays odometer, trip meter, engine hour meter, engine speed and programmable service hour interval.
4. **Clock Display** - The clock displays time in a 12-hour or 24-hour format. If the engine is turned off, press the MODE button. The time will display for 5-10 seconds. See page 39 for resetting instructions.
5. **Service Reminder Display** - A flashing wrench symbol alerts the operator that the preset service interval has been reached. The vehicle should be brought to your dealer for scheduled maintenance. See page 39 for resetting instructions.
6. **4X4 Display** - This icon displays when the 4X4 system is engaged.

# FEATURES AND CONTROLS

## Instrument Cluster

### Digital/Analog Gauge

### Rider Information Center

The reverse override button acts as the MODE button when pressed and released quickly. The transmission cannot be in reverse when using the override button as a MODE button. This feature does not contain a vehicle speed lockout function and can be used at any operating speed.

### Display Units (Standard/Metric)

The display can be changed to display either standard or metric units of measurement.

**Tip:** To exit the set-up mode at any time, wait 10 seconds. The display automatically exits and returns to the odometer display.

	<b>Standard Display</b>	<b>Metric Display</b>
<b>Distance</b>	Miles	Kilometers
<b>Time</b>	12-Hour Clock	24-Hour Clock

1. Turn the key to the OFF position.
2. Place the transmission in neutral.
3. Press and *hold* the MODE button while turning the key to the ON position.
4. When the display flashes the distance setting, tap the MODE button to advance to the desired setting.
5. Press and *hold* the MODE button to save the setting and advance to the next display option.
6. Repeat the procedure to change remaining display settings.



# FEATURES AND CONTROLS

## Instrument Cluster

### Digital/Analog Gauge

### Rider Information Center

#### Clock Mode

**Tip:** The clock must be reset any time the battery has been disconnected or discharged.

1. Turn the key to the ON position. Use the MODE button to toggle to the odometer display.
2. Press and *hold* the MODE button until the hour segment flashes. Release the button.
3. With the segment flashing, tap the MODE button to advance to the desired setting.
4. Press and *hold* the MODE button until the next segment flashes. Release the button.
5. Repeat steps 3-4 twice to set the 10-minute and 1-minute segments. After completing the 1-minute segment, step 4 will save the new settings and exit the clock mode.
6. Turn the key to the OFF position.

#### Odometer Mode

The odometer records and displays the distance traveled by the ATV.

#### Trip Meter Mode

The trip meter records the distance traveled by the ATV if reset before each trip. To reset, select the trip meter mode. Press and hold the MODE button until the meter resets to zero. In the Rider Information Center, the trip meter display contains a decimal point, but the odometer displays without a decimal point.

#### Hour Meter Mode

This mode logs the total hours the engine has been in operation.

# FEATURES AND CONTROLS

## Instrument Cluster

### Digital/Analog Gauge

### Rider Information Center

#### Programmable Service Interval

When the hours of engine operation equal the programmed service interval setting, the wrench icon will flash for 5 seconds each time the engine is started. When this feature is enabled, it provides a convenient reminder to perform routine maintenance. The service interval is programmed at 50 hours at the factory. Use the following procedure to change the service interval.

1. Press the MODE button until remaining service hours display.
2. Press and hold the MODE button.
3. When the service hours flash, press and release the MODE button to advance the hours to the desired setting (including OFF). Press and hold the MODE button to set the new service hour interval.

#### Diagnostic Display Mode

The EFI diagnostic display mode is for informational purposes only. Please see your POLARIS dealer for all major repairs.

The diagnostic mode is accessible only when the check engine warning indicator activates after the key has been turned on. Leave the key on if you want to view the active code (failure code).

The diagnostic mode becomes inaccessible if the key is turned off and on and the warning indicator is no longer active. This allows the determination of persistent as well as intermittent faults.

Inactive codes are stored in the history of the unit.

# FEATURES AND CONTROLS

## Instrument Cluster

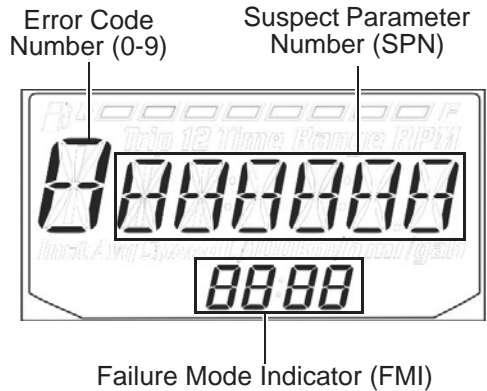
### Digital/Analog Gauge

### Rider Information Center

#### Engine Error Codes

The error screen displays only when the CHECK ENGINE light is on or when it goes on and off during one ignition cycle. Error codes are not stored in the gauge when the key is turned off. The code and message is lost, but will reappear if the fault reoccurs after restarting the engine.

If the CHECK ENGINE light illuminates, retrieve the error codes from the display. Please see your Polaris dealer for all major repairs.



1. If the error codes are not displayed, use the MODE button to toggle until "Ck ENG" displays on the main line of the display.
2. Press and hold the MODE button to enter the diagnostics code menu.
3. Record the numbers displayed in the gear position (if any), clock and odometer displays.
4. Press the MODE button to advance to the next error code.
5. Press and hold the MODE button to exit the diagnostics code menu.
6. See pages 42-44 for code definitions and failure descriptions. Please see your Polaris dealer for all major repairs.

# FEATURES AND CONTROLS

## Instrument Cluster

### Diagnostic Display Code Definitions

***Open Load:*** There is a break in the wires that lead to the item listed in the chart (injector, fuel pump, etc.), or the item has failed.

***Short-to-Ground:*** The wire is shorted to ground between the electronic control unit and the item listed in the chart.

***Shorted Load:*** The wires leading to the item listed in the chart are shorted together, or the item has shorted internally.

***Short-to-Battery:*** The wire leading from the item listed in the chart to the electronic control unit is shorted to a wire at battery voltage.

Diagnostic Codes			
Component	Condition	SPN	FMI
Accelerator Position 2	Data Erratic, Intermittent Or Incorrect	29	2
	Voltage Above Normal, Or Shorted To High Source	29	3
	Voltage Below Normal, Or Shorted To Low Source	29	4
Throttle Position Sensor 1	Data Valid But Above Normal Operational Range - Most Severe Level	51	0
	Data Valid But Below Normal Operational Range - Most Severe Level	51	1
	Data Erratic, Intermittent Or Incorrect	51	2
	Voltage Above Normal, Or Shorted To High Source	51	3
	Voltage Below Normal, Or Shorted To Low Source	51	4
	Abnormal Rate Of Change	51	10
	Out Of Calibration	51	13
Vehicle Speed Sensor	Data Valid But Above Normal Operational Range - Most Severe Level	84	0
	Data Valid But Below Normal Operational Range - Most Severe Level	84	1
	Data Erratic, Intermittent Or Incorrect	84	2
	Voltage Above Normal, Or Shorted To High Source	84	3
	Voltage Below Normal, Or Shorted To Low Source	84	4
	Abnormal Frequency Or Pulse Width Or Period	84	8
	Abnormal Update Rate	84	9
	Abnormal Rate Of Change	84	10
	Bad Intelligent Device Or Component	84	12
	Received Network Data In Error	84	19
Accelerator Position 1	Data Erratic, Intermittent Or Incorrect	91	2
	Voltage Above Normal, Or Shorted To High Source	91	3
	Voltage Below Normal, Or Shorted To Low Source	91	4
Manifold Absolute Pressure Sensor	Data Erratic, Intermittent Or Incorrect	102	2
	Voltage Above Normal, Or Shorted To High Source	102	3
	Voltage Below Normal, Or Shorted To Low Source	102	4
	Mechanical System Not Responding Or Out Of Adjustment	102	7
	Abnormal Rate Of Change	102	10

# FEATURES AND CONTROLS

## Instrument Cluster

### Diagnostic Display Code Definitions

Diagnostic Codes			
Component	Condition	SPN	FMI
Intake Air Temperature Sensor	Data Erratic, Intermittent Or Incorrect	105	2
	Voltage Above Normal, Or Shorted To High Source	105	3
	Voltage Below Normal, Or Shorted To Low Source	105	4
	Abnormal Rate Of Change	105	10
	Data Valid But Above Normal Operating Range - Least Severe Level	105	15
Engine Temperature Sensor	Data Valid But Above Normal Operational Range - Most Severe Level	110	0
	Data Erratic, Intermittent Or Incorrect	110	2
	Voltage Above Normal, Or Shorted To High Source	110	3
	Voltage Below Normal, Or Shorted To Low Source	110	4
	Abnormal Rate Of Change	110	10
	Data Valid But Above Normal Operating Range - Least Severe Level	110	15
	Data Valid But Above Normal Operating Range - Moderately Severe Level	110	16
Data Valid But Below Normal Operating Range - Least Severe Level	110	17	
System Power	Data Valid But Above Normal Operational Range - Most Severe Level	168	0
	Data Valid But Below Normal Operational Range - Most Severe Level	168	1
	Voltage Above Normal, Or Shorted To High Source	168	3
	Voltage Below Normal, Or Shorted To Low Source	168	4
	Data Valid But Above Normal Operating Range - Moderately Severe Level	168	16
	Data Valid But Below Normal Operating Range - Moderately Severe Level	168	18
Engine Speed	Data Valid But Above Normal Operational Range - Most Severe Level	190	0
	Data Valid But Below Normal Operational Range - Most Severe Level	190	1
	Data Erratic, Intermittent Or Incorrect	190	2
	Mechanical System Not Responding Or Out Of Adjustment	190	7
	Received Network Data In Error	190	19
	Condition Exists	190	31
Gear Sensor Signal	Data Erratic, Intermittent Or Incorrect	523	2
	Voltage Above Normal, Or Shorted To High Source	523	3
	Voltage Below Normal, Or Shorted To Low Source	523	4
	Abnormal Update Rate	523	9
ECU Memory	Bad Intelligent Device Or Component	628	12
	Out Of Calibration	628	13
Calibration	Out Of Calibration	630	13
Crankshaft Position Sensor	Data Erratic, Intermittent Or Incorrect	636	2
	Abnormal Frequency Or Pulse Width Or Period	636	8
Injector 1 (Front) (MAG) (SDI Port Injector)	Voltage Above Normal, Or Shorted To High Source	651	3
	Voltage Below Normal, Or Shorted To Low Source	651	4
	Current Below Normal Or Open Circuit	651	5

# FEATURES AND CONTROLS

## Instrument Cluster

### Diagnostic Display Code Definitions

Diagnostic Codes			
Component	Condition	SPN	FMI
Fan Relay Driver Circuit	Voltage Above Normal, Or Shorted To High Source	1071	3
	Voltage Below Normal, Or Shorted To Low Source	1071	4
	Current Below Normal Or Open Circuit	1071	5
Ignition Coil Primary Driver 1 (Front) (MAG)	Voltage Above Normal, Or Shorted To High Source	1268	3
	Voltage Below Normal, Or Shorted To Low Source	1268	4
	Current Below Normal Or Open Circuit	1268	5
Fuel Pump Driver Circuit	Voltage Above Normal, Or Shorted To High Source	1347	3
	Voltage Below Normal, Or Shorted To Low Source	1347	4
	Current Below Normal Or Open Circuit	1347	5
Oxygen Sensor 1	Data Erratic, Intermittent Or Incorrect	3056	2
	Voltage Above Normal, Or Shorted To High Source	3056	3
	Voltage Below Normal, Or Shorted To Low Source	3056	4
	Bad Intelligent Device Or Component	3056	12
ECU Output Supply Voltage 1	Data Valid But Above Normal Operational Range - Most Severe Level	3597	0
	Data Valid But Below Normal Operational Range - Most Severe Level	3597	1
	Voltage Above Normal, Or Shorted To High Source	3597	3
	Voltage Below Normal, Or Shorted To Low Source	3597	4
	Data Valid But Above Normal Operating Range - Moderately Severe Level	3597	16
	Data Valid But Below Normal Operating Range - Moderately Severe Level	3597	18
ECU Output Supply Voltage 2	Data Valid But Above Normal Operational Range - Most Severe Level	3598	0
	Data Valid But Below Normal Operational Range - Most Severe Level	3598	1
	Voltage Above Normal, Or Shorted To High Source	3598	3
	Voltage Below Normal, Or Shorted To Low Source	3598	4
	Data Valid But Above Normal Operating Range - Moderately Severe Level	3598	16
	Data Valid But Below Normal Operating Range - Moderately Severe Level	3598	18
ECU Output Supply Voltage 3	Data Valid But Above Normal Operational Range - Most Severe Level	3599	0
	Data Valid But Below Normal Operational Range - Most Severe Level	3599	1
	Voltage Above Normal, Or Shorted To High Source	3599	3
	Voltage Below Normal, Or Shorted To Low Source	3599	4
	Data Valid But Above Normal Operating Range - Moderately Severe Level	3599	16
	Data Valid But Below Normal Operating Range - Moderately Severe Level	3599	18
ETC Accelerator Position Sensor Outputs 1 & 2 Correlation	Data Erratic, Intermittent Or Incorrect	65613	2

# FEATURES AND CONTROLS

## Instrument Cluster

### Diagnostic Display Code Definitions

Diagnostic Codes			
Component	Condition	SPN	FMI
Throttle Position Sensor 2	Data Valid But Above Normal Operational Range - Most Severe Level	520198	0
	Data Valid But Below Normal Operational Range - Most Severe Level	520198	1
	Data Erratic, Intermittent Or Incorrect	520198	2
	Voltage Above Normal, Or Shorted To High Source	520198	3
	Voltage Below Normal, Or Shorted To Low Source	520198	4
	Abnormal Rate Of Change	520198	10
	Out Of Calibration	520198	13
Active Descent Control System	Voltage Above Normal, Or Shorted To High Source	520203	3
	Voltage Below Normal, Or Shorted To Low Source	520203	4
	Current Below Normal Or Open Circuit	520203	5
Fuel Correction Front	Data Valid But Above Normal Operating Range - Least Severe Level	520204	15
	Data Valid But Below Normal Operating Range - Least Severe Level	520204	17
All Wheel Drive Control Circuit	Voltage Above Normal, Or Shorted To High Source	520207	3
	Voltage Below Normal, Or Shorted To Low Source	520207	4
	Current Below Normal Or Open Circuit	520207	5
Oxygen Sensor Heater 1	Data Erratic, Intermittent Or Incorrect	520209	2
	Voltage Above Normal, Or Shorted To High Source	520209	3
	Voltage Below Normal, Or Shorted To Low Source	520209	4
	Current Below Normal Or Open Circuit	520209	5
Accelerator Position/Brake Position Interaction	Condition Exists	520275	31
Throttle Position Sensor (1 or 2 Indeterminable)	Data Erratic, Intermittent Or Incorrect	520276	2
	Bad Intelligent Device Or Component	520276	12
Throttle Body Control - Power Stage	Data Erratic, Intermittent Or Incorrect	520277	2
	Voltage Above Normal, Or Shorted To High Source	520277	3
	Voltage Below Normal, Or Shorted To Low Source	520277	4
	Abnormal Frequency Or Pulse Width Or Period	520277	8
	Condition Exists	520277	31
Throttle Body Control - Return Spring Check Failed	Condition Exists	520278	31
Throttle Body Control - Adaption Aborted	Condition Exists	520279	31
Throttle Body Control - Limp Home Position Check Failed	Condition Exists	520280	31
Throttle Body Control - Mechanical Stop Adaptation Failure	Condition Exists	520281	31
Throttle Body Control - Repeated Adaptation Failed	Condition Exists	520282	31
Throttle Body Control	Data Erratic, Intermittent Or Incorrect	520283	2
	Voltage Above Normal, Or Shorted To High Source	520283	3
	Voltage Below Normal, Or Shorted To Low Source	520283	4

# FEATURES AND CONTROLS

## Instrument Cluster

### Diagnostic Display Code Definitions

Diagnostic Codes			
Component	Condition	SPN	FMI
Throttle Body Control - Position Deviation Fault	Condition Exists	520284	31
ECU Monitoring Error	Condition Exists	520286	31
ECU Monitoring Error (Level 3)	Condition Exists	520287	31
ECU Monitoring of Injection Cut Off (Level 1)	Condition Exists	520288	31
ECU Monitoring of Injection Cut Off (Level 2)	Condition Exists	520289	31
Throttle Body Control - Requested Throttle Angle Not Plausible	Condition Exists	520305	31
ECU ADC Fault - No Load	Condition Exists	520306	31
ECU ADC Fault - Voltage	Condition Exists	520307	31
Accelerator Sensor Sync Fault - Sensor Diff Exceeds Limit	Condition Exists	520308	31
ECU Fault - ICO	Condition Exists	520309	31
ECU Fault - Hardware Disruption	Condition Exists	520311	31
Idle Fuel Correction Bank 1	Data Valid But Above Normal Operating Range - Least Severe	520342	15
	Data Valid But Below Normal Operating Range - Least Severe	520342	17
Adaptive Fuel Correction Bank 1	Data Valid But Above Normal Operating Range - Least Severe	520344	15
	Data Valid But Below Normal Operating Range - Least Severe	520344	17
EPS Models Only			
Steering Over Current Shut Down	Current Above Normal Or Grounded Circuit	520221	6
Steering Excessive Current Error	Current Above Normal Or Grounded Circuit	520222	6
Steering Torque Partial Failure	Condition Exists	520223	31
Steering Torque Full Failure	Condition Exists	520224	31
EPAS Inverter Temperature	Data Valid But Above Normal Operational Range - Most Severe	520225	0
	Data Valid But Above Normal Operating Range - Severe	520225	16
EPAS Communications Receive Data Error	Data Erratic, Intermittent Or Incorrect	520226	2
	Condition Exists	520226	31
Position Encoder Error	Root Cause Not Known	520228	11
	Bad Intelligent Device Or Component	520228	12
	Condition Exists	520228	31
EPAS Software Error	Bad Intelligent Device Or Component	520229	12
	Condition Exists	520229	31
EPAS Power Save Condition	Condition Exists	520231	31
EPS SEPIC Voltage Error	Voltage Above Normal, Or Shorted To High Source	524086	3
	Voltage Below Normal, Or Shorted To Low Source	524086	4



## **⚠ WARNING**

Failure to operate the ATV properly can result in a collision, loss of control, accident or rollover, 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 20 hours of operation. 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 drive components will result in more efficient performance and longer life for these components.

**NOTICE:** Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts and drive components. Do not operate at full throttle or high speeds during the first three hours of use.

## **Engine and Drivetrain Break-in**

1. Fill the fuel tank with gasoline. See page 31. Always exercise extreme caution whenever handling gasoline.
2. Check the oil level on the dipstick. See page 84. Add oil if necessary to maintain the level between the safe and add marks.
3. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Vary the throttle positions. Do not operate at sustained idle.
5. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 50.
6. Pull only light loads.
7. Change both the oil and the filter at 25 hours.
8. Check fluid levels of transmission and all gearcases after the first 25 hours of operation and every 100 hours thereafter.

## **PVT Break-in (Clutches/Belt)**

A proper break-in of the clutches and drive belt will ensure a longer life and better performance. Break in the clutches and belt by operating at slower speeds during the break-in period as recommended. Pull only light loads. Avoid aggressive acceleration and high speed operation during the break-in period.

If a belt fails, always clean away all debris when replacing the belt.

# OPERATION

## Safe Operation Practices

1. Complete the recommended safety training before operating this vehicle. See page 7.
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. Before operating, learn how to use the auxiliary brake for emergency situations (if service brakes become inoperable).
6. 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.
7. 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.
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 footrests.
9. Never consume alcohol or drugs before or while operating an ATV.
10. Always use the size and type of tires specified for your vehicle. Always maintain proper tire pressure.
11. Never operate a damaged ATV. After any rollover or accident, have a qualified service dealer inspect the entire machine for possible damage.
12. 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.
13. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.
14. Always remove the ignition key when the vehicle is not in use to prevent unauthorized use.

### **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

## Pre-Ride Checklist

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.

Item	Remarks	Page
Brake system/lever travel	Ensure proper operation	27 92
Brake fluid	Ensure proper level	28
Auxiliary brake	Ensure proper operation	30
Front suspension	Inspect, lubricate if necessary	82
Rear suspension	Inspect, lubricate if necessary	82
Steering	Ensure free operation	-
Tires	Inspect condition and pressure	97
Wheels/fasteners	Inspect, ensure fastener tightness	97 98
Frame nuts, bolts, fasteners	Inspect, ensure tightness	-
Fuel and oil	Ensure proper levels	31 84
Coolant level (if applicable)	Ensure proper level	90 91
Coolant hoses (if applicable)	Inspect for leaks	-
Throttle	Ensure proper operation	26 120
Indicator lights/switches	Ensure operation	24
Engine stop switch	Ensure proper operation	25
Air filter, pre-filter	Inspect, clean	99
Air box sediment tube	Drain deposits whenever visible	-
Headlamp	Check operation, apply POLARIS dielectric grease when lamp is replaced	25 102
Brake light/taillight	Check operation, apply POLARIS dielectric grease when lamp is replaced	105
Riding gear	Wear approved helmet, goggles, and protective clothing	8
Winch (if equipped)	Inspect cable and switch	65-76

## Starting the Engine

1. Position the vehicle on a level surface outdoors or in a well-ventilated area.
2. Place the transmission in PARK.
3. Lock the parking brake.

**Tip:** The starter interlock will prevent the engine from starting if the transmission is in gear and the brake is not engaged.

4. Sit on the vehicle and move the engine stop switch to RUN.
5. Do not press the throttle while starting the engine.
6. Turn the ignition key past the ON position to engage the starter. Activate the starter for a maximum of five seconds, releasing the key when the engine starts.
7. If the engine does not start, return the key to the OFF position and wait five seconds before attempting to start again. Activate the starter for another five seconds if necessary. Repeat this procedure until the engine starts.

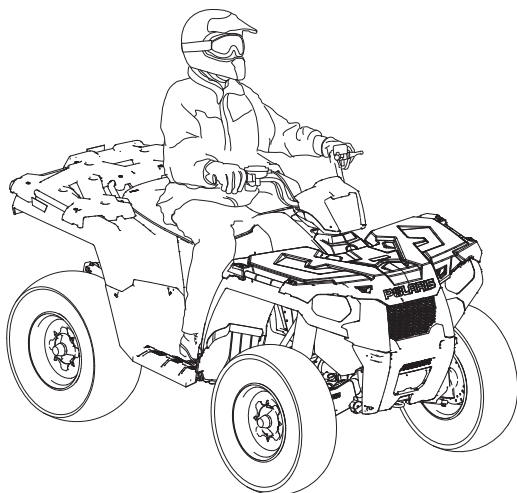
**NOTICE:** Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

## Cold Weather Operation

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. Water accumulation increases as outside temperature decreases.

# OPERATION

## Driving Procedures



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

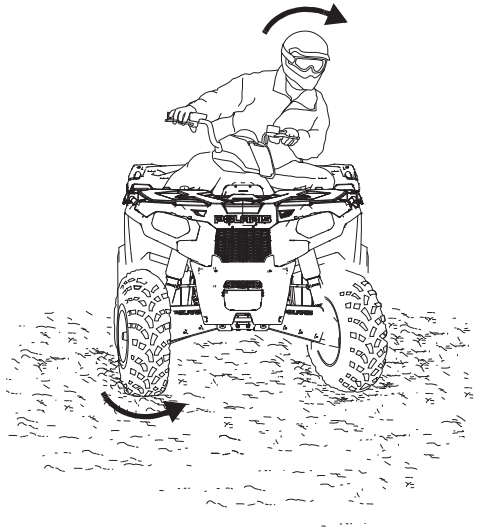
## Turning the Vehicle

Your ATV is equipped with a solid rear axle, which drives both rear wheels equally at all times. This means that the wheel on the outside of the turn must travel a greater distance than the inside wheel when turning and the inside tire must slip traction slightly.

To turn, steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels, allowing the turn to be made smoothly. The same leaning technique should be used for turning in reverse.

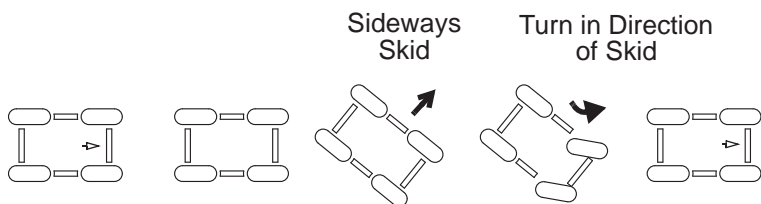
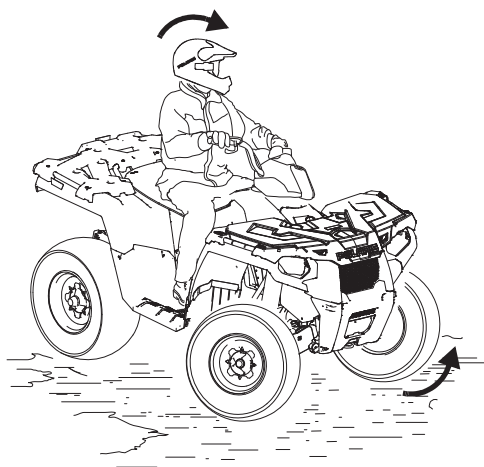
Practice making turns at slow speeds before attempting to turn at faster speeds.

**WARNING!** Turning improperly can result in vehicle rollover. 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:

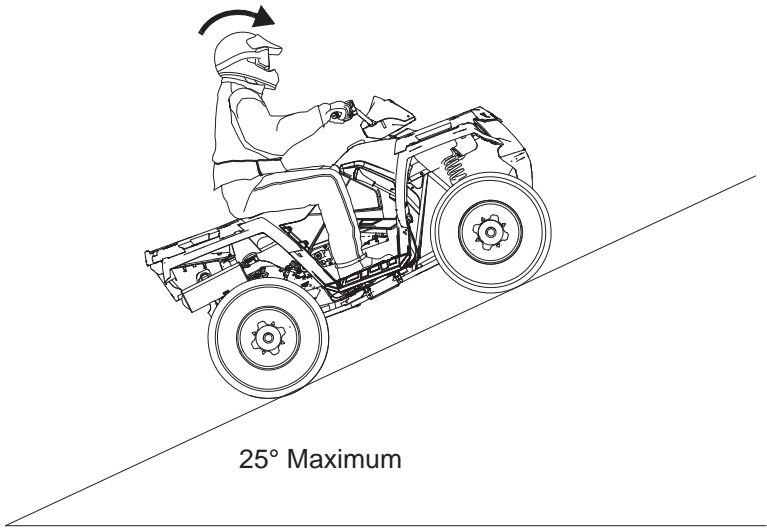
1. Do not operate on excessively rough, slippery or loose terrain.
2. Slow down when entering slippery areas.
3. Engage 4X4 before wheels begin to lose traction.

**NOTICE:** Severe damage to drive train may occur if the 4X4 is engaged while the wheels are spinning. Allow the rear wheels to stop spinning before engaging 4X4, or engage 4X4 before wheels begin to lose traction.

4. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns, which can cause skids.
5. 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.



## Driving Uphill

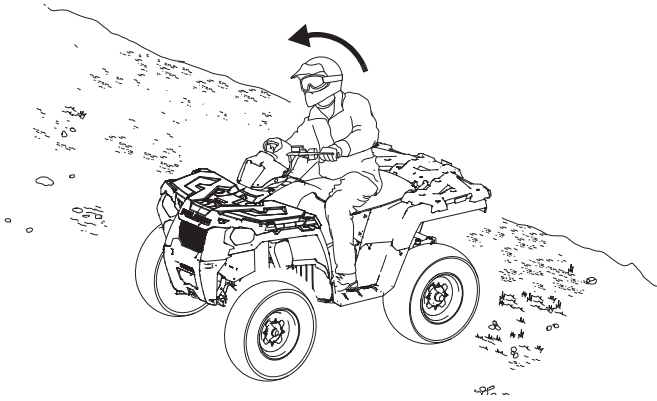


Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or rollover. Whenever traveling uphill, follow these precautions:

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.
5. Keep both feet on the footrests.
6. Shift your 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. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.

# OPERATION

## Driving on a Sidehill (Sidehilling)

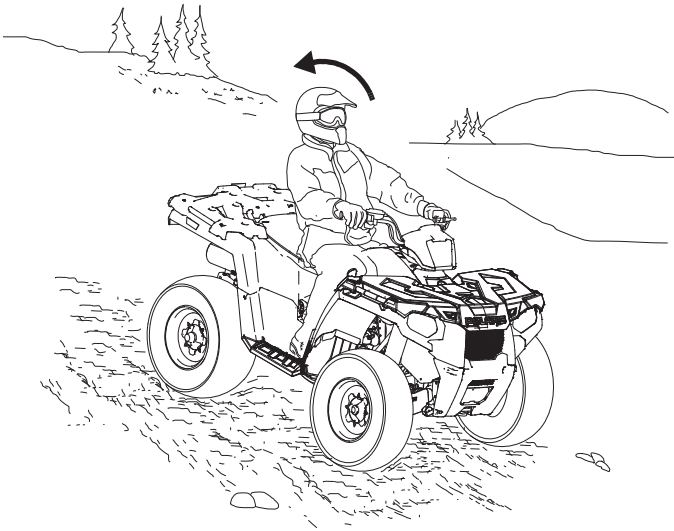


Driving on a sidehill is not recommended. Improper procedure could cause loss of control or rollover. Avoid crossing the side of any hill unless absolutely necessary.

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

1. Slow down.
2. Avoid crossing the side of a steep hill.
3. Shift body weight uphill.
4. Keep your feet on the footrests.
5. Steer slightly into the hill to maintain vehicle direction.
6. If the vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side *immediately!*

## Driving Downhill



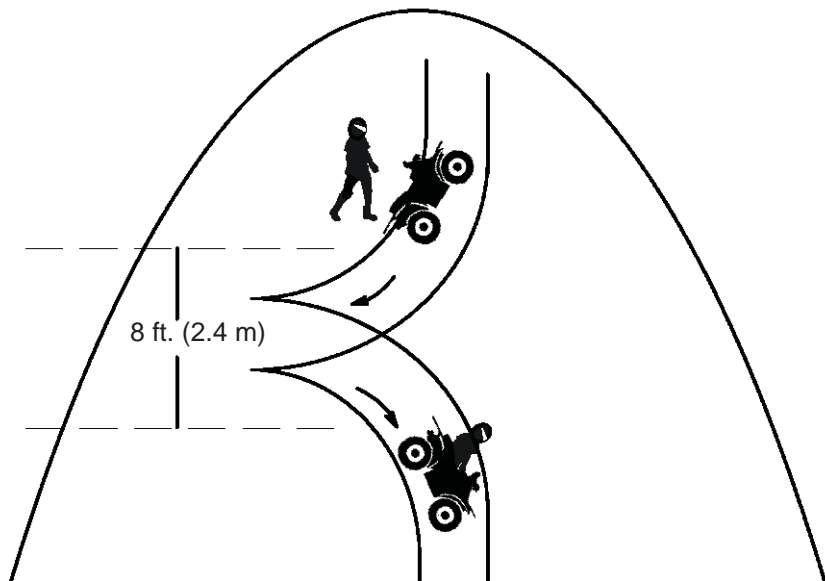
When driving downhill, follow these precautions:

1. Avoid steep hills (25° maximum).
2. Shift body weight uphill.
3. Drive straight downhill.
4. Slow down. Excessive speed when traveling downhill can cause loss of control.
5. Squeeze the brake lever gradually. Applying the brakes too firmly may cause the rear wheels to lock, which could result in loss of control.

# OPERATION

## Turning Around on a Hill (K-Turn)

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

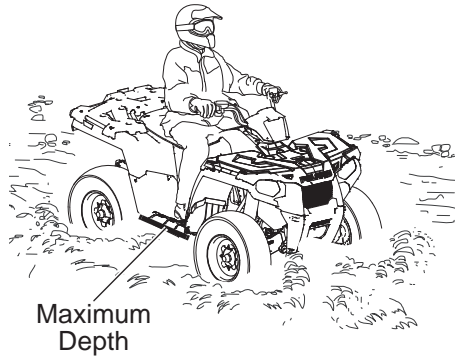


1. Stop and lock the parking brake while keeping body weight uphill.
2. Leave the transmission in forward and shut off the engine.
3. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.
4. Staying uphill of the vehicle, turn the handlebars full left.
5. While holding the brake lever, release the parking brake lock and slowly allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.
6. Lock the parking brake. Remount the vehicle from the uphill side, keeping body weight uphill.
7. Start the engine with the transmission still in forward.
8. Release the parking brake and proceed *slowly*, controlling speed with the brake lever, until the vehicle is on more level ground.

## Driving Through Water

Your ATV can operate through water with a maximum recommended depth equal to the bottom of the footrests. Follow these procedures when operating through water:

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



**NOTICE:** Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the maintenance chart. See page 78. The following areas need special attention: engine oil, transmission oil, demand drive fluid, rear gearcase oil, and all grease fittings.

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 108, then see your dealer for service at the first opportunity.

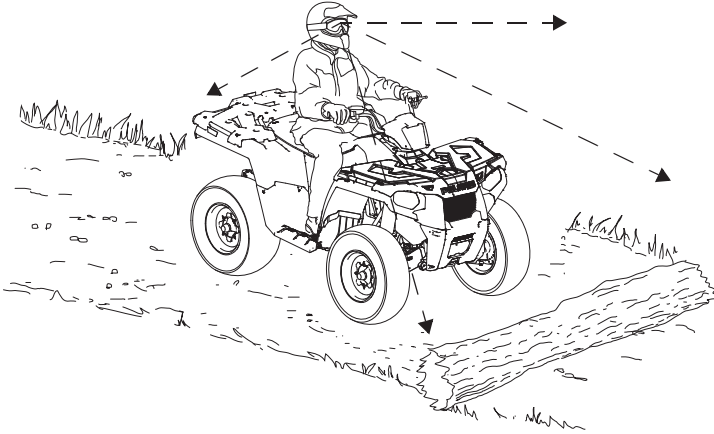
4. After leaving water, test the brakes. Apply them lightly several times while driving slowly. The friction will help dry out the pads.

*If it's unavoidable to enter water deeper than the footrest 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

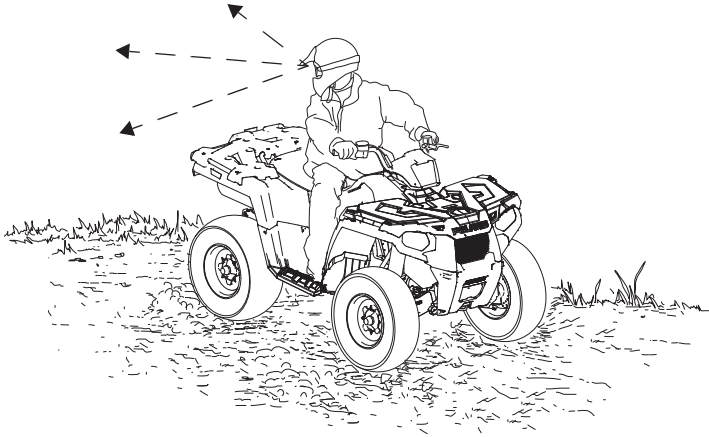
## Driving Over Obstacles



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.

## 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.
7. Do not use the override button unless additional wheel speed is required for vehicle movement. Use the override with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle. Operate the throttle just enough to maintain a desired speed.

**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.

# OPERATION

## Hauling Cargo

### **WARNING**

Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability, which can result in serious injury or death. Always follow these precautions when hauling cargo:

**REDUCE SPEED AND ALLOW GREATER DISTANCES FOR BRAKING WHEN HAULING CARGO.**

**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 in the rack or box and the load on the trailer tongue. The combined weight of these items must not exceed the maximum weight capacity.

**CARGO WEIGHT DISTRIBUTION** should be 1/3 on the front rack and 2/3 on the rear rack. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Carrying loads on only one rack increases the possibility of vehicle rollover.

**CARRY LOADS AS LOW ON THE RACKS AS POSSIBLE.** Carrying loads high on the racks raises the center of gravity of the vehicle and creates a less stable operating condition.

**SECURE ALL LOADS BEFORE OPERATING.** Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.

**OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS.** When handling off-centered loads that cannot be centered, securely fasten the load and operate with extra caution. Always attach the tow load to the hitch point designated for your vehicle.

**HEAVY LOADS CAN CAUSE BRAKING AND CONTROL PROBLEMS.** Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing downhill.

**USE EXTREME CAUTION** when operating with loads that extend over the rack sides. Stability and maneuverability may be adversely affected, causing vehicle rollover.

**DO NOT BLOCK THE FRONT HEADLIGHT BEAM** when carrying loads on the front rack.

**DO NOT TRAVEL FASTER THAN THE RECOMMENDED SPEEDS.**

**NEVER** exceed 50 MPH (80 km/h) when rear cargo loads are above 75 lbs. (34 kg) and/or front cargo loads are above 37 lbs. (17 kg).

Vehicle should never exceed 10 MPH (16 km/h) while towing a load on a level surface. Vehicle speed should never exceed 5 MPH (8 km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.



## Hauling Cargo

Never exceed the weight capacities specified for your ATV on warning labels and in the specifications section of this manual.

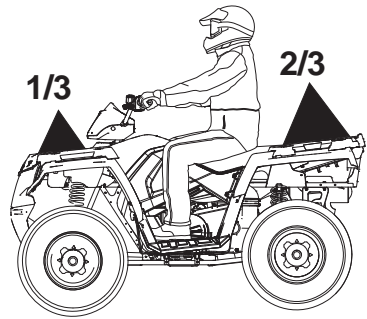
Cargo weight should be evenly distributed (1/3 on the front rack and 2/3 on the rear rack) and mounted as low as possible.

NEVER exceed 50 MPH (80 km/h) when rear cargo loads are above 75 lbs. (34 kg) and/or front cargo loads are above 37 lbs. (17 kg).

When operating over rough or hilly terrain, reduce speed and cargo weight to maintain stable driving conditions.

Do not obstruct the headlight beam with cargo.

Use low forward gear when hauling or towing heavy cargo to extend belt life.

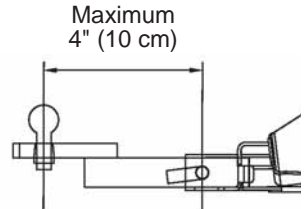


## Towing Loads

Always attach a towed load to the hitch point. Remove the hitch from the ATV when not towing a trailer. If towing a load, reduce rear rack cargo weight by the amount of tongue weight.

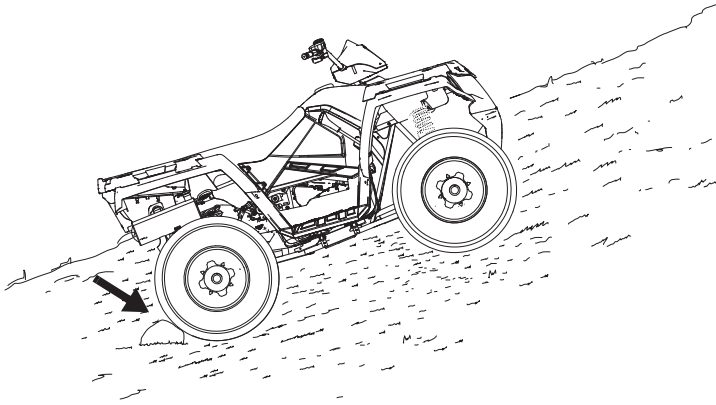
- The combination of rear rack cargo weight and tongue weight must not exceed the rear rack capacity.
- The total load (operator, accessories, cargo and weight on hitch) must not exceed the maximum weight capacity of the vehicle.

**NOTICE:** Using an improper hitch or exceeding the maximum tongue weight capacity can result in serious damage to the vehicle and will void your ATV warranty. Never install a hitch longer than 4" (10 cm). Never install automotive accessories on your POLARIS ATV. Always install POLARIS-approved (or equivalent) accessories designed for ATV use.



# OPERATION

## Parking on an Incline



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

1. Stop the engine.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Always block the rear wheels on the downhill side.

# WINCH GUIDE

These safety warnings and instructions apply if your vehicle came equipped with a winch or if you choose to add an accessory winch to your vehicle.

## **⚠ WARNING**

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

Your winch may have a cable made of either wire rope or specially designed synthetic rope. The term “winch cable” will be used for either unless noted otherwise.

## **Winch Safety Precautions**

1. Read all sections of this manual.
2. Never use alcohol or drugs before or while operating the winch.
3. Never allow children under 16 years of age to operate the winch.
4. Always wear eye protection and heavy gloves when operating the winch.
5. Always keep body, hair, clothing and jewelry clear of the winch cable, fairlead and hook when operating winch.
6. Never attempt to “jerk” a load attached to the winch with a moving vehicle. See the *Shock Loading* section on page 74.
7. Always keep the area around the vehicle, winch, winch cable and load clear of people (especially children) and distractions while operating the winch.
8. Always turn the vehicle ignition power OFF when it and the winch are not being used.
9. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.
10. Always apply your vehicle’s park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.

# WINCH GUIDE

## Winch Safety Precautions

11. Always align the vehicle and winch with the load directly in front of the vehicle as much as possible. Avoid winching with the winch cable at an angle to the winching vehicle's centerline whenever possible.
12. If winching at an angle is unavoidable, follow these precautions:
  - A. Look at the winch drum occasionally. Never let the winch cable "stack" or accumulate at one end of the winch drum. Too much winch cable at one end of the winch drum can damage the winch and the winch cable.
  - B. If stacking occurs, stop winching. Follow step 15 on page 72 to feed and rewind the cable evenly before continuing the winch operation.
13. Never winch up or down at sharp angles. This can destabilize the winching vehicle and possibly cause it to move without warning.
14. Never attempt to winch loads that weigh more than the winch's rated capacity.
15. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.
16. Never touch, push, pull or straddle the winch cable while winching a load.
17. Never let the winch cable run through your hands, even if wearing heavy gloves.
18. Never release the clutch on the winch when the winch cable is under load.
19. Never use the winch for lifting or transporting people.



## Winch Safety Precautions

20. Never use the winch to hoist or suspend a vertical load.
21. Never immerse or submerge your winch in water. Take your winch to your dealer for service if this occurs.
22. Always inspect your winch and winch cable before each use.
23. Never winch the hook fully into the winch. This can cause damage to winch components.
24. Unplug the remote control from the vehicle when the winch is not in use to prevent inadvertent activation and use by unauthorized persons.
25. Never grease or oil the winch cable. This will cause the winch cable to collect debris that will shorten the life of the cable.

# WINCH GUIDE

## Winch Operation

Read the *Winch Safety Precautions* in the preceding pages before using your winch.

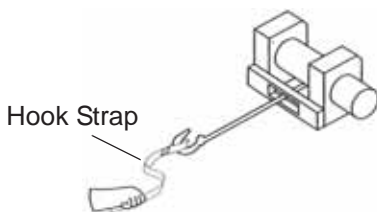
**Tip:** Consider practicing the operation and use of your winch before you actually need to use it in the field.

### **⚠ WARNING**

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

Each winching situation is unique.

- Take your time to think through the winching you are about to do.
  - Proceed slowly and deliberately.
  - Never hurry or rush during winching.
  - Always pay attention to your surroundings.
  - You may need to change your winching strategy if it is not working.
  - Always remember that your winch is very powerful.
  - There are simply some situations that you and your winch will not be able to deal with. Do not be afraid to ask others to help when this happens.
1. Always inspect the vehicle, winch, winch cable and winch controls for any signs of damage or parts in need of repair or replacement before each use. *Pay particular attention to the first 3 feet (1 meter) of winch cable if the winch is being used (or has been used) for lifting an accessory plow assembly.* Promptly replace any worn or damaged cable.
  2. Never operate a winch or a vehicle in need of repair or service.
  3. Always apply your vehicle's park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.



# WINCH GUIDE

## Winch Operation

4. Always use the hook strap when handling the hook.

**WARNING!** Never put your fingers into the hook. This could lead to SEVERE INJURY.

- A. Attach the hook itself onto the load or use a tow strap or chain to secure the load to the winch cable.



**NO**



**YES**

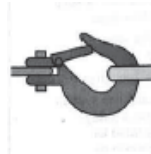
**Tip:** A “tow strap” is NOT intended to stretch. A “recovery strap” is designed to stretch.

**WARNING!** Never use a recovery strap when winching due to the excessive energy that can be released if the winch cable breaks. This can result in SEVERE INJURY or DEATH. See the *Shock Loading* section on page 74.

- B. Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.

**WARNING!** Replace the winch cable at the first sign of damage to prevent SEVERE INJURY or DEATH in the event of failure. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

- C. If possible, keep the winch cable aligned with the centerline of the winching vehicle. This will help the spooling of the winch cable and reduce the load on the fairlead.
- D. If freeing a stuck vehicle by attaching to a tree, use an item such as a tow strap to avoid damaging the tree during winch operation. Sharp cables and chains can damage and even kill trees. Please remember to TreadLightly® (treadlightly.org).
- E. Before operating the winch, be sure that the safety latch on the winch cable hook is fully seated when the load is attached.
- F. Never operate your winch with a damaged hook or latch. Always replace damaged parts before using the winch.



**YES**



**NO**

# WINCH GUIDE

## Winch Operation

5. Never remove the hook strap from the hook.
6. Release the winch clutch and pull out the winch cable.
7. Pulling out as much cable as possible maximizes the winch's pulling capacity. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.
8. Read and adhere to the following information for winch damping to ensure safe winch use.
  - A. In order to absorb energy that could be released by a winch cable failure, always place a "damper" on the winch cable. A damper can be a heavy jacket, tarp, or other soft, dense object. A damper can absorb much of the energy released if a winch cable breaks when winching. Even a tree limb can help as a damper if no other items are available to you.
  - B. Lay the damper on top of the mid-point of the winch cable length that is spooled out.
  - C. On a long pull, it may be necessary to stop winching so that the damper can be repositioned to the new mid-point of the winch cable. Always release the tension on the winch cable before repositioning the damper.
  - D. Avoid being directly in line with the winch cable whenever possible. Also, never permit others to stand near or in line with the winch cable during winch operation.
9. Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.
10. Never use straps, chains or other rigging items that are damaged or worn.



## Winch Operation

11. The **ONLY** time a winch-equipped vehicle should be moving when using the winch is when that vehicle itself is stuck. The winch-equipped vehicle should **NEVER** be in motion to “shock” load the winch cable in an attempt to move a second stuck vehicle. See the *Shock Loading* section on page 74. For your safety, always follow these guidelines when winching a vehicle free:
  - A. Release the winch clutch and spool out the necessary length of winch cable.
  - B. Align the winch cable as close as possible to the winching vehicle's centerline.
  - C. Attach the winch cable hook to the anchor point or the stuck vehicle's frame following instructions in this manual.
  - D. Re-engage the clutch on the winch.
  - E. Slowly winch in the slack in the winch cable.
  - F. Select the proper vehicle gear to propel the stuck vehicle in the direction of winching.
  - G. Shift to the lowest gear available on the stuck vehicle.
  - H. Slowly and carefully apply vehicle throttle and winch together to free the vehicle.
  - I. Stop winching as soon as the stuck vehicle is able to propel itself without the help of the winch.
  - J. Detach the winch cable hook.
  - K. Rewind the winch cable evenly back onto the winch drum following the instructions in this manual.
12. Never attempt to winch another stuck vehicle by attaching the winch cable to a suspension component, brush guard, bumper or cargo rack. Vehicle damage may result. Instead, attach the winch to a strong portion of the vehicle frame or hitch.

# WINCH GUIDE

## Winch Operation

13. Extensive winching will run down the battery on the winching vehicle. Let the winching vehicle's engine run while operating the winch to prevent the battery from running low if winching for long periods.
14. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.
15. After winching is complete, especially if winching at an angle, it may be necessary to re-distribute the winch cable across the winch drum. You will need an assistant to perform this task.
  - A. Release the clutch on the winch.
  - B. Feed out the winch cable that is unevenly bunched up in one area.
  - C. Re-engage the winch clutch.
  - D. Have an assistant pull the winch cable tightly with about 100 lbs. (45 kg) of tension using the hook strap.
  - E. Slowly winch the cable in while your assistant moves the end of the winch cable back and forth horizontally to evenly distribute the winch cable on the drum.
  - F. Doing this reduces the chances of the winch cable "wedging" itself between lower layers of winch cable.

## Winch Cable Care

For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

**WARNING!** Use of worn or damaged cable could lead to sudden failure and SEVERE INJURY.

1. Always inspect your winch before each use. Inspect for worn or loose parts including mounting hardware. Never use the winch if any part needs repair or replacement.
2. Always inspect your winch cable before each use. Inspect for worn or kinked winch cable.

A. A kinked winch cable made of wire rope is shown at right. Even after being “straightened out,” this cable has already been permanently and severely damaged. Promptly discontinue use of a winch cable in this condition.



B. A kinked winch cable made of wire rope that has been “straightened out” is shown at right. Even though it may look usable, the cable has been permanently and severely damaged. It can no longer transmit the load that it could prior to kinking. Promptly discontinue use of a winch cable in this condition.



C. A winch cable made of synthetic rope should be inspected for signs of fraying. Replace the cable if fraying is observed (shown at right). Promptly discontinue use of a winch cable in this condition.



D. Also replace the winch cable if there are fused or melted fibers. Such an area of the synthetic rope will be stiff and appear smooth or glazed. Promptly discontinue use of a winch cable in this condition.

# WINCH GUIDE

## Shock Loading

**WARNING!** Your winch cable is very strong but it is NOT designed for dynamic, or “shock” loading. Shock loading may tension a winch cable beyond its strength and cause the cable to break. The end of a broken winch cable under such high loading can cause SEVERE INJURY or DEATH to you and other bystanders.

*Winch cables are designed to NOT absorb energy. This is true of both wire-rope and synthetic-rope winch cables.*

1. Never attempt to “jerk” a load with the winch. For example, never take up slack in the winch cable by moving the winching vehicle in an attempt to move an object. This is a dangerous practice. It generates high winch cable loads that may exceed the strength of the cable. Even a slowly moving vehicle can create large shock loads in a winch cable.

**WARNING!** SEVERE INJURY or DEATH can result from a broken winch cable.

2. Never quickly turn the winch ON and OFF repeatedly (“jogging”). This puts extra load on the winch, winch cable, and generates excessive heat from the motor. This is a form of shock loading.
3. Never tow a vehicle or other object with your winch. Towing an object with a winch produces shock loading of the cable even when towing at slow speeds. Towing from a winch also positions the towing force high on the vehicle. This can cause instability of the vehicle and possibly lead to an accident.

## Shock Loading

4. Never use recovery straps with your winch. Recovery straps are designed to stretch and can store energy. This stored energy in the recovery strap is released if a winch cable fails making the event even more hazardous. Similarly, never use elastic “bungee” cords for winching.
5. Never use the winch to tie down a vehicle to a trailer or other transportation vehicle. This type of use also causes shock loading that can cause damage to the winch, winch cable, or vehicles used.

**Your winch cable is designed and tested to withstand the loads produced by the winch motor when operated from a stationary vehicle. Always remember that the winch and winch cable are NOT designed for shock loading.**

# WINCH GUIDE

## Winch Maintenance and Service Safety

**WARNING!** Improper or lack of winch maintenance and service could lead to SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

1. Always inspect your winch before each use. Inspect for worn or kinked winch cable. Also inspect for worn or loose parts including mounting hardware.
2. Permit your winch motor to cool down prior to servicing your winch.
3. Never work on your winch without first disconnecting the battery connections to prevent accidental activation of the winch.
4. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.
5. Some winch models use wire rope as the winch cable. Other winches use a specially designed synthetic rope as the winch cable.
6. Never replace a synthetic-rope winch cable with a consumer-grade polymer rope such as can be purchased in a hardware store. Although they may look similar, they are NOT alike. A polymer rope not designed for winch use will stretch and store excessive energy when winching.

**WARNING!** Failure of a stretched rope under winching conditions will release all of the stored energy. This will increase the chances of SEVERE INJURY or DEATH.

# 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 arrester that was tested and qualified to be in accordance with the USFS standard 5100-1c. Federal law requires that this spark arrester 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/](http://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.

## Exhaust Emission Control System

Exhaust emissions are controlled by engine design. An electronic fuel injection (EFI) system controls fuel delivery. The engine and EFI components are set at the factory for optimal performance and are not adjustable.

The emissions label is located on the right front frame of the vehicle.

## 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.

# MAINTENANCE

## Periodic Maintenance Chart

Careful periodic maintenance will help keep your vehicle in safe, reliable condition. 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 141.

Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. 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

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause or see your dealer.



# MAINTENANCE

## Periodic Maintenance Chart Maintenance Chart Key

Symbol	Description
▶	Perform these operations more often for vehicles subjected to severe use.
E	Emission-related service (failure to conduct this maintenance will not void the emissions warranty but may affect emissions)
D	Have an authorized POLARIS dealer perform these services.

**WARNING!** Improperly performing the procedures marked with a “D” could result in component failure and lead to serious injury or death. Have an authorized POLARIS dealer perform these services.

*Perform all services at whichever maintenance interval is reached first.*

Item	Maintenance Interval (whichever comes first)			Remarks
	Hours	Calendar	Miles (Km)	
Steering	-	Pre-Ride	-	Make adjustments as needed. See Pre-Ride Checklist on page 50.
Front suspension	-		-	
Rear suspension	-		-	
Tires	-		-	
Brake fluid level	-		-	
Brake lever travel	-		-	
Brake system	-		-	
Wheels/fasteners	-		-	
Frame fasteners	-		-	
Engine oil level	-		-	
Winch (if equipped)	-	-	-	See pages 65-76
▶ E Air filter, pre-filter	-	Daily	-	Inspect; clean often; replace as needed
▶ Air box sediment tube	-	Daily	-	Drain deposits when visible
Coolant	-	Daily	-	Check level
Power steering unit (if equipped)	-	Daily	-	Inspect daily; clean often
Headlight/taillight/worklight	-	Daily	-	Check operation; apply dielectric grease if replacing lamps

- ▶ Perform these procedures more often for vehicles subjected to severe use.
- E Emission-Related Service
- D Have an authorized POLARIS dealer perform these services.

# MAINTENANCE

## Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Miles (Km)	
▶ E	Air filter, main element	-	Weekly	-	Inspect; replace as needed
	Recoil housing	-	Weekly	-	Drain water as needed, check often if operating in wet conditions
▶ D	Brake pad wear	10 H	Monthly	100 (160)	Inspect periodically
	Battery	20 H	Monthly	200 (320)	Check terminals; clean; test
	Fuel System	20 H	Monthly	-	Inspect; cycle key to pressurize fuel pump; check lines and fittings for leaks and abrasion
▶ E	Engine breather valve (if equipped)	25 H	Monthly	250 (400)	Inspect; clean if needed
▶	Engine oil change	25 H	1 M	250 (400)	Break-in oil and filter change
▶	Demand drive fluid	25 H	1 M	250 (400)	Break-in oil level check
▶	Rear gearcase oil	25 H	1 M	250 (400)	Break-in oil level check
▶	Transmission oil	25 H	1 M	250 (400)	Break-in oil level check
▶	General lubrication	50 H	3 M	500 (800)	Lubricate all fittings, pivots, cables, etc.
D E	Throttle Cable/ Release Switch	50 H	6 M	500 (800)	Inspect; adjust; lubricate; replace if necessary
E	Throttle Body Intake Duct	50 H	6 M	500 (800)	Inspect duct for proper sealing/air leaks
	Drive belt	50 H	6 M	500 (800)	Inspect; adjust; replace as needed
	Cooling system	50 H	6 M	1000 (1600)	Inspect coolant strength seasonally; pressure test system yearly
▶	Engine oil change	100 H	6 M	1000 (1600)	Change the oil and filter
▶	Oil lines and fasteners	100 H	6 M	1000 (1600)	Inspect for leaks and loose fittings

# MAINTENANCE

## Periodic Maintenance Chart

	Item	Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Miles (Km)	
▶	Demand drive fluid (normal use)	100 H	12 M	1000 (1600)	Change fluid
▶	Rear gearcase oil	100 H	12 M	1000 (1600)	Change fluid
▶	Transmission oil	100 H	12 M	1000 (1600)	Change fluid
<b>D</b> <b>E</b>	Valve clearance	100 H	12 M	1000 (1600)	Inspect; adjust
<b>D</b> <b>E</b>	Fuel system	100 H	12 M	1000 (1600)	Cycle key to pressurize fuel pump; check for leaks at fill cap, fuel lines/rail and fuel pump; replace lines every two years
▶	Radiator (if applicable)	100 H	12 M	1000 (1600)	Inspect; clean external surfaces
▶	Cooling hoses (if applicable)	100 H	12 M	1000 (1600)	Inspect for leaks
▶	Engine mounts	100 H	12 M	1000 (1600)	Inspect
	Exhaust muffler/pipe	100 H	12 M	1000 (1600)	Inspect
<b>D</b> <b>E</b>	Spark plug	100 H	12 M	1000 (1600)	Inspect; replace as needed
▶	Wiring	100 H	12 M	1000 (1600)	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.
<b>D</b>	Clutches (drive and driven)	100 H	12 M	1000 (1600)	Inspect; clean; replace worn parts
<b>D</b>	Front wheel bearings	100 H	12 M	1000 (1600)	Inspect; replace as needed
<b>D</b>	Brake fluid	200 H	24 M	2000 (3200)	Change every two years
	Spark arrester	300 H	36 M	3000 (4800)	Clean out
▶	Coolant	-	60 M	-	Replace coolant
	Idle speed		-		Adjust as needed
<b>D</b>	Toe adjustment		-		Inspect periodically; adjust when parts are replaced
	Headlight aim		-		Adjust as needed

▶ Perform these procedures more often for vehicles subjected to severe use.

**E** Emission-Related Service

**D** Have an authorized POLARIS dealer perform these services.

# MAINTENANCE

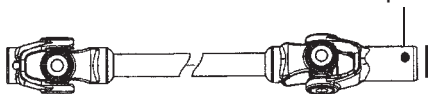
## Lubrication Guide

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart beginning on page 78. Items not listed in the chart should be lubricated at the General Lubrication interval.

The a-arms and lower control arms are lubricated at the factory, and no additional lubrication will be needed. However, if these components are subjected to severe use, grease zerks have been provided for additional lubrication at the user's discretion.

Item	Lube	Capacity at Fluid Change	Inspection Procedure
Engine Oil	PS-4 5W-50 4-Cycle Oil	2 qt. (1.9 l)	Maintain level in safe range on dipstick. See page 84.
Brake Fluid	DOT 4 Brake Fluid	---	Maintain level between fill lines. See page 28.
Transmission Oil	AGL Gearcase Lubricant & Transmission Fluid	32 oz. (948 ml)	Maintain level at bottom of fill hole threads. See page 87.
Demand Drive Fluid (Front Gearcase)	Demand Drive Fluid	9 oz. (265 ml)	Maintain level at bottom of fill hole threads. See page 89.
Front Prop Shaft Yoke	U-Joint Grease	---	Grease fittings (3 pumps maximum) every 500 miles, before long periods of storage, or after pressure washing or submerging.

Front Prop Shaft Yoke



## Engine Oil Oil Recommendations

Lubricant	Capacity	Drain Plug Torque
PS-4 5W-50 4-Cycle Oil	2 qts. (1.9 l)	14-17 ft. lbs. (19-23 Nm)

Always change the oil filter whenever changing oil.

POLARIS recommends the use of POLARIS PS-4 Full Synthetic 5W-50 4-cycle oil or a similar oil for this engine. Oil may need to be changed more frequently if POLARIS oil is not used. Always use 5W-50 oil. Follow the manufacturer's recommendations for ambient temperature operation. See page 132 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.

# MAINTENANCE

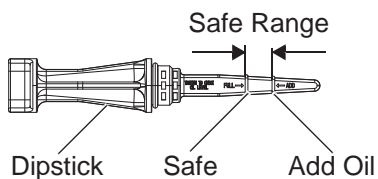
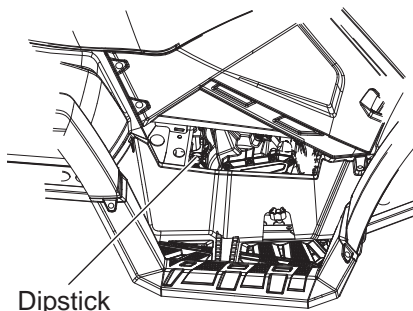
## Engine Oil

### Oil Level

Access the oil dipstick and fill tube from the right side of the ATV.

A rising oil level between checks in cool weather driving can indicate contaminants such as gas or moisture collecting in the crankcase. If the oil level is over the full/safe mark, change the oil immediately.

1. Position the vehicle on a level surface.
2. Remove the dipstick. Wipe it dry with a clean cloth.
3. Reinstall the dipstick completely.
4. Remove the dipstick and check the oil level. Maintain the oil level in the safe range. Do not overfill.



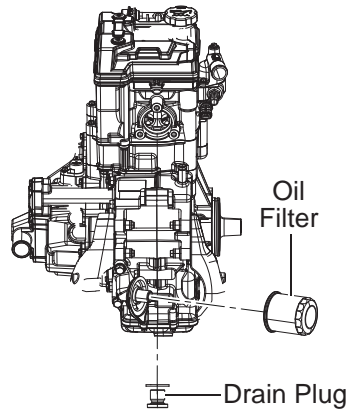
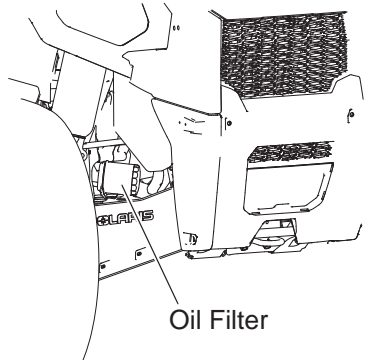
## Engine Oil Oil and Filter Change

Always change the oil and filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 78. Always change the oil filter whenever changing oil.

1. Position the vehicle on a level surface.
2. Start the engine. Allow it to warm up at idle for two to three minutes.
3. Stop the engine.
4. Clean the area around the drain plug.
5. Place a drain pan under the crank case.
6. 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.

7. Install a new sealing washer on the drain plug. The sealing surfaces on drain plug and crankcase should be clean and free of burrs, nicks or scratches.
8. Reinstall the drain plug. Torque to 14-18 ft. lbs. (19-24 Nm).
9. Place shop towels beneath the oil filter. Using an oil filter wrench (available from your POLARIS dealer), turn the filter counter-clockwise to remove it.
10. Using a clean dry cloth, clean the filter sealing surface on the crankcase.



**Front View of the Engine**

# **MAINTENANCE**

## **Engine Oil**

### **Oil and Filter Change**

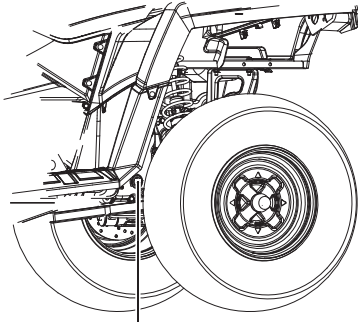
11. Lubricate the o-ring on the new filter with a film of fresh engine oil. Check to make sure the o-ring is in good condition.
12. Install the new filter and rotate it clockwise by hand until the filter gasket contacts the sealing surface, then turn it an additional 1/2 turn.
13. Remove the dipstick.
14. Add two quarts (1.9 l) of recommended oil.
15. Place the transmission in PARK.
16. Lock the parking brake.
17. Start the engine. Allow it to idle for one to two minutes.
18. Stop the engine.
19. Check for leaks.
20. Check the oil level. Add oil as needed to bring the level to the upper mark on the dipstick.
21. Dispose of used filter and oil properly.



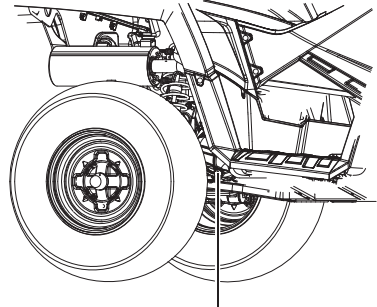
## Transmission Oil

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 78. Maintain the oil level at the bottom of the fill plug hole threads. See page 132 for the part numbers of POLARIS products.

The fill plug is located on the left side of the ATV, under the rear fender, behind the wheel. The drain plug is located on the right side of the gearcase, on the right side of the ATV, behind the wheel well.



Check/Fill Plug



Drain Plug

## Transmission Oil Recommendations

Lubricant	Capacity	Fill Plug Torque	Drain Plug Torque
AGL Gearcase Lubricant & Transmission Fluid	32 oz. (946 ml)	20-25 ft. lbs. (27-34 Nm)	20-25 ft. lbs. (27-34 Nm)

# MAINTENANCE

## Transmission Oil

### Oil Check

1. Position the vehicle on a level surface.
2. Remove the fill plug. Check the oil level.
3. Add the recommended fluid as needed to bring the level to the bottom of the fill hole threads.
4. Reinstall the fill plug. Torque to specification.



Fill Plug

Fill Level

### Oil Change

1. Remove the fill plug.
2. Place a drain pan under the gearcase. Remove the drain plug. Allow the oil to drain completely.
3. Clean and reinstall the drain plug. Torque to specification.
4. Add the proper amount of the recommended oil.
5. Reinstall the fill plug. Torque to specification.
6. Check for leaks.
7. Dispose of used oil properly.

# MAINTENANCE

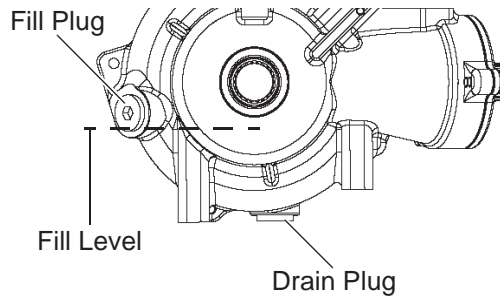
## Front Gearcase (Demand Drive) Fluid

Always check and change the demand drive fluid at the intervals outlined in the Periodic Maintenance Chart beginning on page 78. Maintain the fluid level at the bottom of the fill hole threads. See page 132 for the part numbers of POLARIS products.

### Fluid Recommendations

Gearcase	Lubricant	Capacity	Fill Plug Torque	Drain Plug Torque
Front Gearcase	Demand Drive Fluid	9 oz. (265 ml)	8-10 ft. lbs. (11-14 Nm)	11 ft. lbs. (15 Nm)

The fill plug is located on the right side of the demand drive unit. The drain plug is located on the bottom right side of the unit.



### Fluid Check

1. Position the vehicle on a level surface. Remove the fill plug. Check the fluid level.
2. Add the recommended demand drive fluid as needed to bring the level to the bottom of the fill hole threads.
3. Reinstall the fill plug. Torque to 8-10 ft. lbs. (11-14 Nm).

### Fluid Change

1. Position the vehicle on a level surface. Remove the fill plug. Place a drain pan under the demand drive unit.
2. Remove the drain plug. Allow the fluid to drain completely.
3. Clean and reinstall the drain plug. Torque to 11 ft. lbs. (15 Nm).
4. Add the recommended fluid. See page 89 for capacity. Maintain the fluid level at the bottom of the fill hole threads.
5. Reinstall the fill plug. Torque to 8-10 ft. lbs. (11-14 Nm).
6. Check for leaks. Dispose of used fluid properly.

# MAINTENANCE

## Cooling System

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

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

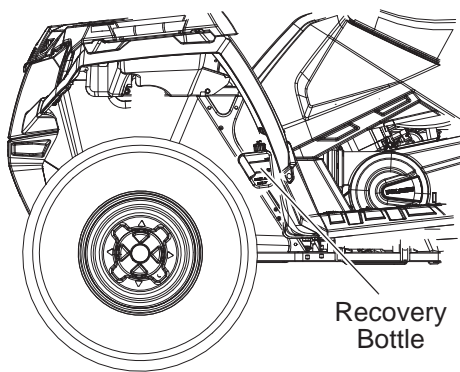
Some coolant level drop on new vehicles is normal as the system is purging itself of trapped air. Check the coolant level and maintain as recommended by adding coolant to the recovery bottle.

POLARIS recommends the use of POLARIS Antifreeze 50/50 Premix. This antifreeze is already premixed and ready to use. Do not dilute with water. See page 132 for the part numbers of POLARIS products.

## Recovery Bottle Coolant

The recovery bottle is located on the left side of the vehicle.

1. Remove the left side panel. See page 95.
2. Maintain the coolant level between the minimum and maximum marks on the bottle (when the fluid is cool).
3. Add coolant as needed.



## Cooling System Radiator Coolant

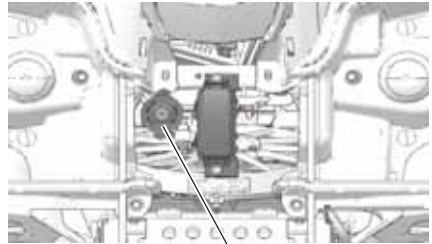
To ensure that the coolant maintains its ability to protect the engine, we recommend that the system be completely drained every five (5) years and fresh Antifreeze 50/50 Premix added.

Any time the cooling system has been drained for maintenance or repair, replace the coolant with fresh Antifreeze 50/50 Premix.

If the recovery bottle has run dry, check the level in the radiator. Add coolant as needed.

**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. Open the front box cover.
2. Remove the access panel screws. Squeeze the outer edges of the panel inward to remove the panel.
3. Remove the pressure cap.
4. Using a funnel, slowly add coolant through the radiator filler neck.
5. 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.
6. Reinstall the access panel and secure the front box cover.



Radiator Cap

# MAINTENANCE

## Brakes

### Hand Brake

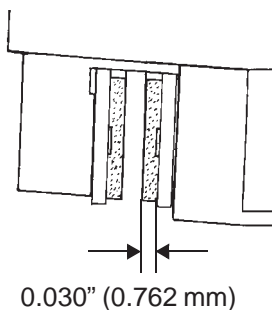
The front and rear brakes are hydraulic disc brakes, activated by moving the single brake lever toward the handlebar. These brakes are self-adjusting.

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.

The following checks are recommended to keep the brake system in good operating condition. Check more often if brakes are used heavily under normal operation.

1. Always keep brake fluid at an adequate level. See page 28.
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. Replace brake pads when they are worn to 0.030" (0.762 mm).
5. Check the security and surface condition of the disc. Clean any grease using a recommended brake cleaner or alcohol. Do not use spray lubricants or other petroleum-based products. If you discover any damage (cracks, excessive corrosion, warping) see your dealer for service before operating.



### Auxiliary Foot Brake

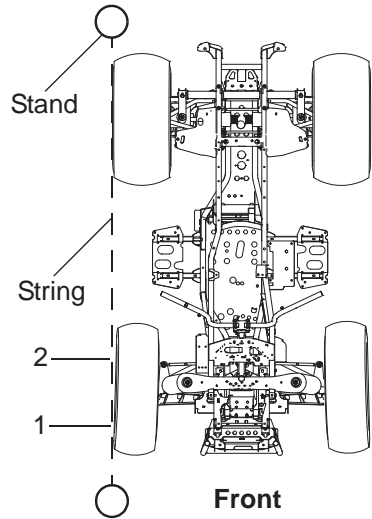
The hydraulic auxiliary brake system requires no adjustment. Check the brake fluid level frequently for the auxiliary brake system. See page 30.

## Toe Alignment

Use the following procedure to check the toe alignment of the vehicle. The recommended toe alignment is 1/8" to 1/4" (3-6 mm) toe out.

**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.
2. Place the handlebars in a straight-ahead position.
3. Tie a length of string between two stands as shown in the illustration. Position the stands so that the string is flush with the side of the rear tire. If available, you may use a long straight-edge instead of string.
4. Measure the distance from the string to the rim at the front (1) and rear (2) of the front rim. The rear measurement should be 1/16"-1/8" (2-3 mm) more than the front measurement on each side of the vehicle to obtain the recommended 1/8" to 1/4" (3-6 mm) toe out alignment.
5. Repeat the measurement procedure on the other side of the vehicle.
6. If you discover improper alignment, see your POLARIS dealer for service.



# MAINTENANCE

## Power Steering Unit

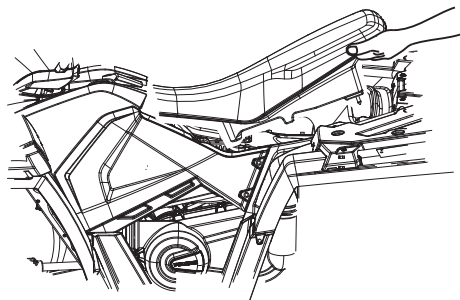
If your model is equipped with power steering, frequently clean the areas around and on the power steering unit to allow proper cooling. Clean these areas thoroughly.

## Steering Assembly

The steering assembly of the ATV should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, see your POLARIS dealer for service before operating the vehicle.

## Seat Removal

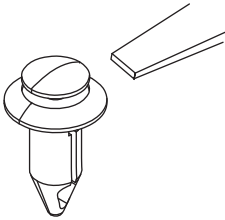
1. Grasp one side of the seat near the rear edge.
2. Pull upward abruptly to disengage the under-seat fasteners.
3. Remove the seat.



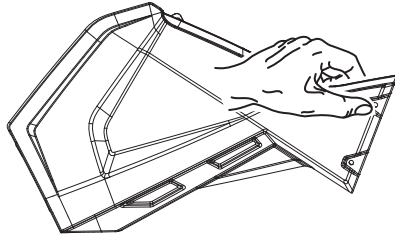


## Side Panel Removal

1. Remove the seat. See page 94.
2. Use a flat screwdriver to remove the plastic rivets securing the side panel.
3. Grasp the rear of the side panel near the rear cab. With a firm motion, pull the side panel outward to disengage the side panel from the grommets.
4. Pull the panel outward and rearward to remove it.



Step 2

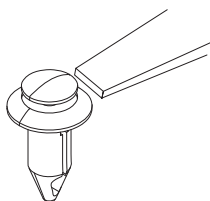


Step 3

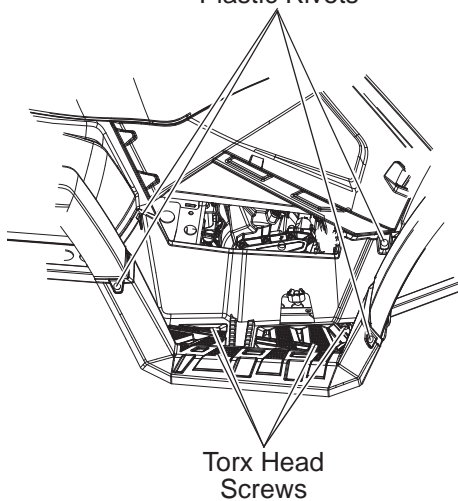
# MAINTENANCE

## Footwell Removal

1. Remove the four screws on the bottom of the footwell.
2. Use a flat screwdriver to remove the plastic rivets securing the footwell to the fenders.
3. Remove the footwell.



Plastic Rivets



Torx Head  
Screws

## Tires

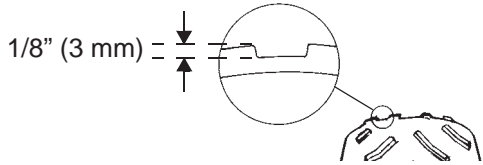
### **⚠ WARNING**

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.

Refer to the specifications section beginning on page 133 for recommended tire type, size and pressure.

### Tire Tread Depth

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



### Front 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.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Loosen the wheel nuts slightly.

**WARNING!** Do not service axle nuts that have a cotter pin installed. See your POLARIS dealer.

5. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
6. Remove the wheel nuts.
7. Remove the wheel.

# MAINTENANCE

## Tires



### Wheel Installation

1. Place the transmission in PARK.
2. Lock the parking brake.
3. Place the wheel on the hub with the valve stem toward the outside and rotation arrows on the tire pointing toward forward rotation.
4. Install the wheel nuts and finger-tighten them.
5. Lower the vehicle to the ground.
6. Torque the wheel nuts to specification.

**WARNING!** Loose nuts could cause a tire to come off during operation, which could result in an accident or rollover. Always ensure that all nuts are torqued to specification.

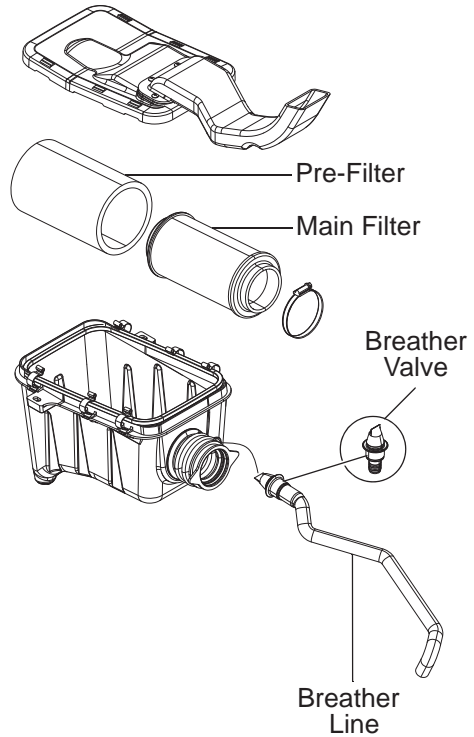
### Wheel Nut Torque Specifications

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

Nut Type	Nut Torque
Lug Nut (Aluminum Wheels) 	30 ft. lbs. (41 Nm) PLUS 1/4 TURN
2-Piece Flange Nut (Steel Wheels) 	27 ft. lbs. (37 Nm)

## Air Filter

1. Remove the seat.
2. Release the air box cover clips, and remove the air box cover.
3. Loosen the clamp and remove the filter.
4. Remove the fabric type pre-filter from the main filter. Wash the pre-filter in soapy water, then rinse and let dry.
5. Reinstall the pre-filter over the main filter. Install a new main filter if needed.
6. Reinstall the filter into the air box and tighten the clamp. Do not overtighten the clamp, as filter damage could occur.
7. Reinstall the air box cover and the seat.



# MAINTENANCE

## Breather Valve/Hose

The breather valve is on the hose that runs between the engine and air box. See illustration on page 99.

1. Remove the left side panel. See page 95.
2. Remove the hose clamps from the valve and pull the valve out of the hoses.
3. Inspect the valve for debris. Blow gently through the valve to check for clogging. Replace a damaged or clogged valve.
4. Check the hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.
5. Reinstall the valve and hose clamps.

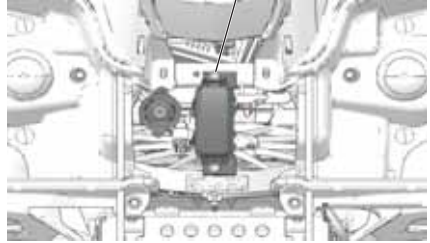
**NOTICE:** Operation of your vehicle without a breather valve can cause engine damage. Always reinstall the breather valve after removing it for service.

## Fuse Replacement

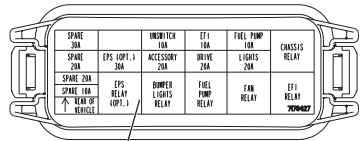
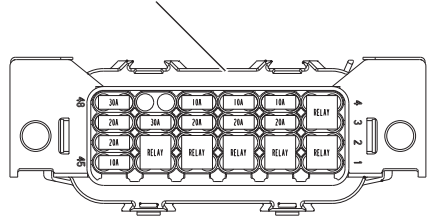
If the engine stops or will not start, or if you experience other electrical failures, a fuse may need replacement. Locate and correct any short circuits that may have caused the blown fuse, then replace the fuse. Spare fuses are provided in a compartment on the top of the access door.

1. Open the front box cover.
2. Remove the access panel. See page 91.
3. Remove fuse box cover.
4. Remove the suspect fuse from the fuse panel. If the fuse is blown, install a new fuse with the same amperage.
5. Secure the fuse box cover and access panel.
6. Secure the front box cover.

Fuse Box



Fuse Box



Label inside the Fuse Box Cover

# MAINTENANCE

## Lights

Poor lighting can result in reduced visibility when driving. Headlight and taillight lenses become dirty during normal operation. Clean lights frequently and replace burned out lamps promptly. Always make sure lights are adjusted properly for best visibility.

### Headlight Lamp Replacement

When servicing a halogen lamp, don't touch the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp.

1. Remove the two screws on the lower front corners of the headlight pod.
2. Remove the screw from the rear of the pod.
3. Lift the pod slightly while depressing the tabs at the rear of the pod.
4. Lift the pod cover and disconnect the speedometer harnesses from the speedometer.

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

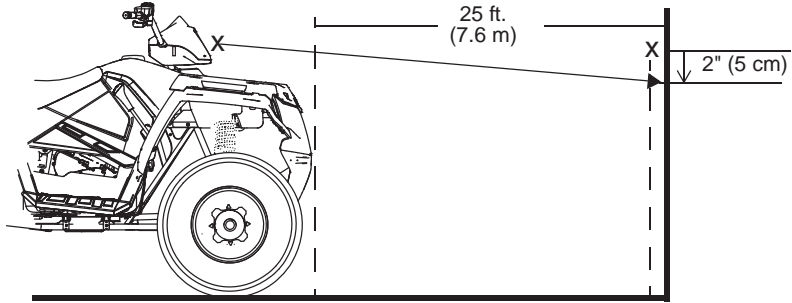
5. Unplug the headlamp from the wiring harness. Be sure to pull on the connector, not on the wiring.
6. Turn the lamp counter-clockwise to remove it.
7. Apply dielectric grease to the socket and install the new lamp. Make sure the tab on the lamp locates properly in the housing.
8. Reassemble the pod.



## Lights

### High Beam Adjustment

The headlight beam can be adjusted slightly upward or downward. Use the following procedure to make the adjustment.

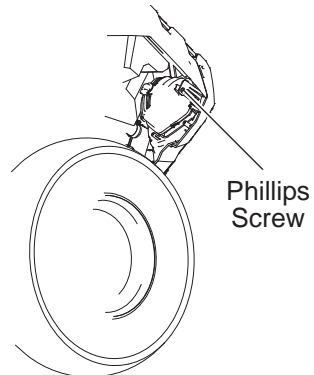


1. Position the vehicle on a level surface with the headlight approximately 25 ft. (7.6 m) from a wall. Place the transmission in PARK.
2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
3. Start the engine. Turn the headlight switch to high beam.
4. Observe the headlight aim on the wall. The most intense part of the headlight beam should be two inches (5 cm) below the mark on the wall. Include rider weight on the seat when measuring.
5. The adjustment knob is located on the right side of the headlight pod. Adjust the beam to the desired position by turning the knob either clockwise or counter-clockwise.

### Low Beam Adjustment

The low beam can be adjusted slightly upward or downward.

1. Loosen the Phillips screw located at the rear of the headlamp.
2. Tilt the headlamp upward or downward.
3. Tighten the screw.

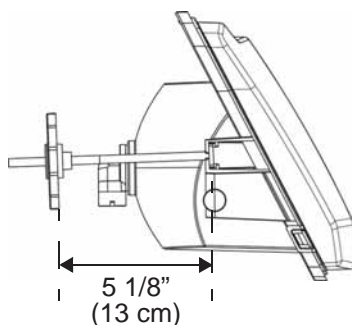


# MAINTENANCE

## Lights

### Headlight Housing Replacement

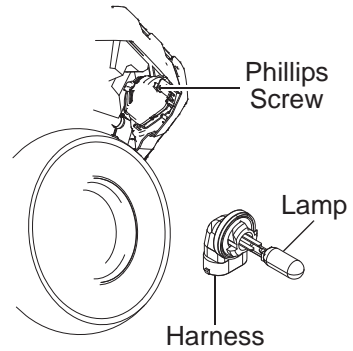
1. Remove the two screws on the lower front corners of the headlight pod.
2. Lift the pod slightly while depressing the tabs at the rear of the pod.
3. Lift the pod cover and disconnect the speedometer harnesses from the speedometer.
4. Unplug the headlamp from the wiring harness.
5. Use a small screwdriver to remove the o-rings from the headlight mounting tabs.
6. Pull the headlight housing up to release it from the locking tabs.
7. Lift the adjusting knob up to remove it from the locking tabs.
8. Carefully pull the assembly up and out of the pod.
9. Reverse the steps to install the new housing and reassemble the pod. The distance from the headlamp parting line to the end of the adjustment knob stop is  $5 \frac{1}{8}$ " (13 cm).
10. Adjust the headlight aim by turning the adjusting knob.



## Lights

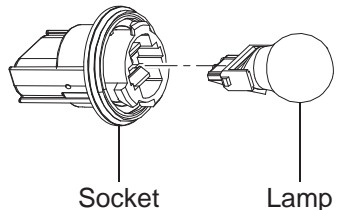
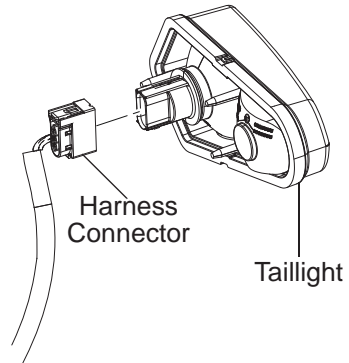
### Lower Headlamp Replacement

1. Turn the back of the headlight harness counter-clockwise and pull the harness assembly away from the headlight assembly.
2. Remove the headlamp and install the new headlamp.
3. Reinstall the harness assembly into the headlight assembly.
4. Turn the headlight harness clockwise to secure the headlamp.



### Taillight/Brakelight Lamp Replacement

1. Remove the harness connector from the back of the light assembly.
2. Turn the lamp counter-clockwise to remove it.
3. Apply dielectric grease to the socket and install the new lamp.
4. Reinstall the harness connector.
5. Test the light for proper operation.



# MAINTENANCE

## Spark Plugs

### Spark Plug Recommendations

Refer to the specifications section beginning on page 133 for the recommended spark plug type and gap for your vehicle. Torque spark plugs to specification.

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

Plug Condition	Torque Specification
New Spark Plug	9 ft. lbs. (12 Nm)
Previously Installed Spark Plug	9 ft. lbs. (12 Nm)

### Spark Plug Inspection

Spark plug condition is indicative of engine operation. Check the spark plug firing end condition after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color. See page 107.

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

1. Rotate the spark plug cap 1/4 turn and pull it off the spark plug.
2. Using the special wrench provided in the tool pouch, rotate the spark plug counter-clockwise to remove it.
3. Reverse the procedure for spark plug installation. Torque to specification.

## **Spark Plugs**

### **Spark Plug Inspection**

#### **Normal Spark 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 flaky and white. A white insulator tip indicates overheating, caused by use of an improper spark plug or incorrect fuel.

#### **Wet Fouled Spark 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 or incorrect throttle body adjustments.

# MAINTENANCE

## Vehicle Immersion

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine. If it's impossible to take your ATV to a dealer before starting it, follow the steps outlined below.

1. Move the ATV to dry land or at the very least, to water below the footrests.
2. Check the air box. If water is present, dry the air box and replace the filter with a new filter.
3. Remove the spark plug.
4. Turn the engine over several times using the electric start.
5. Dry the spark plug. Reinstall the plug or install a new plug.
6. Attempt to start the engine. If necessary, repeat the drying procedure.
7. Take the ATV to your dealer for service as soon as possible, whether you succeed in starting it or not.
8. If water has been ingested into the PVT, follow the procedure on page 112 for drying out the PVT.

## Spark Arrester

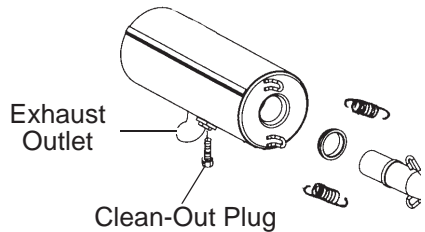
### **⚠ WARNING**

Failure to heed the following warnings while servicing the spark arrester could result in serious injury or death. Never run the engine in an enclosed area. 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 go under the vehicle while it's inclined.

The exhaust system can get extremely hot. Do not perform service on the spark arrester while the system is hot. Allow components to cool sufficiently before proceeding.

Use the following procedure to periodically purge accumulated carbon from the exhaust pipe/muffler.

1. Remove the arrester clean-out plug from the bottom of the muffler.
2. Place the transmission in PARK.
3. Start the engine.
4. Quickly squeeze and release the throttle lever several times to purge carbon from the system.
5. If carbon comes out of the exhaust, cover or plug the exhaust outlet. Wear protective gloves.
6. Lightly tap on the exhaust pipe with a rubber mallet while repeating step 4.
7. If particles are still suspected to be in the muffler, elevate the rear of the vehicle one foot (30 cm) higher than the front. Block the wheels.
8. Repeat steps 4 to 6 until no more particles are expelled.
9. Stop the engine. Allow the arrester to cool.
10. Reinstall the arrester plug and remove the exhaust outlet cover or plug.



# MAINTENANCE

## PVT System

### **WARNING**

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

Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The PVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

The PVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to ensure the safety of this product. However, as the owner, you have the following responsibilities to make sure this system remains safe:

- Always follow all recommended maintenance procedures. Always look for and remove debris inside and around the clutch and vent system when replacing the belt.
- See your dealer as outlined in the owner's manual.
- This PVT system is intended for use on POLARIS products only. Do not install it in any other product.
- Always make sure the PVT housing is securely in place during operation.



## PVT System

The basic operation of the POLARIS PVT system is dependent on engine speed and vehicle torque requirements. As engine speed increases, the force exerted on the movable drive sheave by the flyweights also increases. This, in turn, increases the amount of pinch applied to the drive belt. Similarly, if the engine speed decreases, the amount of centrifugal force decreases, reducing the amount of belt pinch.

On POLARIS ATVs, the approximate gear ratio difference between high and low range is 1:2.25. This difference in gearing affects the operation of the PVT, especially at speeds less than 7 MPH (11 km/h), due to the system's dependence on engine speed.

For example, when operating at a ground speed of 3 MPH (5 km/h) in low range, the engine speed would be around 3000 RPM. This is well above the engagement speed of 1200 - 1400 RPM. However, in high range at 3 MPH (5 km/h), the engine would be running at only 1500 RPM. Whenever operating this close to the engagement speed, the engine may be running at a speed too low to provide the pinch needed to prevent belt slip. Belt slip is responsible for creating the excessive heat that destroys belts, wears clutch components and causes outer clutch covers to fail.

The air temperature in the clutch cover is substantially reduced by using low range while operating at low ground speeds. Reducing the temperature inside the clutch cover greatly extends the life of the PVT components (belt, cover, etc.).

# MAINTENANCE

## PVT System

### When to Use Low Range and High Range

Condition	Range to Use
Operating at speeds less than 7 MPH (11 km/h)	Low
Towing heavy loads	Low
Operating in rough terrain (swamps, mountains, etc.)	Low
Operating at speeds greater than 7 MPH (11 km/h)	High

### PVT Drying

There may be some instances when water is accidentally ingested into the PVT system. Use the following instructions to dry it out before operating.

1. Position the vehicle on a level surface.
2. Remove the drain plug. Allow the water to drain completely. Reinstall the drain plug.
3. Start the engine. Place the transmission in PARK.
4. Apply varying throttle for 10-15 seconds to expel the moisture and air-dry the belt and clutches. Do not hold the throttle wide open for more than 10 seconds.
5. Allow the engine RPM to settle to idle speed, then shift the transmission to the lowest available range.
6. Test for belt slippage. If the belt slips, repeat the process.
7. Take the vehicle to your dealer for service as soon as possible.

## 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.

### WARNING

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

**External:** Flush with water.

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

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

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

Your ATV may have either a sealed battery, which requires little maintenance, or a conventional battery. A sealed battery can be identified by its flat covers on the top of the battery. A conventional battery has six filler caps on the top of the battery.

Always keep battery terminals and connections free of corrosion. If cleaning is necessary, remove 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. Be careful not to allow cleaning solution or tap water into a conventional battery.

# MAINTENANCE

## Battery

### Battery Removal

1. Disconnect the battery hold-down strap.
2. Remove the battery cover (if equipped).
3. On conventional batteries, remove the battery vent tube.
4. Disconnect the black (negative) battery cable first.
5. Disconnect the red (positive) battery cable last.
6. Lift the battery out of the ATV. Be careful not to tip a conventional battery sideways, which could spill electrolyte.

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

## Battery

### Battery Installation

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. Follow the battery charging instructions on page 117 before installing the battery.

An optional extreme use battery may be available for your model. If the performance of the factory-installed battery is inadequate due to operation in extreme cold or due to extended use of multiple electrical accessories, please see your POLARIS dealer. Ask your dealer to provide any installation procedures that may differ for an extreme use battery.

1. Ensure that the battery is fully charged.
2. Place the battery in the battery holder.
3. With conventional batteries, install the battery vent tube (sealed batteries do not have a vent tube). The vent tube must be free of obstructions and securely installed. Route the tube away from the frame and vehicle body to prevent contact with electrolyte.

**WARNING!** Battery gases could accumulate in an improperly installed vent tube and cause an explosion, resulting in serious injury or death. Always ensure that the vent tube is free of obstructions and is securely installed as recommended.

4. On conventional batteries, coat the terminals with dielectric grease or petroleum jelly.
5. Connect and tighten the red (positive) cable first.
6. Connect and tighten the black (negative) cable last.
7. Install the battery cover (if equipped).
8. Secure the battery hold-down strap.
9. Verify that cables are properly routed. Cables should be safely tucked away at the front and rear of the battery.

# MAINTENANCE

## Battery

### 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.

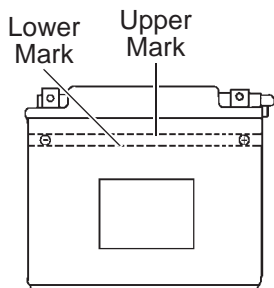
**Tip:** Power plug leads may need to be bent down so that the battery cover can be installed.

POLARIS recommends maintaining battery charge by using a POLARIS Battery Tender charger or by charging about once a month to make up for normal self-discharge. Battery Tender can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. See page 132 for the part numbers of POLARIS products.

### Battery Fluid (Conventional Battery)

A poorly maintained battery will deteriorate rapidly. Check the battery fluid level often. Maintain the fluid level between the upper and lower level marks.

Add only distilled water. Tap water contains minerals that are harmful to a battery.



## Battery

### Battery Charging (Conventional Battery)

1. Remove the battery from the vehicle to prevent damage from leaking or spilled electrolyte during charging. See page 114.
2. Charge the battery with a charging output no larger than 1/10 of the battery's amp/hr rating. Charge as needed to raise the specific gravity to 1.270 or greater.
3. Reinstall the battery. See page 115. Make sure the positive terminal is toward the front of the vehicle.

### Battery Charging (Sealed Battery)

The following battery charging instructions apply only to the installation of a sealed battery. Read all instructions before proceeding with the installation of this battery.

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.

The single most important thing about maintaining a sealed battery is to keep it fully charged. Since the battery is sealed and the sealing strip cannot be removed, you must use a voltmeter or multimeter to measure DC voltage.

**WARNING!** An overheated battery may 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.

For a refresh charge, follow all instructions carefully.

1. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher.
2. If the voltage is less than 12.8 volts, recharge the battery at 1.2 amps or less until battery voltage is 12.8 or greater.
3. When using an automatic charger, refer to the charger manufacturer's instructions for recharging. When using a constant current charger, use the guidelines on the next page for recharging.

# MAINTENANCE

## Battery

### Battery Charging (Sealed Battery)

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

<b>State of Charge</b>	<b>Voltage</b>	<b>Action</b>	<b>Charge Time</b> (Using constant current charger @ standard amps specified on top of battery)
100%	12.8-13.0 volts	None, check at 3 mos. 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



## Camber and Caster

The camber and caster are non-adjustable.

## Rear Spring

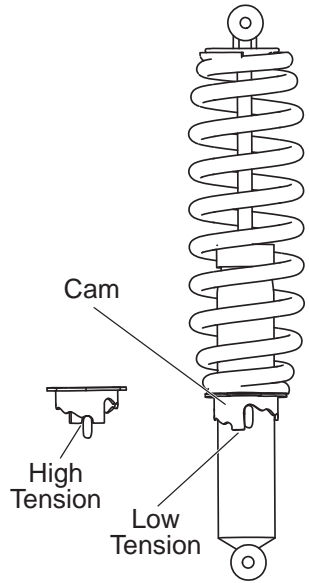
The rear shock absorber spring is adjusted by rotating the cam either clockwise or counter-clockwise to increase or decrease spring tension.

Accessory springs are available through your POLARIS dealer.

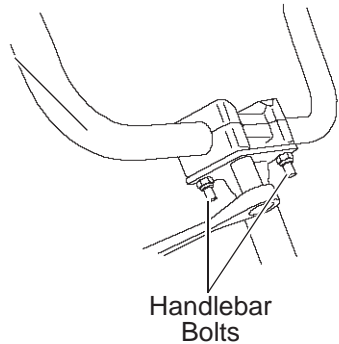
## Handlebars

The handlebars can be adjusted for rider preference.

**WARNING!** Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and serious injury or death. Follow the adjustment procedures exactly, or see your POLARIS dealer for service.



1. Remove the upper headlight pod.
2. Loosen the four handlebar bolts.
3. Adjust the handlebar to the desired height.
4. 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.
5. Torque the front two bolts to 10-12 ft. lbs. (14-17 Nm), then torque the rear two bolts. A gap of up to 1/8" (3 mm) will remain at the rear of the clamp blocks.



# MAINTENANCE

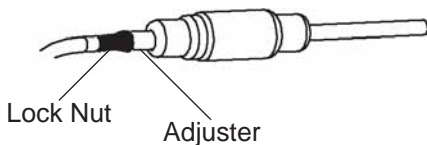
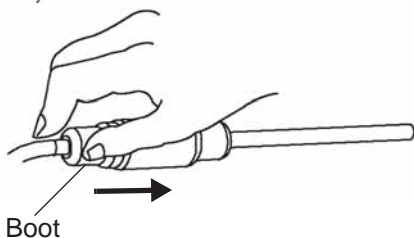
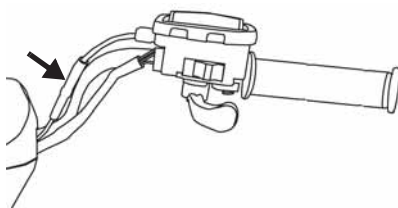
## Throttle Body/Idle RPM

Idle RPM is preset by the manufacturer. If the engine idle speed is not satisfactory, please see your POLARIS dealer for adjustment.

## Throttle Cable Freeplay

Adjust throttle cable freeplay at the handlebar.

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.



## Cleaning and Storage

### Washing the Vehicle

Keeping your POLARIS 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.

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.

### 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 and Storage

### 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 labels. Avoid directing the water stream at the following items:

- Wheel bearings
- Radiator
- Transmission seals
- Brakes
- Cab and body panels
- Electrical components
- Switches and controls
- Labels

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.

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.

### Polishing the Vehicle

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.

## Cleaning and Storage

### Chrome Wheel Care (if equipped)

Proper maintenance will protect chrome wheels from corrosion, preserve wheel life and ensure a “like new” appearance for many years. Chrome wheels exposed to road salt (or salt in the air in coastal areas) are more susceptible to corrosion if not properly cleaned. Clean chrome wheels more often if they're exposed to salt or other corrosive elements.

1. Wash chrome wheels frequently. Use a mild detergent. Never use abrasive cleaners on plated or painted surfaces.
2. Rinse well with clear water. Soap, detergents, salt, dirt, mud and other elements can cause corrosion.
3. Polish the clean chrome wheels periodically. Use an automotive grade chrome polish.
4. Routinely and liberally apply a weather resistant wax to each polished chrome wheel. Choose a product suitable for chrome finishes. Read and follow the product labels and instructions.

### Removing Corrosion

If light rust is found on the chrome finish, use steel wool (#0000-OTT grade) to remove it. Gently rub the affected areas with the steel wool until the corrosion has been removed. Clean and polish the wheel as outlined above.

# MAINTENANCE

## Cleaning and Storage

### Storage Tips

**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.

### Clean the Exterior

Make any necessary repairs and clean the vehicle as recommended. See page 121.

### Stabilize the Fuel

1. Fill the fuel tank.
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.
3. Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the entire fuel delivery system.

### Oil and Filter

Change the oil and filter. See page 85.

### Air Filter/Air Box

1. Inspect and clean (or replace) the pre-cleaner and air filter. See page 99.
2. Clean the air box.
3. Drain the sediment tube.
4. Clean or replace the breather valve. See page 100.

## Cleaning and Storage

### Storage Tips

#### Fluid Levels

Inspect the fluid levels. Add or change fluids as recommended in the Periodic Maintenance Chart beginning on page 78.

- Demand drive unit (front gearcase)
- Rear gearcase (if equipped)
- Transmission
- Brake fluid (change every two years and any time the fluid looks dark or contaminated)
- Coolant (test strength/fill)

#### Fog the Engine

1. After stabilizing the fuel, remove the spark plugs and add 2-3 tablespoons of engine oil. To access the plug holes, use a section of clear 1/4" hose and a small plastic squeeze bottle filled with the pre-measured amount of oil.
2. Reinstall the spark plugs. Torque to specification.
3. Apply dielectric grease to the inside of the spark plug cap and reinstall the caps onto the plugs.
4. Turn the engine over several times using electric start. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
5. If POLARIS fuel system additive is not used, the fuel tank, fuel lines, and injectors should be completely drained of gasoline.

# **MAINTENANCE**

## **Cleaning and Storage**

### **Storage Tips**

#### **Inspect and Lubricate**

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 78.

#### **Battery Storage**

See pages 116-117 for storage and charging procedures.

#### **Storage Area/Covers**

Set the tire pressure and safely support the ATV with the tires slightly off the ground. Be sure the storage area is well ventilated. Cover the vehicle with a genuine POLARIS cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

### **Accessories**

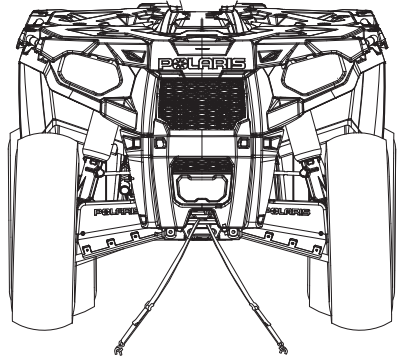
Auxiliary power outlets provide 12-volt power for operating accessories. Accessory outlets are available for all models. POLARIS also has a wide range of additional accessories available for your ATV. Always install accessories that are approved for ATV use. Please see your POLARIS dealer.



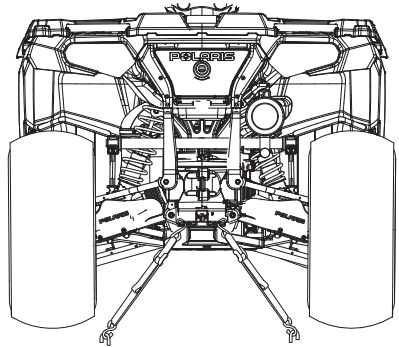
## Transporting the ATV

Follow these procedures when transporting the vehicle.

1. Stop the engine.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Secure the fuel cap, oil cap and seat.
5. Always tie the frame of the ATV to the transporting unit securely with suitable straps or rope. Do not attach tie straps to the front A-arm bolt pockets, racks or handlebars.
6. Remove the key to prevent loss during transporting.



Front



Rear

# TROUBLESHOOTING

## Drive Belt Wear/Burn

Possible Cause	Solution
Driving onto a pickup or tall trailer in high range	Use low range during loading.
Starting out going up a steep incline	Use low range or turn around using the K-turn (see page 58).
Driving at low RPM or ground speed (3-7 MPH)	Drive at a higher speed or use low range more frequently. See page 112.
Insufficient warm-up at low ambient temperatures	Warm the engine at least 5 minutes. With the transmission in neutral, advance the throttle to about 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow/easy clutch engagement	Use the throttle quickly and effectively.
Towing/pushing at low RPM/low ground speed	Use low range only.
Utility use/plowing	Use low range only.
Stuck in mud or snow	Shift the transmission to low range and carefully use fast, aggressive throttle application to engage clutch. <b>WARNING!</b> Excessive throttle may cause loss of control and vehicle rollover.
Climbing over large objects from a stopped position	Shift the transmission to low range and carefully use fast, brief, aggressive throttle application to engage clutch. <b>WARNING!</b> Excessive throttle may cause loss of control and vehicle rollover.
Belt slippage from water or snow ingestion into the PVT system	Dry out the PVT. See page 112. Inspect clutch seals for damage if repeated leaking occurs.
Clutch malfunction	See your POLARIS dealer.
Poor engine performance	Check for fouled plugs or foreign material in gas tank or fuel lines. See your dealer.
Slippage from failure to warm up belt	Always warm up the belt by operating below 30 MPH for one mile (5 miles or more when temperature is below freezing).
Wrong or missing belt	Install the recommended belt.
Improper break-in	Always break in a new belt and/or clutch. See page 47.

# TROUBLESHOOTING

## Engine Doesn't Turn Over

Possible Cause	Solution
Tripped circuit breaker or blown fuse	Reset the breaker/Replace fuse
Low battery voltage	Recharge the battery to 12.8 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

## Engine Turns Over, Fails to Start

Possible Cause	Solution
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start
Clogged fuel filter	Replace the filter
Water is present in fuel	Drain the fuel system and refuel
Old or non-recommended fuel	Replace with fresh recommended fuel
Fouled or defective spark plugs	Inspect plugs and replace if necessary
No spark to spark plug	Inspect plugs, verify stop switch is on
Water or fuel in crankcase	Immediately see your POLARIS dealer
Low battery voltage	Recharge the battery to 12.8 VDC
Mechanical failure	See your dealer

## Engine Backfires

Possible Cause	Solution
Weak spark from 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 fresh recommended fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with fresh recommended fuel

# TROUBLESHOOTING

## Engine Pings or Knocks

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

## Engine Runs Irregularly, Stalls or Misfires

Possible Cause	Solution
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.8 VDC
Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer

Possible Lean Fuel Cause	Solution
Low or contaminated fuel	Add or change fuel, clean the fuel system
Kinked or plugged fuel tank vent line	Inspect and replace
Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Replace filter
Incorrect fuel	Replace with recommended fuel

Possible Rich Fuel Cause	Solution
Fuel is very high octane	Replace with lower octane fuel
Stopping/starting without adequate warm-up	Allow engine to warm up before operating and/or stopping
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace

# TROUBLESHOOTING

## Engine Stops or Loses Power

Possible Cause	Solution
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start
Kinked or plugged fuel vent line	Inspect and replace
Water is present in fuel	Replace with new fuel
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge the battery to 12.8 VDC
Incorrect fuel	Replace with fresh recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Overheated engine	Clean radiator screen and core, clean engine exterior, see your dealer

## Engine Overheating<sup>80</sup>

Possible Cause	Solution
Debris lodged in screen	Remove and clean the screen. Pull on the top portion of the screen, then remove the lower portion.
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.

# POLARIS PRODUCTS

Part Number	Description
<b>Engine Lubricant</b>	
2870791	Fogging Oil (12 oz. Aerosol)
2876244	PS-4 Full Synthetic 5W-50 4-Cycle Oil (qt./95 l)
2876245	PS-4 Full Synthetic 5W-50 4-Cycle Oil (gal./3.8 l)
2878920	PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (qt./95 l)
2878919	PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (gal./3.8 l)
<b>Gearcase / Transmission Lubricants</b>	
2878068	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (qt./95 l)
2878069	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (gal./3.8 l)
2877922	Demand Drive Plus Fluid (qt./95 l)
2877923	Demand Drive Plus Fluid (gal./3.8 l)
2870465	Pump for Gallon (3.8 l) Jug
<b>Coolant</b>	
2880514	Antifreeze 50/50 Premix (qt./95 l)
2880513	Antifreeze 50/50 Premix (gal./3.8 l)
<b>Grease / Specialized Lubricants</b>	
2871312	Grease Gun Kit, Premium All Season
2871322	All Season Grease (3 oz./89 ml cartridge)
2871423	All Season Grease (14 oz./414 ml cartridge)
2871460	Premium Starter Grease
2871515	U-Joint Grease (3 oz./89 ml cartridge)
2871551	U-Joint Grease (14 oz./414 ml cartridge)
2871329	Dielectric Grease (Nyogel™)
<b>Additives / Miscellaneous</b>	
2871326	Carbon Clean
2870652	Fuel Stabilizer
2872189	DOT 4 Brake Fluid
2871956	Loctite™ 565 Thread Sealant
2859044	POLARIS Battery Tender™ Charger

# SPECIFICATIONS

## SPORTSMAN 570

Maximum Weight Capacity	485 lbs. (220 kg) (operator, cargo, accessories)
Dry Weight	702 lbs. (318.4 kg) (570 EFI) 713 lbs. (323.4 kg) (570 EPS)
Fuel Capacity	4.5 gal. (17 l)
Engine Oil Capacity	2 qts. (1.9 l)
Transmission Oil Capacity	32 oz. (948 ml)
Demand Drive Fluid Capacity	9 oz. (265 ml)
Coolant Capacity	2.7 qts. (2.5 l)
Front Rack/Box Capacity	90 lbs. (40.8 kg)
Rear Rack/Box Capacity	180 lbs. (81.6 kg)
Receiver Hitch Tongue Capacity	120 lbs. (54 kg) (Rear rack capacity and tongue weight not to exceed 180 lbs./81.6 kg)
Hitch Towing Rating	1225 lbs. (555.7 kg)
Unbraked Trailer Towing Capacity*	1786 lbs. (810 kg)
Overall Length/Width/Height	83 in. (211 cm) / 48 in. (122 cm) / 48 in. (122 cm)
Wheelbase	50.5 in. (128.3 cm)
Ground Clearance	11 in. (28 cm)
Minimum Turning Radius	65 in. (165 cm) unloaded
Engine	Dual overhead cam, 4 valve 4 stroke single cylinder
Displacement	567 cc
Bore x Stroke	99mm x 73.6mm
Alternator Output	560 W @ 7000 RPM
Compression Ratio	10:1
Starting System	Electric
Fuel System	Electronic Fuel Injection
Ignition System	ECU
Spark Plug / Gap	RG6YC / 0.7-0.8 mm
Lubrication System	Wet Sump
Driving System Type	Automatic PVT (POLARIS Variable Transmission)
Front Suspension	MacPherson strut with 8.2" (21 cm) travel
Rear Suspension	Progressive rate with 9.5" (24 cm) travel
Shift Type	H/L/N/R/P

\* Based on EU Directive 76/432/EC

# SPECIFICATIONS

SPORTSMAN 570	
Gear Reduction, Low	23.91:1
Gear Reduction, Reverse	21.74:1
Gear Reduction, Forward	9.75:1
Drive Ratio, Front	3.82:1
Tires/Pressure, Front	25x8-12 / 5 psi (34.5 kPa)
Tires/Pressure, Rear	25x10-12 / 5 psi (34.5 kPa) 25x11-12 / 5 psi (34.5 kPa) (LE models)
Brakes, Front/Rear	Single-Control Hydraulic Disc
Brake, Auxiliary	Foot-Activated Hydraulic Disc
Brake, Parking	Hydraulic lock, all wheel
Headlight	1 Single Beam on Headlight Pod (50 watt) 2 Single Beam on Bumper (50 watt)
Taillights	8.26 watts
Brake Light	26.9 watts
Instrument Cluster	LCD

## Clutching Chart

Altitude		Shift Weight	Drive Clutch Spring	Driven Clutch Spring	Helix*
Meters (Feet)	0-1800 (0-6000)	25-52G PN 5632409	Black PN 7043594	Red PN 3234451	EBS PN 3235639 Non-EBS PN 5132344
	1800-3700 (6000-12000)	25-48 PN 5632408	Black PN 7043594	Red PN 3234451	EBS PN 3235639 Non-EBS PN 5132344

\*EBS models require no helix/spring adjustment



# WARRANTY

## Limited Warranty

POLARIS Industries Inc., 2100 Highway 55, Medina, MN 55340 (POLARIS) gives a SIX MONTH LIMITED WARRANTY on all components of your POLARIS vehicle against defects in material or workmanship. POLARIS further warrants that the spark arrester in this product 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.

This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of purchase by the original retail purchaser. This warranty is transferable to another owner during the warranty period through a POLARIS dealer, but any such transfer will not extend the original term of the warranty. The duration of this warranty may vary by international region based upon local laws and regulations.

## Registration

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to POLARIS within ten days of purchase. 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 your proof of warranty coverage. 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 VEHICLE IS REGISTERED WITH POLARIS.** Initial dealer preparation and set-up of your vehicle 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 Coverage And Exclusions:

### Limitations Of Warranties And Remedies

This POLARIS limited warranty excludes any failures that are not caused by a defect in material or workmanship. **THIS WARRANTY DOES NOT COVER CLAIMS OF DEFECTIVE DESIGN.** This warranty also does not cover acts of God, accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any vehicle, component, or part that has been altered structurally, modified, neglected, improperly maintained or used for racing, competition or purposes other than for which it was designed.

This warranty excludes damages or 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; snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket or unapproved components, accessories, or attachments; unauthorized repairs; or repairs made after the warranty period expires or by an unauthorized repair center.

# WARRANTY

## Warranty Coverage And Exclusions: Limitations Of Warranties And Remedies

This warranty excludes damages or failures caused by abuse, accident, fire, or any other cause other than a defect in materials or workmanship and provides no coverage for consumable components, general wear items, or any 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
- Filters
- Lubricants
- Bushings
- Finished and unfinished surfaces
- Carburetor/Throttle body components
- Engine components
- Drive belts
- Hydraulic components and fluids
- Circuit breakers/Fuses
- Electronic components
- Spark plugs
- Sealants
- Coolants
- Bearings

### Lubricants and Fluids

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

This warranty provides no coverage for personal loss or expense, including mileage, transportation costs, hotels, meals, shipping or handling fees, product pick-up or delivery, replacement rentals, loss of product use, loss of profits, or loss of vacation or personal time.

THE EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT POLARIS' OPTION, REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, 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.

THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXCLUDED FROM THIS LIMITED WARRANTY. ALL OTHER IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY) ARE LIMITED IN DURATION TO THE ABOVE SIX MONTH WARRANTY PERIOD. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. SOME STATES DO NOT PERMIT THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU IF INCONSISTENT WITH CONTROLLING STATE LAW.

# WARRANTY

## How To Obtain Warranty Service

If your vehicle requires warranty service, you must take it to a POLARIS Servicing Dealer. 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.

### *In the Country where your product 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 product was purchased, Warranty and Service Bulletin repairs may be requested from any authorized POLARIS dealer that sells the same line as your product.

### *Outside the Country where your product was purchased:*

If you are traveling temporarily outside the country where your product was purchased, you should take your product 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.

### *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. Product importation rules vary considerably from country to country. You may be required to present documentation of your move to POLARIS in order to continue your warranty coverage. You may also be required to obtain documentation from POLARIS in order to register your product in your new country. You should warranty register your product at a local POLARIS dealer in your new country immediately after you move to continue your warranty coverage and to ensure that you receive information and notices regarding your vehicle.

### *If you purchase from a private party:*

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

## Exported Products

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WARRANTY OR SERVICE BULLETIN COVERAGE ON THIS PRODUCT IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION. This policy does not apply to products that have received authorization for export from POLARIS. Dealers may not give authorization for export. You should consult an authorized dealer to determine this product's warranty or service coverage if you have any questions. This policy does not apply to products 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.

# WARRANTY

## Notice

If your product is registered outside of the country where it was purchased and you have not followed the procedure set above, your product will no longer be eligible for warranty or service bulletin coverage of any kind, other than safety bulletins. Products registered to government officials or military personnel on assignment outside of the country where the product was purchased will continue to be covered by the Limited Warranty.

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

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or in different countries. If any of the above terms are void because of federal, state, local law, all other warranty terms will remain in effect.

**For questions call POLARIS Customer Assistance:**

United States & Canada: 1-800-POLARIS (1-800-765-2747)

French: 1-800-268-6334

## 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 off road vehicles 100cc or greater emissions-certified vehicles starts on the date of purchase by original retail purchaser and continues for a period of 500 hours of engine operation, 5000 kilometers (3100 miles) of vehicle travel, or 30 calendar months from the date of purchase, whichever comes first. The warranty period for ATVs less than 100cc emissions-certified vehicles starts on the date of purchase by original retail purchaser 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 EPA emissions warranty period is extended for at least as long as the standard factory warranty that Polaris provides on the vehicle as a whole. The EPA emissions warranty period does not further extend if you purchase additional warranty coverage in the form of a service contract or other paid warranty extension, but emission-related parts may be covered subject to the terms of any such paid service contract or paid warranty extension.

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.

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

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

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

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

# WARRANTY

## U.S.A. EPA Emissions Limited Warranty

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

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

\*As related to the evaporative emission control system.

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.

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 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.

# WARRANTY

## California Residents

Certain POLARIS Off-Road Vehicles are available in 49-state and 50-state versions. Only the 50-state models are certified for sale in California. The 50-state models available for sale in California are identified by the letter “C” in the model name (e.g., R13UH88A\_C). The POLARIS 50-state models are designed and built with features such as a reduced cargo box capacity. Any modifications to these features may be a violation of the applicable California regulations and may void this limited emissions warranty offered by the manufacturer.

If you have any questions regarding your warranty rights and responsibilities, please contact POLARIS Customer Assistance:

United States & Canada: 1-800-POLARIS (1-800-765-2747)

French: 1-800-268-6334

# 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	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

# MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS





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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**

## **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.

**READ OWNER'S MANUAL.**

**FOLLOW ALL INSTRUCTIONS AND WARNINGS.**



**POLARIS®**

For your nearest Polaris dealer,  
call 1-800-POLARIS (765-2747)  
or visit [www.polaris.com](http://www.polaris.com)

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