



**POLARIS®**

**2018**

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

**OUTLAW® 50**

**Read this manual carefully. It contains important safety information.  
Adult supervision is required at all times.  
Operation is prohibited for anyone under 6 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.***



**POLARIS®**

*2018 Owner's Manual  
Outlaw 50*

## IMPORTANT SAFETY INFORMATION

Scan this QR code with your smartphone to see an important Safety Video regarding your Polaris vehicle.

This safety video can also be found at <http://www.polaris.com/en-us/rider-support/safety>. If you are on the homepage of the Polaris website, click on the Rider Community heading and select “Product Safety and Training Information” from the dropdown menu to access this page.



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Copyright 2017 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 Taiwan

2018 Outlaw 50 Owner's Manual  
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## MESSAGES

### DEAR PARENTS:

We believe your children should have the opportunity to enjoy the POLARIS riding experience along with you. We've provided this owner's manual to assist you and your children in learning about safe operation and care of your new ATV.

*A POLARIS ATV is not a toy and can be hazardous to operate. Make sure any child who will operate the ATV takes a training course before operating the ATV. Make sure all operators understand and follow all of the instructions and warnings contained in this owner's manual.*

*Never allow a child under the age of 16 to operate an ATV without adult supervision. Children differ in skills, physical abilities and judgement. Some children may not be able to operate an ATV safely. Permit continued use only if you determine that your child has the ability and maturity to operate the ATV safely.*

*For your child's safety, be sure your child can reach and operate all ATV controls, including handlebars, brake levers, throttle lever and engine stop switch.*

The preventive maintenance program outlined in this manual is designed to ensure that all critical components on your child's ATV are thoroughly inspected at specific intervals. Follow all of the instructions and recommendations in this manual.

# MESSAGES

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## **DEAR YOUNG OPERATORS:**

Before you ride your new POLARIS ATV, there are some important things that you need to know. You must learn how to keep yourself and those around you safe while you're riding. Your parents and Polaris want you to enjoy riding your new ATV, and that's why you need to read and understand the information in your owner's manual. You must also take an ATV training course before you begin riding.

Ask your parents to explain anything you don't understand, and pay close attention to the warnings and instructions you read. Your safety and the safety of others is the most important thing to think about at all times. Never drive your ATV alone. Always make sure an adult is watching you when you ride.

Drive safely and enjoy riding your new POLARIS ATV!

## 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.

### **WARNING**

WARNING indicates a hazardous situation that, if not avoided, **may** result in death to the operator, bystanders or person(s) inspecting or servicing the vehicle.

### **CAUTION**

CAUTION indicates special precautions that must be taken to avoid vehicle damage or property damage.

### **NOTICE**

NOTICE provides key information by clarifying instructions.

## INTRODUCTION

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### CAUTION

SAFETY ALERT CAUTION indicates a potential hazard that may result in minor personal injury or damage to the vehicle.

### IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components.

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



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



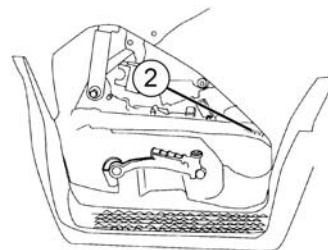
# INTRODUCTION

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## 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.

- ① Frame Identification Number
- ② Engine Serial Number



Vehicle Model Number:	
Frame Identification Number:	
Engine Serial Number:	
Key Number	

### **WARNING**

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

- Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating a POLARIS ATV. Keep this manual with the ATV.
- Never operate an ATV without proper instruction. Take a training course.
- For your child's safety, be sure your child can reach and operate all ATV controls, including handlebars, brake levers, throttle lever and engine stop switch.
- Always follow the age guidelines for your vehicle. Y-10+ models are designed for children not less than 10 years of age and Y- 6+ models are designed for children not less than 6 years of age. No child under the age of 16 should ride any ATV designed and sold for an adult.
- 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.





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## SAFETY

### SAFETY WARNINGS

#### **WARNING**

Failure to operate this vehicle 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 and in the safety DVD provided with your vehicle.

Be sure to read all of the following warnings about driving hazards and how to avoid them. These warnings are provided for your child's safety. Be sure to explain to your young driver that the hazards outlined in this section of this owner's manual **MUST** be avoided at all times. See the OPERATION section of this owner's manual for proper operating procedures.

# SAFETY

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## OPERATING WITHOUT INSTRUCTION

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

All operators must read and understand this owner's manual and all warning and instruction labels before operating the vehicle.

Never allow a guest to operate this vehicle until the guest has read this



manual and all product labels and has completed the New Operator Driving Procedures outlined on.

## AGE RESTRICTIONS

This vehicle is for recreational use by young operators under adult supervision **ONLY**.

Operation is prohibited for anyone under age 6. Never operate with a passenger under age 6. All riders must be able to sit with backs against the seat, both feet flat on the floor and both hands on the steering wheel (if driving) or on a passenger hand hold.



## HANDLING GASOLINE

Gasoline is highly flammable and explosive under certain conditions.

- Never allow a child to refuel or handle gasoline.
- 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.

# SAFETY

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## 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 vehicle is in safe operating condition before operating increases the risk of an accident.

Always inspect the vehicle before each use to make sure it's in safe operating condition. See page 77.

Always follow the inspection and maintenance procedures and schedules described in this owner's manual. See page 99.



## PROTECTIVE APPAREL

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

Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket and long pants.



## USING ALCOHOL OR DRUGS

Riding in this vehicle after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception.

Never consume alcohol or drugs before or while operating or riding in this vehicle.



# SAFETY

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## CARRYING A PASSENGER

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



## OPERATING ON PAVEMENT

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



## OPERATING ON PUBLIC ROADS

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



## 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.



## TURNING IMPROPERLY

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

Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow

# SAFETY

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speeds before attempting to turn at faster speeds.

## 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.



## JUMPS AND STUNTS

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



## DESCENDING HILLS IMPROPERLY

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

- Always follow proper procedures for traveling down hills as described in the owner's manual.



**NOTE**

A special technique is required when braking while traveling downhill. See page 89.

- 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.

**IMPROPER HILL CLIMBING**

Improper hill climbing could cause loss of control or overturn. Always follow proper procedures for climbing hills as described in the owner's manual. See page 24.



# SAFETY

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## OPERATING ON STEEP HILLS

Operating on excessively steep hills could cause an overturn. Never operate on hills too steep for the ATV or for your abilities. **Never operate the ATV on hills steeper than 15 degrees.**

## CROSSING HILLSIDES

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

If crossing a hillside is unavoidable, always follow proper procedures as described in the owner's manual. See page 88.

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 89.



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## STALLING WHILE CLIMBING A HILL

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

Always maintain a steady speed when climbing a hill.

If you lose all forward speed:

Keep your weight uphill.

Apply the front brakes gradually (right lever).

When fully stopped, apply the rear brake as well (left lever) and then lock the parking brake.

*If the ATV begins rolling downhill:*



Keep weight uphill. Never apply engine power. Never apply the rear brake while rolling backwards. Apply the front brake slowly.

When fully stopped, apply rear brake as well, and then lock the parking brake.

Dismount on uphill side, or to either side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual. See page 89.

# SAFETY

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## OPERATING IN UNFAMILIAR TERRAIN

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

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



## OPERATING ON SLIPPERY TERRAIN

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

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

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



### **IMPROPER VEHICLE MODIFICATIONS**

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

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

### **OPERATING OVER OBSTACLES**

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

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

# SAFETY

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## SKIDDING OR SLIDING

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

## IMPROPER TIRES AND MAINTENANCE

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

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

## OPERATING THROUGH DEEP WATER

Operating the ATV through deep or fast-flowing water could cause the tires to float, causing loss of control or overturn.

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the recommended maximum depth (see page 93):

- Travel slowly.
- Balance your weight carefully.
- Avoid sudden movements.
- Maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. After leaving water, test the brakes. Apply them lightly several times while driving. The friction will help dry out the pads.

## IMPROPER CARGO LOADING

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

Never haul cargo or tow a load with this ATV. Never tow or pull an object behind the ATV. A wagon, sled or other towed object does not have brakes or steering. The object may overturn or collide with other objects. Never exceed the stated load capacity for this ATV.



## 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.

## OPERATING A DAMAGED ATV

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

## UNAUTHORIZED USE OF THE ATV

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

# SAFETY

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## PHYSICAL SKILLS

Safe operation of this rider-active vehicle requires good judgement and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturn and loss of control.

## 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

## 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.

In addition, you were provided with printed material and a video or DVD that instructs operators on safe operating procedures. You should review this information with your child on a regular basis. Do not

system components. Always keep combustible materials away from the exhaust system.

Use caution when traveling through tall grass, especially dry grass. Always inspect the underside of the vehicle and areas near the exhaust system after driving through tall grass, weeds, brush and other tall ground cover. Promptly remove any grass or debris clinging to the vehicle.



allow other children to ride this ATV unless they have read the manual, seen the instructional video or DVD and taken and completed an approved ATV safety training course.

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.

**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

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## EQUIPMENT MODIFICATIONS

Your POLARIS vehicle is designed to provide safe operation when used as directed.

### **WARNING**

Modifying this vehicle in any way can change the top speed, stability and handling performance of this vehicle. Modifications that increase speed, decrease stability or change performance may present a greater risk to inexperienced or younger operators and could result in loss of control and serious injury or death. Use only POLARIS-approved accessories to modify this vehicle. Review all vehicle changes with your child prior to operating.

The POLARIS limited warranty on your POLARIS vehicle will be terminated if any non-POLARIS-approved equipment and/or modifications have been added to the vehicle that increase speed or power.

## 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

# SAFETY

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## SAFE RIDING GEAR

The driver and passenger must wear:

- ① A helmet
- ② Eye protection
- ③ Long-sleeve shirt
- ④ Gloves
- ⑤ Long pants
- ⑥ Over-the-ankle boots

and seat belt at all times. Protective gear reduces the chance of injury.



## EYE PROTECTION

Do not depend on eyeglasses or sunglasses for eye protection. Whenever riding this 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.

## HELMET

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

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

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

# SAFETY

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## GLOVES

Wear gloves for comfort and for protection from sun, cold weather and other elements.

## BOOTS

Wear sturdy over-the-ankle boots for support and protection. Never ride a POLARIS vehicle with bare feet or sandals.

## CLOTHING

Wear long sleeves and long pants to protect arms and legs.

## RIDER COMFORT

Under certain operating conditions, heat generated by the engine and exhaust system can elevate temperatures in the driver and passenger cab area. The condition occurs most frequently when a vehicle is being operated in high ambient temperatures at low speeds and/or high load conditions for an extended period of time. The use of certain windshield, roof and/or cab systems may contribute to this condition by restricting airflow. Any discomfort due to heat buildup in this area can be minimized by wearing proper riding apparel and by varying speeds to increase airflow.

## SAFETY LABELS AND LOCATIONS

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

If an informational or graphic label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement *safety* labels are provided by POLARIS at no charge. The part number is printed on the label.

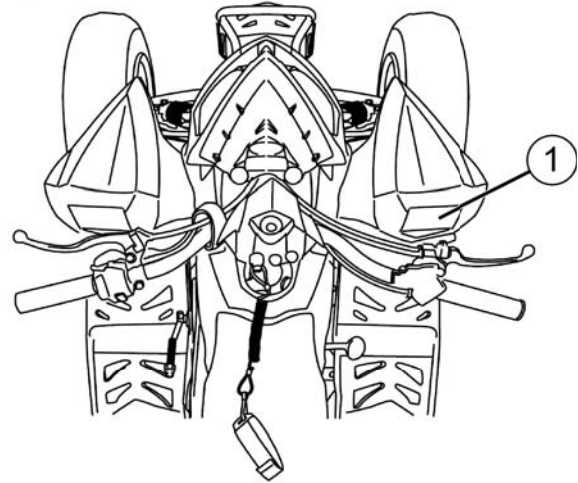
# SAFETY

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## AGE WARNING ①

### **WARNING**

Operation of this ATV by children under age 6 increases the risk of severe injury or death.  
Adult supervision required for children under age 16.  
**NEVER** permit children under age 6 to operate this ATV.

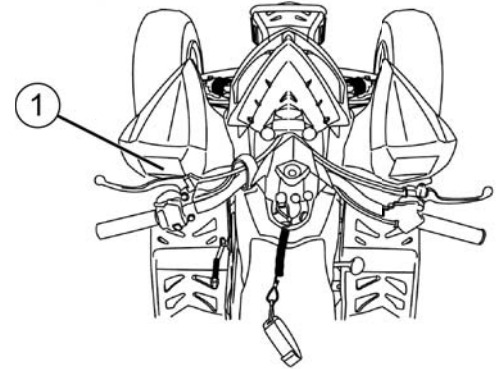




## OPERATION WARNING ①

**⚠ 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.



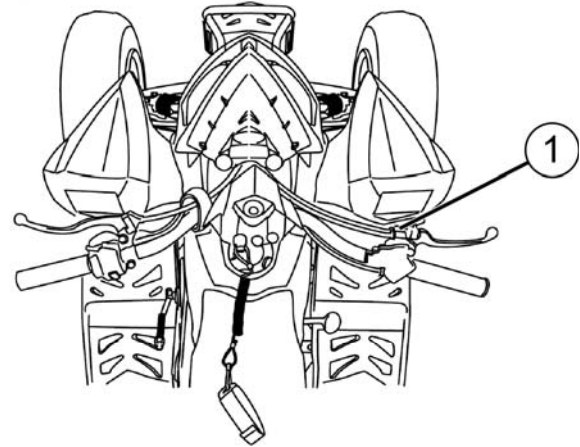
# SAFETY

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## DISCRETIONARY WARNING ①

### **WARNING**

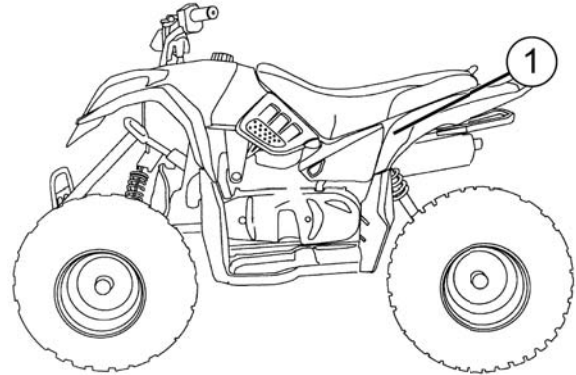
Never operate this ATV on HILLS **steeper than 15 degrees 15°**. To prevent overturn on hilly terrain, use throttle and brakes gradually and shift weight uphill. REVERSE operation can be dangerous even at low speeds. Steering becomes difficult. To prevent loss of control, avoid sudden braking or sharp turns.



**TIRE PRESSURE WARNING**①**⚠ 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: 2.0 psi (13.8 kPa)  
Rear: 2.0 psi (13.8 kPa)
- Maximum Weight Capacity 90 lbs. (41 kg)



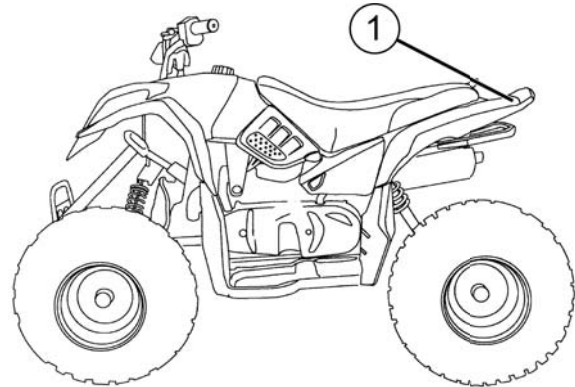
# SAFETY

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## NO PASSENGER WARNING ①

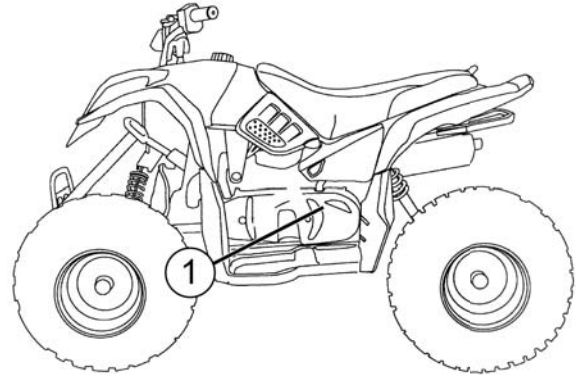
### **WARNING**

NEVER ride as a passenger.  
Passengers can cause a loss of control, resulting in  
SEVERE INJURY or DEATH.



**CLUTCH COVER WARNING ①****⚠ WARNING****NO STEP**

- Moving parts hazard under belt-clutch guard. To prevent serious injury, do not operate vehicle with guard removed.
- Do not touch clutch cover, cover may become hot.
- 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.





# YOUNG RIDERS SECTION

## KNOW YOUR ATV

**PARENTS:** POLARIS Youth ATVs are equipped with a speed control system to allow adults to limit the speed of the vehicle for the rider's skill and experience. More information on speed limiting functions can be found beginning on page 127. These units are not designed for adult use. Serious damage to the vehicle may occur if the maximum rider weight capacity is exceeded. See the specifications section beginning on page 157 for your ATV's capacity.

**YOUNG RIDERS:** Before you ride your new POLARIS ATV, there are some important things that you need to know. Your safety and the safety of others is the most important thing to think about at all times. As the driver of the ATV, you must learn how to keep yourself and those around you safe while you're riding.

## YOUNG RIDERS SECTION

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### **WARNING**



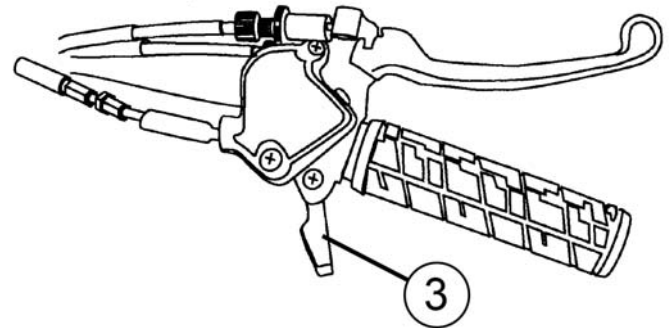
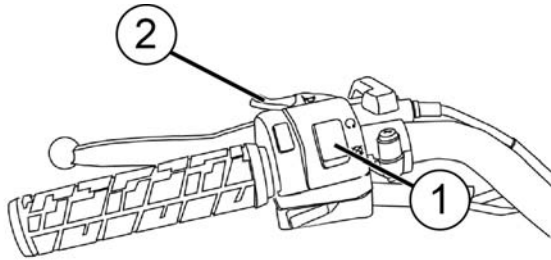
This is the safety alert symbol. When you see this symbol on your ATV or in this manual it means **PAY ATTENTION** because you could die or be seriously injured if you don't follow the instructions.

Before you have an adult start the engine for you for the first time, let's learn about the controls on your new ATV.

1. **Engine Stop Switch** ① - When the engine is running, push this button down to shut the engine off quickly. The button must be up before you can start the engine again.
2. **Horn Button** ② - Press the horn button to sound the horn.



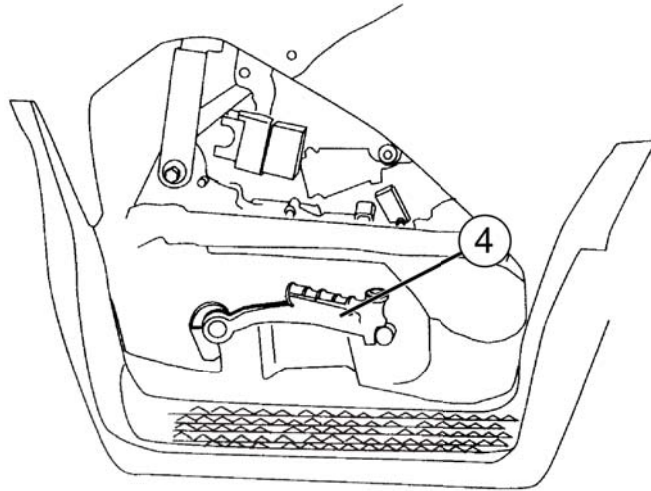
3. **Throttle Control** ③ - Press the throttle lever with your thumb when you want the ATV to go forward. Always make sure the throttle control does not stick before you drive your ATV. Read more about it on page 54.



## YOUNG RIDERS SECTION

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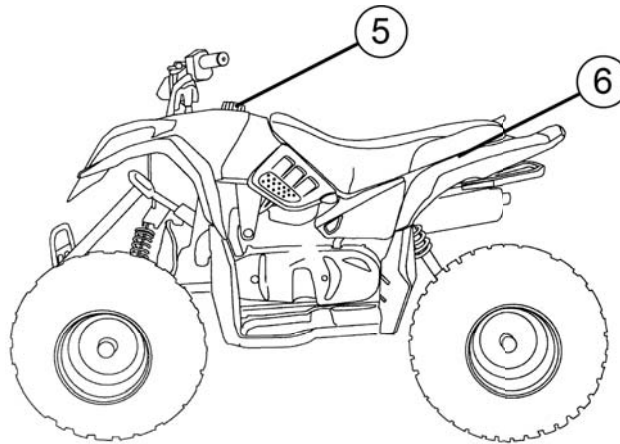
4. **Kick-Start Lever** ④ - If your battery is too weak to start your ATV, you can push down on the kick-start lever with your foot to start the engine. Have an adult show you how it works. Read more about how to use the kick-start on page page 72.



5. **Gas Cap** ⑤ - The gas cap has to be taken off when an adult puts gas in your ATV. Never take the gas cap off. Always make sure it's tightly closed.

**⚠ WARNING**

Always have an adult put gas in your ATV. Never try to do it yourself.



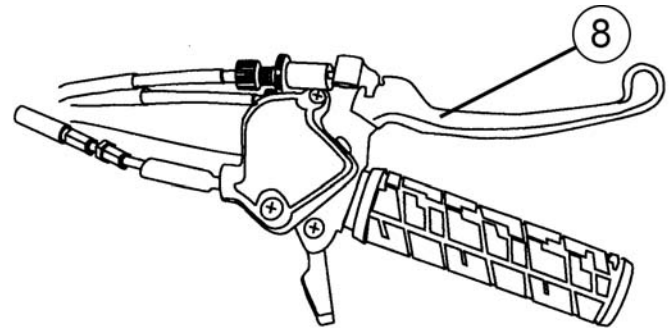
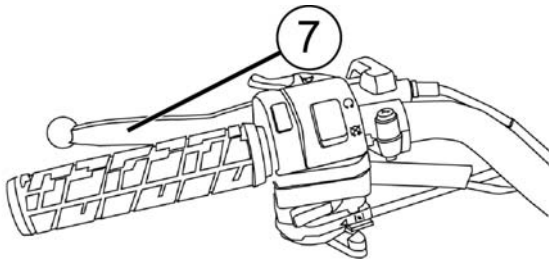
## YOUNG RIDERS SECTION

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6. **Seat Latch** ⑥ - The seat latch is under the left edge of the seat. Reach under the left rear fender and pull back on the latch to remove the seat. To replace the seat, set it in place and push down on the seat above the latch. Always make sure the seat is locked in place before riding.
7. **Brake Levers** - Squeeze the brake levers toward the handlebar to slow down or stop the ATV. The left lever controls the rear brake ⑦. The right lever controls the front brake ⑧. Always squeeze both brake levers at the same time.

### **⚠ WARNING**

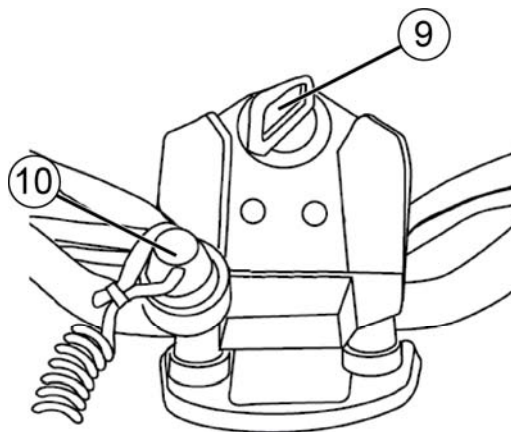
Always squeeze both brake levers at the same time or you could lose control of the ATV and be seriously injured. Always take your thumb off the throttle lever when you squeeze the brake levers.



## YOUNG RIDERS SECTION

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8. **Ignition Switch** ⑨ - The ignition switch key must be turned on before pushing the start button. You can also use this key to turn off the engine.



9. **Tether Strap and Switch** ⑩ - The tether strap must always be attached snugly to your right wrist and to your ATV every time you drive. If you fall off your ATV, the tether strap will pull away from the switch and the engine will stop.

### **WARNING**

Never ride without the tether strap attached to your right wrist and to your ATV. Be careful not to let the cord get tangled around the handlebars or any part of your body.

#### **Let's review the three ways to stop the engine of your ATV.**

1. Push the engine stop switch down.
2. Pull the tether strap off the ATV.
3. Turn the key off.

## YOUNG RIDERS SECTION

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### PRE-RIDE CHECK

We're almost ready to have an adult start your ATV. But before the ATV is started for the first time, you must do a Pre-Ride Check. In fact, every time you want to ride you must have an adult help you check some things on your ATV before starting it. Let's learn about these things now.

1. Make sure the throttle doesn't stick. Check this by pushing the throttle lever toward the handlebar and then letting go. The lever should come right back to where it was before you pushed it. If it comes back slowly or stays close to the handlebar, the ATV has a sticky throttle. This means that something is wrong or broken and must be fixed before you can ride your ATV safely.

#### **WARNING**

Never start the engine if you have a sticky throttle. You could be seriously hurt if you ride with a sticky throttle. Have an adult or your POLARIS dealer fix the throttle before you ride.

2. Make sure the brakes don't stick. Check the brake levers by squeezing them toward the handlebar and then letting go. They should come right back to where they were before you squeezed. If they go back slowly or stay close to the handlebar, your ATV has sticky brakes. They must be fixed before you can ride your ATV safely.



### **WARNING**

Never start the engine if your ATV has sticky brakes. You could be seriously hurt if you ride with sticky brakes. Have an adult or your POLARIS dealer fix the sticky brakes before you ride.

3. Have an adult check to see if your ATV needs more gas. Children must never add their own gasoline. This must always be done by an adult. Before anyone adds gasoline to your ATV they must read the instructions and warnings on page 37 of this manual.

## YOUNG RIDERS SECTION

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### **WARNING**

Always have an adult put gas in your ATV. Never try to do it yourself.

4. If you used the storage area under the seat, make sure the seat is locked in place.
5. Have an adult check the engine oil level when the engine is cold. The engine is very hot after it has been running and it can burn your skin if you touch it. Children must never check the oil on their own. An adult should always be in charge of keeping the gas and oil levels at the full marks.
6. This last check is done with the engine running. You must check to make sure that all three ways to stop the engine of your ATV are working the way they should. Do you remember what they are? If you can't remember the three ways to stop the engine, go back to page     and review. Then have an adult help you start the engine. Practice stopping the engine all three ways.

## **RIDING RULES**

Now you're ready to learn about riding your POLARIS ATV. There are some things you can do and there are some things you must never do. Rules are very important when you're driving an ATV. Adults have riding rules, too. The rules help keep us safe when we ride.

### NOTE

The adult with you is your teacher. Always pay attention to what your teacher says so you can learn how to always drive safely.

### WARNING

Always follow the safe riding rules found on the next pages. You or others around you could be seriously hurt if you don't follow the safe riding rules.

## RIDING GEAR

### NOTE

Always wear the right kind of clothing and safety gear when riding your ATV.

**Helmet:** Your helmet is very important for safe riding. A helmet can prevent a severe head injury.

## YOUNG RIDERS SECTION

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**Eye Protection:** Always wear shatterproof goggles or a helmet face shield, and always keep them clean so you can see where you're driving.

**Gloves:** Wear gloves to protect your hands from sun and wind. Gloves will also protect your hands from scrapes and scratches.

**Boots:** Wear sturdy over-the-ankle boots to keep your feet dry. Boots will also protect your feet and ankles from scrapes and scratches.

**Clothing:** Make sure your clothing fits properly. If it's too small, it could keep you from moving easily when you shift your weight. If it's too big, it could hang down and get caught in a moving part. Wear long sleeves and long pants to protect your arms and legs.

### RULES TO REMEMBER

- Always attach the tether strap to your right wrist and to the ATV before riding.
- Make sure you know where you're going to drive before your ATV is started. Make sure the area is safe all around your ATV.
- Your ATV is made for one person. Never carry a passenger. A passenger will make the ATV harder to drive. You may lose control and hurt yourself and your passenger.
- Always drive your ATV while sitting down. Keep both hands on the handlebars and keep both feet on the footrests.

## YOUNG RIDERS SECTION

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- Always be alert and pay attention to where you're driving. Pay attention to other drivers, and be even more careful around them because you don't know what they're going to do.
- Never follow another ATV too closely. You need lots of time and space to stop your ATV.
- Never tow or pull an object behind the ATV.
- Never ride without supervision. An adult should always be watching you in case you need help. Always drive within the sight of an adult.
- Never ride on public trails.
- Don't ride your ATV on roads or over railroad tracks. Your ATV makes noise that will keep you from hearing cars, trucks or trains that may be coming towards you.
- Don't ride at night. Your ATV doesn't have lights that are safe for driving in the dark.
- Learn where there are lakes, rivers, ponds and ditches in your driving area. Stay away from them.
- Never ride on frozen water. You could get hurt or you could even die. All ice can be dangerous!
- Ride your ATV only where you know it is safe to drive and where you have permission to drive. Be careful of the things around you.
- Always be a polite driver. (Don't drive through the flower garden or over the little trees you planted!).
- Always do your best to help take care of nature.

## YOUNG RIDERS SECTION

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**Respect your ATV.**

**Respect your environment.**

**You will earn the respect of everyone.**

**Enjoy riding your new POLARIS ATV!**

# FEATURES AND CONTROLS

## SWITCHES / BUTTONS

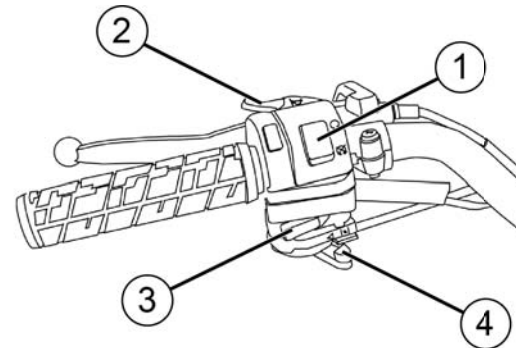
### MAIN KEY SWITCH

Turn the key clockwise to the ON position before starting the engine. To avoid draining the battery, always turn the key to the OFF position when the engine is not running. Always remove the ignition key when the vehicle is not in use.

### ENGINE STOP SWITCH

The engine will not start or run when the stop switch ① is down, in the OFF position. Its purpose is to provide the operator with a quick means of engine shutdown in case of stuck throttle or other emergency.

Both the main switch and the engine stop switch shut off all electrical power to the entire vehicle. To stop the engine quickly, push the stop switch down.



## FEATURES AND CONTROLS

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### **HORN BUTTON**

Use the horn ② for emergencies and to let others know you're near.

### **CHOKE LEVER**

Use the choke to start a cold engine. Push the choke lever ④ to the left before starting the engine. When the engine starts, gradually return the choke lever to the OFF position as the engine warms up and runs smoothly.

### **ENGINE START BUTTON**

The start button ③ is located on the left handlebar control.

Follow the Starting the Engine procedure beginning on page 80.



### THROTTLE CONTROLS

#### **WARNING**

Operating an ATV with sticking or improperly operating throttle controls could cause an accident and lead to severe injury or death.

Never start or operate an ATV with a sticking or improperly operating throttle. Always contact your dealer or other qualified person for service if throttle problems arise.

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.

The Electronic Throttle Control (ETC) stops the engine in the event of a throttle system malfunction. Modifications to the electronic throttle control could result in failure to perform as designed, which could result in an accident. Do not attempt to modify the ETC system or replace it with any after market throttle mechanism. Always ensure that the throttle cable is installed and properly routed to the throttle control.

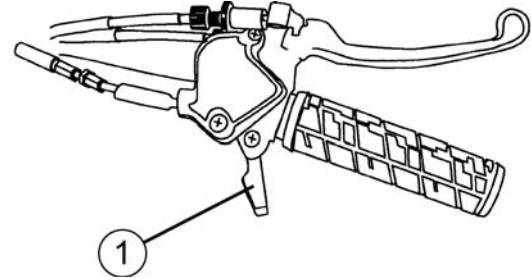
# FEATURES AND CONTROLS

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## THROTTLE LEVER

Press the throttle lever ① toward the handlebar to increase engine speed and vehicle movement. Engine speed returns to idle when the lever is released.

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



### NOTE

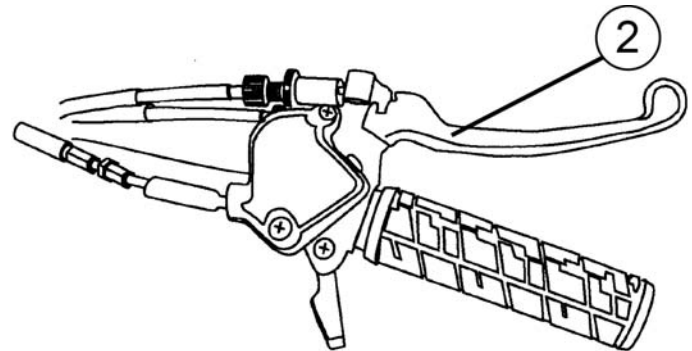
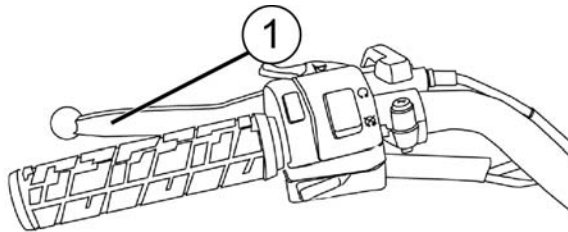
Idle RPM is preset by the manufacturer. If the engine idle speed is not satisfactory, please see your POLARIS dealer or other qualified service facility for adjustment.

### BRAKES

Squeeze both brake levers toward the handlebar at the same time to apply the brakes. The left lever controls the rear brakes ①. The right lever controls the front brakes ②.

#### **⚠ WARNING**

Applying only one brake could cause loss of control and result in serious injury or death. Always apply both brakes at the same time.

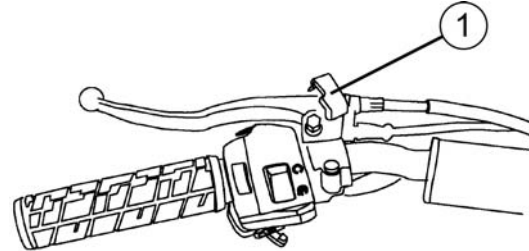


# FEATURES AND CONTROLS

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## PARKING BRAKE

1. Squeeze the left brake lever.
2. Push the parking brake lock ① down to lock the brake lever in place.
3. Release the brake lever.
4. To release the parking brake lock, squeeze and release the brake lever. The parking brake will release automatically.
5. Always lock the parking brake whenever the vehicle is left unattended.



The CVT system is always in forward gear. Using the throttle to warm the engine will cause the vehicle to move forward if the parking brake is not locked. Always lock the parking brake before starting the engine. Always lock the parking brake whenever the vehicle is left unattended.

### **WARNING**

Operating the ATV while the parking brake is engaged could cause an accident resulting in serious injury or death. It could also result in driveline or engine damage. Always be sure to disengage the parking brake before operating the ATV.

## FEATURES AND CONTROLS

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### LIGHTS

#### **WARNING**

POLARIS Youth ATVs are not equipped with lights that are designed for driving in the dark. Do not operate this ATV after dark. Use caution and drive at reduced speeds in conditions of reduced visibility. This ATV is designed for off-road use only. Do not operate this ATV on streets or highways.

### FUEL SYSTEM

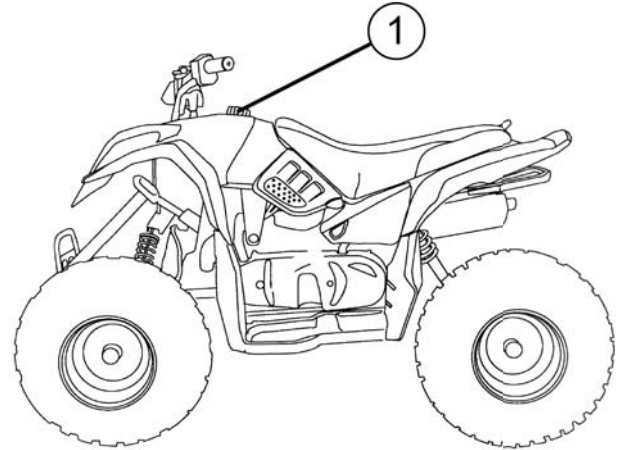
#### Gas Cap

The fuel tank filler cap ① is located directly below the handlebars.

Use POLARIS Carbon Clean fuel treatment at each fill. Follow the mixing directions on the container. See page 163 for the part numbers of POLARIS products. Use unleaded gasoline with a minimum pump octane number of 87=(R+ M/2) octane. Non-ethanol fuel is recommended.

*Do not use fuel with ethanol content greater than 10 percent, such as E-85 fuel.*

Refer to the specifications section beginning on page 157 for fuel tank capacity.



# FEATURES AND CONTROLS

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## FUEL VALVE

### Fuel Valve

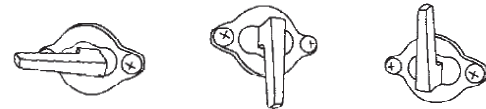
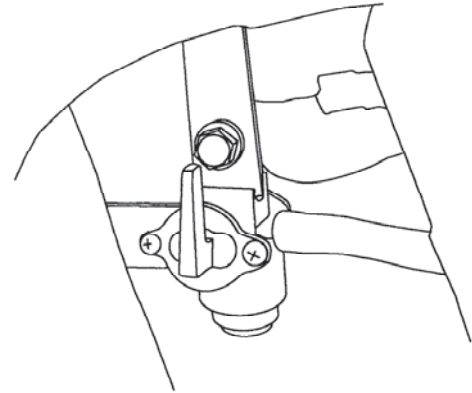
The fuel valve is located on the left side of the ATV. It has three settings.

OFF: For vehicle storage and when transporting.

ON: For normal operation.

RES: For reserve supply if main supply is exhausted.

The reserve setting allows operation for approximately 7-10 miles (11-16 km). Always refill the gas tank as soon as possible after using the main supply. Always return the valve to the ON position after refueling.



OFF

ON

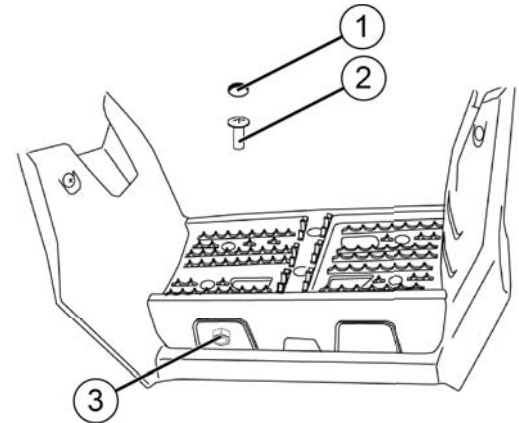
RES



### FOOTWELL RISER

The removable footwell risers improve riding ergonomics and provide comfort for shorter operators. An operator will also have better control of the ATV when both feet can remain firmly planted on either the footwells or the risers. If the operator's legs are long enough to comfortably reach the footwells without the risers, the risers can be removed.

1. Remove the rubber caps ① covering the screw access holes.
2. Remove the screws ② and nuts ③ securing the footwell riser to the footwell.
3. Remove the riser.
4. Reverse the procedure to reinstall the foot-well riser for shorter operators.



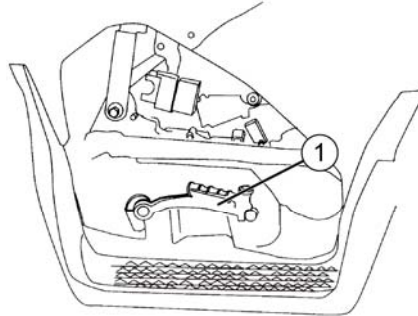
## FEATURES AND CONTROLS

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### KICK-START LEVER

If the battery becomes too weak to start the engine, use the kick-start lever to start the engine until the battery is serviced.

1. Position the vehicle on a level surface.
2. Lock the parking brake.
3. Fold out the kick-start lever ① on the left side of the vehicle.



4. Turn the fuel valve on.
5. Push the engine stop switch up to the ON position.

6. Turn the key to ON.
7. Place your foot on the kick-start, then thrust your heel downward to crank the engine.
8. After the engine has started, fold the kick-start lever back into place.
9. If the kick-start lever is not installed, remove the lever from the under-seat storage area.
10. Remove the plug from the kick-start access hole on the left side of the vehicle.

### TIP

Store the plug in a secure location. Always reinstall the access hole plug whenever the kick-start lever is removed from the vehicle.

11. Install the kick-start lever through the access hole.



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# OPERATION

 **WARNING**

Failure to operate the vehicle 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.

## VEHICLE BREAK-IN PERIOD

The break-in period for your new POLARIS vehicle is defined as the first ten hours of operation, or the time it takes to use the first two full tanks of gasoline.

No single action on your part is as important as a proper break-in period. Careful treatment of a new engine and drive components will result in more efficient performance and longer life for these components. Perform the following procedures carefully.

# OPERATION

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

1. Fill the fuel tank with gasoline. Always exercise extreme caution whenever handling gasoline. Never allow a child to handle gasoline.
2. Check the oil level. See page 112. Add the recommended oil as needed to maintain the oil level in the safe operating range.
3. Drive slowly at first. Select an open area that allows room to familiarize yourself with operation and handling.
4. Vary 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 77.
6. Perform the following maintenance at 10 hours or one month.

Item	At 10 Hours or One Month (End of Break-In Period)	Ref.
Engine Oil Change	Perform break-in oil change	page 113
Oil Pre-filter Screen	Clean filter with oil change	page 113
Transmission Oil	Perform break-in oil change	page 115
Drive Chain	Adjust and lubricate	page 135
Valve Clearance	See your dealer or other qualified person for inspection and adjustment	-

## PRE-RIDE INSPECTION

### CAUTION

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

## OPERATION

<b>Item</b>	<b>Remarks</b>	<b>Page</b>
Brake system/lever travel	Ensure proper operation	page 129
Front suspension	Inspect, lubricate if necessary	page 108
Rear suspension	Inspect, lubricate if necessary	page 108
Steering	Ensure free operation, lubricate if necessary	page 134
Tires	Inspect condition and pressure	page 37 page 141
Wheels/fasteners	Inspect, ensure fastener tightness; check that axle nuts are secured by cotter pins	page 141
Frame nuts, bolts, fasteners	Inspect, ensure tightness	-
Fuel and oil	Ensure proper levels	page 37 page 69



## OPERATION

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Grass and debris	Remove grass and debris from the vehicle, especially on the underside and near the exhaust system	-
Throttle	Ensure proper operation	page 54 page 63
Engine Stop Switch	Ensure proper operation	page 61
Air filter, pre-filter	Inspect and clean, or replace	page 138
Daytime running lights	Ensure proper operation	page 143
Brake light	Ensure proper operation	page 143
Drive Chain	Check condition and slack; refer to drive chain adjustment	page 135

## OPERATION

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Loose or Damaged components	Visually inspect for any damaged components or loose fasteners	-
Riding Gear	Wear helmet, goggles, protective clothing	page 34

## SAFE OPERATION PRACTICES

1. Complete the recommended safety training before operating this vehicle. See page 30.
2. Do not allow anyone under age 6 to operate the 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. Never allow a child to handle gasoline.
5. Operate this vehicle off-road only. Never operate the vehicle on pavement or on any public street, road or highway, including dirt and gravel roads.
6. 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 and loads on the racks (if equipped). The combined weight of these items must not exceed the maximum weight capacity.

7. 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.
8. Never consume alcohol or drugs before or while operating this vehicle.
9. Always use the size and type of tires specified for your vehicle. Always maintain proper tire pressure.
10. Never operate a damaged vehicle. After any rollover or accident, have a qualified service dealer inspect the entire machine for possible damage.
11. Never operate the vehicle on a frozen body of water.
12. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.
13. Always remove the ignition key when the vehicle is not in use to prevent unauthorized use.

## OPERATION

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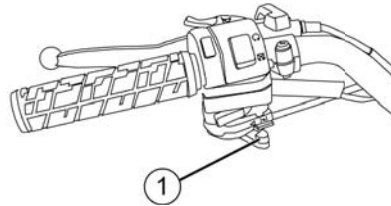
### STARTING THE ENGINE

#### NOTICE

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

1. Lock the parking brake.
2. Turn the fuel valve on.
3. Sit on the vehicle. Attach the tether strap to the ATV and to your wrist.

4. If the engine is cold, use full choke by pushing the choke lever ① all the way to the left. Do not use the choke when starting a warm engine.



### TIP

The choke is fully on when the lever is pushed completely to the left. The choke is off when the lever is pushed completely to the right. The choke can be adjusted gradually, depending on how much choke is needed for starting.

5. Push the engine stop switch up to the ON position.
6. Turn the ignition key to ON.

## OPERATION

---

7. Squeeze the rear brake lever and press the start button. The rear brake lever must be engaged or the engine won't start.
8. Do not press the throttle while starting the engine. Activate the starter for a maximum of five seconds, releasing the button when the engine starts. If it doesn't start, release the starter, wait five seconds, then activate for another five seconds. Repeat until the engine starts.
9. If the engine slows or stops, position the choke lever half way to allow proper engine warm up. Vary the RPM slightly with the throttle to aid in warm up.
10. When the engine idles smoothly, push the choke lever completely to the right.

## STOPPING THE ENGINE

1. Release the throttle completely.
2. Apply the brakes until the vehicle stops moving.
3. Shift the transmission to neutral.
4. Stop the engine. There are three ways to stop the engine:
  - Turn the key off.
  - Push the engine stop switch down.
  - Pull the tether strap off the ATV.

5. Lock the parking brake.
6. To avoid draining the battery, always turn the key to the OFF position when the engine is not running.

### **DRIVING PROCEDURE**

1. Sit upright with both feet on the footrests and both hands on the handlebars.
2. Lock the parking brake.
3. Start the engine and allow it to warm up.
4. Check your surroundings and determine your path of travel.
5. Slowly squeeze and release the left brake lever to unlock the parking brake.
6. Slowly press the throttle with your right thumb and begin driving.
7. Drive slowly at first. Practice turning and using the throttle and brakes on level surfaces.

## OPERATION

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### **MAKING TURNS**

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.

Practice making turns at slow speeds.

### **WARNING**

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

### **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. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns, which can cause skids.
4. Never apply the brakes during a skid. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.

### **DRIVING UPHILL**

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

1. Drive straight uphill.
2. Avoid steep hills (15° 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 body weight uphill.

## OPERATION

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7. Proceed at a steady rate of speed and throttle opening. Opening the throttle suddenly could cause the ATV to flip over backwards.
8. Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.
9. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.

### **DRIVING ON A SIDEHILL (SIDEHILLING)**

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

If crossing a sidehill is unavoidable, follow these precautions:

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

## **DRIVING DOWNHILL**

When driving downhill, follow these precautions:

1. Avoid steep hills (15° maximum).
2. Shift body weight uphill. Transfer your weight to the rear of the vehicle.
3. Drive straight downhill.
4. Slow down. Excessive speed when traveling downhill can cause loss of control.
5. Apply the front and rear brakes at the same time, and very slightly, to aid in slowing.

## **TURNING AROUND ON A HILL**

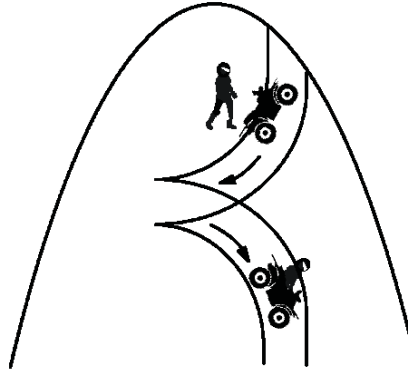
If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-turn to turn around.

1. Stop the vehicle and lock the parking brake while keeping body weight uphill.
2. Shut off the engine.

## OPERATION

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3. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.



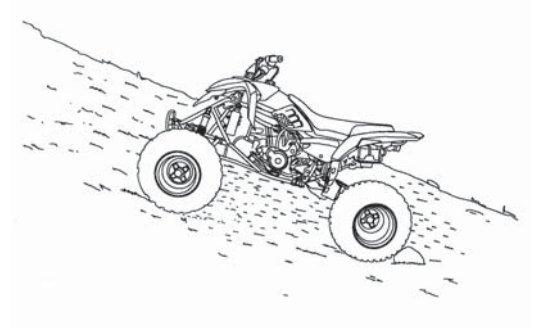
4. Staying uphill of the ATV, turn the handlebars full left.
5. While holding the brake, release the parking brake lock and slowly release the brake, allowing the ATV to roll around to your right until it's pointing across the hill or slightly downward.
6. Lock the parking brake and remount the ATV from the uphill side, keeping body weight uphill.
7. Restart the engine.

8. Squeeze the rear brake lever.
9. Release the parking brake and drive slowly, controlling speed with the rear brake, until the ATV is on more level ground.

## **PARKING ON A HILL OR INCLINE**

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

1. Stop the engine.
2. Lock the parking brake.
3. Always block the rear wheels on the downhill side as shown in the illustration.
4. Turn the fuel valve off.



## OPERATION

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### **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 THROUGH WATER

Your ATV can safely operate through shallow water. The recommended maximum depth for your ATV is below the bottom of the footrests. Follow these precautions when operating through water:

1. Determine water depth and current before entering water.
2. If crossing a stream, choose a crossing where both banks have gradual inclines.
3. Avoid operating through deep or fast-flowing water.
4. After driving through water, dry the brakes by applying light pressure to the levers (while moving) until braking action is normal. If you do not perform this procedure, your brakes may be ineffective.



## OPERATION

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### NOTICE

Serious engine damage can result if the vehicle is not thoroughly inspected after operating in water deeper than the footrest level. As soon as possible, perform the inspections and maintenance services outlined in the periodic maintenance chart beginning on page 99. Engine oil, gearcase oil and all grease fittings need special attention.

If the vehicle tips or overturns in water, or if the engine stops during or after operating in water, service is required before starting the engine. Your POLARIS dealer can provide this service. If it's impossible to bring the vehicle in before starting the engine, perform the service outlined on page 120, and take the vehicle in for service at the first opportunity.



### **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/).

## EMISSION CONTROL SYSTEMS

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### **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**

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

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

The emissions label is located on the right front frame support.

The installation of devices that effectively increase exhaust emissions beyond their legal limits will void all manufacturer warranties and may violate laws governing the registration and operation of this 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.

## EMISSION CONTROL SYSTEMS

---

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

To help you perform routine maintenance, a tool kit ① is provided in the storage compartment under the seat.

Maintenance intervals in the following charts 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. Record maintenance and service in the Maintenance Log beginning on page 191.

Any qualified repair shop or person may maintain, replace or repair the emission control devices or systems on your vehicle. An authorized POLARIS dealer can perform any service that may be necessary for your vehicle. POLARIS also recommends POLARIS parts for emissions-related service, however equivalent parts can be used.

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.

Owners are responsible for performing the scheduled maintenance identified in this owner's manual.

# MAINTENANCE

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Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, genuine POLARIS parts are available from your POLARIS dealer. Equivalent parts may be used for emissions-related service.

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

## **SEVERE USE DEFINITION**

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

- Extended idle

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. Your POLARIS dealer can assist.

## MAINTENANCE CHART KEY

SYMBOL	DESCRIPTION
▶	Perform these procedures more often for vehicles subjected to severe use.
D	Have an authorized Polaris dealer or other qualified person perform these services.

# MAINTENANCE

## 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 or other qualified person perform these services.

Perform all services at whichever maintenance interval is reached first. Record maintenance and service in the Maintenance Log.

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
	HOURS	CALEN- DAR	MILES (KM)		
Steering		Daily		Check each day before driving the vehicle. Make adjustments as needed. See the Pre-Ride Checklist.	page 77
Front Suspension					
Rear Suspension					
Tires					
Brake Lever Travel					



# MAINTENANCE

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
	HOURS	CALEN- DAR	MILES (KM)		
Brake System					
Wheels / Fasteners					
Frame Fasteners					
Engine Oil Level					
Fuel Tank	-	Daily	-	Add Carbon Clean with each fuel fill.	page 69
Air Filter, pre-filter, & main element	-	Daily	-	Inspect; clean often; replace as needed	page 138
Air box sediment tube	-	Daily	-	Drain deposits when visible	-
Daytime running lights/taillight	-	Daily	-	Check operation; apply dielectric grease if replacing	page 143
Drive Chain	-	Daily	-	Inspect daily, adjust as needed, check often if driving in wet conditions.	page 135
CVT Housing (if equipped)	-	Weekly	-	Drain water as needed, check often if driving in wet conditions.	page 122

# MAINTENANCE

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
	HOURS	CALEN- DAR	MILES (KM)		
Break-in Maintenance	After first 10 hours of operation			Perform break-in maintenance	page 75
Fuel System	10	1 Month	100 (160)	Turn the fuel valve on. Check for leaks at tank cap, lines, fuel valve, filter, and carburetor.	-
▶ D Brake lever travel / brake freeplay	10	Monthly	100 (160)	Inspect periodically	page 129
Spark Plug	10	Monthly	100 (160)	Clean; check condition; adjust gap; replace as needed	page 117
D Choke	10	Monthly	100 (160)	Check for proper operation; see your dealer for adjustments	page 62
Idle Speed	10	Monthly	100 (160)	Check; adjust as needed	page 126
Battery	20	Monthly	200 (320)	Check terminals; clean; test	page 146
▶ Engine Oil Change	30	6 M	300 (480)	Change the oil and filter	page 113

# MAINTENANCE

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
	HOURS	CALEN- DAR	MILES (KM)		
▶ Transmission oil	40	12 M	400 (640)	Drain and change the oil	page 115
▶ Oil pre-filter screen	40	12 M	400 (640)	Clean filter at every oil change; clean annually if ATV is operated less than 10 hours	page 113
▶ General Lubrication	50	3 M	500 (800)	Lubricate all fittings, pivots, cables, etc.	-
D Valve clearance	50	3 M	500 (800)	Check clearance; see your dealer for adjustments	-
D Throttle cable/ ETC switch	50	6 M	500 (800)	Inspect, adjust, lubricate; replace if necessary	-
D Choke Cable	50	6 M	500 (800)	Inspect; adjust; lubricate; replace if necessary	-
Carburetor air intake ducts/ flange	50	6 M	500 (800)	Inspect for proper sealing/air leaks	-

# MAINTENANCE

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
		HOURS	CALEN- DAR	MILES (KM)		
D	Drive belt	50	6 M	500 (800)	See your POLARIS dealer	-
▶D	Brake pad wear	50	6 M	500 (800)	See your POLARIS dealer	-
D	Fuel System	100	12 M	600 (1000)	Turn the fuel valve on. Check for leaks at tank cap, lines, fuel valve, filter, and carburetor; replace lines every two years	-
D	Fuel Filter	100	12 M	1000 (1600)	Change Filter	page 115
▶	Engine Mounts	100	12 M	1000 (1600)	Inspect	-
	Exhaust muffler/ pipe	100	12 M	1000 (1600)	Inspect	-
D	Ignition Timing	100	12 M	1000 (1600)	Inspect	-

# MAINTENANCE

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS	REF.
	HOURS	CALEN- DAR	MILES (KM)		
▶ Wiring	100	12 M	1000 (1600)	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.	-
D Clutches (Drive/ Driven)	100	12 M	1000 (1600)	Inspect; clean; replace worn parts	-
D Front Wheel Bearings	100	12 M	1000 (1600)	Inspect; replace as needed	-
Spark Arrester	300	36 M	3000 (4800)	Clean out	page 124
D Toe Adjustment	-			Inspect periodically; adjust as needed	page 133

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

D Have an authorized Polaris dealer or other qualified person perform these services.

# MAINTENANCE

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## LUBRICATION RECOMMENDATIONS

ITEM	LUBE	METHOD
Engine Oil	PS-4 10W-50 4-Cycle Oil	See page 111
Transmission Oil (Main Gearcase)	AGL Gearcase Lubricant & Transmission Fluid	See page 115

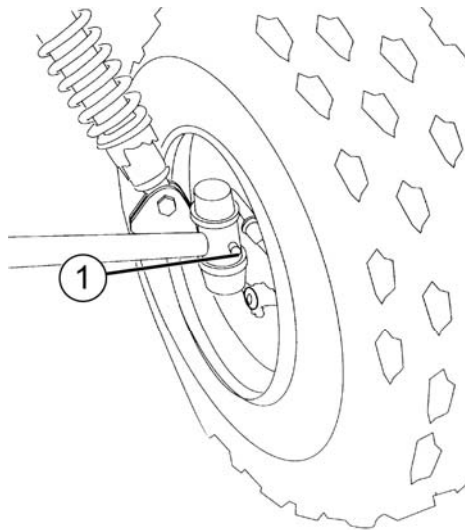
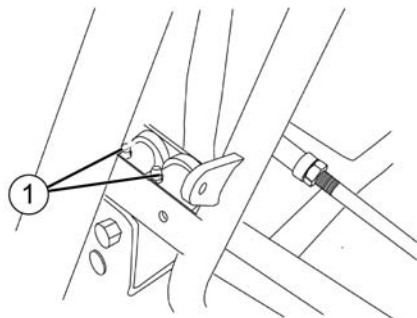
# MAINTENANCE

ITEM	LUBE	METHOD
Drive Chain	POLARIS Chain Lube or SAE 80/90	See page 135
Front Suspension (A-Arm Pivots)	POLARIS All Season Grease or grease conforming to NLGI No. 2	Inspect; tighten fasteners; grease (also after washing ATV or driving in water).

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

# MAINTENANCE

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① Grease Points



## ENGINE OIL

### OIL RECOMMENDATIONS

Always check and change the engine oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 99. POLARIS recommends the use of POLARIS PS-4 Extreme Duty 10W-50 4-Cycle Oil for this vehicle. Oil may need to be changed more frequently if POLARIS oil is not used. Do not use automotive oil. See page 163 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.

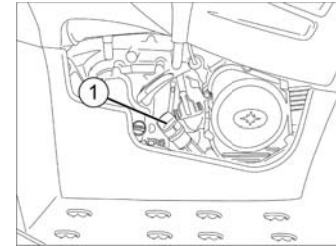
# MAINTENANCE

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## OIL CHECK

Maintain the oil level within the safe range on the dipstick. Do not overfill.

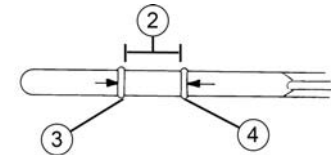
1. Position the vehicle on a level surface.
2. Remove the dipstick ①. Wipe it dry with a clean cloth.
3. Reinstall the dipstick completely.
4. Remove the dipstick and check the oil level.



### TIP

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.

5. Add the recommended oil as needed.
6. Reinstall the dipstick.



- ② Safe Range
- ③ Add Oil
- ④ Full

## OIL CHANGE

1. Position the vehicle on a level surface. Set the parking brake.
2. Clean the area around the pre-filter plug.
3. Start the engine. Allow it to idle for two to three minutes.
4. Stop the engine.

### **WARNING**

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

5. Place a drain pan under the engine crankcase.
6. Remove the pre-filter plug. Allow the oil to drain completely.
7. Wash the oil pre-filter screen with solvent to remove debris. Allow the screen to air dry.
8. Clean the pre-filter plug. Install a new sealing washer on the plug. The sealing surfaces on the plug and crankcase should be clean and free of burrs, nicks or scratches.
9. Reassemble the pre-filter screen and spring to the pre-filter plug.

## MAINTENANCE

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10. Reinstall the pre-filter drain plug. Torque to 11 ft. lbs. (15 Nm).
11. Remove the dipstick. Add 29 oz. (850 ml) of the recommended oil. Do not overfill. See the specifications section beginning on page 157 for capacities.
12. Reinstall the dipstick.
13. Start the engine. Allow it to idle for one to two minutes.
14. Stop the engine and inspect for leaks.
15. Check the oil level. Add oil as needed to bring the level to the upper mark on the dipstick.
16. Dispose of used oil properly.

### **FUEL FILTER**

The POLARIS ATV is equipped with an in-line fuel filter. This filter should be replaced by your dealer or other qualified person at the intervals recommended in the Periodic Maintenance Chart beginning on page 99. Do not attempt to clean the fuel filter.

### **TRANSMISSION (MAIN GEARCASE)**

Always check and change the fluid at the intervals outlined in the Periodic Maintenance Chart beginning on page 99. POLARIS recommends the use of AGL Gearcase Lubricant & Transmission Fluid for this vehicle.

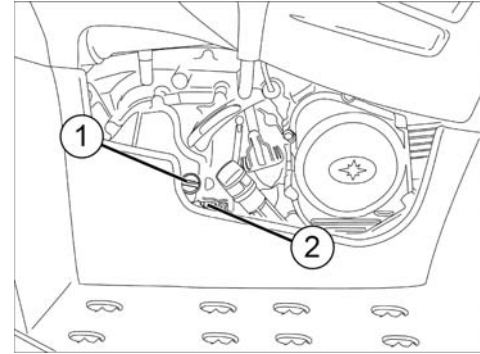
# MAINTENANCE

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## FLUID CHECK

The fill plug ① is located on the rear of the gearcase. The drain plug ② is located on the bottom of the gearcase. Access the fill plug through the left rear wheel well. Maintain the fluid level at the bottom of the fill plug hole threads.

1. Position the vehicle on a level surface.
2. Remove the fill plug.
3. View the oil level through the fill hole.
4. Add the recommended fluid as needed.
5. Reinstall the fill plug.



## FLUID CHANGE

1. Position the vehicle on a level surface.
2. Remove the fill plug.
3. Place a drain pan under the drain plug.

4. Remove the drain plug. Allow the fluid to drain completely.
5. Clean the drain plug.
6. Reinstall the drain plug with a new o-ring. Torque to 14 ft. lbs. (19 Nm).
7. Add the recommended oil. Maintain the oil level at the bottom of the fill plug hole threads.
8. Reinstall the fill plug.
9. Check for leaks.
10. Discard used fluid properly.

<b>Gearcase Capacity</b>	
Outlaw 50	11.8 oz. (350 ml)

## **SPARK PLUGS**

### **SPARK PLUG GAP/TORQUE**

Refer to the specifications section beginning on page 157 for spark plug and gap specifications.

## MAINTENANCE

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### NOTICE

Spark plug condition is indicative of engine operation. The spark plug firing end condition should be read after the engine is warmed up and the vehicle is driven at higher speeds. Immediately check the spark plug for correct color. Using non-recommended spark plugs can result in serious engine damage. Always use POLARIS-recommended spark plugs or their equivalent.

### WARNING

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

## SPARK PLUG CONDITION

### Normal Plug

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



### TIP

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

### **Wet Fouled Plug**

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

### **SPARK PLUG REMOVAL AND REPLACEMENT**

1. Remove the spark plug cap.
2. Using the spark plug wrench provided in the tool kit, remove the plug by rotating it counter-clockwise.
3. Reverse the procedure for spark plug installation. Torque to 14 ft. lbs. (19 Nm).

## MAINTENANCE

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### CYLINDER HEAD TORQUE

Have your dealer or other qualified person check the ATV cylinder head for proper torque at first service — or after 25 hours.

### VEHICLE IMMERSION

#### NOTICE

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle in for service before starting the engine. Your POLARIS dealer can provide this service.

If it's impossible to take your vehicle to a dealer before starting it, follow the steps outlined below. This procedure will allow for *short-term operation only* to drive the ATV to a trailer or towing vehicle.

1. Move the vehicle to dry land or, at minimum, to water below the footrests.
2. Turn the fuel valve off.
3. Check the air box for any water and dry if water is present.
4. Remove the spark plug.

5. Loosen the carburetor drain screw.
6. Turn the engine over several times using the electric start.
7. Dry the spark plug and reinstall it, or install a new plug.
8. Tighten the carburetor drain screw.
9. Turn the fuel valve on.
10. Attempt to start the engine. If necessary, repeat the drying procedure.
11. Take the vehicle in for service as soon as possible, whether you succeed in starting it or not. Your POLARIS dealer can provide the required service.
12. If water has been ingested into the transmission follow the procedure on page 122 for drying the CVT.

# CONSTANT VARIABLE TRANSMISSION (CVT) 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 CVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The CVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

- Always follow all recommended maintenance procedures. See your POLARIS dealer, or other qualified person, for service and repair assistance.
- This CVT system is intended for use on POLARIS products only. Do not install it in any other product.
- Always make sure the CVT housing is securely in place during operation.

## CVT DRYING

There may be some instances when water is accidentally ingested into the CVT system. Use the following instructions to dry it out before operating. The drain plug is located on the bottom of the CVT cover.

1. Remove the drain plug. Allow the water to drain. Reinstall the drain plug.
2. Elevate the rear of the vehicle.
3. Start the engine. 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.
4. Allow the engine RPM to settle to idle speed.
5. Test for belt slippage. If the belt slips, repeat the process.
6. Your vehicle requires service as soon as possible. Your POLARIS dealer can assist.

### NOTICE

Exposure to salt water will cause corrosion to metal components. If your vehicle is operated in salt water areas, rinse it off frequently with fresh water.

## MAINTENANCE

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### SPARK ARRESTER

#### **WARNING**

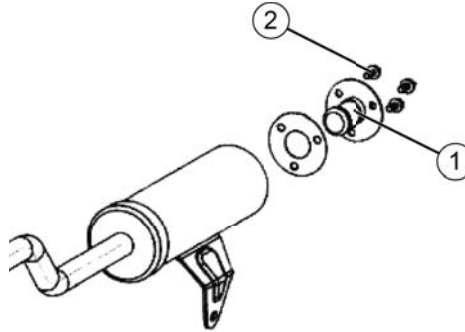
Failure to heed the following warnings while servicing the spark arrester could result in serious injury or death.

- Do not perform service on the spark arrester while the system is hot. Allow components to cool sufficiently before proceeding.
- Wear eye protection and gloves.
- Never operate without the spark arrester.
- Never run the engine in an enclosed area. Exhaust contains poisonous carbon monoxide gas.

To remove accumulated carbon, clean the spark arrester at the intervals recommended in the Periodic Maintenance Chart beginning on page 99.

1. Remove the three bolts  and remove the arrester from the end of the muffler.

2. Use a non-synthetic brush to clean the arrester screen ①. A synthetic brush may melt if components are warm. If necessary, blow debris from the screen with compressed air.



3. Inspect the screen for wear and damage. Replace the arrester if damage is found.
4. Reinstall the arrester.
5. Torque the bolts to 7 ft. lbs. (9.5 Nm).

## MAINTENANCE

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### CARBURETOR

Your POLARIS ATV is calibrated at the factory for optimal performance at altitudes ranging from zero to 8,000 feet (2400 m) and temperatures above 15° F (-9° C). Refer to the specifications section beginning on page 156 for carburetor and jetting specifications.

Any jetting changes must be made only by an authorized POLARIS dealer or other qualified service facility. Your POLARIS dealer can assist.

If engine idle speed is too high the vehicle will creep. If idle speed is too low the engine will stall. To adjust idle speed, do the following:

1. Lock the parking brake.
2. Start the engine.
3. Allow the engine to warm up for approximately five minutes.
4. Adjust the carburetor idle screw either in or out until the desired idle speed is reached. Turning the screw in (clockwise) will increase idle speed. Turning the screw out (counter-clockwise) will decrease idle speed.

#### TIP

If using an RPM gauge, the factory idle speed setting for 50cc models is 1500 +/- 100 RPM.



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## SPEED CONTROL AND THROTTLE SYSTEM

### NOTICE

Per ANSI / SVIA-1-2010 (sec. 6.2) AS DELIVERED TO THE CONSUMER, the speed of youth models is restricted to 10 MPH or less for the Y-6+ models and 15 MPH or less for the Y-10+ models.

*The dealer CANNOT, under any circumstances, either prior to the sale or later, even at the consumer's request, remove or adjust any speed limiting devices.*

This vehicle has an adjustable speed control system that controls engine RPM and speed of the vehicle. The speed limiting device may be adjusted by supervising adults when they determine that their child is capable of safely handling additional speed.

Per ANSI / SVIA-1-2010 (sec. 6.1) the unrestricted top speed is 15 MPH or less for the Y-6+ models and 30 MPH or less for the Y-10+ models.

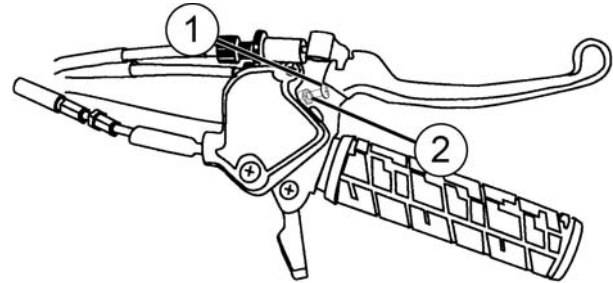
# MAINTENANCE

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## THROTTLE STOP / SPEED CONTROL SYSTEM

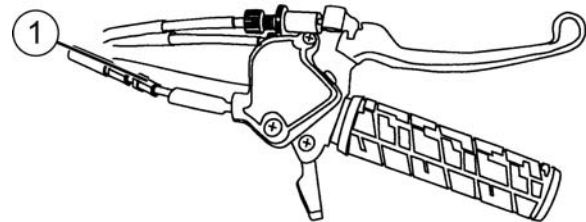
Use the following procedure to control how far the throttle opens.

1. Loosen the jam nut ②.
2. Turn the screw ① inward to reduce speed or outward to increase speed.
3. Tighten the jam nut after adjusting.



## THROTTLE CABLE ADJUSTMENT

Always check the throttle for smooth operation before riding. Periodically check the throttle freeplay. It should be kept between 1/16" and 1/8" (1.5 - 3.2 mm). If adjustment is required, turn the adjustment nut ① until the freeplay falls in to the acceptable limit.



## BRAKE FREEPLAY

Check (measure) the freeplay of the front and rear brakes at the intervals recommended in the Periodic Maintenance Chart beginning on page 99. If the freeplay isn't at specification, adjust the freeplay as outlined on the following pages.

Brake Freeplay Specifications	
Front Brake	Rear Brake
.08"-.12" (2-3 mm)	.08"-.12" (2-3 mm)

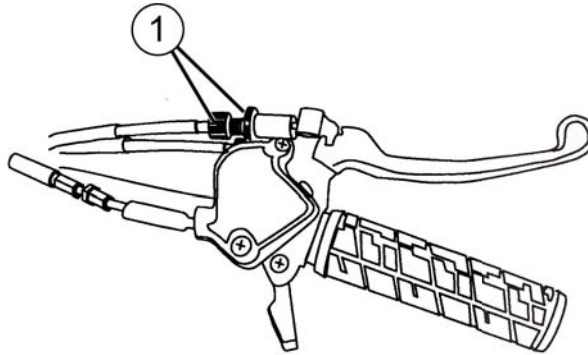
## FRONT BRAKE ADJUSTMENT

1. Position the vehicle on a level surface.
2. Elevate the front of the vehicle by placing a suitable stand under the frame. The front tires should be slightly off the ground.
3. While rotating the *left* front wheel, tighten the *upper* front brake adjuster nut ① on the right-hand control.
4. When you begin to feel a slight drag in wheel rotation, loosen the adjuster nut one full turn.

# MAINTENANCE

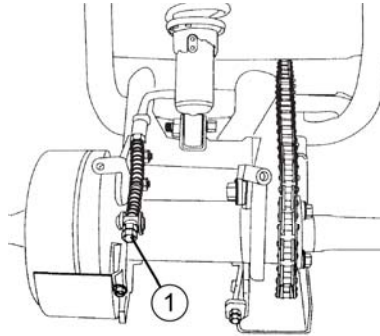
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5. While rotating the *right* front wheel, tighten the *lower* front brake adjuster nut ① on the right-hand control.
6. When you begin to feel a slight drag in wheel rotation, loosen the adjuster nut one full turn.
7. Verify that the right-hand brake functions correctly.
8. Verify that brake lever freeplay is at specification.
9. Carefully lower the vehicle to the ground.



## REAR BRAKE ADJUSTMENT

1. Position the vehicle on a level surface.
2. Elevate the rear of the vehicle by placing a suitable stand under the frame. The rear tires should be slightly off the ground.
3. While rotating the rear wheels, tighten the rear brake wing nut ① at the rear brake drum.



4. When you begin to feel a slight drag in wheel rotation, loosen the wing nut one full turn.
5. Verify that the left hand brake functions correctly.

# MAINTENANCE

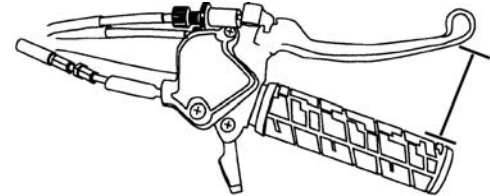
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6. Verify that brake lever freeplay is at specification.
7. Carefully lower the vehicle to the ground.

## BRAKE LEVER TRAVEL

Check brake lever travel at the intervals recommended in the Periodic Maintenance Chart beginning on page 99. When freeplay specifications can no longer be obtained through adjustment as outlined on the preceding pages, use the following information to determine when to service the brakes.

Service the brakes when brake lever travel reaches the total lever travel measurement listed in the table below. Always service the brakes when there is no longer sufficient stopping ability at the specified lever travel setting.



Component	Total Lever Travel
Front Brake Lever	1 3/4" (45 mm)
Rear Brake Lever	2 1/2" (65 mm)

## TOE ALIGNMENT

Recommended toe alignment is 1/8" to 1/4" (3-6 mm) toe out. Check using the procedure below.

### **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 or other qualified service facility.

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. Position the stands so that the string is flush with the side of the rear tire. If available, you may use a long straightedge 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

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### STEERING INSPECTION

Check the steering assembly periodically for loose nuts and bolts. If loose nuts and bolts are found, see your POLARIS dealer or other qualified service facility before operating the vehicle.

### CAMBER AND CASTER

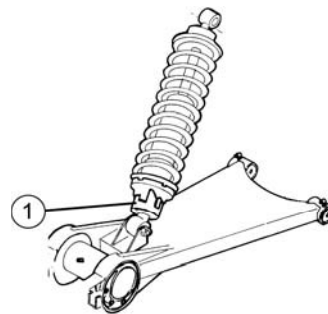
The camber and caster are non-adjustable.

### SHOCK SPRING ADJUSTMENT

#### **⚠ WARNING**

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

The front and rear shock absorber springs are adjustable to increase or decrease spring tension. Rotate the adjuster ① either clockwise or counter-clockwise to make adjustments.





## DRIVE CHAIN

### DRIVE CHAIN LUBRICATION

Lubricate the drive chain with POLARIS chain spray lube or an approved chain lube at the general lubrication interval specified in the Periodic Maintenance Chart beginning on page 99. Lubricate more often under severe use, such as in dirty or wet conditions. See page 163 for the part numbers of POLARIS products.

#### NOTICE

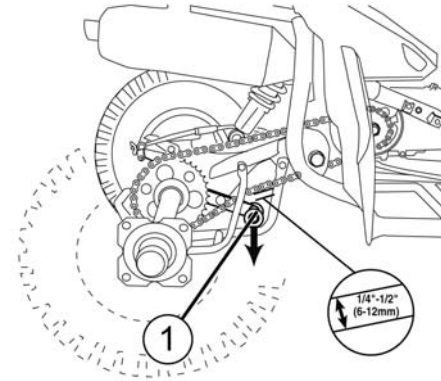
Washing the drive chain with a high pressure washer or gasoline can cause premature wear and drive chain failure. Don't use a high pressure washer or gasoline to clean the drive chain.  
Adjusting or operating the vehicle with improper rear drive chain slack can result in severe damage to the transmission and drive components. Always make sure the slack is within the stated specifications.

# MAINTENANCE

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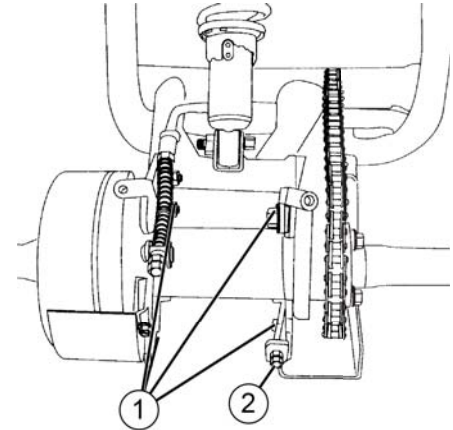
## DRIVE CHAIN SLACK

1. Check the amount of chain slack by moving the vehicle slightly forward to gain slack at the top side of the chain.
2. Pull down on the chain tensioner ① to move it out of the way, then measure chain slack. It should have 1/4"-1/2" (6-12 mm) deflection.



## DRIVE CHAIN SLACK ADJUSTMENT

1. Loosen the four rear housing mount bolts ①.
2. Loosen the chain adjuster lock nut.
3. Turn the chain adjuster ② clockwise to 1/4"-1/2" (6-12 mm) deflection.
4. Tighten the chain adjuster lock nuts to 18 ft. lbs. (25 Nm). Hold the adjuster stud securely while tightening the nut to avoid breaking the stud.
5. Tighten the four rear housing mount bolts to 43 ft. lbs. (60 Nm).

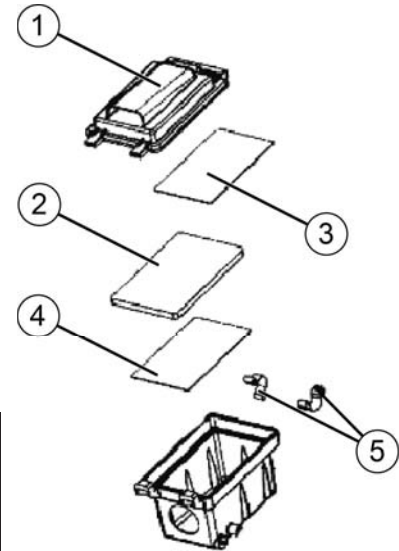


# MAINTENANCE

## AIR FILTER

Always change the air filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 99.

1. Remove the seat.
2. Release the air box cover spring clips ⑤ and remove the cover ①, gasket ③, and support screen ④.
3. Remove the foam air filter ②. Wash the foam filter in warm soapy water, then rinse and let dry. If the filter is damaged, install a new foam filter.
4. Apply a commercially available foam filter lubricant to the foam filter.
5. Clean away any oil or sediments in the air box.
6. Reinstall the filter and air box cover. Secure the clips.
7. Reinstall the seat.



### NOTICE

Never operate the vehicle with the filter element removed. Dirt will enter the engine, causing rapid wear and severe damage to the engine.

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## HANDLEBAR ADJUSTMENT

 **WARNING**

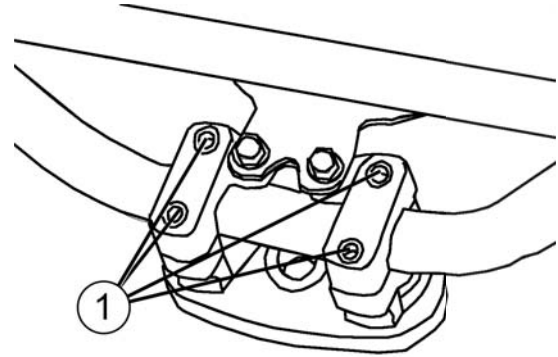
Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and possible serious personal injury or death. Follow the adjustment procedures exactly, or see your POLARIS dealer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

# MAINTENANCE

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The handlebars can be adjusted for rider preference.

1. Remove the pod to access the handlebar bolts ①. Loosen the four bolts.
2. Adjust the handlebar to the desired height. Be sure the handlebars do not hit the gas tank or any other part of the vehicle when turned fully to the left or right.
3. Lightly tighten each bolt equally to prevent uneven gaps in the block. Torque the bolts to 7.3 ft. lbs. (10 Nm).



## TIRES

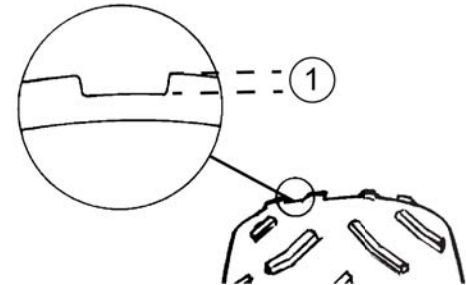
### **⚠ WARNING**

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.

### TIRE TREAD DEPTH

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

① or less.

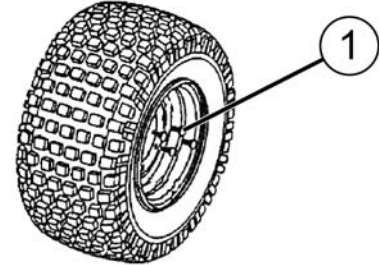


# MAINTENANCE

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## WHEEL REMOVAL

1. Stop the engine and lock the parking brake.
2. Loosen the wheel bolts slightly.
3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
4. Remove the wheel bolts and remove the



## WHEEL INSTALLATION

1. Lock the parking brake.
2. Place the wheel in the correct position on the wheel hub. Be sure the valve stem is
3. toward the outside and rotation arrows on the tire point toward forward rotation.
4. Install the wheel bolts and finger tighten them.
5. Lower the vehicle to the ground.



6. Securely tighten the bolts to 22 ft. lbs. (30 Nm).

### **WHEEL HUB TIGHTENING**

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

### **AXLE AND WHEEL NUTS**

Do not service axle nuts that have a cotter pin installed. Your POLARIS dealer can assist.

## **LIGHTS**

### **DAYTIME RUNNING LIGHTS LAMP REPLACEMENT**

If the daytime running lights do not operate, replace the lamps. POLARIS recommends that you install replacement lamps obtained from your authorized POLARIS dealer.

1. Remove the front cover.
2. Disconnect the lights from the harness.
3. Remove the rubber cover from the back of the light assembly.
4. Press the lamp retainer inward and turn it counter-clockwise to remove it. Note position of the lamp positioning tab, then carefully pull the lamp out.the

## MAINTENANCE

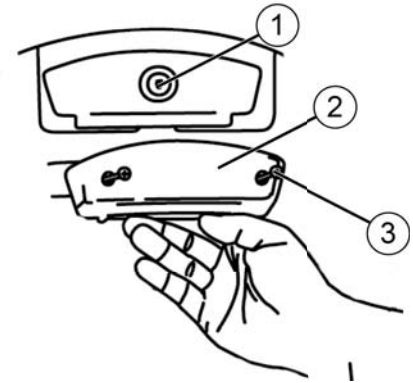
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5. Install the new lamp. Make sure the filament is horizontal.
6. Reinstall the lamp retainer. Press the retainer inward and turn it clockwise about 1/4 turn.
7. Start the engine to make sure the lights come on. If the lights do not operate, see your POLARIS dealer for service.
8. Reinstall the rubber cover, and reconnect the lights to the harness.
9. Reinstall the front cover.

## TAIL LIGHT LAMP REPLACEMENT

If the brake light doesn't work, the lamp ① may need to be replaced.

1. Remove the two screws ③ securing the lens cover. Remove the lens cover ②.
2. Remove the lamp and replace it with a new recommended lamp.
3. Test the light for proper operation.
4. Reinstall the lens cover.



## MAINTENANCE

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### BATTERY

#### **WARNING**

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

The battery in your POLARIS ATV is a sealed battery. The sealing strip cannot be removed. Never add water to this type of battery.

Keep the battery terminals and connections free of corrosion. If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean shop towels. Coat the terminals with dielectric grease or petroleum jelly to reduce oxidation and excessive power consumption.

## BATTERY REMOVAL

1. Remove the three bolts ① securing the battery mounting bracket to the vehicle.
2. Remove the mounting bracket and battery.
3. Disconnect the black (negative) battery cable first. Disconnect the red (positive) battery cable last.
4. Remove the battery terminal covers.
5. Loosen the two nuts securing the battery plate to the top of the battery. Remove the plate.
6. Lift the battery out of the mounting bracket.



## BATTERY INSTALLATION AND CONNECTIONS

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

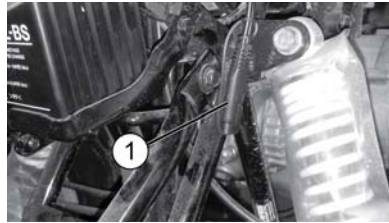
# MAINTENANCE

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1. Place the fully charged battery in the mounting bracket. Reinstall the battery plate and tighten the two nuts securely to retain the battery in the mounting bracket.
2. Coat the terminals with dielectric grease or petroleum jelly.
3. Install the terminal covers over the positive and negative battery terminals.
4. Connect and tighten the red (+) cable first. Connect and tighten the black (-) cable last. Torque the battery terminal bolts to 3.5 ft. lbs. (4.7 Nm).
5. Install the mounting bracket with battery to the vehicle. Tighten the three bolts.
6. Verify that battery cables are properly routed.

## BATTERY CHARGING PORT

Use a .5 amp battery charger to recharge the battery. The ATV is equipped with a charging port for charging without removing the battery from the vehicle.



## BATTERY CLEANING

Keeping your ATV 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.

## CLEANING

### WASHING THE VEHICLE

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

1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
2. Rinse with clean water frequently.

# MAINTENANCE

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3. Dry surfaces with a chamois to prevent water spots.

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and decals. Avoid directing the water stream at the following items:

- Wheel bearings
- Radiator
- Transmission seals
- Brakes
- Cab and body panels
- Labels and decals

If warning and safety labels are damaged, contact your POLARIS dealer for free replacement.

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.

## **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.

### **POLISHING**

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

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

### **STORAGE**

#### **EXTERIOR**

Make necessary repairs and clean the vehicle as recommended. See page 147.

#### **BATTERY STORAGE**

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.

# MAINTENANCE

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## **STABILIZE THE FUEL**

POLARIS Carbon Clean is a fuel stabilizer and fuel system dryer. It cleans the fuel system, the combustion chamber and the exhaust ports. It also prevents bacterial growth and promotes better starting after the storage period.

1. Fill the fuel tank with the recommended fuel.
2. Add POLARIS Carbon Clean Fuel Treatment or POLARIS Fuel Stabilizer or equivalent fuel treatments or stabilizers. Follow the instructions on the container for the recommended amount. Carbon clean will also reduce the possibility of bacterial growth in the fuel system.
3. Start the engine and allow it to run for 15-20 minutes so the stabilizer can disperse through the fuel in the tank and carburetor.
4. Stop the engine.
5. Turn the fuel valve off.
6. Drain the carburetor bowl.

## **ENGINE OIL**

Change the oil. See page 113.

## **AIR FILTER / AIR BOX**

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

## **FLUID LEVELS**

Inspect fluid levels. Change fluids as recommended in the Periodic Maintenance Chart beginning on page 99.

- Transmission Oil
- Engine Oil
- Brake Fluid

## **LUBRICATE**

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 99.

## **STORAGE AREA / COVERS**

1. Make sure tire pressure is at specification.
2. Using suitable supports under the frame, raise the vehicle slightly so that the tires are not touching the ground.
3. Be sure the storage area is well ventilated.

## MAINTENANCE

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4. Cover the vehicle with an appropriate cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

## TRANSPORTING THE ATV

1. Stop the engine. Place the transmission in gear. Lock the parking brake.
2. Secure the fuel cap, oil cap and seat. Turn the fuel valve off.

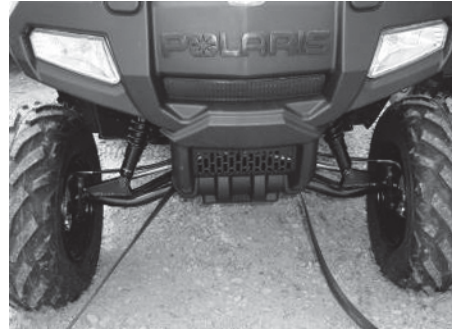
### NOTICE

Always tie the frame of the ATV to the transporting unit securely with suitable straps or rope. The rack, bumper or handlebars do not offer enough support for tie-down while transporting.

3. Attach the front tie strap to the frame tubes (not to the bumper tubes).
4. Wrap the rear tie strap around the grab bar.

# MAINTENANCE

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# SPECIFICATIONS

## OUTLAW 50

POLARIS OUTLAW 50	
Rider Capacity/Maximum Weight	1 Rider/90 lbs. (41 kg)
Dry Weight	215 lbs. (97 kg)
Front Tires	16 x 6.5 - 7 (2 psi/13.8 kPa)
Rear Tires	16 x 8 - 7 (2 psi/13.8 kPa)
Length/Width/Height	48" (122 cm) / 31.5" (80 cm) / 28" (71 cm)
Wheel Base	33" (84 cm)
Ground Clearance	4" (10 cm)
Engine type	4-Stroke
Displacement	49cc

# SPECIFICATIONS

<b>POLARIS OUTLAW 50</b>	
Cooling	Air Cooled
Lubrication	Wet Sump
Oil Capacity	30 oz. (900 ml)
Fuel Capacity	1.2 gallons (4.5 liters)
Fuel Reserve Capacity	.22 gallons (.85 liters)
Starting System	Electric with kick-start backup
Drive System	Automatic CVT
Final Drive	Chain
Front Suspension	Single control arm with 3" (7.6 cm) of travel
Rear Suspension	Spring over shock with 3" (7.6 cm) of travel
Front/Rear Brakes	Drum



# SPECIFICATIONS

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<b>POLARIS OUTLAW 50</b>	
Parking Brake	Mechanical Lock
Brake Light	Standard
Daytime Running Lights	Standard

<b>POLARIS OUTLAW 50 CARBURETOR SETTINGS</b>	
Cutaway	n/a
Pilot Air Screw	2.5 turns out
Needle & Seat	1.2
Pilot Jet	15
Main Jet	62.5
E-Clip Position	#4 From Top

# SPECIFICATIONS

POLARIS OUTLAW 50 CARBURETOR JETTING CHART									
AMBIENT TEMPERATURE									
ALTITUDE Meters (Feet)	°F:	Below -25	-30 to -10	-15 to +5	0 to +20	+15 to +35	+30 to +50	+45 to +65	Above +60
	°C:	Below -31	-34 to -23	-26 to -15	-18 to -7	-9 to +2	-1 to +10	+7 to +18	Above +16
	*Shaded cells indicate factory settings								
0-600 (0-2000)	Main Jet	65	65	65	65	62.5	62.5	62.5	62.5
	Pilot Jet	17.5	17.5	17.5	17.5	15	15	15	15
	Clip Position	#4	#4	#4	#4	#4	#4	#4	#4
600-1200 (2000-4000)	Main Jet	65	65	65	65	62.5	62.5	62.5	62.5
	Pilot Jet	17.5	17.5	17.5	17.5	15	15	15	15
	Clip Position	#4	#4	#4	#4	#4	#4	#4	#4
1200-1800 (4000-6000)	Main Jet	62.5	62.5	62.5	62.5	60	60	60	60
	Pilot Jet	17.5	17.5	17.5	17.5	15	15	15	15
	Clip Position	#4	#4	#4	#4	#4	#4	#4	#4

# SPECIFICATIONS

POLARIS OUTLAW 50 CARBURETOR JETTING CHART									
1800-2400 (6000-8000)	<b>Main Jet</b>	62.5	62.5	62.5	62.5	60	60	60	60
	<b>Pilot Jet</b>	17.5	17.5	17.5	17.5	15	15	15	15
	<b>Clip Position</b>	#4	#4	#4	#4	#4	#4	#4	#4
2400-3000 (8000-10000)	<b>Main Jet</b>	60	60	60	60	57.5	57.5	57.5	57.5
	<b>Pilot Jet</b>	17.5	17.5	17.5	17.5	15	15	15	15
	<b>Clip Position</b>	#4	#4	#4	#4	#4	#4	#4	#4
Above 3000 (Above 10000)	<b>Main Jet</b>	60	60	60	60	57.5	57.5	57.5	57.5
	<b>Pilot Jet</b>	17.5	17.5	17.5	17.5	15	15	15	15
	<b>Clip Position</b>	#4	#4	#4	#4	#4	#4	#4	#4

*The carburetor jetting chart above is consistent with the provisions of U.S.A. federal regulation 40 CFR 1051.115(d)(3).*



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**POLARIS PRODUCTS  
ENGINE LUBRICANT**

PART NUMBER	DESCRIPTION
2870791	Fogging Oil (12 oz. Aerosol)
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)

# POLARIS PRODUCTS

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## GEARCASE / TRANSMISSION LUBRICANTS

PART NUMBER	DESCRIPTION
2878068	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (qt./.95 l)
2878069	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (gal./3.8 l)
2872348	Chain Lube, Aerosol

## GREASE

PART NUMBER	DESCRIPTION
2871322	All Season Grease (3 oz./89 ml cartridge)
2871423	All Season Grease (14 oz./414 ml cartridge)

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## ADDITIVES / MISCELLANEOUS

PART NUMBER	DESCRIPTION
2871326	Carbon Clean





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## TROUBLESHOOTING ENGINE DOESN'T TURN OVER

POSSIBLE CAUSE	SOLUTION
Low battery voltage	Recharge the battery using .5 amp charger
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	Turn the fuel valve to reserve, refuel
Water is present in fuel	Drain the fuel system and refuel
Fuel valve is turned off	Turn the fuel valve on
Old or non-recommended fuel	Replace with fresh recommended fuel

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## TROUBLESHOOTING

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POSSIBLE CAUSE	SOLUTION
Fouled or defective spark plug(s)	Inspect plug(s) and replace if necessary
No spark to spark plug	Inspect plug and replace if necessary
Water or fuel in crankcase	Your POLARIS dealer can assist
Low battery voltage	Recharge the battery to with .5 amp charger
Mechanical failure	Your POLARIS dealer can assist

## ENGINE PINGS OR KNOCKS

POSSIBLE CAUSE	SOLUTION
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	Your POLARIS dealer can assist
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

## ENGINE BACKFIRES

POSSIBLE CAUSE	SOLUTION
Weak spark from spark plugs	Inspect, clean and/or replace spark plugs
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	Replace with new fuel
Incorrectly installed spark plug wires	Your POLARIS dealer can assist.
Incorrect ignition timing	Your POLARIS dealer can assist
Mechanical failure	Your POLARIS dealer can assist.
Exhaust system leak	Your POLARIS dealer can assist.

# TROUBLESHOOTING

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## ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

POSSIBLE CAUSE	SOLUTION
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	Your POLARIS dealer can assist
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 using .5 amp charger
Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace

## TROUBLESHOOTING

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<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
Electronic throttle control malfunction	Your POLARIS dealer can assist
Other mechanical failure	Your POLARIS dealer can assist

<b>POSSIBLE LEAN FUEL MIXTURE CAUSE</b>	<b>SOLUTION</b>
Low or contaminated fuel	Add or change fuel, clean the fuel system
Low octane fuel	Replace with recommended fuel
Clogged air filter	Replace filter

<b>POSSIBLE RICH FUEL MIXTURE CAUSE</b>	<b>SOLUTION</b>
Overuse of the choke	Inspect, clean and/or replace spark plugs
Fuel is very high octane	Replace with lower octane fuel

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# TROUBLESHOOTING

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## ENGINE STOPS OR LOSES POWER

POSSIBLE CAUSE	SOLUTION
Out of fuel	Turn the fuel valve to reserve, refuel
Kinked or plugged fuel vent line	Inspect and replace
Water is present in fuel	Replace with new fuel
Overuse of choke	Inspect, clean and/or replace spark plugs
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	Your POLARIS dealer can assist
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 using .5 amp charger
Incorrect fuel	Replace with fresh recommended fuel

## TROUBLESHOOTING

---

POSSIBLE CAUSE	SOLUTION
Clogged air filter	Inspect and clean or replace
Electronic throttle control malfunction	Your POLARIS dealer can assist
Other mechanical failure	Your POLARIS dealer can assist





## **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.

# WARRANTY

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## 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.

## WARRANTY

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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.

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:

# WARRANTY

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- 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

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## WARRANTY

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DURATION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU IF INCONSISTENT WITH CONTROLLING STATE LAW.

### **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.

## WARRANTY

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### **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.

### **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

## WARRANTY

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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

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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.

Emission-related components also include any other part whose only purpose is to reduce emissions or whose failure will increase emissions without significantly degrading engine/equipment performance. 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

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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.

## WARRANTY

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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. An authorized POLARIS dealer can perform any service that may be necessary for your vehicle. POLARIS also recommends POLARIS parts, however equivalent parts may be used for such service. 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.

### **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 "B" in the ninth position of the model number (e.g., R16RTE87B). 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

## MAINTENANCE LOG

Use the following chart to record periodic maintenance.

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

# MAINTENANCE LOG

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

MAINTENANCE LOG

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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**

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

**NEVER** operate:

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

**ALWAYS:**

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



**POLARIS®**

For your nearest Polaris dealer, call 1-800-POLARIS (765-2747)  
or visit [www.polaris.com](http://www.polaris.com)  
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Medina, MN 55340

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