2022

For Maintenance and Safety

OWNER'S MANUAL

Sportsman 110 Outlaw 110

PELARIS

Think Outside

WARNING

Read this manual carefully. It contains important safety information. Adult supervision is required for children under 16 years of age. Operation is prohibited for children under 10 years of age.



Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels.

Failure to follow the safety precautions could result in serious injury or death.



WARNING

Operating, servicing, and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.

For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

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.

PELARIS

2022 Owner's Manual Outlaw 110 Sportsman 110

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

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MESSAGES

DEAR PARENTS / SUPERVISING ADULTS:

We believe young operators 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 / young operators 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 / young operator has the ability and maturity to operate the ATV safely.

For your child's / young operator's safety, be sure your child / young operator 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 / young operator's ATV are thoroughly inspected at specific intervals. Follow all of the instructions and recommendations in this manual.

MESSAGES

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 / supervising adult 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 / supervising adult 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

SAFETY SYMBOLS AND SIGNAL WORDS

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.

A DANGER

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

A CAUTION

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

INTRODUCTION

MARNING

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.

NOTICE

NOTICE provides key information by clarifying instructions.

IMPORTANT

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

INTRODUCTION

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.



VEHICLE IDENTIFICATION NUMBERS

- ① Vehicle Identification Number (VIN)
- ② Engine Serial Number



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.

Vehicle Model Number:	
Vehicle Identification Number (VIN):	
Engine Serial Number:	
Key Number	

A 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. See page 33 for details on how to access 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.

DECLARATION OF CONFORMITY

PECHARATION OF CONFORMITY For the part of
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SAFETY WARNINGS

A 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.

FOR MORE INFORMATION ABOUT SAFETY call POLARIS at 1-800-342-3764.

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.



AGE RESTRICTIONS



Operation is prohibited for anyone under age 10. Operation is also prohibited for anyone who is not able to sit upright with both feet on the footrests and both hands on the handlebars.

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

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.

EXPOSURE TO EXHAUST

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

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

SAFETY

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.

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

PROTECTIVE APPAREL

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



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, visibility, operating conditions, and your riding 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 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.

NOTE

A special technique is required when braking while traveling downhill. See page 88.

- Always follow proper procedures for traveling down hills as described in the owner's manual.
- · Always check the terrain carefully before descending a hill.
- Shift your weight rearward.
- · Never travel down a hill at high speed.
- Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side.
 Travel straight down the hill when possible.

SAFETY

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.



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 the Turning Around on a Hill section for details.



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.

SAFETY

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 the Turning Around on a Hill section for details.

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.



OPERATING IMPROPERLY IN REVERSE

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

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

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.

SAFETY

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. An authorized 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.

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 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 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 the Driving Through Water section for details):

- Travel slowly.
- · Balance your weight carefully.

SAFETY

- 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 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.

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

A WARNING

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.

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

SAFETY TRAINING

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

If you purchased a new POLARIS ATV in the United States, your dealer provided information about the authorized ATV *RiderCourse*sm that is available to you and your eligible family members. This training is included in the purchase price of your ATV.

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 / young operators on a regular basis. Do not 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* for a fee. Call ATV Enrollment Express at (800) 887-2887 or visit www.atvsafety.org.

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

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

EQUIPMENT MODIFICATIONS

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

MARNING

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.

SAFE RIDING GEAR

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

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



SAFETY

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. Always buckle and pull straps tight to ensure the helmet is secured.

Parents and supervising adults should verify that the provided helmets fit properly. If a helmet doesn't fit, a new one should be obtained in the proper size.

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.

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.

CLOTHING

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

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.

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

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.

NORTH AMERICAN LABELS

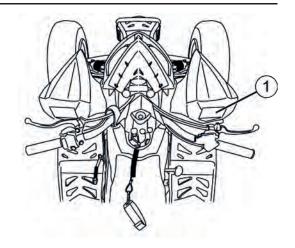
AGE WARNING

The Age Warning label $\widehat{\ }$ is located on the rear of the right front fender.

A WARNING

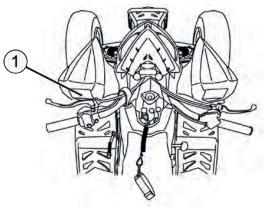
Operation of this ATV by children under age 10 increases the risk of severe injury or death.

Adult supervision required for children under age 16. NEVER permit children under age 10 to operate this ATV.



GENERAL WARNING

The General Warning label ① is located on the rear of the left front fender.



M 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.

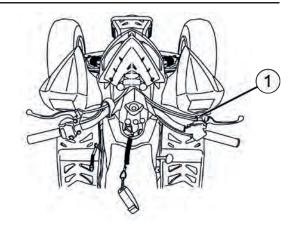
DISCRETIONARY WARNING

The Discretionary Warning label ① is located on the rear of the front right fender.

MARNING

Never operate this ATV on HILLS **steeper than 15 degrees**. To prevent overturn on hilly terrain, use throttle and brakes gradually and shift weight uphill.

REVERSE operation can be dangerous even at low speeds. Steering becomes difficult. To prevent loss of control, avoid sudden braking or sharp turns.



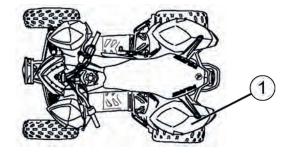
TIRE PRESSURE/LOAD WARNING (OUTLAW)

The Tire Pressure Warning label ① is located on the exterior of the left rear fender.

MARNING

Improper tire pressure or overloading can cause loss of control. Loss of control can result in severe injury or death.

- Cold tire pressure: Front: 3.0 psi (20.7 kPa)
 Rear: 3.0 psi (20.7 kPa)
- Maximum Weight Capacity 180 lbs. (81.7 kg)



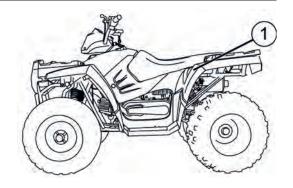
TIRE PRESSURE/LOAD WARNING (SPORTSMAN)

The Tire Pressure Warning label ① is located on the left rear fender.

MARNING

Improper tire pressure or overloading can cause loss of control. Loss of control can result in severe injury or death.

- Cold tire pressure: Front: 3.0 psi (20.7 kPa)
 Rear: 3.0 psi (20.7 kPa)
- Maximum Weight Capacity 225 lbs. (102 kg)



NO PASSENGER WARNING

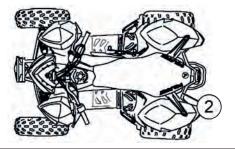
MARNING

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

The No Passenger Warning labels are located as follows:

- Sportsman ①
- Outlaw ②





SPORTSMAN RACK WARNING

The front rack warning ① is located topside of the forward rack. The rear rack warning ② is located on the back—facing edge of the rear rack.



DO NOT TOW. Vehicle damage or tipover may result causing severe injury or death.

Maximum Rack Loads:

Front: 15 lbs. (7 kg)Rear: 30 lbs. (14 kg)



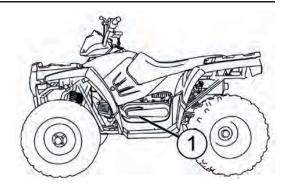
SAFETY

CLUTCH COVER WARNING

The clutch cover warning label ① is located on the vehicle's clutch cover.

A WARNING

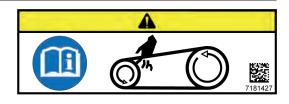
- Moving parts hazard under belt-clutch guard.
 To prevent serious injury, do not operate vehicle with guard removed.
- Do not touch clutch cover, cover may become hot.
- Do not modify engine or clutch. Doing so can cause part failure, possible imbalance, and excessive engine RPM which can result in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



INTERNATIONAL LABELS CLUTCH COVER ALERT

Read the owner's manual. Keep limbs away from moving parts.

The clutch cover alert label is located on the vehicle's clutch cover. Part number: 7181427.



PROPER USE ALERT

Always use an approved helmet and protective gear. Never use on public roads. Never carry passengers. Never use with drugs or alcohol. Never operate this ATV on HILLS steeper than 15 degrees. To prevent overturn on hilly terrain, use throttle and brakes gradually and shift weight uphill. REVERSE operation can be dangerous even at low speeds. Steering becomes difficult. To prevent loss of control, avoid sudden braking or sharp turns. Never carry fuel on this vehicle.

The proper use alert is located on the rear of the left front fender. Part number: 7185287.

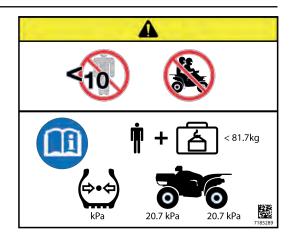


AGE/LOAD/TIRE PRESSURE ALERT (OUTLAW)

Read your owner's manual. Operation of this ATV by children under age 10 increases the risk of severe injury or death. Adult supervision required for children under age 16. NEVER permit children under age 10 to operate this ATV. NEVER ride as a passenger. Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH. Improper tire pressure or overloading can cause loss of control. Loss of control can result in severe injury or death.

- Cold tire pressure Front: 3.0 psi (20.7 kPa)
 Rear: 3.0 psi (20.7 kPa)
- Maximum Weight Capacity: 180 lb. (81.7 kg)

The age/load/tire pressure alert label is located on the rear of the right front fender. Part number: 7185289.

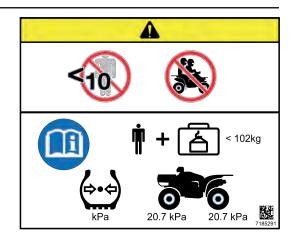


AGE/LOAD/TIRE PRESSURE ALERT (SPORTSMAN)

Read your owner's manual. Operation of this ATV by children under age 10 increases the risk of severe injury or death. Adult supervision required for children under age 16. NEVER permit children under age 10 to operate this ATV. NEVER ride as a passenger. Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH. Improper tire pressure or overloading can cause loss of control. Loss of control can result in severe injury or death.

- Cold tire pressure: Front: 3.0 psi (20.7 kPa)
 Rear: 3.0 psi (20.7 kPa)
- Maximum Weight Capacity: 225 lbs. (102 kg)

The age/load/tire pressure alert label is located on the rear of the front right fender. Part number: 7185291.

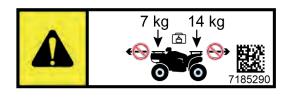


SPORTSMAN RACK ALERT

DO NOT TOW. Vehicle damage or tipover may result causing severe injury or death. Maximum Rack Loads:

Front: 15 lb (7 kg)Rear: 30 lb (14 kg)

The rack alert is located on the back-facing edge of the rear rack. Part number: 7185290.



YOUNG RIDERS SECTION KNOW YOUR ATV

PARENTS: POLARIS Youth ATVs are equipped with a speed control system, allowing adults to limit vehicle speed according to rider's skill and experience. More information on speed limiting functionality can be found in the Speed Control and Throttle system section. These units are not designed for adult use. Serious vehicle damage may occur if maximum rider weight capacity is exceeded. See vehicle specifications on page for your ATV's weight capacity.

YOUNG RIDERS: Before riding your new POLARIS ATV, there are important things you need to know. Safety 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 ride.

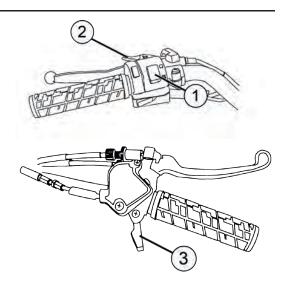
A WARNING



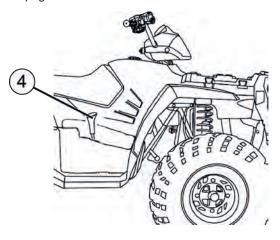
This is the safety alert symbol. When you see this symbol on your ATV or in this manual, it means PAY ATTENTION. Inattention to instructions could result in serious injury or death.

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

- ① Engine Stop Switch: When the engine is running, push this button down to shut the engine off quickly. The button must be in the up—position before you can start the engine again.
- ② **Horn Button:** Press the horn button to sound the horn.
- 3 Throttle Control: Press the throttle lever with your thumb when you want your ATV to move forward. Always be sure the throttle control does not stick before you drive your ATV. Read more about this on page 59.



(4) Shift Lever: The shift lever is on the right side of the ATV. Read about how to use the shift lever on page 68

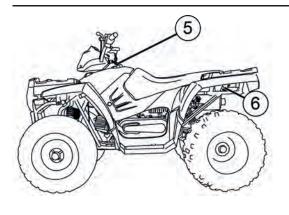


§ Gas Cap: The gas cap must be removed when an adult puts gas in your ATV. Never take off the gas cap. Make sure it is closed tightly.

MARNING

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

Seat Latch: 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.

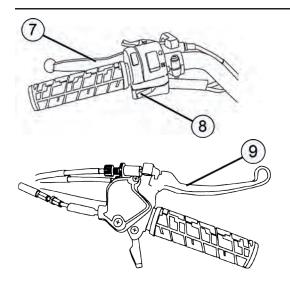


Brake Levers: Squeeze the brake levers toward the handlebar to slow down or stop the ATV. Always squeeze both brake levers at the same time.

- The left lever (7) controls the rear brake.
- The right lever ① controls the front brake.

MARNING

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



Start Button: (shown above) Use this button to start the engine when you're ready to drive.

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

Tether Strap and Switch - 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.

MARNING

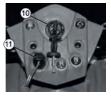
Never ride without the tether strap attached to your right wrist and to your ATV. Be careful not to let the cord get tangled around the handlebars or any part of your body.

Outlaw

- Ignition Switch ®
- Tether Switch ①

Sportsman

- Ignition Switch [®]
- Tether Switch ®





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.

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.

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.

MARNING

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.

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.

MARNING

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.

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 in the Safety Labels and Locations
section of this manual.

MARNING

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

- Make sure seat is secure. If you used the storage area under the seat, make sure the seat is secured in place.
- 5. Check the oil. Have an adult check the engine oil level when the engine is cold. When the engine has been running for awhile, it is very hot and can burn your skin, if touched. Children must never check the oil alone. An adult should always be responsible for keeping gas and oil levels at full marks.
- 6. Check all engine stop methods. Perform this last check with the engine running. You must verify that all three ways to shut off the engine of your ATV are working properly. Do you remember what they are? If you can't remember the three ways to stop the engine, go back to the Know Your ATV section and review. 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 some things you must never do. Rules are very important when you're driving an ATV. Adults have riding rules, too. 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 drive safely.

M WARNING

Always follow the safe riding rules found in the next few pages. You, or those around you, could be seriously hurt if safe riding rules are not followed.

RIDING GEAR

NOTE

Always wear proper clothing and safety gear when riding your ATV.

Helmet: Your helmet is very important for safe riding. Helmets prevent severe head injuries.

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

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

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

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

RULES TO REMEMBER

- Always attach the tether strap to your right wrist and to the ATV before riding.
- Always know where you're going to drive before you start your ATV. Make sure your ATV's surrounding area is safe.
- Your ATV is designed for one rider. Never carry a passenger. A passenger will make the ATV harder to drive. You could lose control and hurt yourself and your passenger.
- Always remain seated while driving your ATV..
 Keep both hands on the handlebars and both
 feet on the footrests.
- Always be alert and pay attention to where you're driving. Pay attention to other drivers, and take more care around them because you cannot predict what they're going to do.

- Never follow another ATV too closely. You need plenty of time and space to stop your ATV.
- Never tow or pull an object behind the ATV.
- Never ride without adult supervision. An adult should always be watching in case you need help. Always drive within the sight of an adult.
- Never ride on public trails.
- Never ride your ATV on roads or over railroad tracks. Your ATV makes noise that may prevent you from hearing cars, trucks or trains that may be coming toward you.
- Never ride at night. Your ATV is not equipped with lights that are safe for driving in the dark.
- Learn where lakes, rivers, ponds and ditches are located in your driving area. Stay away from them.

- Never ride on frozen water. Driving on ice could result in serious injury or death. All ice can be dangerous!
- Only ride your ATV in safe areas where you have permission to drive. Be careful of 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.

Respect your ATV.

Respect your environment.

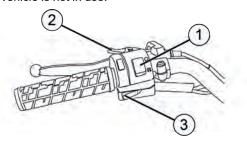
You will earn the respect of everyone.

Enjoy riding your new POLARIS ATV!

FEATURES AND CONTROLS

SWITCHES / BUTTONS MAIN KEY SWITCH

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



ENGINE STOP SWITCH

When stop switch ① is down (OFF position), the engine will not start or run and all electrical power is cut off to the vehicle. In case of stuck throttle, emergency, or to stop the engine quickly, push stop switch down.

HORN BUTTON

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

ENGINE START BUTTON

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

Follow the Starting the Engine procedure described in the Safe Operation Practices section.

THROTTLE CONTROLS

MARNING

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 throttle release switch limits engine speed in the event of a throttle system malfunction.

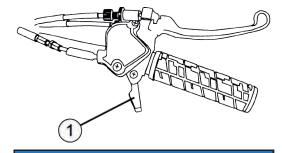
Modifications to the throttle release switch could result in failure to perform as designed, which could result in an accident. Do not attempt to modify the throttle control system or replace it with any after market throttle mechanism.

Always ensure that the throttle cable is installed and properly routed to the throttle control.

THROTTLE LEVER

The throttle lever is located on the right handlebar. 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 a throttle release switch, which is designed to reduce the risk of a frozen or stuck throttle. If the throttle cable should stick in an open position when the operator releases the lever, engine speed will be limited to idle speed.



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.

FEATURES AND CONTROLS

SHIFT LEVER

To change gears, stop the ATV. With the engine idling, move the lever to the desired gear. Do not try to shift gears with engine speed above idle or while the ATV is moving.

Maintaining shift linkage adjustment is important to assure proper transmission function. See your dealer or other qualified person if you experience any shifting problems.

SHIFT PATTERN

F: Forward Gear

N: Neutral

R: Reverse

NOTICE

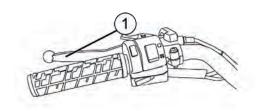
Do not attempt to shift the transmission while the vehicle is moving or damage to the transmission could result. Always shift when the vehicle is stationary and the engine is at idle.

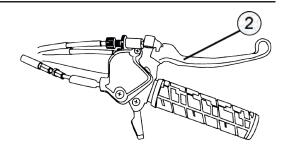
BRAKES

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.

MARNING

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





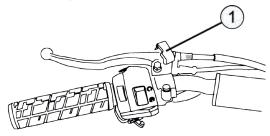
PARKING BRAKE

Always lock the parking brake whenever the vehicle is left unattended. To engage the parking brake, follow these steps:

FEATURES AND CONTROLS

- 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.

To release the parking brake, squeeze and release the brake lever. The brake will release automatically.



MARNING

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.

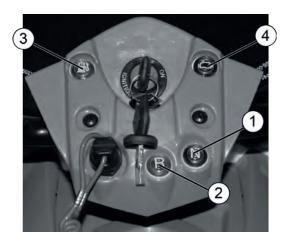
INDICATOR LIGHTS

Polaris Youth ATVs are not equipped with lights 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.

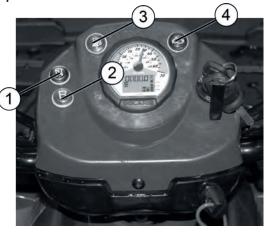
INDICATOR	DESCRIPTION
Neutral ①	Transmission is in neutral.
Reverse ②	Transmission is in reverse.
Low Fuel ③	The ATV can operate 7-10 miles (11-16 km) before the tank is completely empty.
Check Engine ④	A flashing light indicates an overheated engine. The system will automatically reduce engine power. A solid light indicates an EFI-related fault has occurred. Do not operate the ATV if light is on. Serious engine damage could result. Your POLARIS dealer can assist.

FEATURES AND CONTROLS

Outlaw



Sportsman



FUEL SYSTEM

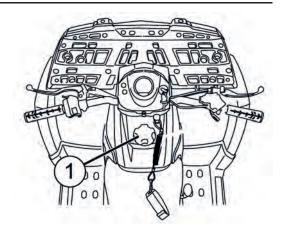
GAS CAP

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

Use unleaded gasoline with a minimum pump octane number of 87=(R+ M/2) octane. Nonethanol fuel is recommended.

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

Refer to the Specifications chapter for fuel tank capacity.



A 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.

- Fill the fuel tank with gasoline. Always exercise extreme caution whenever handling gasoline. Never allow a child to handle gasoline.
- Check the oil level. See page 117. Add the recommended oil as needed to maintain the oil level in the safe operating range.
- 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.
- Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 77.

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.

PRE-RIDE INSPECTION

A 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.

ITEM	REMARKS	PAGE
Brake system/lever travel	Ensure proper operation	See page 131.
Front suspension	Inspect, lubricate if necessary	See page 115.
Rear suspension	Inspect, lubricate if necessary	See page 115.
Steering	Ensure free operation, lubricate if necessary	See page 135.
Tires	Inspect condition and pressure	See page 38 for label locations and page for tires.

ITEM	REMARKS	PAGE
Wheels/fasteners	Inspect, ensure fastener tightness; check that axle nuts are secured by cotter pins	See page .
Frame nuts, bolts, fasteners	Inspect, ensure tightness	-
Fuel and oil	Ensure proper levels	See page 38 for label locations and page 73 for fuel system.
Grass and debris	Remove grass, leaves, foreign matter, and other flammable material or debris, especially near the exhaust system	-
Throttle	Ensure proper operation	See page 59 and page 66.
Engine Stop Switch	Ensure proper operation	See page 65.

ITEM	REMARKS	PAGE
Air filter, pre-filter	Inspect and clean, or replace	See page 140.
Daytime running lights	Ensure proper operation	See page 146.
Brake light	Ensure proper operation	See page 146.
Drive Chain	Check condition and slack; refer to drive chain adjustment	See page 137.
Loose or Damaged components	Visually inspect for any damaged components or loose fasteners	-
Riding Gear	Wear helmet, goggles, protective clothing	See page 35.

SAFE OPERATION PRACTICES

- 1. Complete the recommended safety training before operating this vehicle. See page 33.
- 2. Do not allow anyone under age 10 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. 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.
- 6. Ride this vehicle only in areas permitted by a supervising adult. Never operate the vehicle on pavement or on any public street, road or highway, including dirt and gravel roads.
- 7. Drive in a manner appropriate for your skills and operating conditions. Never operate at excessive speeds. DO NOT attempt to do power slides, "donuts", jumps or other driving stunts. Keep both hands on the steering wheel at all times.
- 8. Never consume alcohol or drugs before or while operating this vehicle.

- 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.

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.

Follow the steps below for proper engine start procedure:

- 1. Shift the transmission to neutral.
- 2. Lock the parking brake.
- 3. Sit on the vehicle. Attach the tether strap to the ATV and to your wrist.
- Push the engine stop switch up to the ON position.
- Turn the ignition key to ON.

- Squeeze the rear brake lever and press the start button. The rear brake lever must be engaged or the engine won't start.
- 7. 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.

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.

- Lock the parking brake.
- 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. Shift the transmission to neutral.
- 3. Start the engine and allow it to warm up.
- 4. Check your surroundings and determine your path of travel.
- Squeeze the left brake lever.
- Shift the transmission to the desired gear.
- 7. Slowly release the brake lever.
- 8. Slowly press the throttle with your right thumb and begin driving.
- 9. Drive slowly at first. Practice turning and using the throttle and brakes on level surfaces.

MAKING TURNS

Your ATV is equipped with a solid rear axle, which drives both rear wheels equally at all times. 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.

A WARNING

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

DRIVING IN REVERSE

Follow these precautions when operating in reverse:

- 1. Always check for obstacles or people behind the vehicle.
- 2. Always avoid backing downhill.
- 3. Back slowly.
- 4. Apply the brakes lightly for stopping.
- 5. Avoid turning at sharp angles.
- 6. Never open the throttle suddenly.

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.
- 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:

- 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.

- Stop the vehicle and lock the parking brake while keeping body weight uphill.
- 2. Shift the transmission to neutral.



- Shut off the engine.
- Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.
- 5. Staying uphill of the ATV, turn the handlebars full left.
- 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.
- 7. Lock the parking brake and remount the ATV from the uphill side, keeping body weight uphill.
- 8. Restart the engine.
- 9. Squeeze the rear brake lever.
- 10. Shift the transmission to forward gear.
- 11. 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.

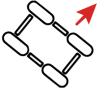
DRIVING ON SLIPPERY SURFACES

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 OVER OBSTACLES

Follow these precautions when operating over obstacles:

- 1. Always check for obstacles before operating in a new area.
- Look ahead and learn to read the terrain. Be constantly alert for hazards such as logs, rocks and low hanging branches.
- 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.



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 section. Engine oil, gear case 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 in the Vehicle Immersion section, and take the vehicle in for service at the first opportunity.

HAULING CARGO

The SPORTSMAN was designed with racks to carry small loads. Read and follow all of the instructions for hauling cargo on the following pages.

Never carry cargo on the OUTLAW.

MARNING

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

- Place 1/3 of the cargo weight on the front rack and 2/3 on the rear rack. Carrying loads on only one
 rack increases the chance of a tipover.
- Slow down. Allow more space for stopping the ATV when hauling cargo.
- Never exceed the weight capacities for the vehicle. Capacities are listed in the specifications section beginning on page .
- Secure all cargo before driving. Loose cargo may move or shift, which could cause loss of control
 or a tipover. Use suitable tie-downs or rope to secure the cargo. Do not allow cargo or tie straps to
 hang over the edges of the racks.
- Carry only small loads that fit on the racks. Tall loads raise the center of gravity of the vehicle and may cause loss of control or a tipover.
- Never allow a person to ride on the racks.
- Never tow or pull an object behind the ATV. A wagon, sled or other object towed behind an ATV
 does not have brakes or steering. The object may overturn or collide with other objects and cause
 serious injuries.

POLLUTANT EMISSIONS

Engine exempt from NRMM pollutant emissions Regulation (EU) 2016/1628.

Engine used in reduced-scale vehicle model for recreational purposes, net power < 19 kW.

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 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/.

CRANKCASE EMISSION CONTROL SYSTEM

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

EXHAUST EMISSION CONTROL SYSTEM

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

The emissions label is located on the inside of the lower left frame tube (below driver's foot area).

ELECTROMAGNETIC INTERFERENCE

This spark ignition system complies with Canadian ICES-002.

This vehicle complies with the EMC requirements of UN ECE Regulation 10.

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.

EUROPEAN VIBRATION AND NOISE

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

NOISE	OUTLAW 110	SPORTSMAN 110
A-Weighted Sound Pressure Level at Rider's Ear	82 dB(A)	90 dB(A)
Peak C-Weighted Sound Pressure Level at Rider's Ear	93 dB(C)	98 dB(C)
A-Weighted Sound Power Level	101 dB(A)	105 dB(A)

Uncertainty of decibel levels: 3dB.

VIBRATIONS	OUTLAW 110	SPORTSMAN 110
Weighted Hand-Arm Vibration Level	3,0 m/s2	2,9 m/s2
Weighted Seat Vibration Level	1,6 m/s2	1,2 m/s2

MAINTENANCE

PERIODIC MAINTENANCE

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. Careful periodic maintenance will help keep your vehicle in safe, reliable condition. Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, genuine POLARIS parts are available from your POLARIS dealer. Equivalent parts may be used for emissions-related service.

MAINTENANCE

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 199.

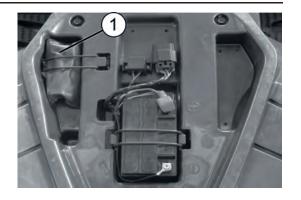


CHART KEY

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

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

MAINTENANCE

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 dealer can assist.

MAINTENANCE CHART

A 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
IIEM	HOURS	CALENDAR	MILES (KM)	KEWAKKS
Steering	-	Daily	-	Check each day before driving the
Front Suspension				vehicle. Make adjustments as needed. See the Pre-Ride Checklist.
Rear Suspension	-	Daily	-	Check each day before driving the vehicle. Make adjustments as needed. See the Pre-Ride Checklist.
Tires				needed. See the Pre-Ride Checklist.
Brake Lever Travel				
Brake System				

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			DEMARKO
IIEM	HOURS	CALENDAR	MILES (KM)	REMARKS
Wheels/ Fasteners				
Frame Fasteners				
Engine Oil Level	-	Daily	-	Check each day before driving the vehicle. Make adjustments as needed. See the Pre-Ride Checklist.
Air Filter, Pre- Filter, & Main Element	-	Daily	-	Inspect; clean often; replace as needed.
Air Box Sediment Tube	-	Daily	-	Drain deposits when visible.

ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
I I E IVI	HOURS	CALENDAR	MILES (KM)	KEMAKKS
Daytime Running Lights/ Taillight	-	Daily	-	Check operation; apply dielectric grease if replacing.
Drive Chain	1	Daily	-	Inspect daily, adjust as needed, check often if driving in wet conditions.
CVT Housing (if equipped)	-	Daily	-	Drain water as needed, check often if driving in wet conditions.
Break-In Maintenance	After fire	st 10 hours of op	eration	Perform break-in maintenance.

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			DEMARKO
	I I EIVI	HOURS	CALENDAR	MILES (KM)	REMARKS
XU D	Brake Lever Travel/Brake Freeplay	10	Monthly	100 (160)	Inspect periodically.
	Spark Plug	10	Monthly	100 (160)	Clean; check condition; adjust gap; replace as needed.
	Fuel System	20	Monthly	-	Inspect; cycle key to pressurize fuel pump; check lines and fittings for leaks and abrasion.
	Battery	20	Monthly	200 (320)	Check terminals; clean; test.

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			DEMARKO
	ITEM	HOURS	CALENDAR	MILES (KM)	REMARKS
XU	Engine Oil Change	30	6 Mo	300 (480)	Change oil and oil filter.
XU	Transmission Oil	40	12 Mo	400 (640)	Drain and change oil.
XU	Oil Pre-Filter Screen	40	12 Mo	400 (640)	Clean filter at every oil change; clean annually if ATV is operated less than 10 hours.
XU	General Lubrication	50	3 Мо	500 (800)	Lubricate all fittings, pivots, cables, etc.
D	Valve Clearance	50	3 Mo	500 (800)	Check clearance; see your dealer for adjustments.

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
	I I E IVI	HOURS	CALENDAR	MILES (KM)	KEWAKKS
D	Throttle Cable/ Release Switch	50	6 Mo	500 (800)	Inspect, adjust, lubricate; replace if necessary.
	Throttle Body Intake Duct	50	6 Mo	500 (800)	Inspect duct for proper sealing/air leaks.
D	Drive Belt	50	6 Mo	500 (800)	See your POLARIS dealer.
XU D	Brake Pad Wear	50	6 Mo	500 (800)	See your POLARIS dealer.

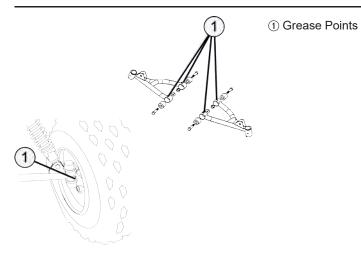
	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
	I I E IVI	HOURS	CALENDAR	MILES (KM)	KLIMAKKO
D	Fuel System/ Filter	100	12 Mo	600 (1000)	Cycle key to pressurize fuel pump; check for leaks at fill cap, fuel lines/ rail, and fuel pump; replace lines every two years.
XU	Engine Mounts	100	12 Mo	1000 (1600)	Inspect.
	Exhaust Muffler/ Pipe	100	12 Mo	1000 (1600)	Inspect.
D	Ignition Timing	100	12 Mo	1000 (1600)	Inspect.

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

LUBRICATION RECOMMENDATIONS

ITEM	LUBE	METHOD
Engine Oil	PS-4 10W-50 4-Cycle Oil	See page 117.
Transmission Oil (Main Gearcase)	AGL Gearcase Lubricant & Transmission Fluid	See page 120.
Drive Chain	POLARIS Chain Lube or SAE 80/90	See page 137.
Front Arm 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.



ENGINE OIL

OIL RECOMMENDATIONS

Always check and change the engine oil at the intervals outlined in the Periodic Maintenance Chart section. 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 171 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.

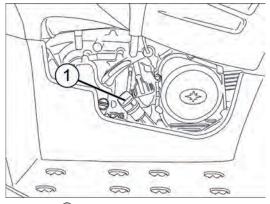
OIL CHECK

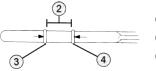
Maintain oil level within safe range on the dipstick. Do not overfill.

- 1. Position vehicle on a level surface.
- 2. Remove dipstick ①. Wipe dry with a clean cloth.
- 3. Reinsert dipstick completely.
- Remove dipstick and check oil level.
- 5. Add recommended oil as needed.
- 6. Reinsert the dipstick.

TIP

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





- ② Safe Range
- 3 Add Oil
- 4 Full

OIL CHANGE

- 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.

A 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.

- 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.
- Reinstall the pre-filter drain plug. Torque to 11 ft. lbs. (15 Nm).
- Remove the dipstick. Add 29 oz. (850 ml) of the recommended oil. Do not overfill. See the Specifications chapter for capacities.
- 12. Reinstall the dipstick.
- 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.

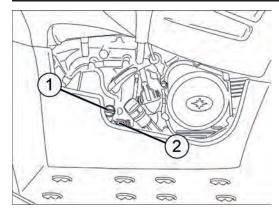
TRANSMISSION (MAIN GEARCASE)

Always check and change the fluid at the intervals outlined in the Periodic Maintenance Chart beginning on page 106. Polaris recommends the use of AGL Gearcase Lubricant & Transmission Fluid for this vehicle.

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 vehicle on a level surface.
- Remove fill plug.
- 3. View oil level through the fill hole.
- 4. Add recommended fluid as needed.
- Reinsert the fill plug.



FLUID CHANGE

- 1. Position vehicle on a level surface.
- Remove 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.
- Reinstall the drain plug with a new o-ring. Torque to 14 ft. lbs. (19 Nm).
- 7. Add recommended oil. Maintain oil level at the bottom of the fill plug hole threads.
- 8. Reinsert fill plug.
- 9. Check for leaks.
- 10. Discard used fluid properly.

GEARCASE CAPACITY				
Outlaw 110	11.8 oz. (350 ml)			
Sportsman 110	11.8 oz. (350 ml)			

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.

- Move the vehicle to dry land or, at minimum, to water below the footrests.
- Check the air box for any water and dry if water is present.

- 3. Remove the spark plug.
- Turn the engine over several times using the electric start.
- Dry the spark plug and reinstall it, or install a new plug.
- 6. Attempt to start the engine. If necessary, repeat the drying procedure.
- 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.
- If water has been ingested into the transmission follow the procedure on page 125 for drying the CVT.

SPARK PLUGS

SPARK PLUG GAP/TORQUE

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

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.

MARNING

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

SPARK PLUG CONDITION Normal Plug

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 or incorrect throttle body adjustments.

SPARK PLUG REMOVAL AND REPLACEMENT

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

CONSTANT VARIABLE TRANSMISSION (CVT) SYSTEM

A 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 accidently 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. Shift the transmission to neutral. Set the parking brake.
- 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.

SPARK ARRESTER

A 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 arrestor.
- 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 section.

- Remove the six bolts and remove the arrester from the end of the muffler.
- Use a non-synthetic brush to clean the arrester screen. A synthetic brush may melt if components are warm. If necessary, blow debris from the screen with compressed air.
- 3. Inspect the screen for wear and damage. Replace the arrester if damage is found.
- 4. Reinstall the arrester.
- 5. Torque the bolts to 7 ft. lbs. (9.5 Nm).



① Arrester Screen

SPEED CONTROL AND THROTTLE SYSTEM

NOTICE

Per ANSI® / SVIA-1-2010 (sec. 6.2) and EN 15997, AS DELIVERED TO THE CONSUMER, the speed of youth models is restricted to 10 mph (16 km/h) or less for the Y-6+ models and 15 mph (24 km/h) 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.

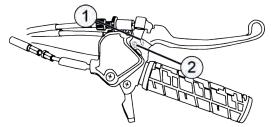
This vehicle has an adjustable speed control system that controls engine RPM and speed of the vehicle. The speed limiting device may be adjusted by supervising adults when they determine that the operator is capable of safely handling additional speed.

Per ANSI® / SVIA-1-2010 (sec. 6.1) and EN 15997, the unrestricted top speed is 15 mph (24 km/h) or less for the Y-6+ models and 30 mph (48 km/h) or less for the Y-10+ models.

THROTTLE STOP AND SPEED CONTROL SYSTEM

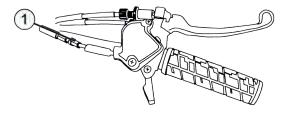
Use the following procedure to control how far the throttle opens.

- 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

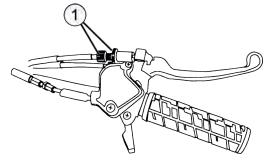
Check (measure) the freeplay of the front and rear brakes at the intervals recommended in the Periodic Maintenance Chart beginning on page 103. If the freeplay isn't at specification, adjust the freeplay as outlined on the following pages.

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. Shift the transmission to neutral.

- Elevate the front of the vehicle by placing a suitable stand under the frame. The front tires should be slightly off the ground.
- While rotating the left front wheel, tighten the upper front brake adjuster nut ① on the righthand control.

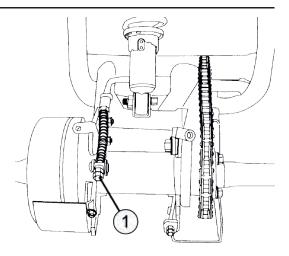


- When you begin to feel a slight drag in wheel rotation, loosen the adjuster nut one full turn.
- While rotating the right front wheel, tighten the lower front brake adjuster nut ① on the right-hand control.
- When you begin to feel a slight drag in wheel rotation, loosen the adjuster nut one full turn.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

REAR BRAKE ADJUSTMENT

- Position the vehicle on a level surface.
- 2. Shift the transmission to neutral.

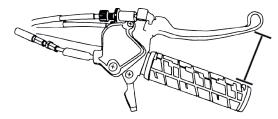
- Elevate the rear of the vehicle by placing a suitable stand under the frame. The rear tires should be slightly off the ground.
- 4. While rotating the rear wheels, tighten the rear brake wing nut ① at the rear brake drum.
- 5. When you begin to feel a slight drag in wheel rotation, loosen the wing nut one full turn.
- 6. Verify that the left hand brake functions correctly.
- 7. Verify that brake lever freeplay is at specification.
- 8. 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 106. 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 to alignment is 1/8" to 1/4" (3-6 mm) to out. Check using the procedure below.

MARNING

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.

- Position the vehicle on a level surface.
- Place the handlebars in a straight-ahead position.
- 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.
- If you discover improper alignment, see your POLARIS dealer for service.

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

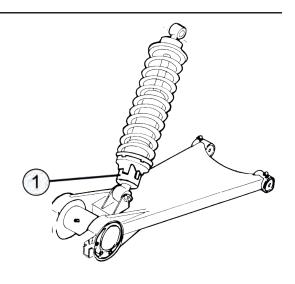
The camber and caster are non-adjustable.

SHOCK SPRING ADJUSTMENT

MARNING

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 on page 106. Lubricate more often under severe use, such as dirty or wet conditions. See page 171 for the part numbers of Polaris products.

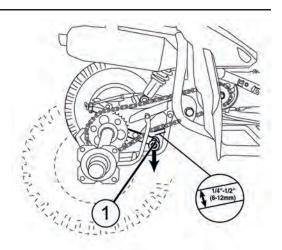
NOTICE

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.

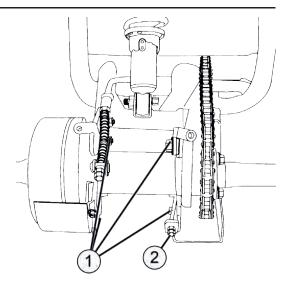
DRIVE CHAIN SLACK

- Check the amount of chain slack by moving the vehicle slightly forward to gain slack at the top side of the chain.
- Collapse the suspension with an adjustable (buckle type) trailer tiedown strap. Fasten the strap around the axle and rear bumper tube.
- Tighten the strap until a straight line can be drawn from the rear axle to the gearcase output shaft intersecting the swing arm pivot. This establishes the tightest chain position.
- 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.
- 5. If the chain needs adjustment, use the procedure cited below.



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.
- 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).



AIR FILTER

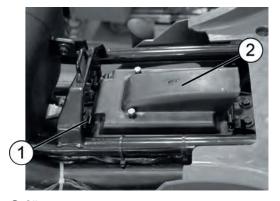
Always change the air filter at the intervals outlined in the Periodic Maintenance Chart section.

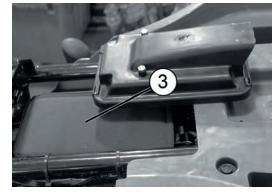
- 1. Remove the seat. See page 53.
- Release the air box cover spring clips and remove the cover.
- Remove the foam air filter. Wash the foam filter in warm soapy water, then rinse and let dry. If the filter is damaged, install a new foam filter.
- Apply a commercially available foam filter lubricant to the foam filter.
- Clean away any oil or sediments in the air box.

- 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.





 $\textcircled{1} \ \mathsf{Clips}$

② Cover

3 Foam Filter



4 Support Screen

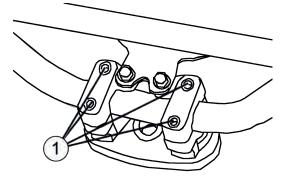
HANDLEBAR ADJUSTMENT

A 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.

The handlebars can be adjusted for rider preference.

 Remove the pod to access the handlebar bolts ①. Loosen the four bolts.



- 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).

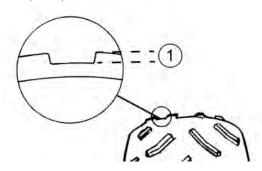
TIRES

A 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. Tires age, even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is evidence of aging. Old and aged tires must be checked by tire specialists to ascertain their suitability for further use. 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.

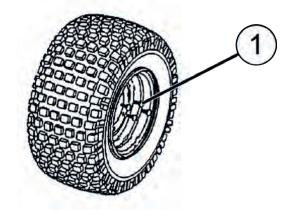
TIRE TREAD DEPTH

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



WHEEL REMOVAL

- 1. Stop the engine and lock the parking brake.
- 2. Loosen the wheel bolts ① 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.



WHEEL INSTALLATION

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

LAMP LIGHT REPLACEMENT DAYTIME RUNNING LIGHTS (IF EQUIPPED)

If the daytime running lights do not operate, replace the lamps. It is recommended you install replacement lamps obtained from your authorized Polaris dealer.

- 1. Remove the front cover (OUTLAW only).
- 2. Disconnect the lights from the harness.
- Remove the rubber cover from the back of the light assembly.

- 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.
- 5. Install the new lamp. Make sure the filament is horizontal.
- Reinstall the lamp retainer. Press the retainer inward and turn it clockwise about 1/4 turn.
- 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.
- Reinstall the front cover (OUTLAW only).

INDICATOR LIGHTS

- 1. Remove the handlebar cover or pod to access the lamps.
- Remove the indicator wire connections from the harness.
- Remove the nut from the back side of the indicator lamp.
- 4. Remove the lamp.
- Apply dielectric grease to the socket and install the new lamp.
- 6. Reverse the steps to reinstall all components.

TAIL LIGHT

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

- Remove the two screws
 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.



BATTERY

MARNING

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 battery hold-down strap.
- Disconnect the black (negative) battery cable first.
- Disconnect the red (positive) battery cable next.
- 4. Lift the battery out of the ATV.

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

- 1. Set the battery in its holder.
- Coat the terminals with dielectric grease or petroleum jelly.
- Connect and tighten the red (positive) cable first.
- 4. Connect and tighten the black (negative) cable last.

- Attach the hold-down strap.
- 6. Verify that cables are properly routed.

BATTERY IDENTIFICATION

IMPORTANT

It is important to identify what type of battery is installed in the vehicle. Different types of batteries require different service procedures. Proper servicing and upkeep of the battery is very important for maintaining long battery life.

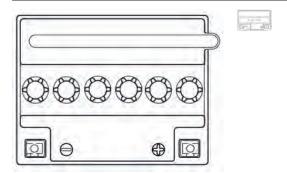
The types of batteries are:

- Lead Acid Conventional
- Dry Shipped Absorbed Glass Mat (AGM)
- Lead Acid Low Maintenance
- AGM Low Maintenance

Refer to the examples below to identify the type of battery in your vehicle.

LEAD ACID CONVENTIONAL / DRY SHIPPED AGM BATTERY

- · The battery is NOT activated when packaged
- A removable cap plugs / strip is located on top of the battery
- Distilled water is added as required (Lead Acid only)
- A vent tube is located on the side of battery (Lead Acid only)



LOW MAINTENANCE BATTERY

- · The battery is activated when packaged
- Non removable cap(s) is / are located on top of the battery
- Distilled water or electrolyte is NEVER added





AGM BATTERY MAINTENANCE AND CHARGING

A WARNING

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

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

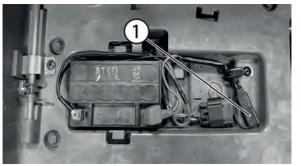
The single most important thing about maintaining a sealed battery is to keep it fully charged. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher. If the voltage falls below 12.5V, charge it immediately, or the battery runs the risk of sulfation and reduced battery life.

If you do not drive the vehicle for more than TWO WEEKS, Polaris recommends using a BatteryMINDer® 2012 AGM - 2 AMP charger (PN 2830438), which can be ordered through your dealer. During charging, place the charger outside of the vehicle and protect it from moisture.

OPTIONAL ACCESSORIES

For added convenience Polaris offers the BatteryMINDer® Accessory Vehicle Power Plug (PN: 2830518) which allows easy connection to the vehicle's battery through the 12V auxiliary outlet.

The auxiliary outlet ① is located under the seat. Use a smartphone to view the power plug accessory via the QR Code® below.





If you plan to store the vehicle for ONE MONTH or longer, remove the battery from the vehicle, then store the battery in a cool and dry location. Continue to maintain the battery with the BatteryMINDer® 2012 AGM - 2 AMP charger.

When using an automatic charger other than a BatteryMINDer® 2012-AGM - 2 AMP charger, refer to the charger manufacturer's instructions for recharging.

If using a <u>constant current charger</u> (instead of BatteryMINDer® 2012 AGM - 2 AMP charger), use the guidelines below. Always verify battery condition before and 1-2 hours after the end of charging.

State of Charge	Voltage (DC)	Action	Charge Time*
100%	12.8-13.0 volts	None, check monthly	None required
75%- 100%	12.6-12.8 volts	May need slight charge, if no charge given, check in 2 weeks	3-6 hours
50%-75%	12.3-12.6 volts	Needs charge	5-11 hours
25%-50%	12.0-12.3 volts	Needs charge	At least 13 hours

0%-25%	12.0 volts or less	Needs charge	At least 20 hours
* Using AGM specific charger at standard amps specified on top of battery			

BATTERY STORAGE

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

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 come in contact with 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.

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

It is recommended to use 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 156.

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.

STABILIZE THE FUEL

- 1. Fill the fuel tank with the recommended fuel.
- 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 removes water from fuel systems, stabilizes fuel and removes carbon deposits from pistons, rings, valves and exhaust systems.
- Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the entire fuel delivery system.

FOG THE ENGINE

- Treat the fuel system with Polaris Carbon Clean. Follow the instructions on the container. Start the engine. Allow it to idle for several minutes so the Carbon Clean reaches the injectors. Stop the engine.
- Remove the spark plug and add 2-3 tablespoons of engine oil. To access the plug hole, use a section of clear 1/4" hose and a small plastic squeeze bottle filled with the premeasured amount of oil.
- 3. Reinstall the spark plug. Torque to specification. See page 123.
- Apply dielectric grease to the inside of the spark plug cap. Do not reinstall the cap onto the plug at this step.

- Turn the engine over several times. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
- If Polaris fuel system additive is not used, fuel tank, fuel lines, and injectors should be completely drained of gasoline.
- 7. Reinstall the spark plug cap to the spark plug.

ENGINE OIL

Change the oil. See page 119.

AIR FILTER / AIR BOX

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 106.

- · Transmission Oil
- Engine Oil

LUBRICATE

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 106.

STORAGE AREA / COVERS

- Make sure tire pressure is at specification.
- 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.
- 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.

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. For high-speed trailering, it is recommended to remove the safety flag.



Wrap the front tie strap through the frame tubes (not through the bumper tubes), or attach a tie-down hook around each of the tubes.





4. Wrap the rear tie strap around the grab bar.

OUTLAW 110

POLARIS OUTLAW 110		
Rider Capacity/Maximum Weight	1 Rider/180 lbs. (81.7 kg)	
Dry Weight	278 lbs. (126 kg)	
Length/Width/Height	61.75" (157 cm) / 36.75" (93 cm) / 38.5" (98 cm)	
Wheel Base	41.5" (105 cm)	
Ground Clearance	4" (10 cm) at swing arm, 7.7" (19.5 cm) at frame	
Engine type	4-Stroke	
Displacement	112cc	
Cooling	Air Cooled	
Bore x Stroke	61 mm x 57.8 mm	

POLARIS OUTLAW 110		
Alternator Output	80 watts	
Compression Ratio	9.5:1	
Lubrication	Wet Sump	
Oil Capacity	30 oz. (900 ml)	
Fuel Capacity	1.7 gallons (6.4 liters)	
Fuel Reserve Capacity	.23 gallons (.86 liters)	
Starting System	Electric	
Fuel System	Electronic fuel injection	
Throttle Body Size	22 mm	
Ignition System	CDI	
Ignition Timing	32° +/- 2° @ 5000 RPM	

POLARIS OUTLAW 110		
Spark Plug / Gap	NGK® CR6HSA / 0.6-0.7 mm	
Drive System Automatic	Automatic CVT	
Final Drive	Chain	
Front Suspension	Single A-arm with 5" (12.7 cm) of travel	
Rear Suspension	Swing arm with 6" (15.2 cm) of travel	
Front/Rear Brakes	Drum	
Parking Brake	Mechanical Lock	
Front Tires	19 x 7 - 8 (3 psi/20.7 kPa)	
Rear Tires	18 x 9.5 - 8 (3 psi/20.7 kPa)	
Brake Light	Standard	
Daytime Running Lights	Standard	

SPORTSMAN 110

POLARIS SPORTSMAN 110		
Rider Capacity/Maximum Weight	1 Rider / 225 lb (102 kg)	
Dry Weight	289 lb (131 kg)	
Length/Width/Height	61.75 in (157 cm) / 36.75 in (93 cm) / 38.5 in (98 cm)	
Wheel Base	41.5 in (105 cm)	
Ground Clearance	4 in (10 cm) at swing arm, 7.7 in (19.5 cm) at frame	
Engine type	4-Stroke	
Displacement	112cc	
Cooling	Air Cooled	
Bore x Stroke	(61 mm) x (57.8 mm)	
Alternator Output	80 watts	

POLARIS SPORTSMAN 110		
Compression Ratio	9.5:1	
Lubrication	Wet Sump	
Oil Capacity	30 oz (900 mL)	
Fuel Capacity	2 gal (7.7 L)	
Fuel Reserve Capacity	0.22 gal (0.85 L)	
Starting System	Electric	
Fuel System	Electronic fuel injection	
Throttle Body Size	(22 mm)	
Ignition System	CDI	
Ignition Timing	32° +/- 2° @ 5000 RPM	
Spark Plug / Gap	NGK® CR6HSA / 0.6-0.7 mm	

POLARIS SPORTSMAN 110		
Drive System Automatic	CVT	
Final Drive	Chain	
Front Suspension	Single A-arm with 5 in (12.7 cm) of travel	
Rear Suspension	Swing arm with 6 in (15.2 cm) of travel	
Front Rack Capacity	15 lb (7 kg)	
Rear Rack Capacity	30 lb (14 kg)	
Front/Rear Brakes	Drum	
Parking Brake	Mechanical Lock	
Front Tires	19 x 7 - 8 (3 psi/20.7 kPa)	
Rear Tires	18 x 9.5 - 8 (3 psi/20.7 kPa)	

POLARIS SPORTSMAN 110	
Brake Light	Standard
Daytime Running Lights	Standard

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

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)

ADDITIVES / MISCELLANEOUS

PART NUMBER	DESCRIPTION
2871326	Carbon Clean

TROUBLESHOOTING

ENGINE DOESN'T TURN OVER

POSSIBLE CAUSE	SOLUTION
Low battery voltage	Recharge the battery to 12.8 VDC.
Loose battery connections	Check all connections and tighten.
Loose solenoid connections	Check all connections and tighten.

ENGINE TURNS OVER, FAILS TO START

POSSIBLE CAUSE	SOLUTION
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start.
Water is present in fuel	Drain the fuel system and refuel.
Old or non-recommended fuel	Replace with fresh recommended fuel.

TROUBLESHOOTING

POSSIBLE CAUSE	SOLUTION
Fouled or defective spark plug	Inspect plug 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.
Clogged Fuel Filter	Your POLARIS dealer can assist.
Low battery voltage	Recharge the battery to 12.8 VDC.
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 authorized dealer can assist.
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs.

ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

POSSIBLE CAUSE	SOLUTION
Fouled or defective spark 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 to 12.8 VDC.
Kinked or plugged fuel tank vent line	Inspect and replace.
Incorrect fuel	Replace with recommended fuel.
Clogged air filter	Inspect and clean or replace.

TROUBLESHOOTING

POSSIBLE CAUSE	SOLUTION
Throttle release switch malfunction	Your POLARIS dealer can assist.
Other mechanical failure	Your POLARIS dealer can assist.

POSSIBLE LEAN FUEL CAUSE	SOLUTION
Low or contaminated fuel	Add or change fuel, clean the fuel system.
Kinked or plugged fuel tank vent line	Inspect and replace.
Low octane fuel	Replace with recommended fuel.
Clogged air filter	Your POLARIS dealer can assist.
Incorrect fuel	Replace with recommended fuel.

ENGINE STOPS OR LOSES POWER

POSSIBLE CAUSE	SOLUTION
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start.
Kinked or plugged fuel vent line	Inspect and replace.
Water is present in fuel	Replace with new fuel.
Fouled or defective spark 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 to 12.8 VDC.
Incorrect fuel	Replace with fresh recommended fuel.
Clogged air filter	Inspect and clean or replace.

TROUBLESHOOTING

POSSIBLE CAUSE	SOLUTION
Throttle release switch malfunction	Your POLARIS dealer can assist.
Overheated engine	Clean engine exterior. Your POLARIS dealer can assist.
Other mechanical failure	Your POLARIS dealer can assist.

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, or other qualified person, but any such transfer will not extend the original term of the warranty. The duration of this warranty may vary by international region based upon local laws and regulations.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to POLARIS within ten days of purchase. Upon receipt of this registration, POLARIS will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be your proof of warranty coverage. If you have not signed the original registration and received the customer copy, please contact your dealer immediately. NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VEHICLE IS REGISTERED WITH POLARIS. Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

WARRANTY COVERAGE AND EXCLUSIONS

LIMITATIONS OF WARRANTIES AND REMEDIES

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

This warranty excludes damages or failures resulting from improper lubrication; improper engine timing; improper fuel; surface imperfections caused by external stress, heat, cold or contamination; operator error or abuse; improper component alignment, tension, adjustment or altitude compensation; snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket or unapproved components, accessories, or attachments; use of unapproved software or calibration; 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:

- · 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

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

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

THE EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT POLARIS' OPTION, REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, COMPONENTS, OR PRODUCTS. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

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

HOW TO OBTAIN WARRANTY SERVICE

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

In the Country where your product was purchased:

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

Outside the Country where your product was purchased:

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

If you move:

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

If you purchase from a private party:

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

EXPORTED PRODUCTS

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

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. Dealership contacts can be found via this website, if needed:

www.polaris.com/en-us/contact

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 100 cm³ 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, 3100 miles (5000 km) of vehicle travel, or 30 calendar months from the date of purchase, whichever comes first. The warranty period for ATVs less than 100 cm³ emissions-certified vehicles starts on the date of purchase by original retail purchaser and continues for a period of 250 hours of engine operation, 1550 miles (2500 km) of vehicle travel, or 30 calendar months from the date of purchase, whichever comes first. This EPA emissions warranty period is extended for at least as long as the standard factory warranty that Polaris provides on the vehicle as a whole. The EPA emissions warranty period does not further extend if you purchase additional warranty coverage in the form of a service contract or other paid warranty extension, but emission-related parts may be covered subject to the terms of any such paid service contract or paid warranty extension.

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

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

- Air-induction system
- Fuel system

- Ignition system
- Exhaust gas recirculation systems

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

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

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 INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

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

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

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

Any qualified repair shop or person may maintain, replace, or repair the emission control devices or systems on your vehicle. An authorized POLARIS dealer, or other qualified person, 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.

The California evaporative emissions control system limited warranty statement below applies to your Off Highway Recreational Vehicle in California if the vehicle is equipped with an evaporative emission control system and is labeled with a Vehicle Evaporative Emissions Control Information label indicating that the vehicle conforms to California evaporative emissions regulations applicable to new off-road sport vehicles, all-terrain vehicles, or off-road utility vehicles. These vehicles are referred to as "OHRV-EVAP" below.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Polaris Industries Inc. is pleased to explain the emission control system warranty on your model year 2018 and newer Off Highway Recreational Vehicle. In California, new off-highway recreational vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. Polaris must warrant the emission control system on your OHRV-EVAP for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your OHRV-EVAP.

Your emission control system may include parts such as the carburetor or fuel injection system, fuel tank, fuel hoses, carbon canister, engine computer and Evaporative Emissions Control System parts listed in the U.S.A. EPA Emissions Limited Warranty. Also included may be hoses, belts, connectors and other emission-related assemblies. Where a warrantable condition exists, Polaris will repair your OHRV-EVAP at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

For model year 2018 and newer OHRV-EVAP models.

For 30 months, or 2500 miles, or 250 hours, whichever comes first, except for evaporative components over the OHRV high-priced warranty value, which is covered for 60 months, or 5000 miles, or 500 hours, whichever comes first. If any emission-related part on your OHRV-EVAP is defective, the part will be repaired or replaced by Polaris.

OWNER'S WARRANTY RESPONSIBILITIES:

As the OHRV-EVAP owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Polaris recommends that you retain all receipts covering maintenance on your OHRV-EVAP, but Polaris cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of a scheduled maintenance.

As an owner you are responsible for presenting your OHRV-EVAP to a Polaris dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As an OHRV-EVAP owner, you should also be aware that Polaris may deny you warranty coverage if your OHRV-EVAP or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

ADD-ON OR MODIFIED PARTS

An add-on or modified part must be compliant with applicable CARB emission control standards. A violation of this requirement is punishable by civil and/or criminal punishment.

If you have any questions regarding your warranty rights and responsibilities, you should contact Polaris Customer Assistance at 1-800-POLARIS (1-800-765-2747) or the California Air Resources Board at 9528 Telstar Avenue, El Monte, CA 91731.

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

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

MAINTENANCE LOG

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

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AWARNING



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR



NEVER USE ON PUBLIC ROADS



NEVER CARRY PASSENGERS



NEVER USE WITH DRUGS OR ALCOHOL

Improper ATV use can result in SEVERE INJURY or DEATH.

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 can 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

For your nearest Polaris dealer, call 1-800-POLARIS (765-2747) or visit www.polaris.com Polaris Industries Inc. 2100 Highway 55 Medina, MN 55340 Polaris Sales Europe Sarl Place de l'Industrie 2 1180 Rolle, Switzerland

SEE FULL OWNER'S MANUAL FOR PRODUCT AND SAFETY INFORMATION. FOLLOW ALL INSTRUCTIONS AND WARNINGS.

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