



POLARIS®

2002

Sportsman 700

**Owner's Safety and
Maintenance**

Manual



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

**WARNING**

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

We've created a web site, just for YOU!!

- Technical tips
- New product introductions
- Event schedules
- Parts and Service Manual information
- Exciting details about The Way Out

Check it out...

www.polarisindustries.com/owner



POLARIS®
The Way Out.

WELCOME

Thank you for choosing Polaris, and welcome to our world-wide family of Polaris enthusiasts. Polaris proudly produces an exciting line of recreational products, including snowmobiles, all-terrain vehicles, personal watercraft, utility vehicles, and Victory motorcycles.

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

Follow the instructions and recommendations in this Owner's Manual for safe and enjoyable operation of your vehicle. Your Owner's Manual contains instructions for minor maintenance. Major repairs are covered in the Polaris Service Manual and should be performed by a Factory Certified MSD (Master Service Dealer) Technician.

Your Polaris dealer knows your vehicle best and is interested in your complete satisfaction. Return to your dealership for all of your service needs during, and after, the warranty period.

Polaris also takes great pride in our PAA (Parts Apparel and Accessories) which are available on our online store www.purepolaris.com. Have your accessories and clothing delivered right to your door!

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⚠️ WARNING

Failure to follow the warnings contained in this manual can result in severe injury or death.

A Polaris ATV Pro 500 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 and understand your owner's manual and all warnings before operating a Polaris ATV Pro 500.

Age Restrictions

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

Know Your Vehicle

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

Safety Training

When you purchased your new ATV, your dealer offered a hands-on safety training course that covers all aspects of vehicle safety. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis.

If you purchased a used Polaris ATV from a party other than a Polaris dealer, you can request this free safety training from any authorized Polaris dealer.

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

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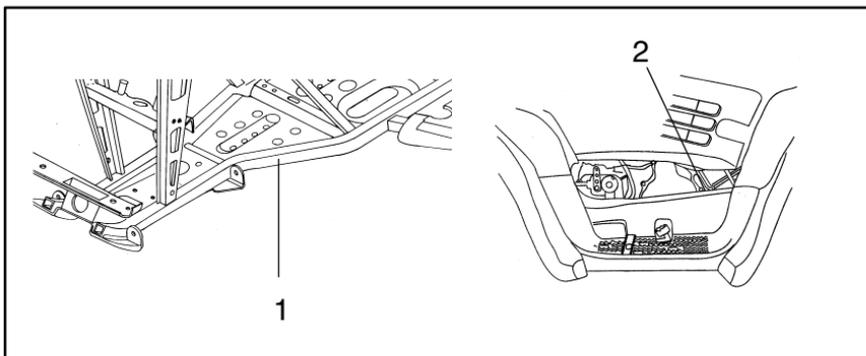
VEHICLE IDENTIFICATION NUMBERS

The frame vehicle identification number (VIN) (1) and engine serial number (2) are important for model identification when registering your vehicle, when obtaining insurance, and when ordering replacement parts. If your vehicle is stolen, these numbers are essential to its recovery and identification.

NOTE: Record your vehicle's ID numbers in the spaces provided.

Remove the spare key and store it in a safe place. Your key can be duplicated only by mating a Polaris key blank with an existing key.

NOTE: If both keys are lost, see your dealer for ignition switch replacement.



Vehicle Model Number:

Frame VIN:

Engine Serial Number:

Dealer Imprint:

VEHICLE SPECIFICATIONS

SPORTSMAN 700	
Gross Vehicle Weight	1240 lbs.
Fuel Capacity	4.75 U.S. Gallons
Towing Capacity	1500 lbs
Hitch Tongue Capacity	150 lbs
Overall Length	85"
Overall Width	46"
Overall Height	47"
Wheelbase	50.75
Ground Clearance	11"
Dry Weight	740 lbs
Minimum Turning Radius	71.5"
Engine Oil Capacity	2 Quarts
Coolant Capacity	3.2 Quarts
Engine	EH68ALOE1
Displacement	683
Bore x Stroke	80 x 68
Pilot Jet	45
Main Jet	155
Needle Jet	P-6(829)
Jet Needle	4HB41-4
Pilot Screw	1.5
Alternator Output	300 Watts @ 3000 rpm
Compression Ratio	9.78:1
Starting System	Electric
Carburetor	BST 34mm
Ignition System	CDI
Ignition Timing	34 BTDC @ 3500 RPM
Spark Plug / Gap	RC7YC / 0.9 mm / .035 in
Lubrication System	Pressurized Wet Sump
Driving System Type	4 Wheel Independent Shaft

VEHICLE SPECIFICATIONS

SPORTSMAN 700	
Shift Type	Side Lever (High, Low, Neutral, Reverse, Park)
Gear Reduction - Low	7.5/1
Gear Reduction - Reverse	5.11/1
Gear Reduction - High	2.89/1
Drive Ratio - Front:	3.82/1
Drive Ratio - Final	3.10/1
Tire Size - Front	25 x 8 - 12
Tire Size - Rear	25 x 11 - 12
Front Brake	Hydraulic Disc
Rear Brake	Hydraulic
Parking Brake	Hydraulic lock, all wheel
Headlight (watts)	1 - Single Beam on Handlebar (50) 2 - Single Beam on Grill (27)
Taillights (watts)	8.26
Brake Light (watts)	26.9
Instrument Cluster	LCD

Clutching and Jetting Charts

Altitude	AMBIENT TEMPERATURE	Below 40° F Below 5° C	+40°F and above +5°C to & above
Meters (Feet)	0-1800 (0-6000)	175	162.5
	1800-3700 (6000-12000)	150	140

Altitude	Shift Weight	Drive Clutch Spring	Driven Clutch Spring	Helix*	
Meters (Feet)	0-1800 (0-6000)	20-56 PN 5631315	Blue/Green PN 7041157	White/Yellow PN 7041635	EBS PN 5132751
	1800-3700 (6000-12000)	20-54 PN 5631214	Blue/Green PN 7041157	White/Yellow PN 7041635	EBS PN 5132751

EBS models require no helix / spring adjustment

Understanding Warnings

The following two pages identify signal words and symbols that appear in this manual. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.



The *safety alert symbol*, on your vehicle or in this manual, alerts you to the potential for personal injury.

WARNING

The *safety alert warning* indicates a potential hazard that may result in serious injury or death.

CAUTION

The *safety alert caution* indicates a potential hazard that may result in minor personal injury or damage to the vehicle.

CAUTION

A *caution* indicates a situation that may result in damage to the vehicle.

NOTE:

A *note* will alert you to important information or instructions.

SAFETY

Key Safety Issues

Protect Your Sport

Know all local, state/province riding laws;

Respect your vehicle;

Respect the environment; and

You will gain the respect of others.

We also advise you to strictly follow the recommended maintenance program as outlined. This preventive maintenance program is designed to ensure that all critical components on this ATV are thoroughly inspected at various intervals.

All information in this manual is based upon the latest product data and specifications available at the time of printing. Polaris Industries Inc. reserves the right to make product changes and improvements which may affect illustrations or explanations.

No part of this manual shall be reproduced or used without the written permission of Polaris Industries Inc.

Illustrations included in this manual are general representations of parts having a similar function. Your model may differ.

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

Key Safety Issues

SERIOUS INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. **Take a training course.** Beginners should receive training from a certified instructor. Contact an authorized Polaris ATV dealer or call Polaris at 1-800-342-3764 to find out about the training courses nearest you.
- Never allow anyone under 16 years of age to operate this ATV.
- Never permit a guest to operate this ATV unless the guest has read this manual and all product labels, and has completed a certified training course.
- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- Never operate an ATV on any public street, road or highway, even a dirt or gravel one.
- Never operate an ATV without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps or other stunts.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- Never operate on excessively rough, slippery or loose terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Always have the ATV checked by an authorized Polaris dealer if it has been involved in an accident.

SAFETY

Key Safety Issues

- Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water which exceeds the recommended maximum depth (pg. 78), go slowly, balance your weight carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.

Key Safety Issues

- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

FOR MORE INFORMATION ABOUT ATV SAFETY, call the Consumer Product Safety Commission at 1-800-638-2772, or Polaris at 1-800-342-3764.

Additional Important Information...

Due to our concern for the safety of our customers and the general public, Polaris hereby strongly recommends and requests that consumers not have installed on a Polaris ATV any equipment which is intended to increase the speed or power of the vehicle; or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the ATV substantially increase the risk of bodily injury. Please be aware that these modifications may create a substantial safety hazard.

Polaris hereby informs you that the warranty on your ATV is terminated if any such equipment has been added to the ATV or any modifications have been made to the ATV which increase its speed or power.

We also advise you to strictly follow the recommended maintenance program outlined in this manual. This preventive maintenance program is designed to ensure that all critical components on the ATV are thoroughly inspected by your dealer at various mileage intervals.

NOTE:

The addition of certain accessories including (but not limited to) mowers, blades, tires, sprayers, or large racks may change the handling characteristics of the ATV.

Be certain any accessories added to this ATV have been approved by Polaris.

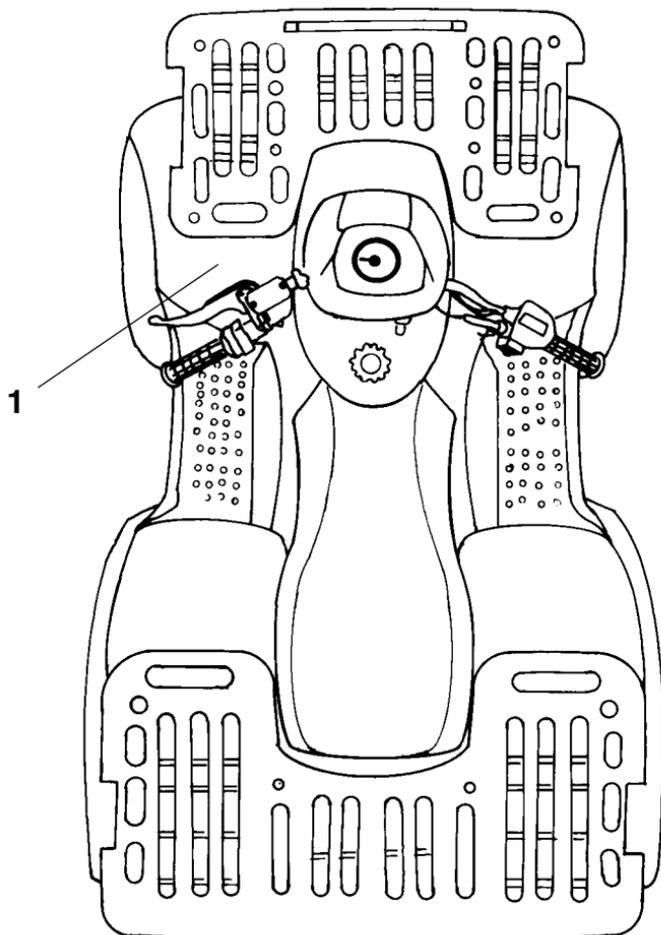
Familiarize yourself with their function and affect on the ATV.

SAFETY

Safety Decals and Locations

NOTE:

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event any decal becomes illegible or comes off, contact your Polaris dealer for a replacement. Any safety decal needing replacement will be provided by Polaris at no charge. The part number is printed on the decal.



Safety Decals and Locations

⚠ WARNING

1 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:

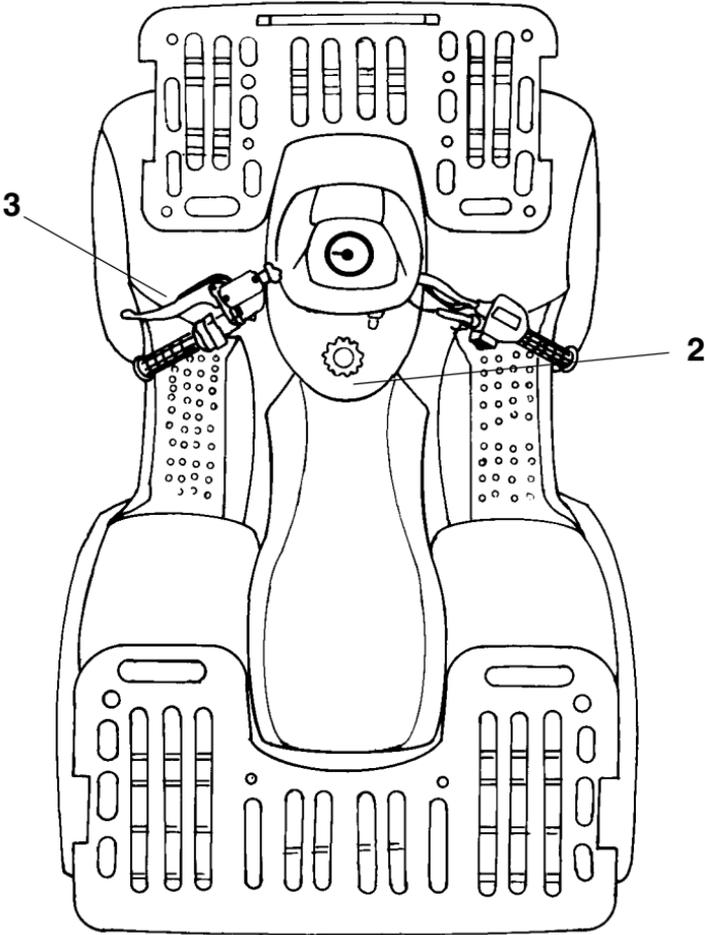
- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns
- avoid paved surfaces - pavement may seriously affect handling and control

LOCATE AND READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND WARNINGS.
IF OWNER'S MANUAL IS MISSING, CONTACT
YOUR POLARIS DEALER FOR A REPLACEMENT.

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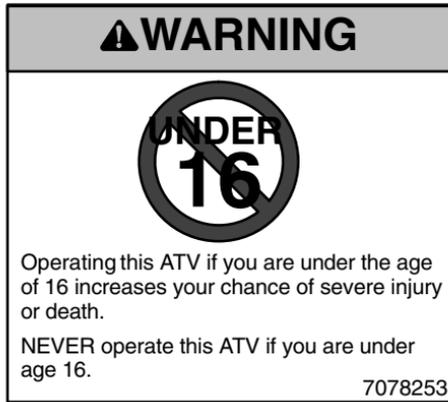
SAFETY

Safety Decals and Locations

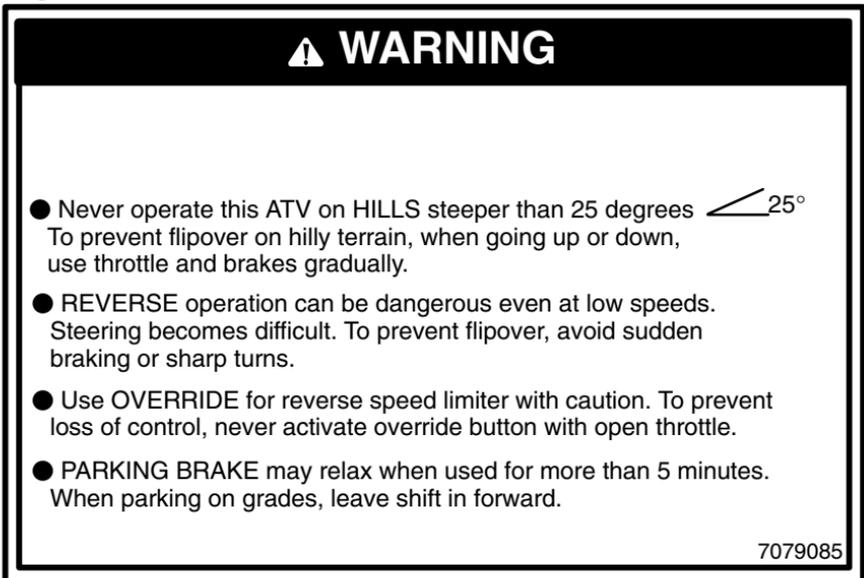


Safety Decals and Locations

2

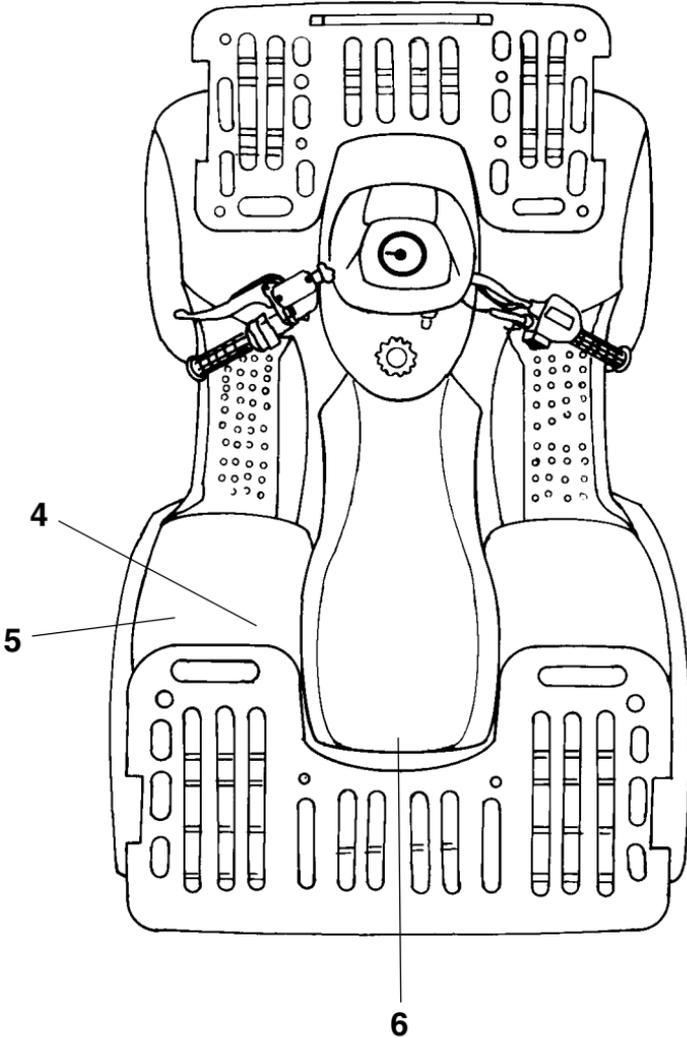


3



SAFETY

Safety Decals and Locations



Safety Decals and Locations



**NO PASSENGER
PASSAGERS INTERDITS**

(on rear of seat)

4



5

⚠ WARNING

IMPROPER TIRE PRESSURE OR OVERLOADING can cause loss of control resulting in SEVERE INJURY OR DEATH.

TIRE PRESSURE IN PSI (KPa): FRONT 5 (34,5) REAR 5 (34,5)

MAXIMUM WEIGHT CAPACITY (Gross Vehicle Weight) INCLUDING MACHINE, DRIVER AND CARGO IS 1200 LBS.

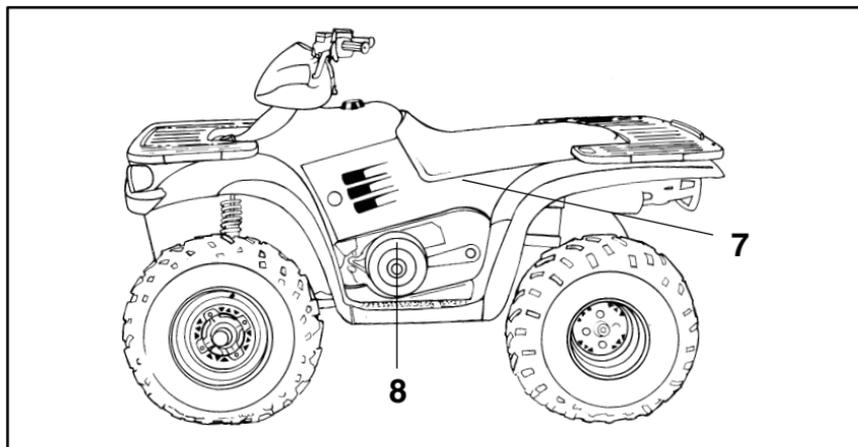
Reduce speed and allow greater distance for braking when carrying cargo. Overloading or carrying tall, off-center, or unsecured loads will increase your risk of losing control. Loads should be centered, carried as low as possible, and firmly secured to the racks. With dual racks, load distribution 1/3 front 2/3 rear is best. For stability on rough or hilly terrain, reduce speed and cargo. Do not block headlight. Be careful if load extends over the side of the rack.

Read Owner's Manual for more detailed loading information

7079084

SAFETY

Safety Decals and Locations



7 (Under Seat)

- Operation of this vehicle without the air filter element will severely damage the engine.
- Clean pre-filter element often, more frequent cleaning required in dusty conditions. Do not operate vehicle without pre-filter.
- Operation of this vehicle without engine breather filter(s) can cause engine damage. Consult owner's manual or dealer for details.

ATTENTION

• Specific carburetor jetting and adjustments are required depending on temperature and altitude. See your Owner's Manual.

Factory setting:
40° to 80° F. at 0-3000 feet
(5° to 27° C. at 0-900 meters).

7079902

⚠ WARNING

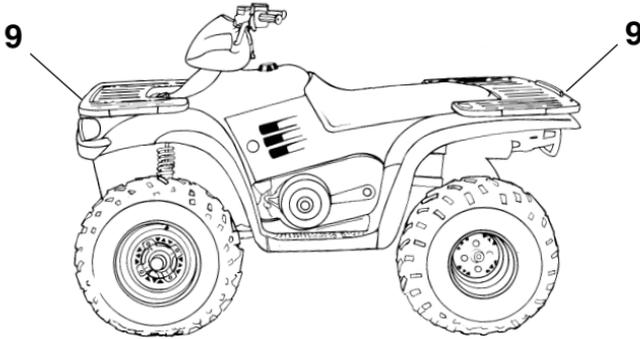
Moving parts hazard under belt-clutch guard. To prevent serious injury, do not operate vehicle with guard removed.

Do not modify engine or clutch. Doing so can cause part failure, possible imbalance, and excessive engine RPM which can result in serious injury or death.

NO STEP

7078689

Safety Decals and Locations



⚠ WARNING

9 DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch.

Maximum Rack Loads: Front 90 lbs. Rear 180 Lbs

7170021

⚠ WARNING

Pushing reverse override button may cause sudden increases in power and traction if too much throttle is applied. Loss of control or forward flipover may result, especially in AWD. See Owner's Manual.

7079604

AWD Models

**ALL WHEEL
DRIVE
SWITCH**

Do not push switch to engage AWD if the rear wheels are spinning. This may cause severe drive shaft and clutch damage. See your Owner's Manual.

7079780



MANUFACTURED BY: POLARIS IND INC.

DATE:

VIN:

THIS VEHICLE IS AN ALL TERRAIN VEHICLE AND IS NOT INTENDED FOR USE ON PUBLIC ROADS.

CE VÉHICULE EST UN VÉHICULE TOUT TERRAIN QUI NEST PAS DESTINE A ETRE UTILISE SUR LES CHEMINS PUBLICS.

CE

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TRAILER MAX WEIGHT:
1225 LBS. (556 KG) ON LEVEL GROUND
850 LBS. (368 KG) UP TO 15° GRADE

HITCH MAX. VERTICAL WEIGHT: 35 LBS. (16KG)

7078261

SAFETY

Safe Riding Gear

Always wear clothing suited to the type of riding you are doing. ATV riding requires special protective clothing which will make you feel more comfortable and reduce chances of injury.

1. Helmet

Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a severe head injury.

Select an approved helmet which meets or exceeds your state's safety standards and bears either the Department of Transportation (DOT) label, the American National Standards Institute label (ANSI z90.1), or the Snell Memorial Foundation label.

2. Eye Protection

Do not depend on sunglasses for proper eye protection. A pair of goggles or helmet face shield offer the best protection for your eyes. They should be kept clean and be of shatterproof design (bearing the markings z2.1 or VESC 8).

3. Gloves

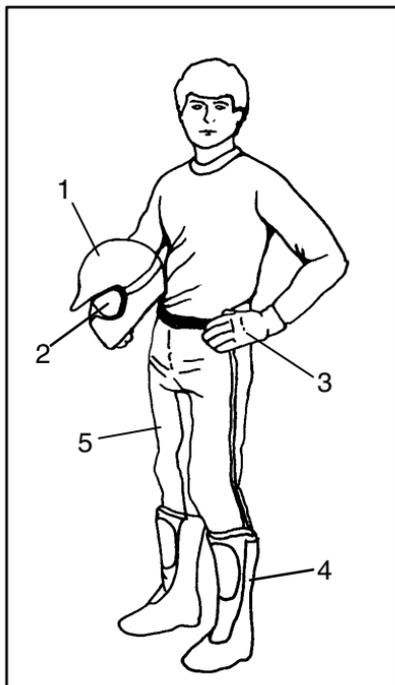
Off-road style gloves with knuckle pads are the best for comfort and protection.

4. Boots

The best footwear is a pair of strong over the calf type boots with heels, such as moto-cross boots.

5. Clothing

To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey and shoulder pads provide the best protection.



Operator Safety

WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course offered by Polaris Industries Inc. They should then regularly practice the skills learned in the course and the operating techniques described in the Owner's Manual.

For more information about the training course, contact an authorized ATV dealer or call Polaris at 1-800-342-3764.

WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.

Even though a child may be within the age group for which some ATVs are recommended, he or she may not have the skills, abilities, or judgment needed to operate the ATV safely and may be involved in a serious accident.

HOW TO AVOID THE HAZARD

No one under 16 should operate a Polaris ATV.

SAFETY

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Carrying a passenger on this ATV.

WHAT CAN HAPPEN

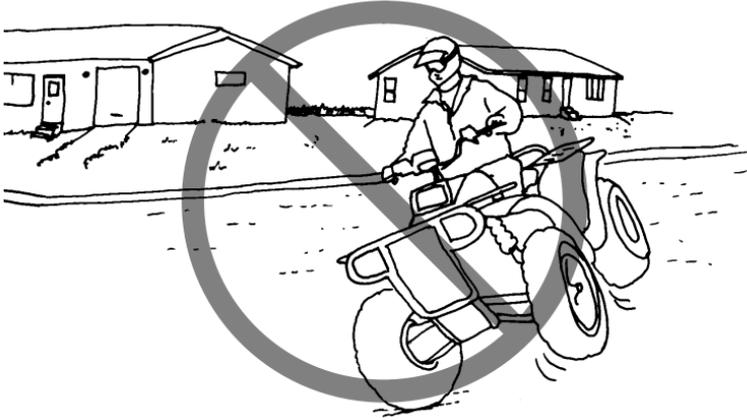
Greatly reduces your ability to balance and control this ATV.
Could cause an accident, resulting in harm to you and/or your passenger.

HOW TO AVOID THE HAZARD

Never carry a passenger. The long seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers.

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

The ATV tires are designed for off-road use. Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

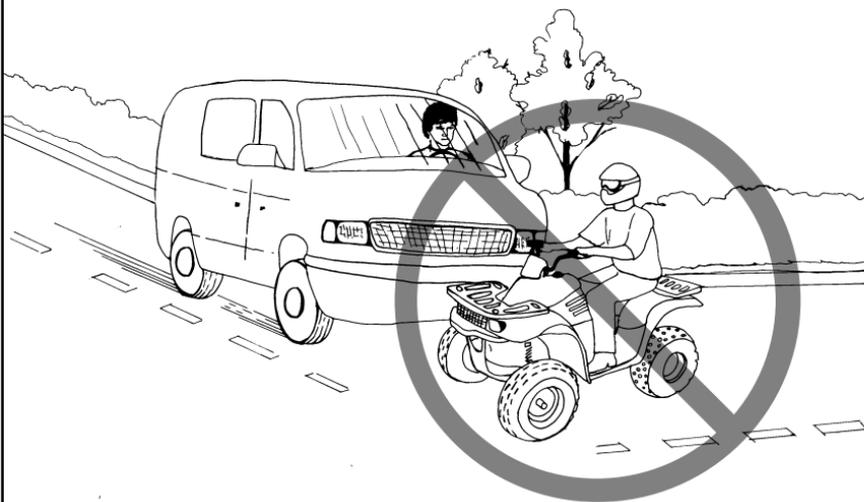
HOW TO AVOID THE HAZARD

Avoid operating the ATV on pavement whenever possible. If you must ride on a paved surface, go slowly and do not make sudden turns or stops.

SAFETY

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Operating this ATV on public streets, roads or highways.

WHAT CAN HAPPEN

You can collide with another vehicle.

HOW TO AVOID THE HAZARD

Never operate this ATV on any public street, road or highway, even a dirt or gravel one.

In many states it is illegal to operate ATVs on public streets, roads and highways.

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Operating this ATV without wearing an approved helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved helmet which fits properly.

You should also wear: eye protection (goggles or face shield); gloves; boots; long-sleeved shirt or jacket; and long pants.

SAFETY

Operator Safety

WARNING

POTENTIAL HAZARD

Operating this ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this ATV.

WARNING

POTENTIAL HAZARD

Operating this ATV at excessive speeds.

WHAT CAN HAPPEN

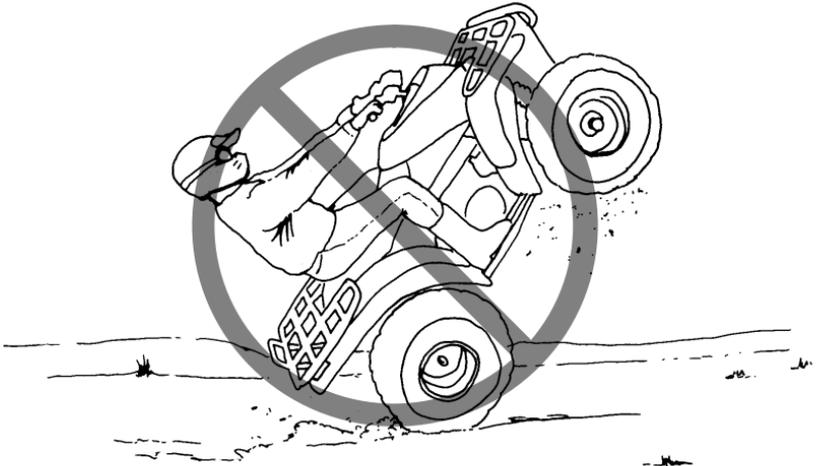
Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

Always travel at a speed which is proper for the terrain, visibility and operating conditions; and your experience.

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Attempting wheelies, jumps and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps. Don't try to show off.

SAFETY

Operator Safety

WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating.

Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

WARNING

POTENTIAL HAZARD

Removing hands from handlebars or feet from footrests during operation.

WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off the ATV. If you remove a foot from the footrest, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.

HOW TO AVOID THE HAZARD

Always keep both hands on the handlebars and both feet on the footrests of your ATV during operation.

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the ATV overturning or going out of control.

HOW TO AVOID THE HAZARD

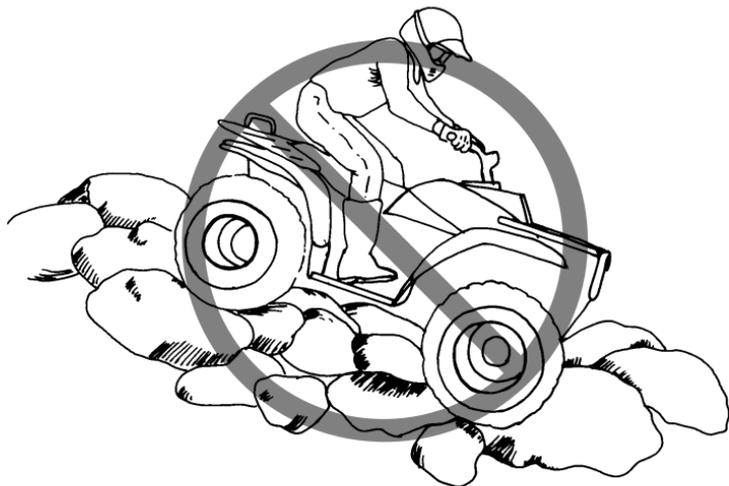
Go slowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the ATV.

SAFETY

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Failure to use extra care when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

Could cause loss of traction or vehicle control, which could result in an accident, including an overturn.

HOW TO AVOID THE HAZARD

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

Always be especially cautious on these kinds of terrain.

Operator Safety

WARNING

POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

ATV could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in the Owner's Manual. See page 72 .

Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.

WARNING

POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

HOW TO AVOID THE HAZARD

Never operate the ATV on hills too steep for the ATV or for your abilities.

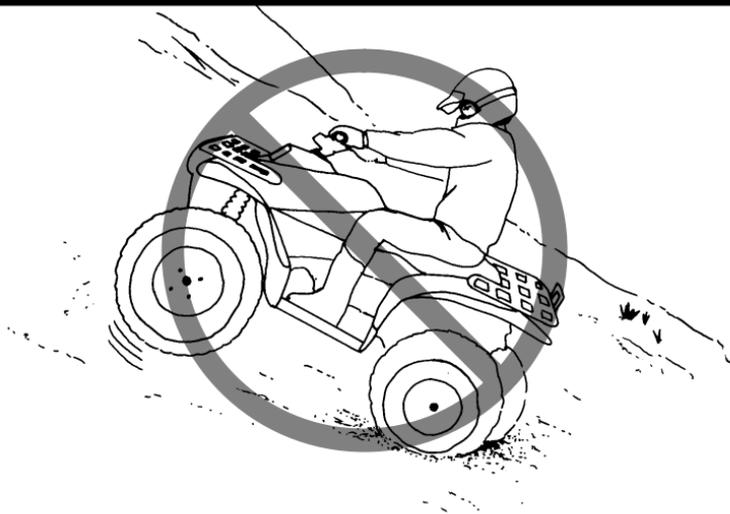
Practice on smaller hills before attempting large hills.

Never operate ATV on hills steeper than 25°.

SAFETY

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in the Owner's Manual. See pages 74 through 77.

Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

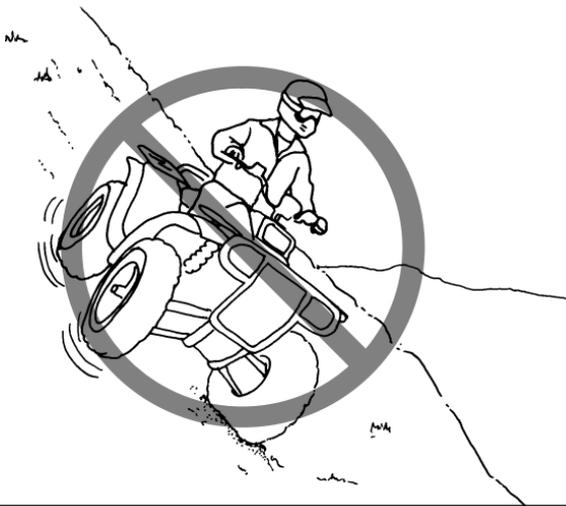
Shift your weight forward.

Never open the throttle suddenly. The ATV could flip over backwards.

Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for going down hills as described in the Owner's Manual. See page 76. **NOTE:** A special technique is required when braking as you go downhill.

Always check the terrain carefully before you start down any hill.

Shift your weight backward.

Never go down a hill at high speed.

Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.

SAFETY

Operator Safety

⚠ WARNING



POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. See page 77. Be very careful when turning on any hill.

Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

Always follow proper procedures as described in the Owner's Manual.

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the ATV.

Operator Safety

WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could result in ATV overturning.

HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock parking brake after you are stopped.

If you begin rolling backwards:

Keep weight uphill; never apply engine power.

Never apply the rear brake while rolling backwards.

Apply the single-lever brake gradually.

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

Dismount on uphill side, or to either side if pointed straight uphill.

Turn the ATV around and remount, following the procedure described in the Owner's Manual. See page 77.



SAFETY

Operator Safety

WARNING

POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as described in the Owner's Manual.

WARNING

POTENTIAL HAZARD

Skidding or sliding.

WHAT CAN HAPPEN

You may lose control of the ATV.

You may also regain traction unexpectedly, which may cause the ATV to overturn.

HOW TO AVOID THE HAZARD

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

Operator Safety

WARNING

POTENTIAL HAZARD

Operating this ATV through deep or fast flowing water.

WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident.

HOW TO AVOID THE HAZARD

Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water which exceeds the recommended maximum depth (pg 78), go slowly, balance your weight carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.

Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

WARNING

POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

You could hit an obstacle or person behind you, resulting in severe injury.

HOW TO AVOID THE HAZARD

When you select reverse gear, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.

SAFETY

Operator Safety

WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, and increases the risk of an accident.

HOW TO AVOID THE HAZARD

Always use the correct size, type, and pressure as specified on page 19.

WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine Polaris Industries Inc. or equivalent components designed for use on this ATV; and should be installed and used according to instructions. If you have questions, consult an authorized Polaris ATV dealer.

Operator Safety

WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

Always follow the instructions in the Owner's Manual for carrying cargo or pulling a trailer. See pages 66 through 68.

WARNING

POTENTIAL HAZARD

Riding on frozen lakes and rivers.

WHAT CAN HAPPEN

Severe injury or death can result if the ATV and/or the operator break through the ice.

HOW TO AVOID THE HAZARD

Never ride your ATV on a frozen body of water before you are sure the ice is thick enough and sound enough to support the machine and its operator, as well as the force that is created by a moving vehicle.

SAFETY

Operator Safety

WARNING

POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as described in the Owner's Manual.

WARNING

POTENTIAL HAZARD

Skidding or sliding.

WHAT CAN HAPPEN

You may lose control of the ATV.

You may also regain traction unexpectedly, which may cause the ATV to overturn.

HOW TO AVOID THE HAZARD

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

Operator Safety

WARNING

After a rollover or an accident, have a qualified service dealer check the complete machine including, but not limited to, brakes, throttle and steering for possible damage.

WARNING

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 overturns and loss of control which could result in severe injury or death.

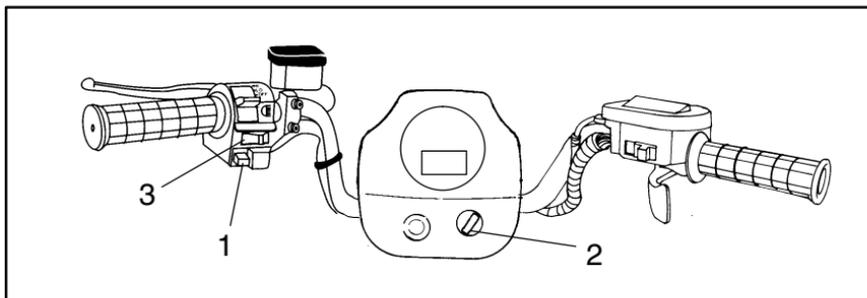
CAUTION

Keep combustible materials away from exhaust system. Fire may result.

CONTROLS AND FEATURES

Controls

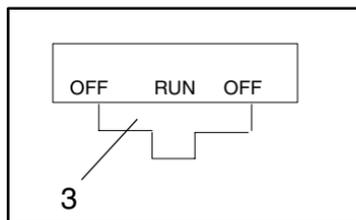
Engine Electrical Switches



⚠ WARNING

Activating the override button while throttle is open can cause loss of control resulting in severe injury or death.

- 1. Override Switch (Reverse Speed Limiter)** - This vehicle is equipped with a reverse speed limiter system. To obtain additional power while backing up, depress the override button. **NOTE:** The override switch also allows activation of AWD (All Wheel Drive) in reverse, if the AWD switch is on. When not in reverse the switch also acts as the “mode button” for the instrument cluster.
- 2. Main Switch** - To start the engine, slide the stop switch to the center “run” position and turn the main key switch clockwise past the “on” position. Release the key when the engine starts.
- 3. Engine Stop Switch** - The engine will not start or run when the switch is in its “off” position. Its purpose is to provide the operator with a quick means of engine shutdown in case of stuck throttle or other emergency. **NOTE:** Both the main switch and the emergency engine stop switch shut off all electrical power to the entire vehicle including lights. To stop the engine, slide the stop switch right or left to the “off” position.



CONTROLS AND FEATURES

Controls

Engine Throttle and Choke

⚠ WARNING

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

Always contact your dealer for service repairs whenever throttle problems arise.

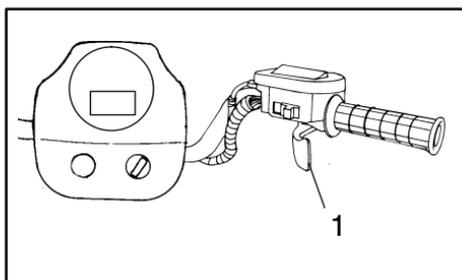
Failure to check or maintain proper operation of the throttle system can result in the throttle lever sticking during riding and cause an accident.

Always check the lever for free movement and return before starting the engine and occasionally during riding.

Throttle Lever

Engine speed and vehicle movement are controlled by pressing the throttle lever. The throttle lever (1) is spring loaded and engine speed returns to idle when the lever is released.

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



Choke

Refer to the engine starting procedure on page 64 for correct choke and throttle settings during starting.

CONTROLS AND FEATURES

Controls

Brakes

The front and rear brakes are applied by squeezing the left side brake lever toward the handlebar. The front and rear brakes are hydraulically activated disc type brakes which are activated by one lever only.

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

WARNING

Never operate the ATV with a spongy feeling brake lever.

Operating the ATV with a spongy brake lever can result in loss of braking. Loss of braking could cause an accident.

CONTROLS AND FEATURES

Controls

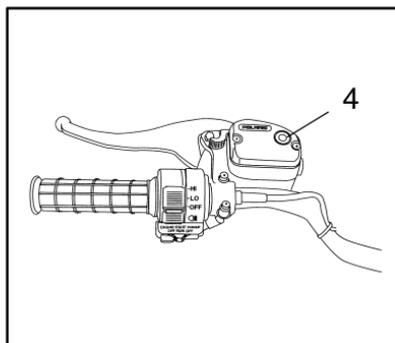
⚠ WARNING

The Electronic Throttle Control (ETC) stops the engine in the event of a throttle system malfunction and is provided for your safety. Do not attempt to modify the ETC system or replace it with any after market throttle mechanisms.

Front and Rear Brakes

The brake fluid in the master cylinder, which is located on the left handlebar, should be checked before each ride. The fluid level can be seen through an indicator window (1) on the top of the master cylinder. This “eye” will appear dark when the fluid level is full. When fluid needs to be added, the eye will be clear.

NOTE: When checking the fluid level, the ATV must be on level ground the the handlebars straight. If the fluid level is low add DOT 3 (PN 2870990) only.



⚠ WARNING

Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of severe injury.

CONTROLS AND FEATURES

Controls

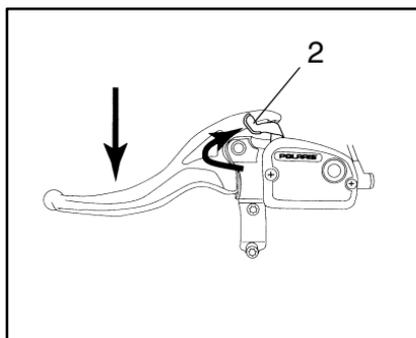
Parking Brake

⚠️ WARNING

Always check to be sure that the parking brake has been disengaged before operating the ATV. An accident could result causing severe injury if the parking brake is left on while the ATV is operated.

Setting the Parking Brake

1. Put the vehicle gear selector into park.
2. Squeeze the left hand brake lever two or three times and hold it.
3. Push the park brake lock (2) into the notches on the master cylinder body. Release the brake lever.
4. To release the parking brake lock, squeeze the brake lever. It will return to its released position.



Important Safeguards

- The parking brake may relax when left on for a long period of time. This could cause an accident.
- **Do not leave the vehicle on a hill depending on the parking brake for more than five minutes.**
- Always put the gear selector in park and block the downhill side of the wheels if leaving the ATV on a hill or park the ATV in a side hill position.

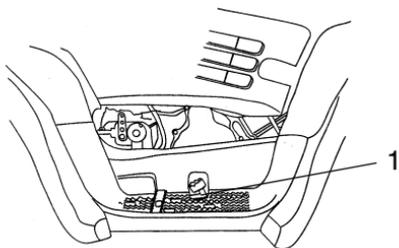
CONTROLS AND FEATURES

Controls

Foot Brake

⚠WARNING

Use caution when applying the foot brake. Do not aggressively apply the foot brake when going forward or the rear wheels may skid and slide sideways causing loss of control.



Your Polaris ATV has a foot brake (1) provided as a safety feature. It is located on the inside of the right floor board and is operated by the right foot. It is intended as a backup to the main brake system, especially if the main system becomes inoperative.

If the rear wheels slide, reduce brake pedal pressure to brake the rear wheels without skidding. Aggressively applying the rear brake when backing down a hill may cause rear tip over.

Brake Fluid Level

It will be necessary to check the brake fluid level for the foot brake. The reservoir is located under the RH rear cab. The fluid should be kept between the maximum and minimum marks.

CONTROLS AND FEATURES

Controls

Fuel System

The fuel tank filler cap (1) is located directly behind the handlebar. Refer to vehicle specifications on page 7 for tank capacity. Use either leaded or unleaded gasoline with a minimum pump octane number of 87 (R+ M/2) octane.

The fuel valve is located on the left side panel and has three positions:

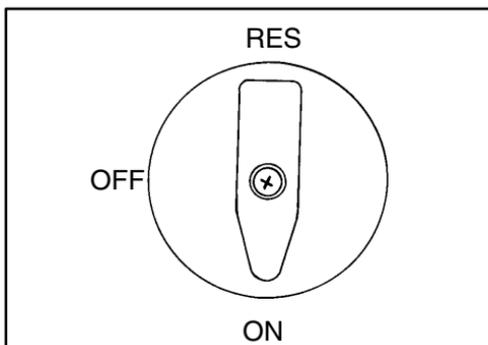
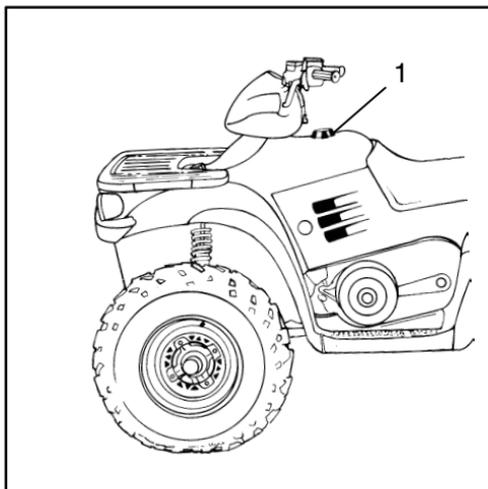
OFF: For vehicle storage and whenever transporting.

ON: For normal operation.

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

NOTE: There is about a 7 to 10 mile (11.2 to 16 km) range on reserve gas. Always refill the gas tank as soon as possible after having used the reserve supply.

Always return valve to “on” position after refueling machine.



Fuel Filter

The Polaris ATV is equipped with an in-line fuel filter.

This filter should be replaced by your dealer after every 100 hours of operation or annually. Do not attempt to clean the fuel filter.

CONTROLS AND FEATURES

Controls

Fuel Safety

WARNING

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped and outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not over fill the tank. Do not fill the tank neck.
- If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- Shut off fuel valve whenever the ATV is stored or parked.

WARNING

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

CONTROLS AND FEATURES

Controls

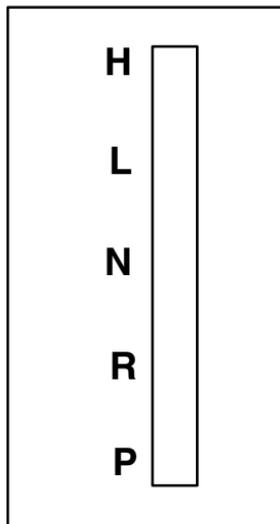
Automatic Transmission Gear Selector

The transmission gear selector is located on the right side of the vehicle directly above and forward of the engine and has five positions: high, low, neutral; reverse, and park.

To shift into “High” or “Park”, you must first depress the foot brake to activate the High/Park lock out mechanism.

When shifting out of “High” or “Park”, it is not necessary to depress the brake.

NOTE: To extend belt life, use low forward gear in heavy pulling situations and in situations where you are operating below 7 miles per hour for extended periods of time.



CAUTION

To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear. Depress the foot brake if shifting into high or park. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Always place the transmission in park with the parking brake locked whenever the vehicle is left unattended.

GENERAL RANGE OPERATION GUIDELINES:

Low Range	Heavy pulling, basic operational speeds less than 7 MPH, riding through rough terrain (swamps, mountains, etc.), low ground speeds.
High Range	High ground speeds, speeds above 7 MPH.

CONTROLS AND FEATURES

Important Safeguards

- Always back slowly avoiding excessive speed and do not use the reverse speed override switch system unless additional power is required for vehicle movement.
- Avoid turning at sharp angles in reverse.
- Avoid backing on steep inclines.

Light Switches and Indicator Lights

⚠ WARNING

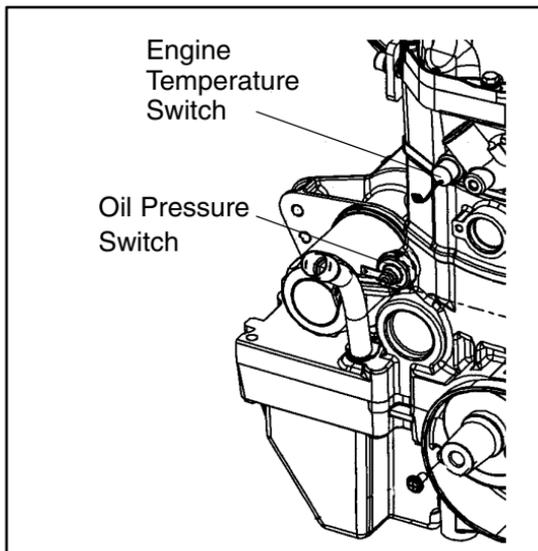
This ATV is not equipped with highway approved lighting. This ATV is designed for off-road use only and must not be ridden on streets or highways. Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness.

Oil Pressure Switch

Some 2002 Sportsman 700 ATVs were produced without an oil pressure switch as standard equipment.

If your model has this switch, it will be located on the LH side of the engine next to the oil filler tube. It is not to be confused with the engine temperature switch that is located on the same side but higher up on the engine.

If the oil pressure switch is not installed on your engine, the oil pressure warning is not active and the diagnostic mode feature is not valid.



CONTROLS AND FEATURES

Features

Exclusive AWD System (All Wheel Drive)

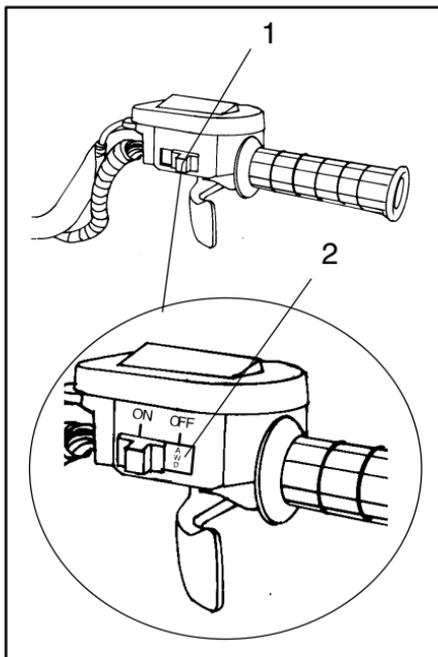
Polaris 4 wheel drive ATVs are equipped with a unique, Polaris exclusive, All Wheel Drive (AWD) system which is activated by a switch (1) on the right handlebar. When the switch is “off” the ATV is in 2 wheel drive at all times. When the switch is “on” the ATV is in All Wheel Drive and the AWD indicator(2) will light.

When in AWD, the front wheels will automatically engage anytime the rear wheels lose traction. When the rear wheels regain traction, the front wheels will automatically disengage.

NOTE: The override switch also allows activation of All Wheel Drive (AWD) in reverse, if All Wheel Drive switch is on.

There is no limit to the length of time the vehicle may remain in All Wheel Drive.

The All Wheel Drive switch may be turned on or off while the vehicle is moving. If the switch is turned off when the front hub is driving it will not release until the rear wheels regain traction. To protect the front drive system, the AWD will not engage if the engine is running higher than 3100 RPM. Once enabled, the AWD system will work at any RPM.



CAUTION

Do not switch on All Wheel Drive if the rear wheels are spinning. This may cause severe drive shaft and hub damage.

CONTROLS AND FEATURES

Features

Exclusive AWD System (All Wheel Drive)

Engage the All Wheel Drive switch before getting into conditions where front wheel drive may be needed. If the rear wheels are spinning, release the throttle before turning the All Wheel Drive switch on. **NOTE:** If the instrument cluster is not registering a proper gear indication, AWD can still be enabled by pressing the mode/override button.

Disengaging Wheel Hubs

When backing or while in All Wheel Drive and then going forward again, the AWD hub may remain engaged. If the hub remains engaged it can be disengaged by stopping, shifting to and moving in reverse. Then proceed in forward again.

NOTE: If the hub remains engaged after following these instructions return the ATV to your dealer for service.

Switches

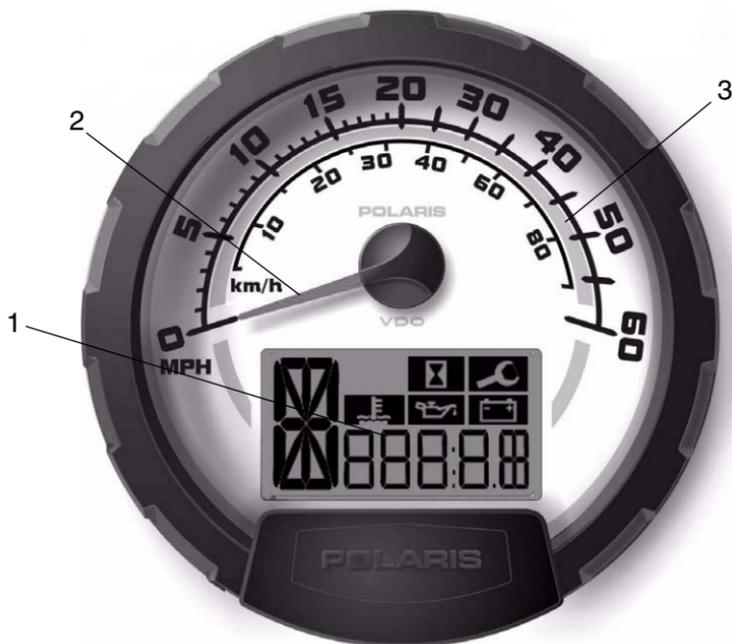
The light switch is located on the left hand handlebar. In addition to turning the lights on and off, it also switches the lights from Hi to Lo on models equipped with Hi-Lo beams. **NOTE:** The lights will not work unless the key is in the on position and shut off switch is in the “run” position.

CONTROLS AND FEATURES

Features

Instrument Cluster

Your Sportsman 700 is equipped with an instrument cluster which senses vehicle speed from the right hand front wheel. The instrument cluster measures distance in miles as well as hours of operation. It also includes a reverse speed limiter function that limits the ATV's speed at approximately 7 to 9 mph. Refer to page 44 for additional information.



- 1 Rider Information Center
- 2 Speedometer needle - in addition to depicting vehicle speed, this needle will flash indicating a fault condition.
- 3 Speedometer

CAUTION

Do not wash the instrument cluster with a high pressure washer. Water under high pressure may enter the instrument cluster and cause damage to the electronic components. Wash the unit by hand or with a garden hose using mild soap. Do not use alcohol to clean the instrument cluster. Do not allow gasoline to remain on the instrument cluster.

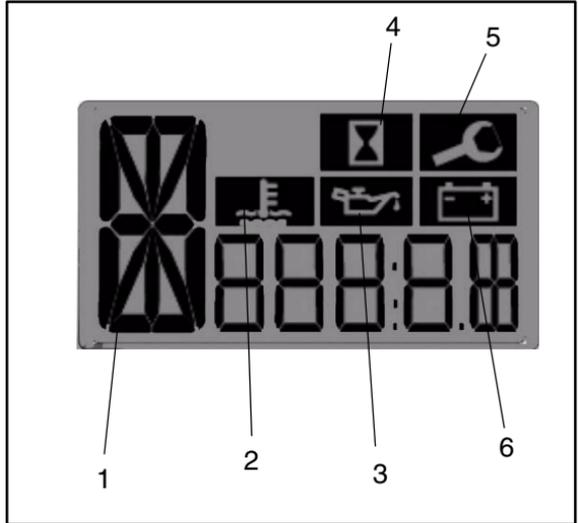
CONTROLS AND FEATURES

Features

Rider Information Center

The rider information center is located in the lower portion of the instrument cluster.

- 1 Gear Indicator -
As the shift lever is moved, this will indicate the gear the machine is in:
H = High Range
L = Low Range
N = Neutral
R = Reverse
P = Park
E or blank = Error
- Most of the time, this error message will indicate you are inbetween gears. It can, however, also indicate the transmission switch is broken.



- 2 High Engine Coolant Temperature
- 3 Low Oil Pressure
- 4 Hour Meter
- 5 Service Interval
- 6 Low Battery and over voltage

NOTE: All segments of the rider information center will light up for 2.5 seconds at start-up.

CONTROLS AND FEATURES

Features

Rider Information Center

The rider information center has 4 standard modes:

Mode 1 - Odometer

Mode 2 - Tripmeter

Mode 3 - Total Service Hours

Mode 4 - Programmable service interval

The reverse override button which is found on the LH handlebar is also the “mode button”. **NOTE:** If using the mode button to program the rider information center, or to toggle through the options, the machine cannot be in reverse.

Mode 1 - Odometer

This will record the amount of miles the ATV travels.

Mode 2 - Trip Meter

To reset the trip meter, select the tripmeter mode. Press and hold the mode button (override button) until the total changes to “0”. **NOTE:** In the Rider Information Center, the trip meter is displayed with a decimal point, the odometer is displayed without a decimal point.

Mode 3 - Hour Meter

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

CONTROLS AND FEATURES

Features

Rider Information Center

Mode 4 - Programmable Service Interval

The purpose of the programmable service interval is to provide the consumer and their dealer with a convenient way to schedule routine maintenance. When your vehicle leaves the factory, this feature is turned “OFF”. You must enable this feature if you intend to use it to track maintenance requirements.

The service interval mode operates by service hours. To set the hours, press and hold the mode/override button until the wrench icon flashes. When it begins to flash, release the button. At this point, each time the button is pressed, the setting will increase by one hour. Pressing and holding the button will allow the numbers to escalate much faster. When the desired time increment is displayed, release the button and wait for the wrench to stop flashing. When the wrench stops blinking, your service hours are set. **NOTE:** If you scroll past the intended number, hold the button down until the count turns over to “0”. At this point you can re-attempt to set the number.

Once the service interval mode is set, it will count down to “0” according to the hours your engine is running. When the counter times out at “0”, the wrench icon will flash quickly for 5 seconds every time the vehicle is started as a reminder that the next periodic maintenance is due.

If the service interval is enabled on your ATV and you wish to turn it off, toggle to the service interval mode. Press and hold the mode button for approximately 7 seconds until the word “OFF” appears in the Rider Information Center.

CONTROLS AND FEATURES

Features

Rider Information Center

Diagnostic Mode

CAUTION

The diagnostic mode is for informational purposes only. Your dealer is fully equipped with the knowledge and special tools required to keep your machine running. Please return your ATV to your dealer for all major repairs.

To enter the diagnostics mode:

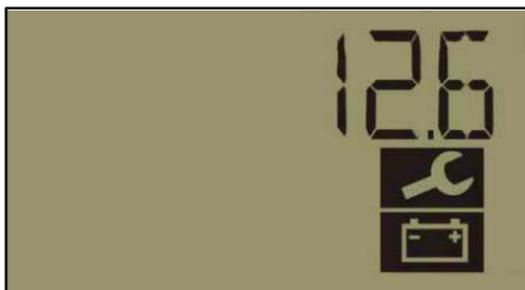
1. Turn the key switch off and wait 20 seconds.
2. Set the park brake and shift the transmission to neutral.
3. Hold the mode/reverse override button as you turn the key switch on.

The initial screen displayed looks similar to this illustration and is referring to the software version currently installed in your machine. This information is only briefly displayed.



Use the mode/reverse override button to toggle through the diagnostic screens.

The first screen indicates battery voltage.



CONTROLS AND FEATURES

Features

Rider Information Center

The second screen provides a full diagnostic indication of the entire oil pressure electrical circuit. Along with the letters PrSSr, there will be a box on the LH side. If the box is high, the pressure is normal. If the box is low, the pressure is low.



Screen three is the tachometer for setting idle speed. If this needs adjustment, please contact your dealer.



As long as you are in the diagnostic mode, the wrench icon will remain lit.

To leave the diagnostic mode, either shift the machine out of neutral or turn the keyswitch off and on. **NOTE:** Any movement of the tires will also take the machine out of the diagnostic mode.

Auxiliary Power Outlet

Auxiliary power outlets provide 12V power for operating accessories such as hand held spot lights and is located on the front headlight pod.

Accessory outlets are available for all models. Contact your Polaris dealer for more information.

OPERATION

Pre Ride Inspection

WARNING

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Use the following checklist to verify your machine is in proper working order each time you ride.

Item/Inspection Procedure

1. Tires - check condition and pressures
2. Fuel and oil tanks - fill both tanks to their proper levels
3. All brakes - check operation, adjustment and fluid level (includes foot brake)
4. Throttle - check for free operation and closing
5. Headlight/Taillight/Brakelight - check operation of all indicator lights and switches
6. Engine stop switch - check for proper function
7. Wheels - check for tightness of wheel nuts and axle nuts; check that axle nuts are secured by cotter pins
8. Air cleaner element - check for dirt; clean or replace
9. Steering - check for free operation noting any unusual looseness in any area
10. Loose parts - visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners
11. Operators helmet, goggles and clothing
12. Engine coolant - check for proper level at the recovery bottle

Break-In Period

The break in period for your new Polaris ATV is defined as the first ten hours of operation, or the time it takes to use the first two tanks full of gasoline. No single action on your part is as important as a proper break in period. Careful treatment of a new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.

CAUTION

Use only Polaris Premium 4 All Season synthetic oil, or API certified "SH" oil. Never substitute or mix oil brands. Serious engine damage and voiding of warranty can result.

Do not operate at full throttle or high speeds for extended periods during the first three hours of use. Excessive heat can build up and cause damage to close fitted engine parts.

1. Fill fuel tank with either unleaded or leaded fuel which has a minimum pump octane number of $87 = \frac{R + M}{2}$.
2. Check oil reservoir level indicated on dipstick. Add oil if necessary.
3. Drive slowly at first. Select an area which is open and will give you room to familiarize yourself with vehicle operation and handling.
4. Vary the throttle positions. Do not operate at sustained idle or sustained high speed.
5. Perform regular checks on fluid levels, controls and all important areas on the vehicle as outlined earlier on the daily pre-ride inspection checklist found on page 62.
6. Pull only light loads.
7. Break in oil and filter. Change at 20 hours or 200 miles.



OPERATION

Starting the Engine

Procedure for Starting a Cold Engine

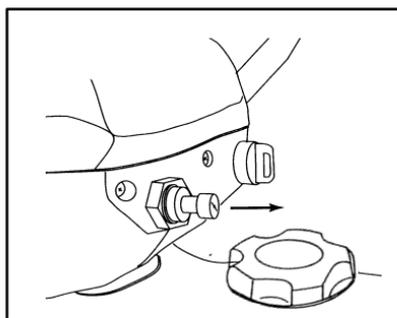
⚠️ WARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.

CAUTION

You must allow your vehicle adequate warm up time before operating or engine damage could result.

1. Place the transmission in neutral or park and reset the parking brake.
2. Turn the fuel tank valve to ON.
3. Sit on the vehicle.
4. Pull the choke out all the way.
5. Turn the engine stop switch to RUN.
6. Turn the ignition key past the "ON" position to engage the starter.



NOTE: the choke is on "FULL" when the knob is pulled out all the way. The choke is "OFF" when the knob is pushed in. This is a variable choke and can be adjusted gradually, depending on how much choke is needed for starting.

7. Do not press the throttle while starting the engine.
8. Activate the starter for a maximum of five seconds, releasing the key when the vehicle starts. If engine does not start, release the starter and wait five seconds; then activate the starter for another five seconds. Repeat this procedure until engine starts.

Starting the Engine

After the Engine Starts

1. If the engine slows or stops, use of the choke at half way in will allow proper engine warm up.
2. Vary the engine RPM slightly with the throttle to aid in warm up until the engine idles smoothly. Then push the choke all the way in.

Cold Weather Operation

Polaris offers an engine heater kit for cold operation.

If you use your ATV all year round, it is important to check your oil level frequently. A rising oil level could indicate the accumulation of water in the bottom of the oil tank. Water in the bottom of the tank can lead to engine damage and must be drained.

Water accumulation increases as outside temperature decreases.

The cold weather kit not only reduces moisture accumulation, but the heater will provide quicker warm-ups and easier starting.

See your dealer for more information on cold weather operation and if the heater kit will enhance your cold weather operation.

OPERATION

Carrying Loads

Your ATV has been designed to carry a certain amount of load. CARGO WEIGHT should be evenly distributed (1/3 on the front and 2/3 on the rear) and mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.

Maximum trailer weight - 1500 (680 kg) on level ground only with a maximum vertical hitch weight of 150 lbs. (68.04 kg). **NOTE:** The rear rack capacity and tongue weight should not exceed 180 lbs.

Maximum grade while trailer towing - 15°. Do not tow any trailer on a grade steeper than 15° (850 lbs on grades up to 15°).

Your machine is equipped with a front rack, take care when loading. Improper loading of the front rack can obstruct the headlight beam, reducing night visibility. Do not obstruct the headlight beam with cargo.

Use of low forward gear is recommended in heavy pulling situations to extend belt life.

Carrying Loads

⚠ WARNING

Correct loading of this vehicle is necessary to maintain proper stability and operating characteristics. Overloading or incorrect positioning of the load affects the vehicle's turning, stopping distance and stability. Failure to follow loading requirements could cause severe injury or death.



Important Safeguards

To reduce risk of injury or machine damage when carrying loads, read and follow the warnings listed below:

- **REDUCE SPEED AND ALLOW GREATER DISTANCE FOR BRAKING WHEN CARRYING CARGO.**
- **CARGO WEIGHT DISTRIBUTION** should be 1/3 on the front rack and 2/3 on the rear rack. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Carrying loads on one rack only increases the possibility of vehicle tip over.
- **HEAVY LOADS CAN CAUSE BRAKING AND CONTROL PROBLEMS.** Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations which may require backing downhill.
- **ALL LOADS MUST BE SECURED BEFORE MOVING VEHICLE.** Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.

OPERATION

Carrying Loads

- **LOADS MUST BE CARRIED AS LOW ON THE RACKS AS POSSIBLE.** Carrying loads high on the racks raises the center of gravity of the vehicle and creates a less stable operating condition. When cargo loads are carried high on the racks, the weight of the loads must be reduced to maintain stable operating conditions.
- **OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS.** When handling off-centered loads which cannot be centered, securely fasten load and operate with extra caution. Always attach the tow load to the hitch point designated for your ATV.
- **EXTREME CAUTION MUST BE USED** when operating with loads extending over the rack sides. Stability and maneuverability may be adversely affected, causing the machine to overturn.
- **DO NOT BLOCK THE FRONT HEADLIGHT BEAM** when carrying loads on the front rack.
- **DO NOT TRAVEL FASTER THAN THE RECOMMENDED SPEEDS.** Vehicle should never exceed 10 mph (16 kph) while towing a load on a level grass surface. Vehicle speed should never exceed 5 mph (8 kph) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.

NOISE EMISSION CONTROL SYSTEM REGULATION

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED!

U.S. Federal law prohibits the following acts or the causing thereof:

(1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or

(2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. Removal or alteration or the puncturing of the muffler or any engine component which conducts removal of engine exhaust gases.
2. Removal or alteration or the puncturing of any part of the engine air induction system.
3. Replacement of any vehicle parts with parts not in compliance with federal regulations.
4. Lack of proper maintenance.

CAUTION

Remember, exhaust system components are very hot during and after use of ATV. Serious burns can result if hot components are touched.

- Do not touch exhaust system components. Serious burns can result.
- Be especially careful when traveling through tall grass. The potential for fire exists.

USFS Approved Spark Arrestor

Most Polaris ATVs have mufflers that were tested and approved in accordance with the USFS Forest Service Standard 5100-1A.

RIDING

Pre Ride Inspection

WARNING

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Use the following checklist to verify your machine is in proper working order each time you ride.

Item/Inspection Procedure

1. Tires - check condition and pressures
2. Fuel and oil tanks - fill both tanks to their proper levels
3. All brakes - check operation, adjustment and fluid level (includes foot brake)
4. Throttle - check for free operation and closing
5. Headlight/Taillight/Brakelight - check operation of all indicator lights and switches
6. Engine stop switch - check for proper function
7. Wheels - check for tightness of wheel nuts and axle nuts; check that axle nuts are secured by cotter pins
8. Air cleaner element - check for dirt; clean or replace
9. Steering - check for free operation noting any unusual looseness in any area
10. Loose parts - visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners
11. Operators helmet, goggles and clothing
12. Engine coolant - check for proper level at the recovery bottle

Safe Riding Tips

Riding Position

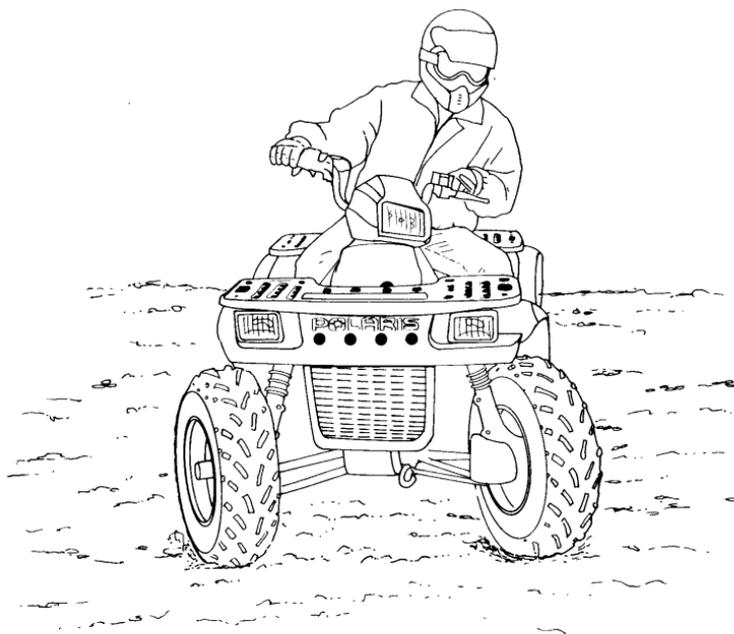


1. Sit upright with both feet on the footrests and both hands on the handlebars.
2. After starting the engine and allowing it to warm up, shift the transmission into gear.
3. Check your surroundings and determine your path of travel.
4. Release the parking brake.
5. Slowly depress the throttle with your right thumb and begin driving. Vehicle speed is controlled by the amount of throttle opening.
6. Drive slowly, practice maneuvering and using the throttle and brakes on level surfaces.

RIDING

Safe Riding Tips

Making Turns



Practice making turns at slow speeds.

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. The same leaning technique should be used for turning in reverse.

▲WARNING

Avoid turning at sharp angles in reverse as tipover and severe injury may result.

Safe Riding Tips

Riding on Slippery Surfaces



Whenever riding on slippery surfaces such as wet trails or loose gravel, or during cold freezing weather, special attention must be paid to prevent vehicle turnover. Always:

1. Slow down when entering slippery areas.
2. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns which can cause skids.
3. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.
4. Driving with All Wheel Drive (All Wheel Drive) engaged can assist in controlling the vehicle in slippery areas.
5. Never apply brakes during a skid. Complete loss of ATV control can result.
6. Do not operate on excessively slippery surfaces if possible to avoid.
7. Always reduce speed and use additional caution.

CAUTION

Severe damage to drive train may occur if the Demand Drive is engaged while the wheels are spinning.

⚠️ WARNING

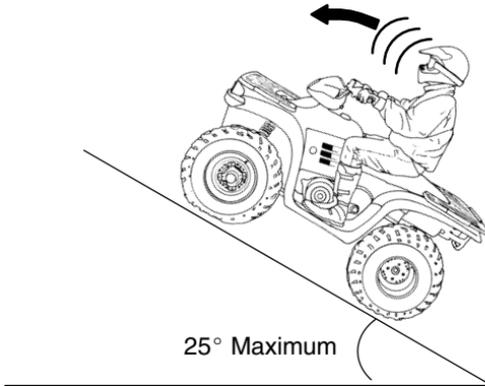
Failure to exercise care when operating the ATV on slippery surfaces can be dangerous.

Loss of tire traction and vehicle control can result in an accident, including an overturn.

RIDING

Safe Riding Tips

Traveling Uphill



⚠️ WARNING

Exercise extreme caution when traveling in hilly terrain. Braking and handling are greatly affected. Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

Whenever traveling uphill always travel straight uphill and:

1. Avoid steep hills (25° maximum).
2. Keep both feet on the footrests.
3. Transfer your weight forward.
4. Proceed at a steady rate of speed and throttle opening.
5. Remain alert and be prepared to take emergency action. This may include quick dismounting of the ATV.

Safe Riding Tips

Sidehilling



Sidehilling your ATV is one of the most dangerous types of riding and should be avoided if possible. In the event you do enter into a situation where sidehilling is necessary, always:

1. Slow down.
2. Lean into the hill transferring your upper body weight toward the hill while keeping your feet on the footrests.
3. Steer slightly into the hill to maintain vehicle directions.

If vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side immediately!

⚠️ WARNING

Improperly crossing hills or turning on hills can be dangerous. Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

RIDING

Safe Riding Tips

Traveling Downhill



Whenever descending a hill, always:

1. Drive directly downhill.
2. Transfer your weight to the rear of the vehicle.
3. Slow down.
4. Apply the brakes slightly to aid in slowing.

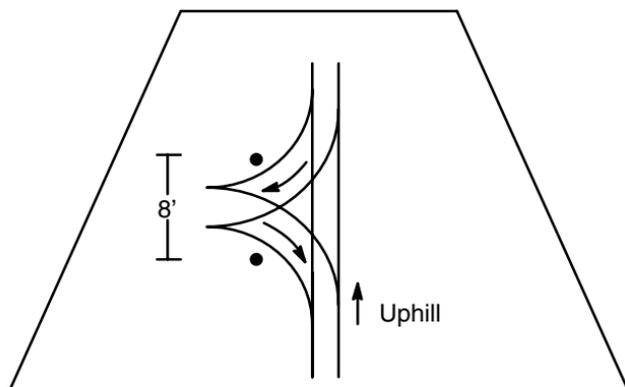
Familiarize yourself with the foot brake and its use in the event loss of normal service brakes occurs.

▲WARNING

Do not travel at excessive speeds. It is dangerous and can cause loss of vehicle control and tipping, resulting in severe injury or death.

Safe Riding Tips

Turning Around on a Hill



If the ATV stalls while climbing a hill, never back it down the hill! One maneuver which can be used when it is necessary to turn around while climbing a hill is the K-turn.

1. Stop and lock the parking brake while maintaining body weight uphill.
2. Leave transmission in forward and shut off engine.
3. Dismount on left or uphill side of ATV.
4. Staying uphill of ATV, turn handlebars full left (while facing front of ATV).
5. While holding service brake, release parking brake lock and slowly allow ATV to roll around to your right until ATV is pointing across the hill or slightly downward.
6. Lock the parking brake and remount ATV from the uphill side, maintaining body weight uphill.
7. Restart engine with transmission still in forward, release parking brake, and proceed slowly, controlling speed with the service brake, until ATV is on reasonably level ground.

⚠️ WARNING

Avoid climbing steep hills. Loss of vehicle control or overturning of the ATV could occur resulting in severe injury or death.

RIDING

Safe Riding Tips

Crossing Streams



Your Polaris ATV can operate through water up to maximum recommended depths reaching the footrests. Before fording streams always:

1. Determine water depths and current.
 2. Choose a crossing where both banks have gradual inclines.
 3. Proceed slowly, avoiding rocks and obstacles if possible.
 4. After crossing, dry the brakes by applying light pressure to the lever until braking action is normal.
- Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water which exceeds the recommended maximum depth, go slowly, balance your weight carefully, avoid sudden movements, maintain a slow and steady forward motion. Do not make sudden turns or stops and do not make sudden throttle changes.

NOTE: After running the vehicle in water, it is **critical** your machine is serviced as outlined in the maintenance chart beginning on page 82. The following areas need special attention: engine oil, transmission oil, front and rear gearcases, and all grease fittings.

If your vehicle becomes immersed, and it is impossible to take it to a dealer before starting, follow the steps described on page 121. It is still important the vehicle be serviced by your dealer at the first opportunity.

Safe Riding Tips

Trail Obstacles



Keep Alert!

Look ahead and learn to read the trail as you ride. Stay on the right side of the trail, if possible, and be constantly alert for hazards such as logs, rocks and low hanging branches.

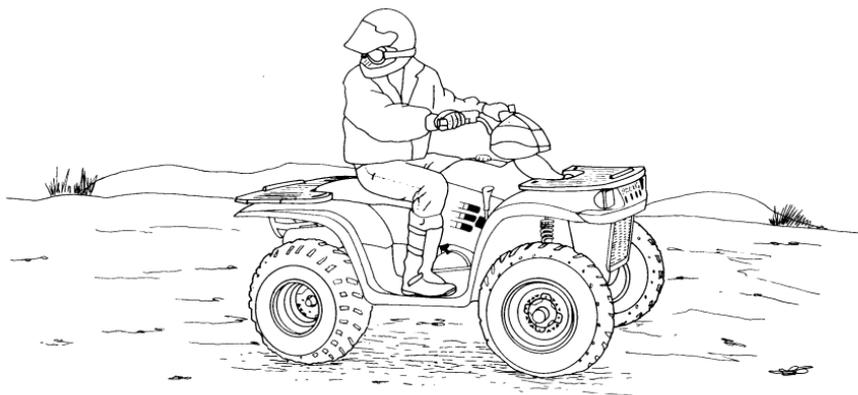
⚠️ WARNING

Not all obstacles are visible. Travel with caution on trails. severe injury or death can result if your machine comes in contact with a hidden obstacle.

RIDING

Safe Riding Tips

Backing Up



1. Avoid backing up on steep inclines.
2. Always back slowly.
3. When in reverse, apply the brakes lightly for stopping.
4. Avoid turning at sharp angles in reverse.
5. Never open the throttle suddenly while backing.
6. Never activate override button while throttle is open. Loss of control may result.

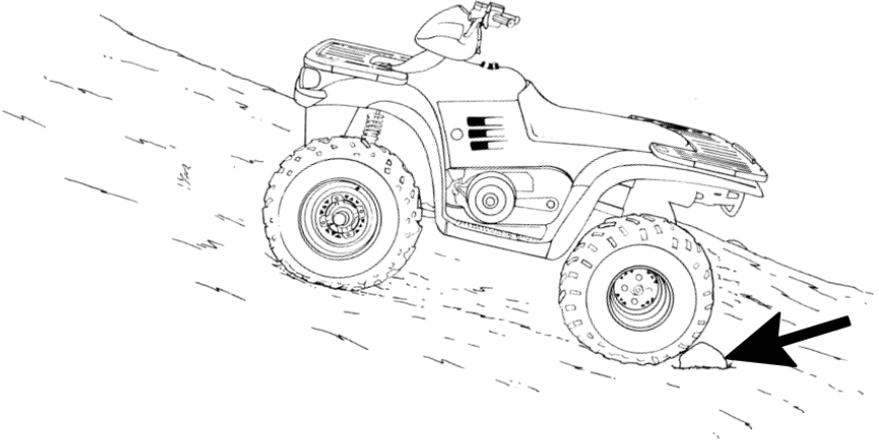
NOTE: Most Polaris ATVs are equipped with a reverse speed limiter. The override button should be used with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle. Only open the throttle enough to maintain a desired speed.

CAUTION

Opening the throttle more than required may cause excessive fuel to build in the exhaust, resulting in engine popping and/or engine damage.

Safe Riding Tips

Parking on an Incline



Whenever the Vehicle is Parked

1. Turn the engine off.
2. Place the transmission in park.
3. Set the parking brake.
4. Avoid parking on an incline. If it is necessary to park on an incline, always block the rear wheels on the down hill side as shown above.
5. Shut off fuel supply.

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication intervals of important components are explained in the following chart on the following pages.

Maintenance intervals are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use, such as operation in wet or dusty areas, should be inspected and serviced more frequently. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Inspect, clean, lubricate, adjust or replace parts as necessary. **NOTE:** Inspection may reveal the need for replacement parts. Always use genuine Polaris parts available from your Polaris dealer.

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

CAUTION

Due to the nature of the adjustments marked with a ■ on the following chart, it is recommended that service be performed by an authorized Polaris dealer.

► **More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.**

★ **Emission Control System Service (California - 4-Cycle) NOTE:** Some 4-Cycle models may have an additional California -only emissions warranty.

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

	Item	Hours or Miles	When	Remarks
	Brake System	Pre-ride	Pre-ride	Pre-ride inspection item
	Foot Brake	Pre-ride	Pre-ride	Pre-ride inspection item
	Tires	Pre-ride	Pre-ride	Inspect daily, pre-ride inspection item
	Wheels	Pre-ride	Pre-ride	Pre-ride inspection item
	Frame nuts, bolts, fasteners	Pre-ride	Pre-ride	Pre-ride inspection item
▶ ★	Air Filter - Pre-Cleaner	Pre-ride	Pre-ride	Inspect-Clean
	Coolant/Level Inspection	Pre-ride	Pre-ride	Replace engine coolant every two years
	Fuel and oil tanks	Pre-ride	Pre-ride	Fill to proper levels
	Throttle	Pre-ride	Pre-ride	Check operation
	Lights	Pre-ride	Pre-ride	Check operation
	Engine Stop Switch	Pre-ride	Pre-ride	Check operation
	Steering	Pre-ride	Pre-ride	Check for free operation
▶	Air Box Sediment Tube	Pre-ride	Pre-ride	Drain deposits whenever visible
	Headlamp Inspection	Pre-ride	Pre-ride	Check operation daily; apply Polaris dielectric grease to connector when replaced
	Tail lamp inspection	Pre-ride	Pre-ride	Check operation daily; apply Polaris dielectric grease to socket when replaced
▶ ★	Air Filter - Main Element	Weekly	Weekly	Inspect-Replace if necessary

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

CAUTION

Due to the nature of the adjustments marked with a ■ on the following chart, it is recommended that service be performed by an authorized Polaris dealer.

► **More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.**

★ Emission Control System Service (California - 4-Cycle) **NOTE:** Some 4-Cycle models may have an additional California -only emissions warranty.

	Item	Hours or Miles	When	Remarks
►	Transmission Oil Level	20 hrs	Monthly	Inspect monthly; change annually
	Battery	20 hrs	Monthly	Check Terminals/clean/ check fluid level
► ★	Engine breather filter (4-cycle)	20 hrs	Monthly	Inspect-replace annually and as needed
■	Brake pad wear	20 hrs	Monthly	Inspect periodically
►	Front and Rear Gear-case Oil (shaft drive)	100 hrs	Monthly	Check monthly and change annually
►	General Lubrication	50 hrs	3 months	Lubricate all fittings, pivots, cables, etc.
► ★	Engine Oil - Level/Change (4-Cycle)	100 hrs / 1000 miles	6 months	Check Level Daily; Break in Service at 1 month. Change oil more often in cold weather use.

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

	Item	Hours or Miles	When	Remarks
▶ ★	Oil Filter(4-Cycle)	100 hrs / 1000 miles	6 months	Replace with oil change
★	Engine breather hose (4-cycle)	100 hrs	6 months	Inspect
	Carburetor Float Bowl	50 hrs	6 months	Drain bowl periodically and prior to storage
■	Throttle Cable/ETC Switch	50 hrs	6 months	Inspect-adjust, lubricate, replace if necessary; pre- ride inspection item
★	Choke (Enricher) Cable	50 hrs	6 months	Inspect, lubricate, replace if necessary
	Coolant strength/ pressure test system	100 hrs	6 months	Inspect strength seasonal- ly; pressure test system annually
■	Drive belt	50 hrs	6 months	Inspect, replace if neces- sary
▶	Steering	50 hrs	6 months	Inspect daily, lubricate
▶	Front Suspension	50 hrs	6 months	Inspect-lubricate, tighten fasteners
▶	Rear Suspension	50 hrs	6 months	Inspect, tighten fasteners
★	Spark Plug	100 hrs	12 months	Inspect-replace if neces- sary
▶	Rear Axle	50 hrs	6 months	Inspect bearings, Lube

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

CAUTION

Due to the nature of the adjustments marked with a ■ on the following chart, it is recommended that service be performed by an authorized Polaris dealer.

► **More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.**

★ Emission Control System Service (California - 4-Cycle) **NOTE:** Some 4-Cycle models may have an additional California -only emissions warranty.

	Item	Hours or Miles	When	Remarks
■ ★	Ignition Timing	100 hrs	12 months	Inspect and adjust as needed
■ ★	Fuel System	100 hours	12 months	Check for leaks at tank cap, lines, fuel valve, filter, pump and carburetor. Replace lines every two years.
■	Fuel Filter	100 hrs	12 months	Replace annually
	Radiator	100 hrs	12 months	Inspect/clean external surface
	Cooling System hoses	100 hrs	12 months	Inspect
	Spark arrestor	100 hrs	12 months	Clean out
■	Clutches (drive and driven)	100 hrs	12 months	Inspect, clean

MAINTENANCE AND LUBRICATION

Periodic Maintenance Schedule

	Item	Hours or Miles	When	Remarks
	Engine Mounts	100 hrs	12 months	Inspect
■ ★	Valve Clearance	100 hrs	12 months	Inspect/Adjust
■	Brake fluid	200 hrs	24 months	Change every two years
■	Front wheel bearings	300 hrs	36 months	Inspect, replace if necessary
★	Idle Speed	As Required	As Required	Adjust
■	Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
	Headlight Aim	As required	As required	Adjust if necessary

MAINTENANCE AND LUBRICATION

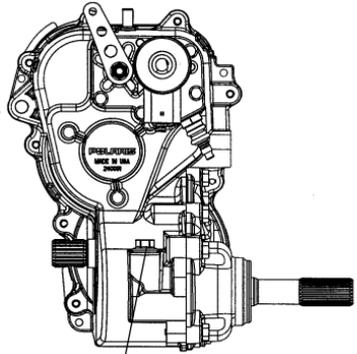
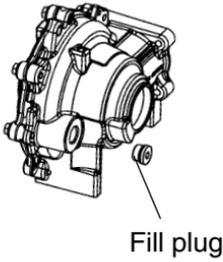
Lubrication Recommendations

Item	Lube Rec	Method	Frequency*
(1) Engine Oil	Polaris Premium 4 Synthetic 0W40	Add to proper level on dipstick. See page 96.	Check level daily.
(2) Brake Fluid	DOT 3 Only	Maintain level between fill lines. See page 47.	As required; change every two years or 200 hours
(3) Transmission Oil	Polaris Premium Synthetic gear case lube	See Page 98	Change annually or at 100 hours
(4) Front Gearcase Oil	Premium Hub Lube	See Page 99	Change annually or at 100 hours
(5) Rear Gearcase Oil	GL5 80-90 Weight Gear Lube		Change Annually or at 100 hours
(6) Front Prop Shaft U-joints	Grease+	Locate Fittings and Grease	Every 3 months or 50 hours
(7) Front Propshaft Yoke	Grease+	Locate fittings and grease - 3 pumps maximum	Every 3 months or 50 hours

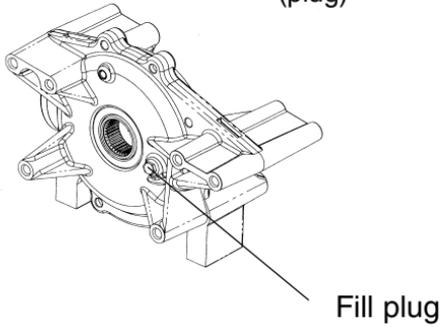
MAINTENANCE AND LUBRICATION

Lubrication Recommendations

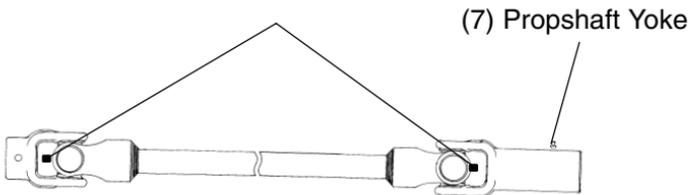
(4) Front Gear Case



(5) Rear Gear Case



(6) Front Prop Shaft (U-Joints)



MAINTENANCE AND LUBRICATION

Lubrication Recommendations

(8) Front Drive Axle (U Joint) (AWD Models)	Grease+	Locate grease fitting and grease with grease gun.	Every 3 months or 50 hours
(9) Ball Joint	★ Grease **	Locate fitting on back side of struts and grease with grease gun.	Every 3 months or 50 hours
(10) Front A Arm Pivot Shaft	★ Grease **Δ	Locate fitting on pivot shaft and grease with grease gun.	Every 3 months or 50 hours
(11) Upper steering Post Bushing	★ Grease **	Locate fitting on steering post and grease with grease gun.	Every 3 months or 50 hours
(12) Upper Control Arms	★ Grease **Δ	Locate fittings and grease	Semi-annually
(13) Lower Control Arms	★ Grease **Δ	Locate fittings and grease	Semi-annually
(14) Rear Wheel Hub Bearing Carrier	★ Grease **Δ	Locate fitting and grease	Semi-annually
(15) Rear Anti-Roll Bar	★ Grease	Locate fitting and grease	Semi-annually

★ More often under severe use, such as wet or dusty conditions.

**Polaris Premium all Season Grease or grease conforming to NLGI No. 2, such as Conoco Superlube M or Mobilegrease Special.

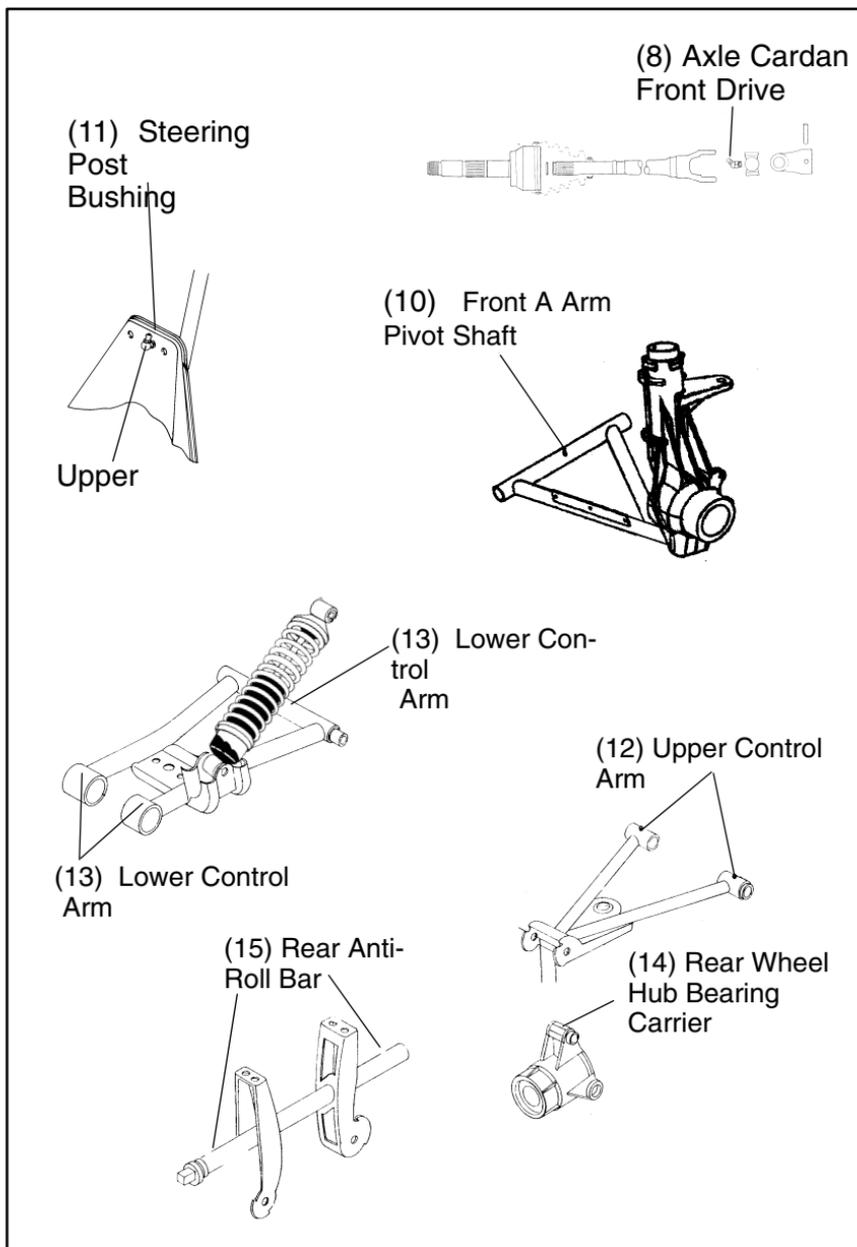
+ Grease every 500 miles, or before long periods of storage or after pressure washing, or after submerging in water. Always use Polaris Premium U-Joint Lube for maximum service of these driveline components (PN 2871515 3 oz.)(PN 2871551 14 oz.).

Δ When suspension action becomes stiff or after washing.

NOTE: Hours are based on 10 mph average.

MAINTENANCE AND LUBRICATION

Lubrication Recommendations



MAINTENANCE AND LUBRICATION

Engine Cooling System

Coolant Level

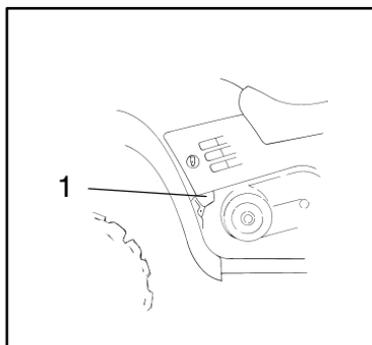
The recovery bottle(1), located on the left side of the machine, must be maintained between the minimum and maximum levels indicated on the recovery bottle.

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

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

NOTE: Some coolant level drop on new machines is normal as the system is purging itself of trapped air. Observe coolant levels and maintain as recommended by adding coolant to the recovery bottle. Polaris recommends the use of Polaris Premium 60/40 anti-freeze/coolant or a 50/50 mixture of high quality aluminum compatible anti-freeze/coolant and distilled water. **NOTE:** Polaris Premium 60/40 is already premixed and ready to use. Do not dilute with water. **NOTE:** Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

To access the recovery bottle it is necessary to remove the left side panel as described on page 130.



MAINTENANCE AND LUBRICATION

Engine Cooling System

⚠ WARNING

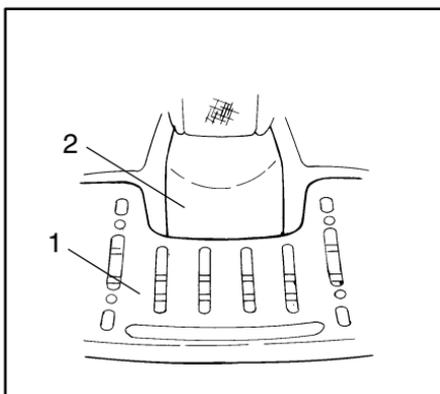
Never remove the pressure cap when the engine is warm or hot. Escaping steam can cause severe burns. The engine must be cool before removing the pressure cap.

Radiator Coolant Level Inspection

NOTE: This procedure is only required if the cooling system has been drained for maintenance and/or repair. However, if the recovery bottle has run dry, the level in the radiator should be inspected and coolant added if necessary.

To access the radiator pressure cap:

Using the tool provided, remove the four screws securing front rack (1). Remove front cover (2) by placing your fingers under the front of the cover and pulling upward.



MAINTENANCE AND LUBRICATION

Engine Cooling System

NOTE: Use of a non-standard pressure cap will not allow the recovery system to function properly. If the cap should need replacement contact your dealer for the correct replacement part.

To insure that the coolant maintains its ability to protect the engine, it is recommended that the system be completely drained every two years and a fresh mixture of antifreeze and water be added.

Polaris recommends the use of Polaris Premium 60/40 anti-freeze/coolant or a 50/50 mixture of high quality aluminum compatible anti-freeze/coolant and distilled water. **NOTE:** Polaris Premium 60/40 is already premixed and ready to use. Do not dilute with water. **NOTE:** Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

Using a funnel, slowly add coolant as necessary through the radiator filler neck.

MAINTENANCE AND LUBRICATION

Lubrication

4-Cycle Premium 4 Synthetic Lubricant

CAUTION

Use only Polaris Premium 4 All Season synthetic oil or API certified “SH” oil. Never substitute or mix oil brands. Serious engine damage and voiding of warranty can result.

Polaris Premium 4 All Season Synthetic engine oil has been specially formulated for use in Polaris 4-cycle engines. It is a fully synthetic, high performance, multi-viscosity oil designed to provide the ultimate in lubrication performance and protection.

Premium 4 possesses unsurpassed film strength over the widest possible temperature range. It resists viscosity and frictional breakdown in ambient temperatures from -40° F to 120° F. Its exceptional frictional properties result in more efficient operation, more power output, lower fuel consumption, and easier starting in cold temperatures.

Although Polaris Premium 4 is the only oil recommended for use in this engine, use of any API certified “SH” oil is allowable. Oil may need to be changed more frequently if Polaris Premium 4 is not used. You will also need to follow the manufacturers recommendations for ambient temperature operation.

MAINTENANCE AND LUBRICATION

Lubrication

Oil and Filter Change

1. Place vehicle on a level surface.
2. Run engine two to three minutes until warm. Stop engine.
3. Clean area around drain plug.
4. Place a drain pan beneath engine crankcase and remove drain plug.
CAUTION: Oil may be hot. Do not allow hot oil to come into contact with skin as serious burns may result.
5. Allow oil to drain completely.
6. Replace sealing washer on drain plug. **NOTE:** The sealing surfaces on drain plug and crankcase should be clean and free of burrs, nicks or scratches.
7. Reinstall drain plug and torque to 14 ft. lbs. (19 Nm).
8. Place shop towels beneath oil filter. Using an oil filter wrench, turn filter counterclockwise to remove.
9. Using a clean dry cloth, clean filter sealing surface on crankcase.
10. Lubricate O-ring on new filter with a film of new engine oil. Check to make sure the O-ring is in good condition.
11. Install new filter and turn by hand until filter gasket contacts the sealing surface, then turn an additional 1/2 turn.
12. Remove dipstick and fill sump with 2 quarts (1.9 l) of Polaris Premium 4 synthetic oil.
13. Place gear selector in neutral and set parking brake.
14. Start the engine and let it idle for one to two minutes. Stop the engine and inspect for leaks.
15. Re-check the oil level on the dipstick and add oil as necessary to bring the level to the upper mark on the dipstick.
16. Dispose of used filter and oil properly.

NOTE: Drain Plug Torque: 14 ft. lbs. (19 Nm); Oil Filter Torque: Turn by hand until filter gasket contacts the sealing surface, then turn an additional 1/2 turn.

MAINTENANCE AND LUBRICATION

Lubrication

Transmission Lubrication

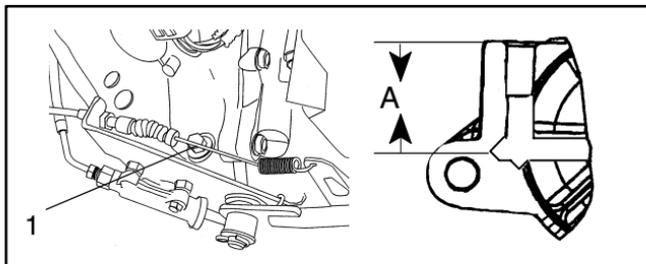
The transmission fill plug is located on the right side of the machine behind the propshaft shield or footwell.

The transmission lubricant level should be checked every six months or 1000 miles (1600 km), whichever comes first. Transmission oil should be changed annually. With the ATV on a level surface, remove fill plug (1) and check the lubricant level. Use the illustration and the chart below to determine the correct fluid level. The correct transmission lubricant to use is Polaris Premium Synthetic Gearcase Lubricant (PN 2871478).

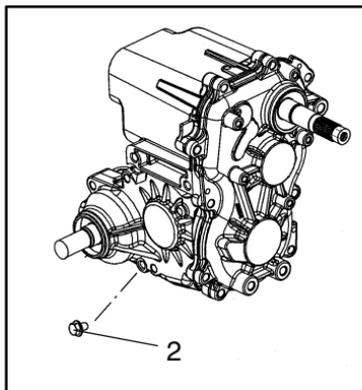
Model	Oil Level "A"	Oil Fill Ounces (ml)
Sportsman 700	1 5/8"	13.5 (400)

Transmission Oil Changing Procedure

1. Remove the four screws on the footwell and gently pull outward for access.



2. Remove fill plug.
3. Remove transmission drain plug (2) located on the bottom left hand side and drain the oil. Catch and discard used oil properly.
4. Clean and reinstall the drain plug torque to 14 ft. lbs. (1.93 kg-m).
5. Add the correct amount of Polaris Premium Synthetic Gearcase Lubricant until oil reaches the bottom of the filler hole.
6. Check for leaks.
7. Reinstall footwell and screws removed in step 1.



MAINTENANCE AND LUBRICATION

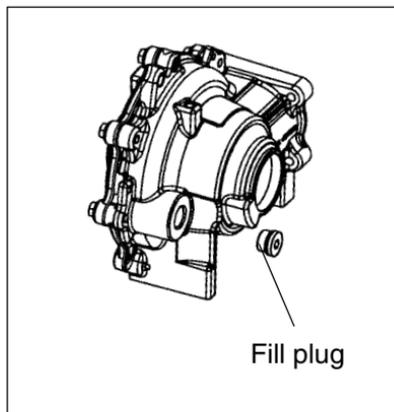
Lubrication

Front Gearcase Lubrication

The front gearcase fill plug is located as shown.

The front gearcase lubricant level should be checked every six months or 1000 miles (1600 km), whichever comes first. Front gearcase oil should be changed annually.

With the ATV on a level surface, remove fill plug and check the lubricant level. Lubricant should be kept 3/4" from the bottom of the fill plug thread. The correct gearcase lubricant to use is Premium Hub Lube.



Gearcase Oil Changing Procedure

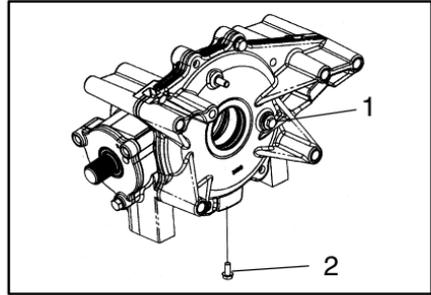
1. Remove fill plug (1).
2. Remove gearcase drain plug located on the bottom right hand side and drain the oil.
3. Clean and reinstall the drain plug and tighten securely (14 ft. lbs/1.93 kgm).
4. Add 5 ounces (150 ml) of Polaris premium hub oil.
5. Reinstall filler plug.
6. Check for leaks.

MAINTENANCE AND LUBRICATION

Lubrication

Rear Gearcase Lubrication

With the ATV on a level surface, remove the fill plug and visually inspect the lubricant level through the fill hole (1). The lubricant level should be maintained 1 5/8 in. from the top of the fill plug hole. Use GL5 80-90 weight gear lube.



Gearcase Oil Changing Procedure

1. Remove drain plug (2). Catch and discard used oil properly.
2. Clean and reinstall the drain plug with a new sealing washer and tighten securely (14 ft. lbs./1.93 kgm).
3. Remove fill plug and add 5 ounces (150 ml) of GL5 80-90 weight gear lube. Inspect the oil level. The oil level should be maintained 1 5/8 in. from the top of the fill plug hole.
4. Reinstall the fill plug. Tighten securely (14 ft. lbs./1.93 kgm).
5. Check for leaks.

MAINTENANCE AND LUBRICATION

Lubrication

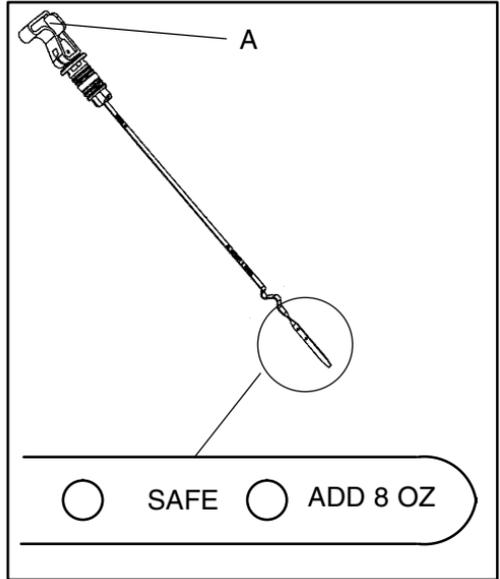
Oil System

The oil dipstick and fill tube are located on the left side of the vehicle
To check the oil:

1. Set machine on a level surface.
2. Start the engine and let it idle for 20-30 seconds.
3. Stop the engine and lift the lever lock (A) on the dipstick. Remove the dipstick and wipe it clean.
4. Re-install the dipstick completely, remove it and read the oil level.

NOTE: Make certain the dipstick is inserted all the way into the filler tube to keep the angle and depth of stick consistent.

5. Remove dipstick and check to see that the oil level is between the full and add marks. Add oil as indicated by the level on the dipstick. Do not overfill.
6. When reinstalling the dipstick, make certain to seat the lever lock.



MAINTENANCE AND LUBRICATION

Filter Systems

Cleaning the Main Filter

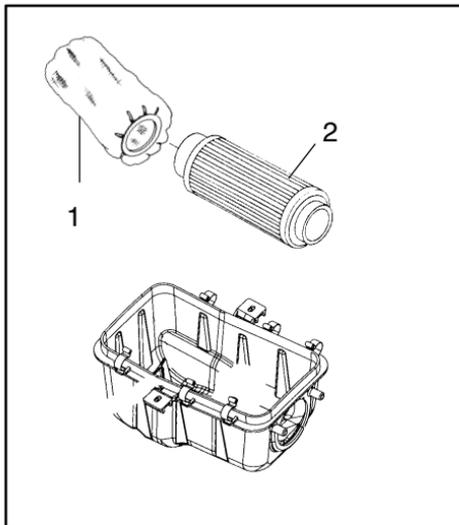
NOTE: It is advisable to replace the filter when it is dirty. However, in an emergency it is permissible to clean the main filter if you observe the following practices.

1. **Never** immerse the filter in water since dirt can be transferred to the clean air side of the filter.
2. If compressed air is used **never** exceed a pressure of 40 PSI. Always use a dispersion type nozzle to prevent filter damage and clean from the inside to the outside.

NOTE: Replace the air filter every 50 hours, and possibly more often in very dirty conditions.

Air Filter Service - 4 Cycle

1. Remove seat.
2. Release clips and remove cover.
3. Loosen clamp and remove filter
4. Remove fabric type pre-filter (1) from main filter (2). Wash pre-filter in soapy water and dry it.
5. Reinstall pre-filter over main filter. Replace main filter as required.
6. Reinstall filter into air box and tighten clamp. Do not over tighten clamp or filter damage may occur.



MAINTENANCE AND LUBRICATION

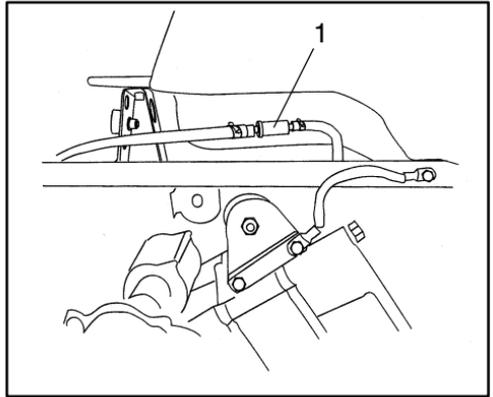
Filter Systems

CAUTION

Operation of your ATV without a breather filter can cause engine damage.

Breather Filter and Hose 4-Cycle Engines With Dry Sump*

1. Take the filter(1) out of the hoses.
2. Inspect filter for debris. Blow through gently in direction of arrow on filter to check for clogging. Replace as needed.
3. Check hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.



MAINTENANCE AND LUBRICATION

Adjustments

Steering Inspection

The steering assembly of the machine should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, have your dealer tighten them before riding your vehicle.

Camber and Caster

The camber and caster are non-adjustable.

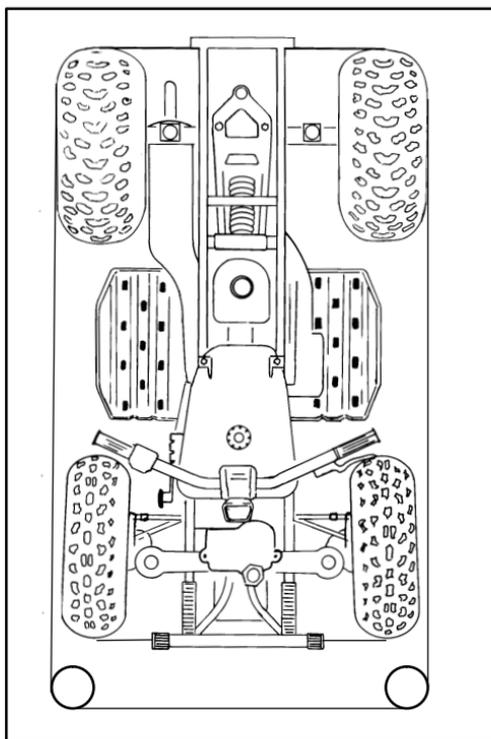
⚠ WARNING

If you determine your machine needs the tie rod adjusted for toe alignment, contact your dealer for service. Steering is a vital part of your machine that, if adjusted wrong, could lead to severe injury or death.

Toe Alignment

You can check the toe alignment of the vehicle using the following method. The recommended toe alignment is $1/8''$ to $1/4''$ (.3 to .6 cm) toe out. If you discover improper adjustment have your dealer correct it.

1. Set the handlebars in a straight ahead position and hold them in this position.



MAINTENANCE AND LUBRICATION

Adjustments

Toe Alignment (cont.)

2. Place stands in front of the machine, perpendicular to the rear tires.
3. Tie an elastic string around the stands, making sure string just touches side surface of the rear tires on each side of machine and goes around the stands in front of the machine.
4. Measure from string to rim at front and rear of front rim. Rear rim measurement should be $1/16'' - 1/8''$ (.2 to .3 cm) more than front rim measurement.
5. If this measurement needs to be adjusted, contact your dealer for service.

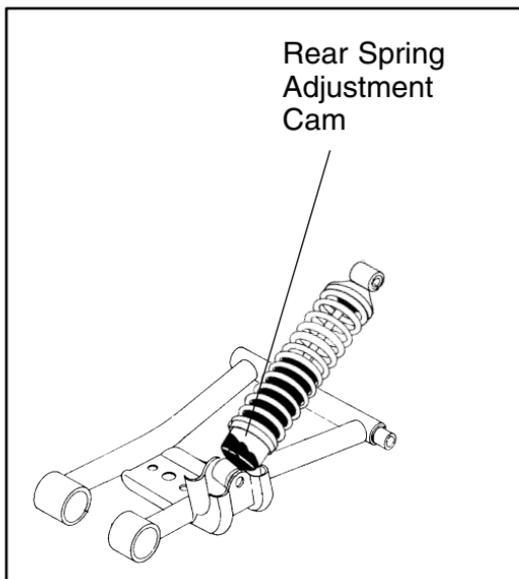
MAINTENANCE AND LUBRICATION

Adjustments

Rear Spring Adjustment

The rear shock absorber spring is adjusted by rotating the adjuster in the direction required to increase or decrease spring tension.

NOTE: Accessory springs are available through your Polaris dealer.



MAINTENANCE AND LUBRICATION

Adjustments

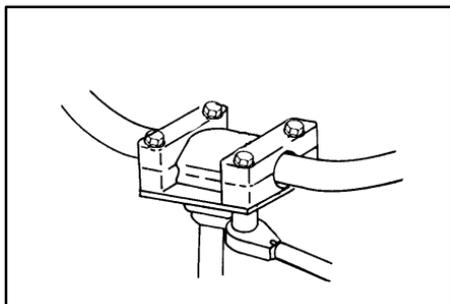
⚠ WARNING

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.

Handlebar Adjustment

Your ATV has handlebars which can be adjusted for your personal fit.

1. To locate handlebar bolts, it will be necessary to remove the upper headlight pod.
2. Loosen the four bolts.
3. Adjust handlebar to desired height. Be sure handlebars do not hit gas tank or any other part of machine when turned fully to left or right.
4. Torque handlebar adjuster block bolts to 10 to 12 ft. lbs.



NOTE: Tighten bolts so there is an equal gap at the front and rear of the handlebar block. Improper gap will result in improper fit of upper pod.

MAINTENANCE AND LUBRICATION

Adjustments

Front Brake

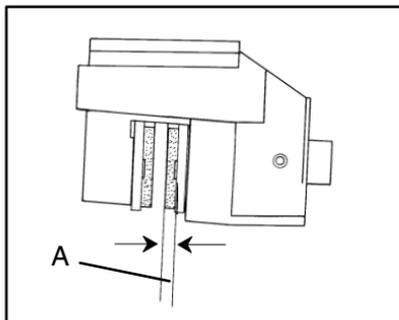
▲WARNING

Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of serious injury.

The front brakes are hydraulic disc brakes which are activated by the brake lever being moved toward the handlebar. These brakes are self-adjusting and require no adjustment.

The following checks are recommended to keep the brake system in good operating condition. How often they need checking depends upon the type of driving that has been done.

- Keep fluid level in the master cylinder reservoirs as described on page 47. Normal functioning of the diaphragm is to extend into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is indicated and the diaphragm should be replaced. Always fill the reservoir as indicated whenever the cover is loosened or removed to insure proper diaphragm operation. Use Polaris DOT 3 brake fluid.
- Check brake system for fluid leaks.
- Check brake for excessive travel or spongy feel.
- Check friction pads for wear, damage and looseness.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to $3/64''$ (.1 cm) (A), or about the thickness of a dime.



MAINTENANCE AND LUBRICATION

Adjustments

Rear Brake

The rear brake is a hydraulic disc type brake which is activated by the same lever which activates the front brake system. The rear brake system is self adjusting and requires no maintenance other than periodic checks of the pads for wear.

- Pads should be changed when the friction material is worn to 3/64" (.1 cm) which is about the thickness of a dime.
- Inspect the brake disc spline and pad wear surface for excessive wear.

Foot Brake

Your ATV's foot brake is intended to be used as a backup for the main brake system. Should the main system fail, the rear brake can be activated by depressing the foot pedal on the inside of the right floorboard. All Polaris ATVs have hydraulic brake systems. The hydraulic foot brake will not require adjustment.

NOTE: Since this is a rear brake only, it will not be as effective as the all wheel system.

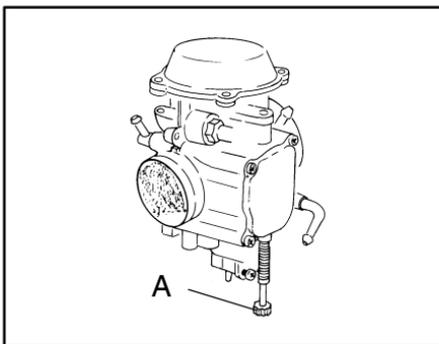
MAINTENANCE AND LUBRICATION

Adjustments

Carburetor/Engine Idle RPM Adjustment

If the engine idle speed is not satisfactory, and all other conditions are favorable, the carburetor can be adjusted as follows:

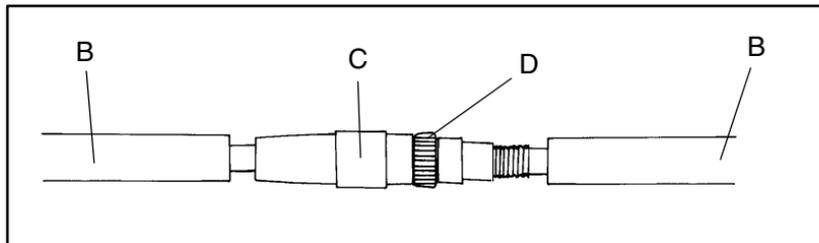
1. Warm up the engine by running the vehicle approximately five minutes.
2. Place the transmission in gear with the parking brake applied.
3. Adjust the carburetor idle screw (A) in or out until the desired idle RPM is reached. Turning the screw in (clockwise) will raise RPM. Turning the screw out (counterclockwise) will lower RPM.



Throttle Cable Free Play Adjustment

Throttle cable free play is adjusted at the handlebar.

1. Slide the boots (B) off inline cable adjuster sleeve (C). Loosen adjuster locknut (D).
2. Turn adjuster until 1/16" to 1/8" freeplay is achieved at thumb lever. **NOTE:** While adjusting freeplay, it is important you flip the throttle lever back and forth.
3. Tighten locknut and slide boots over cable adjuster until they touch at the mid point of adjuster.



MAINTENANCE AND LUBRICATION

Adjustments

WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling which could cause an accident resulting in serious injury or death.

Follow the safeguards listed below to prevent this type of situation.

Important Safeguards

Maintain proper tire pressure according to the tire pressure decal. Improper tire inflation may affect ATV maneuverability.

Do not use improper tires. The use of non-standard size or type tires may affect ATV handling.

Make certain the wheels are installed properly. If wheels are improperly installed it could affect vehicle handling and tire wear.

Wheel Removal Procedure

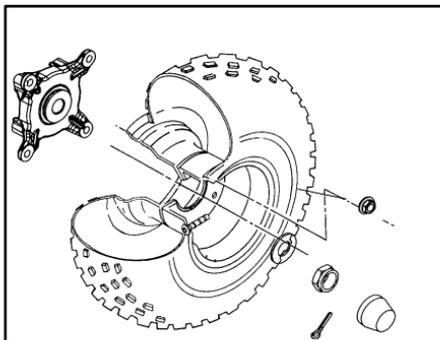
1. Stop the engine, place the transmission in park and lock the parking brake.
2. Loosen the wheel nuts slightly.
3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
4. Remove the wheel nuts and remove the wheel.

MAINTENANCE AND LUBRICATION

Adjustments

Wheel Installation

1. With the transmission in park and the parking brake locked, 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.
 2. Attach the wheel nuts and finger tighten them.
 3. Lower the vehicle to the ground.
 4. Securely tighten the wheel nuts according to the chart found below:
- The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.



Wheel Nut Installation

The wheel nuts on your ATV have been installed with thread locker as an extra measure to ensure retention. This feature is intended to last until the wheel nuts are removed. **NOTE:** Wheel nut removal will be more difficult when thread locker has been used.

You have been supplied with replacement thread locker which you must use whenever reinstalling wheel nuts. Place one drop on the lug before installing and tightening to 30 ft. lbs. **NOTE:** Always use Polaris thread locker (PN 2870963) or equivalent when replacing wheel nuts. Always check wheel nut tension before riding your ATV.

Wheel Nut Torque Specifications

Bolt Size	Specification
Front 3/8"	30 Ft. Lbs.
Rear 3/8"	30 Ft. Lbs.

NOTE: All nuts that have a cotter pin installed must be serviced by an authorized Polaris Dealer.

MAINTENANCE AND LUBRICATION

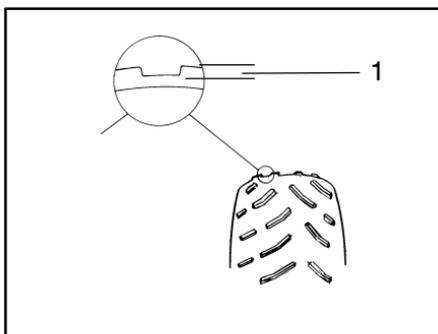
Adjustments

Tire Inspection

When replacing a tire always use original equipment size and type.

Tire Tread Depth

Always replace tires when tread depth is worn to $1/8''$ (.3 cm) (1) or less.



MAINTENANCE AND LUBRICATION

Adjustments

Carburetor Adjustments

If the vehicle is to be operated at various altitudes and temperatures, certain adjustments can be made to improve its operation and driveability. Above 6000 feet (1800 m) the engine air/fuel mixture becomes overly rich. An engine loses approximately 3% of its power for each 1000 foot (304.8 m) increase in elevation. Although this power cannot be regained, changes to the carburetor and drive system can be made to allow efficient operation. These changes include:

1. Carburetor re-jetting to compensate for altitude and/or temperature changes.
2. Transmission convertor modification to adjust for engine horsepower loss during high altitude operation. Contact your dealer.
3. On 4-cycle models, pilot screw adjustments can be made to compensate for temperature changes and/or changes in altitude.

NOTE: Contact your dealer for altitude adjustments. They have the training and special tools required to perform all necessary modifications for you.

Accessories

There are a wide range of Polaris Accessories available for ATVs. Contact your Polaris dealer to find out about the accessories available for your machine.

MAINTENANCE AND LUBRICATION

Lights - Adjustment - Replacement

Headlight Lamp Replacement

WARNING

Keep your headlights and taillights clean. Poor lighting while riding can result in an accident causing severe injury or death.

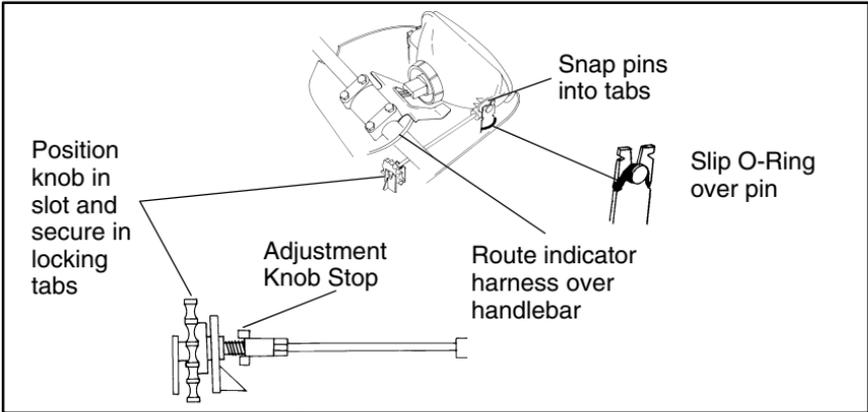
CAUTION

Do not service while headlight is hot. Serious burns may result.
Do not touch a halogen lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot which will shorten the life of the lamp.

MAINTENANCE AND LUBRICATION

Lights - Adjustment - Replacement

Headlight Lamp Replacement



1. Remove the three screws securing the headlight pod.
2. Using a small flat blade screwdriver, push in on the lock tab through the two small openings at the front of the headlight pod.
3. Lift the pod lightly while depressing the tabs.
4. Lift pod cover up. Disconnect instrument cluster harnesses from instrument cluster. Unplug indicator light harness and remove pod cover.
5. Unplug headlamp from wiring harness.
6. Remove boot and locking collar from back of lamp housing.
7. Grasp base of lamp and lift it out.
8. Reverse previous steps to replace lamp and reassemble pod. Make sure tab on lamp locates properly in housing.

MAINTENANCE AND LUBRICATION

Lights - Adjustment - Replacement

High Beam Headlight Adjustment

The headlight beam can be adjusted to any position desired by turning the adjusting knob located on the bottom right side of the headlight pod.

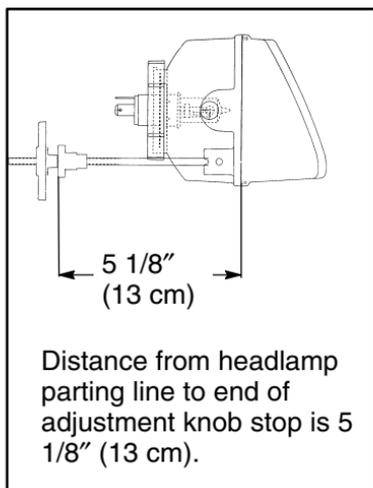
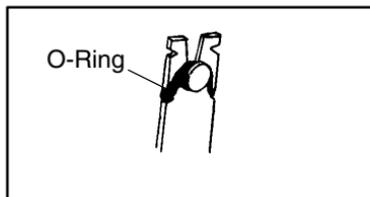
1. Place the vehicle on a level surface with the headlight approximately 25' (7.6 m) from a wall.
2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
3. Start the engine and turn the headlight switch to high beam.
4. Observe headlight aim. The most intense part of the headlight beam should be aimed 2" (5.1 cm) below the mark placed on the wall in step 1. **NOTE:** Rider weight must be included on the seat.
5. Adjust beam to desired position by turning the adjustment knob.

MAINTENANCE AND LUBRICATION

Lights - Adjustment - Replacement

Headlight Housing Replacement

1. Lift the pod lightly while depressing the tabs.
2. Using a small flat blade screwdriver, push in on the lock tab through the two small openings at the front of the headlight pod.
3. Remove the three screws securing the headlight pod.
4. Lift pod cover up. Disconnect instrument cluster harnesses from instrument cluster. Unplug indicator light harness and remove pod cover.
5. Unplug headlamp from wiring harness.
6. Remove O-Ring from headlight pivot pins.
7. Pull headlight housing up to release from locking tabs.
8. Lift adjusting knob up to remove from locking tabs.
9. Carefully pull assembly up and out of pod.
10. Reverse steps to install new housing and reassemble pod.
11. Adjust headlight aim by turning adjusting knob.



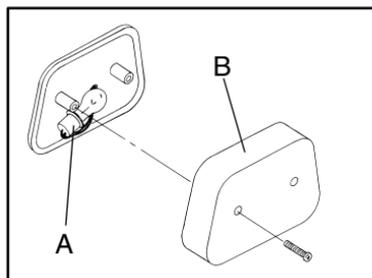
MAINTENANCE AND LUBRICATION

Lights - Adjustment - Replacement

Taillight/Brakelight Lamp Replacement

If the taillight/brakelight does not work the lamp may need to be replaced.

1. Remove the taillight lens cover mounting screws. Remove the lens cover and gasket and set aside for reassembly.
2. Remove lamp (A) and replace it with recommended lamp.
3. Test the taillight/brakelight to see that it's working.
4. Reinstall the gasket and lens cover (B) removed in step 1.



MAINTENANCE AND LUBRICATION

Spark Plugs

Refer to page 7 for the correct spark plug for your machine.

The spark plug and its 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.

1. Normal

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

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

2. Wet Fouled

The 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 are excessive oil use, improper use of the choke, or incorrect carburetion adjustments.

Spark Plug Removal and Replacement

WARNING

Never attempt to remove a spark plug while the engine is warm. The exhaust system or engine could burn you causing severe injury.

The spark plug is removed by using the special wrench provided in the tool pouch. Remove the spark plug cap and then the spark plug by rotating counterclockwise.

Reverse the procedure for spark plug installation. Torque to 17 ft. lbs. Never deviate from the recommended spark plug as engine damage can occur.

MAINTENANCE AND LUBRICATION

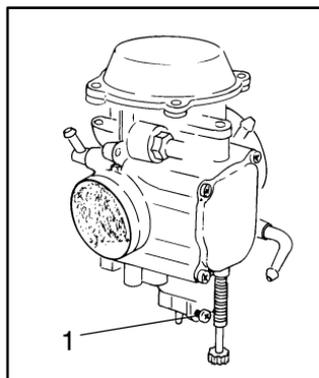
Water Immersion

CAUTION

If your ATV becomes immersed, take it to your dealer before starting the engine. Major engine damage can result if the machine is not thoroughly inspected.

If it is impossible to take it to a dealer before starting, follow the steps outlined below.

- Move the ATV to dry land or at the very least, to water below the foot rests.
- Turn the fuel valve off.
- Remove the spark plugs.
- Loosen the carburetor drain screw (1).
- Turn the engine over several times with electric start.
- Dry the spark plugs and reinstall or replace with a new plugs.
- Tighten the carburetor drain screw.
- Turn the fuel valve on.
- Attempt to start the engine. If necessary, repeat the “drying” procedure.
- Take the machine to your dealer for service as soon as possible, whether you succeed in starting it or not.



If water has been ingested into the PVT follow the procedure on page 125 to dry out the PVT.

MAINTENANCE AND LUBRICATION

Spark Arrestor

WARNING

When cleaning the spark arrestor, you must follow the safeguards listed below to avoid serious injury or death.

- Do not perform this operation immediately after the engine has been run because the exhaust system becomes very hot.
- Because of the increased fire hazard, make sure that there are no combustible materials in the area when purging the spark arrestor.
- Wear eye protection.
- Do not stand behind or in front of the vehicle while purging the carbon from the spark arrestor.
- Never run the engine in an enclosed area. The exhaust contains poisonous carbon monoxide gas.
- Do not go under the machine while it is inclined.
- Keep combustible materials away from exhaust system. Fire may result.

Spark Arrestor

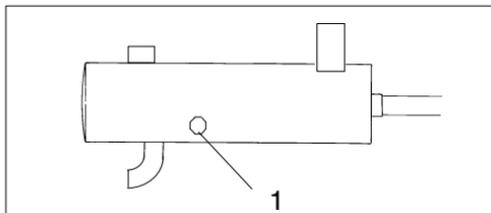
The exhaust pipe must be periodically purged of accumulated carbon as follows:

1. Remove the clean out plug (1) located on the bottom of the muffler.
2. Place the transmission in neutral and start the engine. Purge accumulated carbon from the system by momentarily revving the engine several times.
3. If some carbon is expelled, cover the exhaust outlet and rap on the pipe around the clean out plug while revving the engine several more times.

MAINTENANCE AND LUBRICATION

Spark Arrestor (cont.)

4. If particles are still suspected to be in the muffler, back the machine onto an incline so the rear of the machine is one foot higher than the front. Set the parking brake and block the wheels. Make sure the machine is in neutral and repeat steps 2 and 3.



5. If particles are still suspected to be in the muffler, drive the machine onto the incline so the front of the machine is one foot higher than the rear. Set the parking brake and block the wheels. Make sure the machine is in neutral and repeat steps 2 and 3.
6. Repeat steps 2 through 5 until no more particles are expelled when the engine is revved.
7. Stop the engine and allow the arrestor to cool.
8. Reinstall the arrestor plug.

MAINTENANCE AND LUBRICATION

PVT System

WARNING

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

- Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at high speeds. This system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.
- Routine maintenance is the responsibility of the owner. Always follow recommended maintenance procedures. See your dealer!
- This PVT system is intended for use on Polaris products only.
- The PVT housing must be securely in place during operation.

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

Low Range Use May Reduce PVT Operating Temperatures

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

MAINTENANCE AND LUBRICATION

PVT System

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

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

By switching to low range while operating at low ground speeds, the air temperature in the clutch cover is reduced by almost 160 degrees. Reducing the temperature inside the clutch cover extends the life of the PVT components (belt, cover, etc.).

NOTE; Models without a low range should avoid heavy pulling and extended low-speed operation.

PVT Drying

There may be some instances when water is accidentally ingested into the PVT system. If this happens, use the following instructions to dry it out before operating.

First remove the drain plug and allow the water to drain. Replace the drain plug. Start the engine and shift the transmission into neutral. Apply varying throttle for 10 to 15 seconds. This will expel the moisture and air-dry the belt and clutches. Allow the engine RPM to settle to idle speed and shift the transmission to the lowest available range and test for belt slippage. If the belt slips, repeat the process.

Take the vehicle to your dealer for service as soon as possible.

MAINTENANCE AND LUBRICATION

PVT System

When To Use Low Range vs. High Range

The following lists provide a guideline for when to use low range rather than high.

Low Range:

- Basic operation at speeds less than 7 MPH
- Heavy pulling
- Riding through rough terrain (swamps, mountains, etc.) at low ground speeds

High Range:

- Basic operation at speeds greater than 7 MPH
- High ground speeds

MAINTENANCE AND LUBRICATION

Battery

⚠ WARNING

Whenever removing the battery, disconnect the negative (black) cable first. When reinstalling the battery, connect the negative (black) cable last or an explosive situation could result causing serious injury or death.

⚠ WARNING

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

Antidote:

External: Flush with water.

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

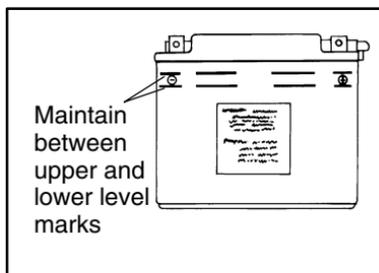
Eyes: Flush with water for 15 minutes and get prompt medical attention.

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

Replenishing the Battery Fluid

A poorly maintained battery will deteriorate rapidly. Check the battery fluid level often. The fluid level should be kept between the upper and lower level marks.

To refill use only distilled water. Tap water contains minerals which are harmful to a battery.



MAINTENANCE AND LUBRICATION

Battery

Battery Removal

1. Remove the strap securing the battery.
2. Remove the battery vent tube from the battery.
3. Disconnect the black (negative) battery cable first.
4. Disconnect the red (positive) battery cable next.
5. Lift the battery out of the ATV, being careful not to tip it sideways and spill electrolyte.

CAUTION

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

Battery Installation and Connections

WARNING

To avoid the possibility of explosion, always connect battery cables in the order specified. Red (positive) cable first; black (negative) cable last. An exploding battery can cause serious injury or death.

Battery terminals and connections should be kept 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 rags. Coat the terminals with dielectric grease or petroleum jelly.

Be careful not to allow cleaning solution or tap water into the battery.

MAINTENANCE AND LUBRICATION

Battery

1. Set the battery in its holder.
2. Install the battery vent tube. It must be free from obstructions and securely installed. If not, battery gases could accumulate and cause an explosion. The tube should be routed away from the frame and body to prevent corrosion. Avoid skin contact with electrolyte, severe burns could result.
3. First connect and tighten the red (positive) cable.
4. Second connect and tighten the black (negative) cable.
5. Reinstall battery and battery strap.
6. Verify that cables are properly routed.

NOTE:

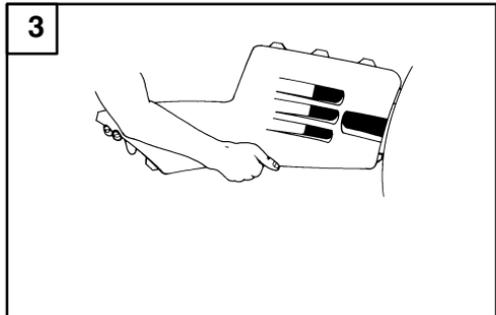
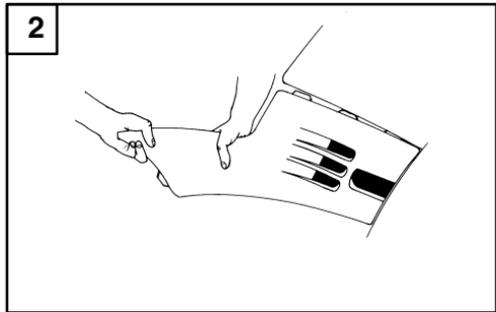
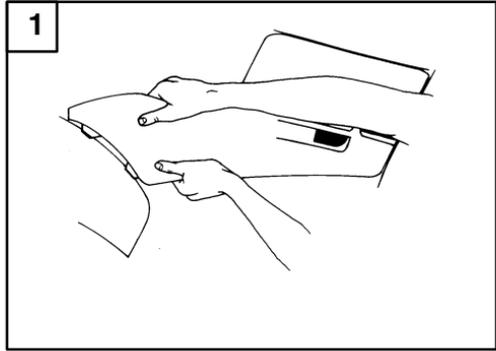
- When your ATV is placed in storage for three months or more, the battery should be removed, charged to proper level, and stored in a cool dry place.
- Before reusing, take the battery to your dealer for testing and recharging.
- Power plug leads may need to be bent down so that the battery cover may be installed.
- When installing a new battery, make certain it is fully charged prior to its initial use. Using a new battery that has not been fully charged can damage the battery resulting in a shorter life of the battery. It can also hinder vehicle performance.

MAINTENANCE AND LUBRICATION

Side Panel Removal

Side panel removal may be difficult until the locking tabs and receivers have been snapped and unsnapped a few times.

1. Remove seat. Grasp rear of side panel near rear cab. With a quick and firm motion, pull the panel forward and outward to disengage the two rear tabs.
2. Place hand on top of side panel behind the fuel tank. With a quick and firm motion, push down on the side panel to disengage the top rear two tabs. Then pull up on side panel to disengage front upper and lower tab.
3. To reinstall side panel, align panel tabs with slots on front cab. Push panel upward and forward until tabs lock. Bend rear of side panel and insert the two tabs into the rear cab.



MAINTENANCE AND LUBRICATION

Cleaning and Storage

Cleaning the ATV

Keeping your ATV clean will not only improve its appearance but it can also extend the life of various components. With a few precautions, your ATV can be cleaned much like an automobile.

Washing the ATV

If a high pressure type car wash system is used, extreme care must be taken to avoid water damage to the wheel bearings, transmission seals, body panels, brakes and warning labels. Many expensive repair bills can result from using high pressure detergent systems.

NOTE: If a high pressure car wash is used, grease all zerk fittings immediately after washing. Also run the vehicle to evaporate any water that might have entered the engine or exhaust system.

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitten, cleaning the upper body first and the lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots. **NOTE:** If warning labels are damaged, contact your a Polaris dealer for free replacement.

Waxing the ATV

Your ATV can be waxed with any non-abrasive automotive paste wax. Avoid the use of harsh cleaners since they can scratch the body finish.

CAUTION

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Care must be taken when using these products near plastic surfaces.

MAINTENANCE AND LUBRICATION

Cleaning and Storage

Storage Tips

Cleaning - Outside...Make necessary repairs and then clean the ATV thoroughly with a mild soap and warm water solution to remove all dirt and grime. Don't use harsh detergents or high pressure washers. Some detergents deteriorate rubber parts - use dish soap type cleaners only. High pressure washers may force water past seals. Drain the recoil housing.

Stabilize Fuel - Add Polaris Carbon Clean Fuel Treatment or Polaris Fuel Stabilizer. Fill the fuel tank. Follow instructions on the container for recommended amount. Carbon clean will also reduce the possibility of bacterial growth in the fuel system. It's best to allow 15-20 minutes of operation for the stabilizer to disperse through the fuel in the tank and carburetor. Turn the fuel valve to "OFF" and drain the carburetor bowl completely.

Oil And Filter Change - (4-Stroke) Warm the engine and change oil and filter.

Air Filter / Air Box - Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and drain the sediment tube.

Breather Filter- Inspect and clean or replace the breather filter.

Inspect All Fluid Levels - Inspect the following fluid levels and change if necessary: rear gear case; front gear case ; transmission; brake fluid (change every two years or as required if fluid looks dark or contaminated).

Check and Lubricate Cables / Grease - Inspect all cables and lubricate with Polaris Cable Lubricant. Follow lubrication guidelines in the Maintenance Section of the Service or Owner's Manual to completely grease and lubricate the entire vehicle with Polaris Premium All Season Grease.

MAINTENANCE AND LUBRICATION

Cleaning and Storage

* **Fog The Engine** - Remove the spark plug and add 2-3 tablespoons of Premium 4 Synthetic 0W40 engine oil. To access the plug hole use a section of clear 1/4" hose and a small plastic squeeze bottle filled with the pre-measured amount of oil. Install the spark plug and pull the engine over slowly with the recoil starter. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.

CAUTION

Do not start the engine during the storage period. This will disturb the protective film created by fogging.

Battery Maintenance - Remove the battery and add distilled water as required to the proper level. *Do not* use tap water which may contain minerals that reduce battery life. Apply Polaris Di-Electric Grease to the terminal bolts and terminals. Charge the battery at 1.4 amps or less until specific gravity of *each* cell is 1.265 or greater. Store the battery in a cool, dry, place. Charge can be maintained easily by using Polaris Battery Tender™ charger (PN 2871076) or by charging about once a month to make up for normal self-discharge. Battery Tender™ can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. The only thing you need to do is check the fluid level once a month.

Engine Anti-Freeze - Test engine coolant strength and change if necessary. Coolant should be replaced every 2 years.

Storage Area/Covers - Set tire pressure and safely support the ATV with the tires 1-2" off the ground. Be sure the storage area is well ventilated. Cover the machine with a genuine Polaris ATV cover. **NOTE:** Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

MAINTENANCE AND LUBRICATION

Transporting

Whenever the ATV is to be transported the following measures should be taken.

1. Turn off the engine and remove the key. It may be lost if not removed.
2. Turn the fuel valve to off.
3. Be certain the fuel cap, oil cap, and seat are installed correctly.
4. Always tie the frame of the ATV to the transporting unit securely using suitable straps or rope.
5. Always place the transmission in park and lock the parking brake.

Tool Kit

To help you perform routine maintenance, a tool kit is provided in the storage compartment under the seat. Items included in the kits are:

- Screwdriver
- Open end wrench (8-10 mm)
- Open end wrench (12-14 mm)
- Box end wrench
- Tire pressure gauge
- Spark plug wrench and handle
- Spanner wrench for adjusting rear shock spring preload
- Torx driver for rack removal

TROUBLESHOOTING

Clutch Drive Belt & Cover Related Issues: Diagnosis	
Possible Causes	Solutions/What to do
Loading the ATV into a pick-up or tall trailer when in high range.	Shift transmission to low range during loading of the ATV to prevent belt burning.
Starting out going up a steep incline.	When starting out on an incline, use low range, or dismount the ATV after first applying the park brake and perform the "K" turn as described on page 77 of this manual.
Driving at low RPM or low ground speed (at approximately 3-7 MPH).	Drive at higher speed or use Low Range. The use of Low Range is highly recommended for cooler PVT operating temperatures and longer component life.
Insufficient warm-up of ATVs exposed to low ambient temperatures.	Warm engine at least 5 min., then with transmission in neutral, advance throttle to approx. 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow and easy clutch engagement.	Fast, effective use of the throttle for efficient engagement.
Towing/Pushing at low RPM/low ground speed.	Use Low Range only.
Plowing snow, dirt, etc./utility use.	Use Low Range only.
Stuck in mud or snow.	Shift the transmission to Low Range, carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.

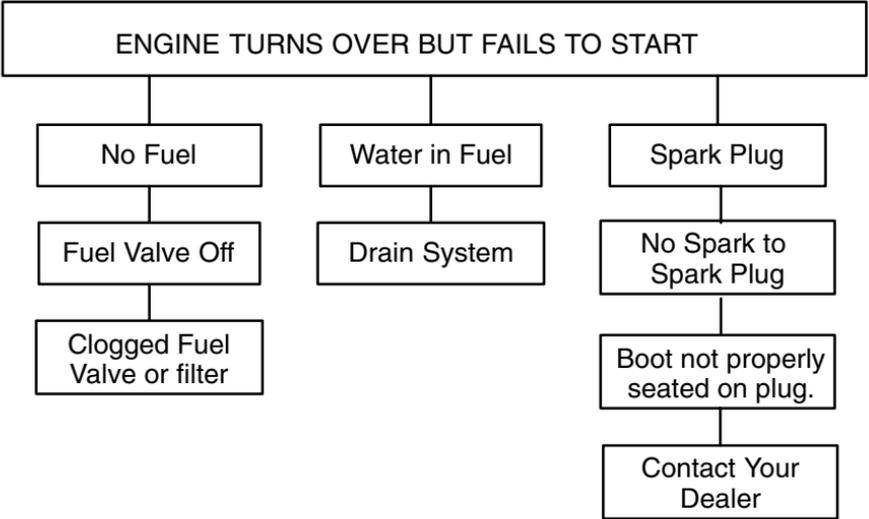
TROUBLESHOOTING

Clutch Drive Belt & Cover Related Issues: Diagnosis	
Possible Causes	Solutions/What to do
Climbing over large objects from a stopped position.	Remove the drain plug at the lower rear portion of the clutch cover. Shift the transmission to Low Range, carefully use fast, brief, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Belt slippage from water or snow ingestion into the PVT system.	Shift the transmission to neutral. Using the throttle, vary the engine rpm from idle to full throttle. Repeat several times as required. During this procedure, the throttle should not be held at the full position for more than 5 seconds. Clutch compartment seals should be inspected for damage if repeated leaking occurs.
Clutch malfunction.	For inspection of clutch components, please contact your Polaris dealer.
Poor engine performance.	Fouled plugs, foreign material or old fuel in gas tank, fuel lines, or carburetor. Contact your dealer for further service information.
ENGINE OVERHEATS	
Debris lodged in screens	Remove and clean the screen. Remove the screen by pulling on the top portion of the screen, then remove the lower portion.
Plugged Radiator	Use a garden hose to flush any debris from the radiator fins. NOTE: High pressure washers can deform the radiator fins and reduce cooling efficiency.

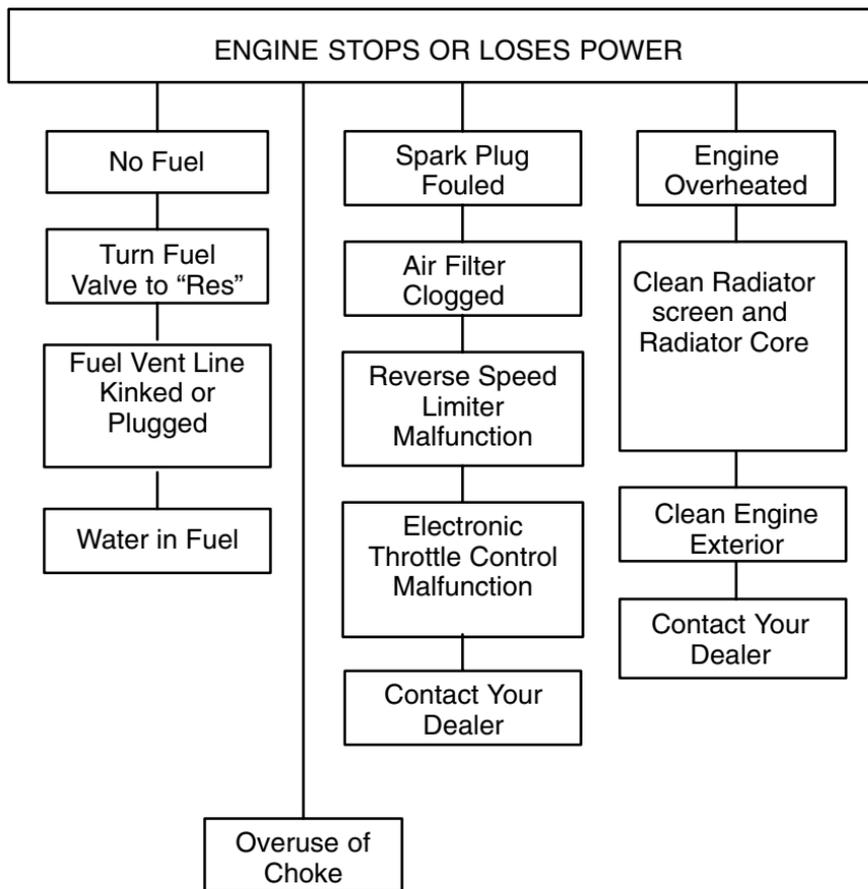
TROUBLESHOOTING

Procedures

The following information is provided to help you identify probable causes for questions you may have about the operation of your ATV. See your Polaris dealer with any additional questions you may have.



TROUBLESHOOTING



- NOTES -

WARRANTY

LIMITED WARRANTY

Polaris Industries Inc., 2100 Highway 55, Medina, MN 55340, gives a SIX MONTH LIMITED WARRANTY on all components of the Polaris All Terrain Vehicle (ATV) against defects in material or workmanship. Polaris also gives a one year limited warranty on the final drive chain for failure due to defects. This warranty covers the parts and labor charges for repair or replacement of defective parts which are covered by this warranty. This warranty begins on the date of purchase. This warranty is transferrable to another consumer during the warranty period through a Polaris dealer. There is a charge of \$35.00 payable to Polaris Industries Inc.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to Polaris within ten days. Upon receipt of this registration, Polaris will record the registration for warranty. **THE PURCHASER MUST COMPLETE AN ATV SAFETY TRAINING COURSE PROVIDED BY THE DEALER IN ORDER TO HAVE VALID WARRANTY ON THE ATV.** No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be the warranty entitlement. If you have not signed the original registration and received the “customer copy”, please contact your dealer immediately. **NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR ATV IS REGISTERED WITH POLARIS.**

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

WARRANTY

WARRANTY COVERAGE AND EXCLUSIONS:

LIMITATIONS OF WARRANTIES AND REMEDIES

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

This warranty does not cover the use of unauthorized lubricants, chemicals, or fuels that are not compatible with the ATV. The exclusive remedy for breach of this warranty shall be, at Polaris' exclusive option, repair or replacement of any defective materials, or components or products. **THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED**

WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. Some states do not permit the exclusion or limitation of incidental or consequential damages or implied warranties, so the above limitations or exclusions may not apply to you if inconsistent with controlling state law.

WARRANTY

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

HOW TO OBTAIN WARRANTY SERVICE

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

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

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

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

Engine Oil

1. Always use Polaris engine oil.
2. Never substitute or mix oil brands as serious engine damage and voiding of warranty can result.

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WARNING

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



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



**NEVER USE
ON PUBLIC
ROADS**



**NEVER CARRY
PASSENGERS**



**NEVER USE
WITH DRUGS
OR ALCOHOL**

NEVER:

- Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- Operate at speeds too fast for your skills or the conditions.
- Use **ALCOHOL** or **DRUGS** before or while operating this vehicle.
- Carry Passengers.

ALWAYS:

- Avoid paved surfaces, which may adversely affect handling and control.
- Use proper **RIDING TECHNIQUES** to avoid vehicle overturns on hills and rough terrain, and in turns.
- Wear eye protection, helmet and protective apparel.

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



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The Way Out.

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