

2016

OPERATOR'S MANUAL

⚠ WARNING



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

NEVER operate this ATV if you are under 16.

- Do not remove this Operator's Manual from this ATV according to the guidelines and agreement with the U.S. Consumer Product Safety Commission.
- Read this manual carefully. It contains important safety information.



XC 450



ARCTIC CAT®
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Your ATV can be hazardous to operate.

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.

For your safety, it is important to understand and follow all of the warnings contained in this Operator's Manual and the labels on your ATV prior to riding.

Keep this Operator's Manual with your ATV at all times. This Arctic Cat ATV Operator's Manual should be considered a permanent part of the ATV and must remain with the ATV at the time of resale. If the ATV changes ownership more than once, contact Arctic Cat Inc., Service Department, P.O. Box 810, Thief River Falls, MN 56701, for proper registration information.





Labels should be considered as permanent parts of the ATV. If a label comes off or becomes hard to read, contact your Arctic Cat dealer for a replacement.

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

For your safety, it is important all operators be properly trained to operate an ATV. Training is available: U.S. owners, call 800-887-2887; Canadian owners, call 613-739-1535.

Pour votre sécurité, il est importante que tout opérateur est formé correctement pour opérer un VTT. Un cours d'instruction est disponible: pour les propriétaires canadiens, composez le 613-739-1535.

Particularly important information is distinguished in this manual by the following notations:

	The Safety Alert Symbol means ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED.
 WARNING	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	CAUTION , without the safety alert symbol, is used to address practices not related to personal injury.
 NOTE:	A NOTE provides key information to make procedures easier or more clear.

California Proposition 65

 WARNING
This product contains or emits chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Foreword

Congratulations and thank you from Arctic Cat Inc. for purchasing an ARCTIC CAT® All-Terrain Vehicle (ATV). Built with American engineering and manufacturing know-how, it is designed to provide superior ride, comfort, utility, and dependable service.

This Operator's Manual is furnished to ensure that the operator is aware of safe operating procedures. It also includes information about the general care and maintenance of your ATV.

Carefully read the following pages. If you have any questions regarding this ATV, contact an authorized Arctic Cat ATV dealer for assistance. Remember, only authorized Arctic Cat ATV dealers have the knowledge and facilities to provide you with the best service possible.

Protect Your Sport

- Know all local, state/provincial riding laws,
- Respect your ATV,
- 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 on the latest product data and specifications available at the time of printing. Arctic Cat Inc. reserves the right to make product changes and improvements which may affect illustrations or explanations without notice.

Division II of this manual covers operator-related maintenance, operating instructions, and storage instructions. If major repair or service is ever required, contact an authorized Arctic Cat ATV dealer for professional service.

At the time of publication, all information and illustrations in this manual were technically correct. Some illustrations used in this manual are used for clarity purposes only and are not designed to depict actual conditions. Because Arctic Cat Inc. constantly refines and improves its products, no retroactive obligation is incurred.

Parts and Accessories

When in need of replacement parts, oil, or accessories for your Arctic Cat ATV, be sure to use only GENUINE ARCTIC CAT PARTS, OIL, AND ACCESSORIES. Only genuine Arctic Cat parts, oil, and accessories are engineered to meet the standards and requirements of your Arctic Cat ATV. For a complete list of accessories, refer to the current Arctic Cat ATV Accessory Catalog.

To aid in service and maintenance procedures on this ATV, a Service Manual and an Illustrated Parts Manual are available through your local Arctic Cat ATV dealer.

Arctic Cat and the ATV Safety Institute recommend that all ATV operators ride the appropriate-sized ATV according to age.

Category	Age (Years)	Speed Limitations (MPH)	NOTES
Y-12+	12 or Older	15 - Limited 30 - Maximum	Operate Under Adult Supervision
T-14	14 or Older	20 - Limited 30 - Limited 38 - Maximum	Operate Under Adult Supervision
G & S	16 or Older	According to Local Regulations	—

TREAD LIGHTLY! **OFFICIAL**®
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DIVISION I - SAFETY

An ATV is not a toy and can be hazardous to operate.

- 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 slow speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Always have the ATV checked by an authorized Arctic Cat ATV dealer if it has been involved in an accident.
- 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 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 ATV to lean sharply to one side. Go straight down the hill where possible.
- 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 follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with 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 techniques 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 backward 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 mount 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.
- Never operate an ATV in fast flowing water or in water deeper than the footrests. Remember that wet brakes may have reduced stopping capability. Test your brakes after leaving water. If necessary, apply them lightly several times to let friction dry out the pads.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never improperly install or improperly use accessories on this ATV.
- Never install a twist grip throttle on this ATV.
- 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 and allow greater distance for braking.
- No one under the age of 16 should operate this ATV. Some operators at the age of 16 may not be able to operate an ATV safely. Parents should supervise the use of the ATV at all times. Parents should permit continued use only if they determine that the operator has the ability to operate the ATV safely.

FOR MORE INFORMATION ABOUT ATV SAFETY, call the ATV Safety Institute at 1-800-887-2887 (U.S.) or 1-613-739-1535 (Canada).



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

ATV Safety Alert

The Consumer Product Safety Commission has concluded that ALL-TERRAIN VEHICLES (ATV's) may present a risk of SERIOUS INJURY or DEATH in certain circumstances. Accidents may occur for many reasons:

- * Over 2282 people, including many children, have died in accidents associated with ATV's since 2008.
- * Many people have become severely paralyzed or suffered serious internal injuries as a result of accidents associated with ATV's.
- * Every month thousands of people are treated in hospital emergency rooms for injuries received while riding an ATV.

You should be aware that 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 and over obstacles, if you fail to take proper precautions.

TO AVOID SERIOUS INJURY OR DEATH:

- * Always read the Operator's Manual carefully and follow the operating procedures described. Pay special attention to the warnings contained in the manual and on all labels.
- * Never operate an ATV without proper instruction. Take a training course. Beginners should complete a training course.
- * Always follow these age recommendations:
 - A Y-12+ is intended for use by children age 12 or older, and a T-14 is intended for use by an operator age 14 or older.

- A child under 16 years old should never operate an ATV without adult supervision. Children need to be observed carefully because not all children have the strength, size, skills, or judgment to operate an ATV safely.
- * Never carry a passenger on an ATV. Carrying a passenger may upset the balance of the ATV and may cause it to go out of control.
- * Always avoid paved surfaces. ATV's are not designed to be used on paved surfaces and may seriously affect handling and control.
- * Never operate an ATV on a public road, even a dirt or gravel one, because you may not be able to avoid colliding with other vehicles. Also, operating an ATV on a public road may be against the law.
- * Never operate an ATV without an approved motorcycle helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket.
- * Never consume alcohol or drugs before or while operating an ATV.
- * Never operate an ATV at excessive speeds. Go at a speed which is proper for the terrain, visibility conditions, and your experience.
- * Never attempt to do wheelies, jumps, or other stunts.
- * Always be careful when operating an ATV, especially when approaching hills, turns, and obstacles and when operating on unfamiliar or rough terrain.
- * Never lend an ATV to anyone who has not taken a training course or has not been driving an ATV for at least a year.



Rider Training Course

Arctic Cat sponsors a free Rider Training Course to teach ATV riding skills or to reinforce current riding skills. First-time purchasers without any previous ATV riding experience will receive a \$100.00 coupon from Arctic Cat through the SVIA/ASI after completing the training course (U.S. owners only, one incentive, and free rider training courses for appropriate immediate family members per ATV purchase). See an authorized Arctic Cat ATV dealer for details or call (800) 887-2887 for training course information.

In Canada, the Canada Safety Council (CSC) provides an ATV Rider's Course to teach safe ATV operating skills. They also provide a special ATV Rider's Course for children under 14 years of age with parental supervision. Call the CSC at 1-613-739-1535 ext. 227 for more details. Also available is a bilingual computer-based safety training program on a CD-ROM from CATV - call toll-free at 1-877-470-2288.

Au Canada, le conseil canadien de la sécurité (CSC) offre un cours de conduite de VTT pour enseigner les habiletés d'opération sécuritaires de VTT. Un cours spécial de conduite de VTT est également offert aux enfants de moins de 14 ans avec la surveillance d'un parent. Communiquez avec le CSC en composant le: 1-613-739-1535, poste 227 pour de plus amples informations. Un programme de formation bilingue informatisé sur la sécurité est aussi disponible sur disque optique compact par CATV; composez sans frais le: 1-877-470-2288.



FOR MORE INFORMATION ABOUT ATV SAFETY, in the U.S., call the Consumer Product Safety Commission at (800) 638-2772 or the ATV Distributors' Safety Hotline at (800) 852-5344 or in Canada, call the Canada Safety Council at 1-613-739-1535 ext. 227.

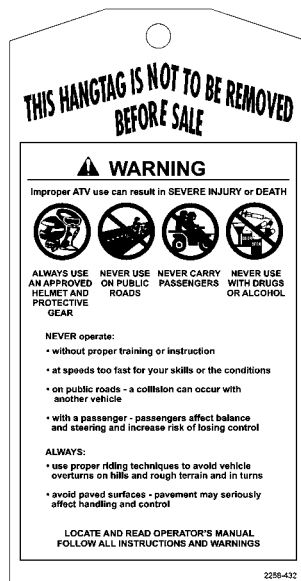
Visit the Arctic Cat Inc. website at www.arcticcat.com for additional product information.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Hangtags

An Arctic Cat ATV comes with hangtags containing important safety information. Anyone who rides the ATV should read and understand this information before riding.



2258-432

Pour commander des Etiquettes de Mise en Garde gratuites, voyez votre détaillant de autorisé VTT Arctic Cat pour le numéro de pièce 1436-485.



Warning Labels & Information

An Arctic Cat ATV comes with several labels containing important safety information. Anyone who rides the ATV should read and understand this information before riding.

The labels should be considered as permanent parts of the ATV. If a label comes off or becomes hard to read, contact your Arctic Cat ATV dealer for a replacement.

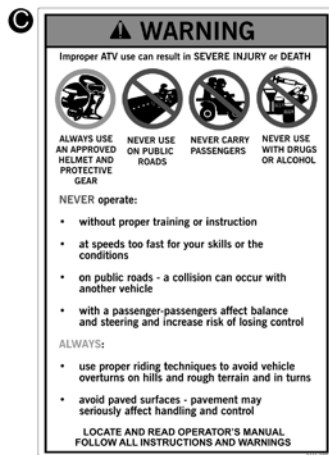
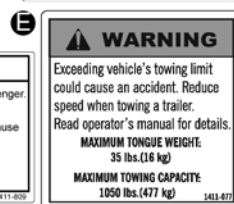
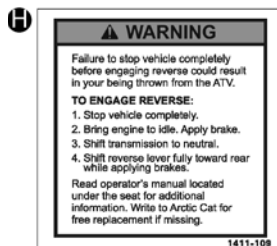
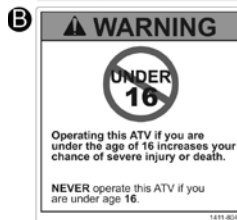
■ **NOTE:** The location and content of labels on the ATV you have purchased may differ from those shown on this page.



KC398A



KC400A



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Warnings

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. They should then regularly practice the skills learned in the course and the operating techniques described in this Operator's Manual.

For more information about the training course, contact an authorized Arctic Cat ATV dealer or call 1-800-887-2887 (U.S.) or 1-613-739-1535 (Canada).

WARNING

POTENTIAL HAZARD

Allowing anyone under age 16 to operate this ATV.

WHAT CAN HAPPEN

Use of an ATV by children can lead to serious injury or death of the child.

Children under the age of 16 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

A child under 16 should never operate this ATV.

WARNING

POTENTIAL HAZARD

Carrying a passenger on this ATV.

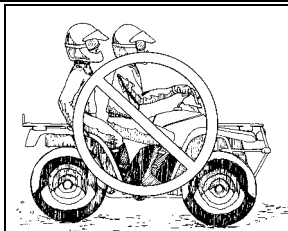
WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this ATV.

Could cause an accident, resulting in injury or death 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 positions as needed during operation. It is not for carrying passengers.



WARNING

POTENTIAL HAZARD

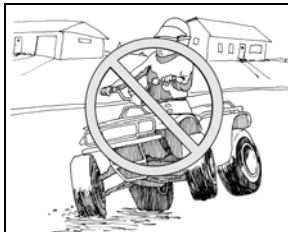
Operating this ATV on paved surfaces.

WHAT CAN HAPPEN

The ATV's tires are designed for off-road use only, not for use on pavement. Paved surfaces may seriously affect handling and control of the ATV and may cause the ATV to go out of control.

HOW TO AVOID THE HAZARD

Whenever possible, avoid operating the ATV on any paved surfaces including sidewalks, driveways, parking lots, and streets. If operating on paved surfaces is unavoidable, travel slowly (less than 10 MPH) and avoid sudden turns and stops.



⚠ WARNING

POTENTIAL HAZARD

Operating this ATV on public streets, roads, or highways.

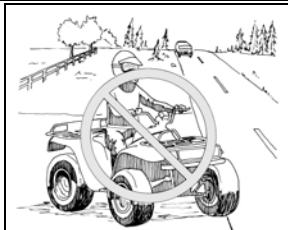
WHAT CAN HAPPEN

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 an ATV on public streets, roads, or highways.



⚠ WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

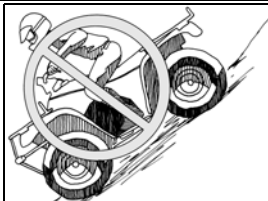
Always follow proper procedures for going down hills as described in this Operator's Manual.

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 that would cause the ATV to lean sharply to one side. Go straight down the hill where possible.



⚠ 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 serious 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 serious injury in the event of an accident.

Operating without protective clothing increases your chances of serious injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved helmet that fits properly.

You should also wear:

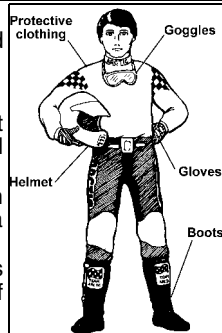
- Eye protection (goggles or face shield)

- Gloves

- Boots

- Long sleeved shirt or jacket

- Long pants



⚠ WARNING

POTENTIAL HAZARD

Failure to release the brake lever lock before driving the ATV.

WHAT CAN HAPPEN

Driving the ATV with the brake lever lock engaged could cause a change in handling or loss of brakes and cause an accident.

HOW TO AVOID THE HAZARD

Always release the brake lever lock before driving the ATV.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ 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 ride at a speed that is proper for the terrain, visibility and operating conditions, and your experience.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV after or while 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

Improperly operating in reverse.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

⚠ WARNING

POTENTIAL HAZARD

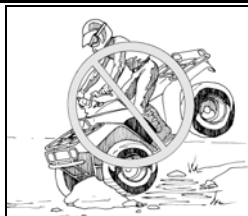
Failure to use extra care when operating the ATV on unfamiliar terrain.

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.



⚠ 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 this Operator'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 a footrest, your foot or leg may come into contact with the 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.

⚠ WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could cause loss of traction or ATV control, which could result in an accident including a rollover.

HOW TO AVOID THE HAZARD

Do not operate on 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.



⚠ WARNING

POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in this Operator's Manual.

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

Do not turn at excessive speed.

⚠ WARNING

POTENTIAL HAZARD

Operating the ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of the ATV may cause changes in handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify the ATV through improper installation or improper use of accessories. All parts and accessories added to this ATV should be genuine Arctic Cat ATV components designed for use on the ATV and should be installed and used according to instructions. Never install a twist grip throttle. If you have questions, consult an authorized Arctic Cat ATV dealer.

⚠ WARNING

POTENTIAL HAZARD

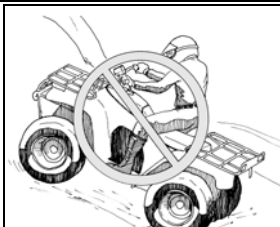
Operating on steep hills.

WHAT CAN HAPPEN

The ATV can overturn more easily on 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 larger hills.



⚠ WARNING

POTENTIAL HAZARD

Overloading the ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for the 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 this Operator's Manual for carrying cargo or pulling a trailer.

⚠ WARNING

POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

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

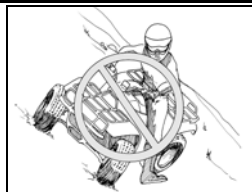
HOW TO AVOID THE HAZARD

Avoid crossing the side of a hill or turning on a hill whenever possible. Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in this Operator's Manual. Practice first on level ground. Be very careful when turning on any hill.

If crossing the side of a hill or turning on a hill is unavoidable:

Always follow proper procedures as described in this Operator's Manual.

Avoid hills with slippery or loose surfaces.
Shift your weight to the uphill side of the ATV.



⚠ WARNING

POTENTIAL HAZARD

Attempting wheelies, jumps, and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident including a rollover.

HOW TO AVOID THE HAZARD

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



⚠ WARNING

POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in this Operator's Manual.

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

Never climb hills with slippery or loose surfaces.

Shift your weight forward.

Never open the throttle suddenly or make sudden gear changes. 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.

Never Operate Up Or Down Hills Steeper Than 25°



⚠ WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could result in the ATV overturning.

HOW TO AVOID THE HAZARD

Use proper gear and maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Engage the brake lever lock after you are stopped.

If you begin rolling backwards:

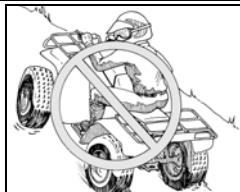
Keep weight uphill.

Apply the brakes while rolling backwards.

When fully stopped, engage the brake lever lock.

Dismount on uphill side or to a side if pointed straight uphill.

Turn the ATV around and mount following the procedure described in this Operator's Manual.



⚠ 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.

Never attempt to ride over large obstacles, such as large rocks or fallen trees.

When you go over obstacles, always follow proper procedures as described in this Operator'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

Learn to safely control skidding or sliding by practicing at slow speeds and on level, smooth terrain.

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

⚠ WARNING

POTENTIAL HAZARD

Operating the 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

Never operate the ATV in fast flowing water or in water deeper than the footrests.

Remember that wet brakes may have reduced stopping capability.

Test your brakes after leaving water. If necessary, apply them several times to dry out the pads.

⚠ WARNING

POTENTIAL HAZARD

Operating the ATV with improper tires or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on the ATV, or operation of the ATV with improper or uneven tire pressure, may cause loss of control increasing your risk of accident.

HOW TO AVOID THE HAZARD

Always use the size and type tires specified in this Operator's Manual for this ATV.

Always maintain proper tire pressure as described in this Operator's Manual.

Prevention

Overview

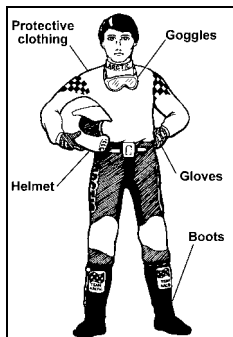
When using an ATV, prevention is the name of the game. “Had you only known” something could go wrong, you would have prevented it. If you don’t notice your conditions and surroundings before riding your ATV, you give up control over the situation. Using ATV prevention techniques helps you forecast potential hazards before they injure you or damage your ATV.

Following the safety instructions and warnings in this manual will help you “P.A.S.S.” the safety test. P.A.S.S. stands for “Prevention,” “Active Riding,” “Sound Judgment,” and “Supervision.” Remembering P.A.S.S. and what it stands for will help you have a safe, predictable ride every time you go out on your ATV.

Safe Riding Clothing and 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.

You’ll find it important to dress correctly for ATV riding in order to prevent scraped skin and serious head injuries. It’s easy and could save you time in the long run not having to contend with an injury. Of course, it also makes sense to remember the seasons. Wear a hat under your helmet and a snowmobile suit in the winter and lighter, protective clothing in the summer. Following is the minimum protection you need to wear during every ride.



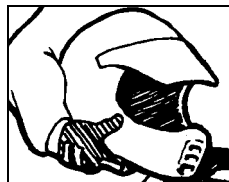
Helmet

Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a serious head injury. There are several types of helmets on the market, but make sure you wear a helmet that complies with the current standards of the U.S. Department of Transportation (DOT), The Snell Memorial Foundation, or the American National Standards Institute (ANSI). Helmets that comply with one or more of these agency’s standards have a sticker on the inside or outside of the helmet.

These helmets should provide full-face protection.

If you drop or damage your helmet, get a new one immediately. Your helmet may not protect your head from injury if it has cracks, fissures, or other damage to its outside or core padding.

Remember, your helmet won’t do you any good if the chin strap isn’t fastened.



Gloves

Your hands are targets for flying objects and branches. Along with providing skin protection, gloves will shield your hands from harsh weather. Wear gloves that are weather resistant and have a gripping surface to keep them from sliding off the handlebar. Off-road style gloves with knuckle pads are the best for comfort and protection.

Boots/Ankle Protection

Wear a boot that covers the largest possible area of your leg (preferably up to your knee) and can handle significant impact. Choosing boots with low heels and a good tread will help prevent your feet from slipping off the footrests in wet or rugged conditions or getting hurt if they get hit by rocks, dirt, or branches.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Eye Protection

Wear eye protection, such as goggles, to completely surround your eyes to prevent getting dirt or other items in your eyes. Do not depend on sunglasses for proper eye protection. Sunglasses are not recommended; they don't prevent objects from flying in through the sides.

Long Pants and Long Sleeved Shirt

The goal is to protect your body from branches, long grass, airborne objects, or anything else that could scrape your skin. The more thick and durable the material, the better protection it'll provide. Riding pants with kneepads, a jersey, and shoulder pads provide the best protection.

ATV Condition

The second step in Prevention is checking the condition of your ATV. Chances are good that you'll be using your ATV in some rough terrain, and there's no way you want your brakes to go out when riding downhill. You need to check the following parts on your ATV before every ride.

1. Tires and Wheels
2. Controls and Cables
3. Lights and Electric
4. Oil and Fuel
5. Chassis
6. Miscellaneous Items

1. Tires and Wheels

Correct tire pressure is crucial. Consult the Specifications section of this Operator's Manual for tire pressure guidelines. Incorrect tire pressure can cause poor handling, instability, and a loss of ATV control.

Check:

1. Tire pressure
2. Tire surface (tread and sidewalls)

While checking the tire pressure, inspect the tread and sidewalls of the tires for cracks, cuts, or other damage that could indicate they need to be replaced.

2. Controls and Cables

With the engine running and brake applied, check all transmission positions: forward, neutral, and reverse.

Check:

1. Forward
2. Neutral
3. Reverse

A. Brakes

Squeeze the hand brake lever. If it feels soft or "squishy," it could be low on fluid or have a leak — refer to the General Maintenance section of this Operator's Manual for instructions. Don't use the ATV until the brakes are operating normally.

Check:

1. Hand brake lever
2. Brake pedal
3. Brake lever lock

Test the brake lever lock and see if it locks the hand brake lever into position; then disengage it to release the brake. Be sure the brake pedal near the footrest is working; your brakes could fail during a ride if they're not maintained.



B. Throttle

Before starting the ATV, push the throttle lever several times. The throttle should have a free, smooth range of motion. If it seems to “stick” at any point, refer to the General Maintenance section of this Operator’s Manual for instructions. Driving your ATV with a sticking throttle can turn your leisurely ride into an unwelcome accident. Don’t drive your ATV if the throttle sticks.

Check:

1. Free, smooth range of motion

3. Lights and Electric

Turn the hi-beam and lo-beam on and off to make sure they work. At the same time, verify the taillight and brakelight work. Also, check the status/warning indicators (reverse, neutral, and hi-lo beam) on the handlebars when you start the ATV. Don’t drive the ATV unless all systems are working. Check the ignition switch and emergency stop switch.

Check:

1. Hi-beam
2. Lo-beam
3. Taillight/brakelight
4. Status/warning indicators
5. Ignition switch
6. Emergency stop switch

4. Oil and Fuel

Start with a full tank of gas before every ride, and while you’re at it, top off the oil. Don’t forget to check for fluid leaks around the ATV. Watch the overheat indicator to ensure the engine coolant level is adequate.

Check:

1. Gas
2. Oil
3. Fluid leaks

5. Chassis

Grass and leaves can gum-up your suspension and shocks. Clear and clean the suspension arms, shock springs, and fenders. Check smoothness by turning the handlebar full-left and full-right. Check that there is no binding, restrictions, free-play, or looseness in steering components.

Check:

1. Suspension arms
2. Shock springs
3. Fenders
4. Steering

6. Miscellaneous Items

Inspect your air filter. Look for debris or damage that may indicate you need to replace it. A clogged filter can stop an engine. Check your battery terminals for corrosion. Also, be sure to tighten any loose parts, nuts, or bolts.

Check:

1. Air filter
2. Battery
3. Tighten parts, nuts, and bolts

First Aid and Survival

You need to prepare for the unexpected. Emergencies and accidents are traumatic enough, but they’re even worse when you’re not prepared for them. At the minimum during every ATV ride, you should have the following items on board:

- Tools
- Water
- Identification
- First Aid Kit

For rides that are longer in duration and distance, the following additional items are recommended:

- Cellular Phone
- Maps/GPS
- Emergency Kit *with Flashlight and First Aid Kit*



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Tools

Routine maintenance will generally eliminate the need for emergency repairs. Riding on rough terrain could cause loosening of nuts, bolts, and fasteners. Especially on long rides, carrying the right tools can prevent an inconvenience from becoming a crisis.

Carry these items on your ATV:

1. Bulbs
2. Duct tape
3. Rope
4. Spark plugs
5. Spare parts
6. Tool Kit

Water

Water is so important that you need to carry it regardless of the duration of your ride. Heat exhaustion and heat stroke can creep up suddenly and can take you out of commission. If you become dehydrated, you could find yourself physically unable to safely operate your ATV.

Identification

If something does happen to you, the emergency personnel will want to know who you are and whom to contact. It's possible you may be in no condition to give them that information. Put your I.D. in your pocket before you ride. Without it, you're anonymous.

Cellular Phone

It may be necessary to make an urgent phone call.

Maps/GPS (Global Positioning System)

Maps may be unnecessary when you're familiar with the area. But when you're riding on unfamiliar trails, it's good to know where you are, what's coming up, and how to get back.

Emergency Kit with Flashlight and First Aid Kit

You'll need several items in your Emergency Kit including a flashlight. The matches will come in handy if you need to start a fire to stay warm. Flares are appropriate for signaling help. A first aid kit is very important if an injury of some type should happen. A good First Aid Kit should include bandages, antiseptic spray, gauze, tape, etc.

Carry these items:

1. Flashlight
2. Matches
3. Flares
4. First Aid Kit
5. Money



Active Riding

Overview

“Active Riding” is the second part of “P.A.S.S.” It involves an understanding of how your body weight, balance, gravity, and physical forces affect the handling of the ATV. Knowing how to shift your weight is necessary to avoid rolling or flipping the ATV.

For complete operating instructions, see ATV OPERATION section in this manual.



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Sound Judgment

Overview

You are not invincible. Knowing that the first “S” in “P.A.S.S.” stands for “Sound Judgment” means you need to use yours.

Environment

The environment you operate an ATV in is often harsh and sometimes dangerous if you don’t take proper precautions.

Weather

You need to consider the weather. It is dangerous to ride your ATV when the weather is bad or potentially bad. Keep abreast with weather forecasts.

Terrain

Always pay close attention to the terrain you’re on, even if it is familiar to you. You can’t assume that the landscape you’re used to doesn’t change. Changes to landscape can happen at nearly any time. Fences can be constructed and excavations dug in a short period of time. Weather, climate, and development take their toll.

The thing about terrain is that sometimes you don’t know it’s changed until you get there. Whether it’s familiar or not, check out your surroundings before and during your ride.

Night Riding

Riding at night can be very hazardous. Obstacles and other hazards (that are easily identified during daytime) are much more difficult to see and avoid. When night riding, make sure the lights are properly adjusted and in good working order. Reduce speed; do not over-drive the headlights. Never travel in an unfamiliar area or blaze a new trail at night. Always carry a flashlight or flare for signaling an emergency.

Paved Surfaces

Avoid whenever possible. The ATV isn’t designed for pavement. Its handling becomes more difficult on paved surfaces. If operating on paved surfaces is unavoidable, travel slowly (less than 10 MPH) and avoid sudden turns and stops.

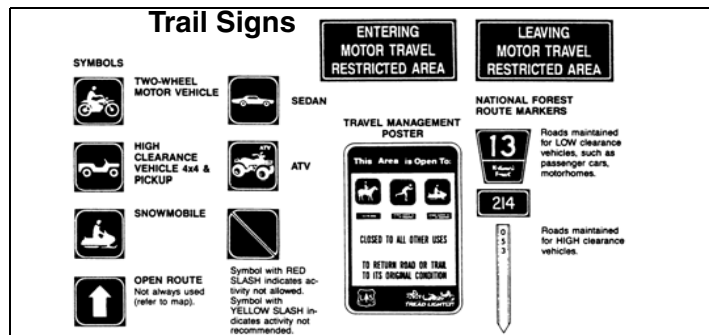
Trail Riding

Use sound judgment when trail riding; that means riding on a trail that fits your ability level. If the trail is pretty rugged, standing up on your footrests will make it easier for you to endure the rough terrain.

Make yourself visible by using headlights and taillights, and pull completely off the trail if you need to stop.

Outsloped trails (trails that slant to allow rain to run off) make trail riding a bit more challenging. Keep your weight shifted into the slope.

It also helps to know which trails you can legally ride and who else might be on those same trails. These are signs currently used in some areas to designate trail types and restrictions.



ATV-0068

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WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Those Around You

People do all kinds of things that you can't predict or control.

Riding Companions

Leave a lot of space between you and other riders, especially in dusty and dirty conditions, because it'll be difficult to see the riders in front of you stopping.

Do not carry a passenger on any ATV designed for single-rider use. These ATV's do not have appropriate equipment (hand-holds, foot-rests, etc) to accommodate riders. Additionally, the added weight and weight shift can make the vehicle difficult to control.

Other Vehicles

Depending on where you're riding, you might encounter other ATV's, bikes, or motor vehicles on public lands. Respect the presence of cars if you're crossing roads or riding in public areas and make yourself be seen. If you can't see other vehicles coming, that means you're invisible, too.

Hikers

With the renewed interest in hiking, camping, and other outdoor activities, people can show up in remote areas where you would never expect them. For their sake, keep your eyes open.

Animals and Nature

Respect the outdoors that you love. Don't use your ATV to chase animals or birds. Drive around young trees rather than over them. Keep clear of streams and ditches with standing water.

Tread Lightly and leave it as you found it.

Equipment

The last thing you expected was that your ATV would break down in the middle of the field... it's usually so reliable that sometimes you forget the ATV has its limits.

ATV Maintenance

You have to maintain your ATV. The General Maintenance section of this Operator's Manual tells you about taking care of your ATV. If, at any time, abnormal noises, vibrations, or improper functioning of any component of this ATV is detected, **DO NOT OPERATE THE ATV**. Take the ATV to an authorized Arctic Cat ATV dealer for inspection and adjustment or repair.

Cargo Limitations

One reason why passengers are prohibited on ATV's is because their presence throws off the weight and balance of the ATV. Cargo can do the same if it weighs too much. Limit the ATV to the load capacity ratings identified in the following chart for the particular model being operated. So if you're weighing in at over 200 lb (91 kg) when you ride, leave some of that extra cargo at home. The combined weight limit, including you, your rack cargo, and your trailer, is a specified amount, so consult the ATV Load Capacity Ratings chart and monitor it carefully.

Extra weight on the ATV will also throw you off balance if it's not distributed evenly, side-to-side and front-to-rear. If you have 150 lb (68 kg) on the rear rack only and you're heading up an incline, shifting your own weight forward isn't going to do enough to compensate for that cargo sitting over the back tires.

Think about these when dealing with cargo:

1. Rack weight limit
2. Trailer weight limit
3. Weight distribution
4. ATV speed



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Cargo has such a huge affect on ATV handling that you need to pay a lot of attention to your speed. Even on really level areas, you should keep it under 10 mph (16 kph) if you've got a trailer attached. Avoid uneven terrain. Also, consider that your braking distance is going to increase with the more weight you carry.

Load Capacity Ratings Chart

Item	Specifications	
	(lb)	(kg)
Vehicle Load Capacity	285	129
Tongue Weight	35	16
Towing Capacity	1050	477

Vehicle Load Capacity - Total weight of operator, accessories, and tongue weight.

Tongue Weight - Weight on trailer tongue.

Towing Capacity - Total weight of trailer and all cargo in the trailer.

■ **NOTE:** Tongue and accessory weight (winch, brackets, etc.) must be included as part of the weights.

■ **NOTE:** Use extra caution when operating an ATV with additional loads such as accessories and/or cargo. Handling of the ATV may be adversely affected. Reduce speed when adding additional loads.

WARNING

POTENTIAL HAZARD

Overloading the ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for the 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 this Operator's Manual for carrying cargo or pulling a trailer.

Personal Choices

A safe, enjoyable ride is dependent on many personal choices. An ATV, like all motorized vehicles, can be dangerous to operate if you choose to ignore safety precautions, take unnecessary chances, or ride beyond your ability or your machine's capability. Don't allow the thrill of freedom or adventure to affect your ability to make good, safe choices.

Alcohol and Drug Consumption

It's extremely dangerous and often illegal to drink alcoholic beverages and ride.

Substances to avoid when riding:

1. Alcohol
2. Over-the-counter or prescription drugs

Be aware of prescription and over-the-counter medications. Drowsiness and impaired judgment can be caused by a wide variety of medications. The same is true of allergy, cold, flu, and headache medications. Your physical size and weight can't protect you... just one antihistamine tablet can affect your judgment.

Don't use alcohol or drugs before or during your ATV ride.

THE EFFECTS OF ALCOHOL*

The Number of Drinks that Impair Mental and Physical Abilities

1-2 DRINKS

Mental processes such as restraint, awareness, concentration, and judgment affected; reaction time slowed; inability to perform complicated tasks.

3-4 DRINKS

Depth perception, glare recovery, eye movement, and focus affected; decreased judgment and control.

5+ DRINKS

Coordination deteriorates, loss of critical judgment, and impaired memory and comprehension.

*According to the ATV Safety Institute.

Your Physical Condition

Your physical condition is critical to safe ATV operation. Don't ride when tired and consider your health when planning longer rides.

Don't ride:

1. When you're tired

Reckless Riding

Where excessive or high speed is a factor, the potential for personal injury is greatly increased. Ride within reason and your skill level. Avoid maneuvers that are reckless. Don't show off.

Laws and Regulations

Any police officer will tell you that ignorance of the law is no defense. Your best defense is to check out your local, state, or provincial ATV laws before riding. It'll also make sure that you can continue to ride in your favorite areas. The quickest way to have a land area closed is by riding over the regulations.

Group Behavior

When riding in a group, it is human nature to try to keep up with or out-do those around you. We can all be competitive and that can lead to risk taking resulting in serious injury or equipment damage. Know your limitations and don't be afraid to slow the pace down.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Supervision

Overview

You're responsible for supervising those who ride your ATV. Your wisdom is valuable... it'll bring them all back safely—your friends, your family, your relatives, and your ATV. It's crucial that you consider yourself a supervisor for all riders of your ATV. Whether you accept responsibility or not, the truth is that you are responsible for others riding your ATV.

Taking Responsibility

You're to the last letter in "PASS"... "Supervision." You've just gone through the manual, and you've seen what's involved. That puts you in a good position to be confident about what you know. So now it's time to use your knowledge and supervise others who ride your ATV.

Inexperienced/Untrained Riders

You can't let people ride your ATV who don't know what they're doing. Unless they've had over a year of experience with ATV riding or taken an ATV training course, it's your responsibility to keep them off your ATV. It can be dangerous (especially for underaged children) — all the more reason for you to be firm.

Experienced/Trained Riders

If anyone is going to borrow your ATV, you are responsible for their supervision. Before they ride, have them take the training course, have them watch the safety video, have them read the Operator's Manual, and train them.

ATV's are all a little different from the handling to the stability to the controls. So regardless of how much experience your family members have with ATV's, they don't have experience with *your* ATV. Let experienced riders get familiar with your ATV—show them the basics before they take off. You don't want it on your conscience that someone got hurt because you didn't tell them how to use your ATV.

Remember that regardless of experience, you should never let anyone under the age of 16 operate your ATV.

Arctic Cat and the ATV Safety Institute recommend that all ATV operators ride the appropriate-sized ATV according to age.

Category	Age (Years)	Speed Limitations (MPH)	NOTES
Y-12+	12 or Older	15 - Limited 30 - Maximum	Operate Under Adult Supervision
T-14	14 or Older	20 - Limited 30 - Limited 38 - Maximum	Operate Under Adult Supervision
G & S	16 or Older	According to Local Regulations	—

DIVISION II - OPERATION/ MAINTENANCE

ATV Specifications

ENGINE	
Type	Four-Cycle/Liquid Cooled
Bore x Stroke	89 mm x 71.12 mm (3.5 x 2.8 in.)
Displacement	442.45 cc (27 cu in.)
Spark Plug Type	NGK CR7E
Spark Plug Gap	0.7-0.8 mm (0.028-0.031 in.)
Brake Type	Dual lever, independent front & rear hydraulic brakes w/foot brake
CHASSIS	
Length (Overall)	186.2 cm (73.3 in.)
Height (Overall)	118.9 cm (46.8 in.)
Width (Overall)	120.7 cm (47.5 in.)
Suspension Travel (Front/Rear)	17.7 cm (7.0 in.)
Tire Size (Front)	23 x 8-12
Tire Size (Rear)	23 x 10-12
Tire Inflation Pressure	40 kPa (5.7 psi)

Specifications subject to change without notice.

MISCELLANY	
Dry Weight (Approx)	272.2 kg (600 lb)
Gas Tank Capacity	16.3 L (4.3 U.S. gal.)
Differential Capacity	275 ml (9.3 fl oz)
Coolant Capacity	1.8 L (1.9 U.S. qt)
Rear Drive Capacity	250 ml (8.5 fl oz)
Engine Oil Capacity (Approx)	2.8 L (3.0 U.S. qt)
Gasoline (Recommended)	87 Octane Regular Unleaded
Engine Oil (Recommended)	Arctic Cat ACX All Weather (Synthetic)
Differential/Rear Drive Lubricant	SAE Approved 80W-90 Hypoid
Taillight/Brakelight	12V/5W/21W
Headlight	12V/35W (4)
Running Light	5W
Starting System	Electric

Location of Parts and Controls



KC405A



KC401A



KC391A

1. Battery
2. Headlights
3. Rear Brake Lever
4. Power Distribution Module
5. Electrical Access Panel
6. Seat Latch
7. Storage Compartment
8. Reverse Override Switch
9. Rear Foot Brake
10. Brake Lever Lock
11. Key Switch
12. Shift Lever
13. Throttle Limiter
14. Throttle Lever
15. Front Brake Lever
16. Taillight/Brakelight
17. Operator's Manual Location
18. Headlight HI/LO Switch
19. Starter Button
20. Emergency Stop Switch
21. Drive Select Switch

■ **NOTE:** The ATV you have purchased may differ slightly from those shown in the figures of this manual.

ATV Operation

Basic Operating Maneuvers

Active riding and basic maneuvers are the foundation of your ATV ride. Without basic skills, it's impossible to move to this level— active riding. These are your basic maneuvers:

- Mounting the ATV
- Starting the Engine
- Starting a Cold Engine
- Braking/Stopping
- Shifting
- Parking
- Dismounting the ATV

Mounting the ATV

1. From the left side, grab the left-side handlebar, apply the brake, and put your left foot on the footrest.
2. Grab the right-side handlebar.
3. Swing your leg over the seat and set your right foot down on the right-side footrest.
4. Get seated in a comfortable position.
5. Always keep your feet planted on the footrests.

Starting the Engine

Always start with the ATV on a flat, level surface. Carbon monoxide poisoning can kill you, so keep your ATV outside while it's running. Follow these steps to start it up:

1. Mount the ATV and sit down.
2. Engage the brake lever lock.
3. Turn on the ignition.

4. Shift into neutral.
5. Move the emergency stop switch to RUN.
6. Press the starter button.

CAUTION

Do not run the starter motor for more than eight seconds per starting attempt. The starter motor may overheat causing severe starter motor damage. Allow 15 seconds between starting attempts to allow the starter motor to cool.

7. Let the engine warm up.

Starting A Cold Engine

■ **NOTE:** It is very important not to touch or compress the throttle lever during the starting procedures.

1. Turn off all electrical accessories (hand warmer, lights, etc.); then rotate the ignition switch key to the first position (ON) leaving the headlights OFF. Note that the N is indicated on the LCD.
2. Press on the starter button.

CAUTION

Do not run the starter motor for more than eight seconds per starting attempt. The starter motor may overheat causing severe starter motor damage. Allow 15 seconds between starting attempts to allow the starter motor to cool.

■ **NOTE:** Do not touch the throttle lever until the engine has run for at least 3 minutes.

3. Allow the engine to warm up for approximately 2-3 minutes or until the ATV will accelerate without hesitating.

Braking/Stopping

Always allow plenty of room and time to stop safely. Sometimes quick stops are inevitable, so always be prepared. Whether you're stopping slowly or stopping quickly, do this:

1. Squeeze the left brake lever or step on the brake pedal to apply the rear brakes, and squeeze the right brake lever to apply the front brakes.
2. If your wheels lock, release them for a second; then apply them again.
3. Never "ride" the brake. Even maintaining minimal pressure on the brake lever will cause the brake pads to drag on the disc and may overheat the brake fluid.

WARNING

Excessive repetitive use of the hydraulic brake for high speed stops will cause overheating of the brake fluid and premature brake pad wear which will result in an unexpected loss of brakes.

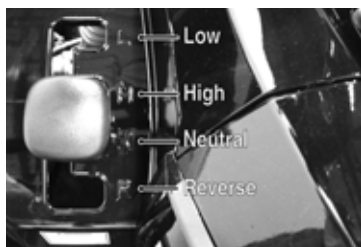
WARNING

Use only Arctic Cat approved brake fluid. Never substitute or mix different types or grades of brake fluid. Brake loss can result. Check brake fluid level and pad wear before each use. Brake loss can result in serious injury or death.

Shifting

The Arctic Cat ATV with an automatic transmission has a dual-range transmission with reverse. To shift the ATV, follow these steps:

1. To engage the high range from neutral, move the shift lever forward.
2. To engage the low range from high range, move the shift lever outward and forward.



KC366A

■ NOTE: The high range is for normal riding with light loads. The low range is for carrying heavy loads or trailer towing. Compared to HIGH range, the LOW range position provides slower speed and greater torque to the wheels.

CAUTION

Always shift into low range when operating on wet or uneven terrain, when towing or pushing heavy loads, and when using a plow. Failure to follow this caution may result in premature V-belt failure or in damage to related drive system components.

3. To engage reverse gear from neutral, move the shift lever outward and rearward into the R position.

CAUTION

Always come to a complete stop before attempting to shift from one range to the other or into reverse. Always shift on level ground, or engage the brake lever lock before shifting into another range or into reverse.

WARNING

Do not start the engine or operate this ATV with the clutch shield removed. Serious injury could result.

Parking

Parking involves following the previous rules for braking; then:

1. After the ATV stops, shift into neutral.
2. Stop the engine using the emergency stop switch.
3. Turn off the ignition.
4. If you have to park on a hill, shift the ATV into low gear; otherwise, try to park only on level surfaces.
5. Engage the brake lever lock.

Dismounting the ATV

After you've followed the procedure for parking, it's time to dismount:

1. Double check that the brake lever lock is engaged.
2. Swing your right leg over to the left side of the seat.
3. Step to the ground on the left side of the ATV.

Handling the ATV (Active Riding Techniques)

Active riding involves moving your body. You must learn to lean and shift your weight into your turns to maintain control.

Your safety depends on using safe riding techniques. Statistics from the U.S. Consumer Product Safety Commission (CPSC) say that inexperienced riders who don't use safe riding techniques are **13 times more likely to have an ATV accident** than riders who have over 1 month of experience.

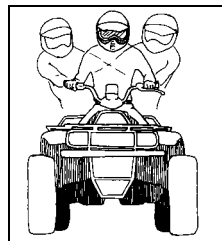
Safe riding techniques include:

- Riding
- Leaning, Weight Shift, and Balance
- Wide Turns
- Sharp Turns
- K-Turns
- Riding Uphill
- Riding Downhill
- Sidehilling/Traversing
- Swerving
- Crossing Obstacles

Riding

Once the engine's warm, the ATV is ready to go.

1. Keep your feet on the footrests and both hands on the handlebar.
2. Hold the brake lever, and release the brake lever lock.
3. Shift into gear.
4. Release the brake slowly and apply the throttle.



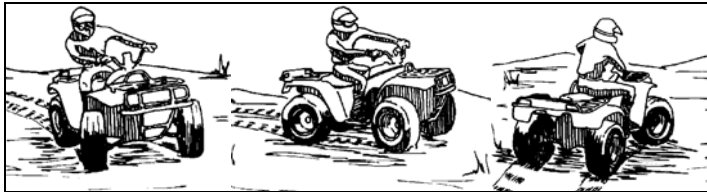
Leaning, Weight Shift, and Balance

When you turn, the trick is to move forward and slide over to the side of the seat that's on the inside of the turn. Support your body weight on the outside footrest. At the same time, lean your body to the inside of the turn. Pay attention to the handling—if you feel the tires coming off the ground, reduce speed, shift more of your body weight to the side that's lifting, and make the turn wider if possible.



Wide Turns

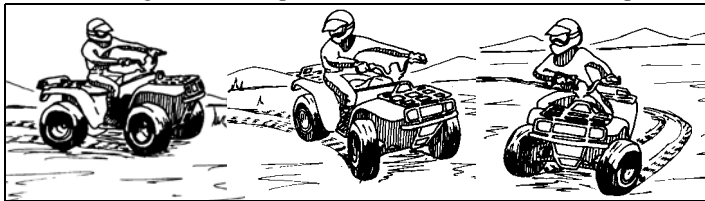
Many ATV accidents happen during turns. If you don't understand turning techniques, it's easy for the ATV to get away from you by losing traction, plowing, or tipping. Use this method for wide turns:



1. Ease off the throttle as you approach the turn to slow down.
2. Use the principles of leaning, weight shifting, and balancing—shift your body weight to the inside of the turn.
3. Gradually increase your speed as you come out of the turn.

Sharp Turns

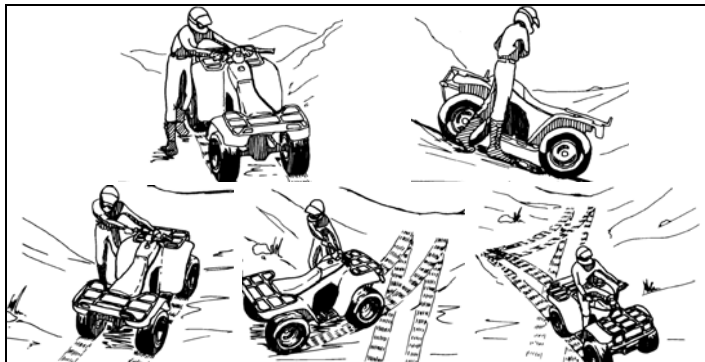
After mastering wide turns, practice the advanced skill of sharp turns.



1. Ease off the throttle as you approach the turn to slow down.
2. Use the principles of leaning, weight shifting, and balancing—shift your body weight to the inside of the turn.
3. You might have to lean into the turn more than you do in a wide turn.
4. If shifting your weight and balance aren't enough to keep the ATV tires on the ground, straighten out the handlebar as much as you can.
5. Gradually increase your speed as you come out of the turn.

K-Turns

Use K-turns if you accidentally stall while riding uphill; you need to take action before the ATV rolls backward down the hill.



1. Stop where you are, apply the brakes, and shift to neutral.
2. Shut off the engine.
3. Keep your body weight shifted forward.
4. Get off the ATV on the uphill side.
5. If you're to the left of the ATV, turn the handlebar all the way left.
6. Partially release the brake, but lightly hold the brake lever.
7. Let the ATV roll to your right side until it faces slightly downhill.
8. Reapply the brakes.
9. Get back on the ATV from the uphill side, and keep your weight shifted uphill when you sit down.
10. Start the engine and follow the method for riding downhill.

Riding Uphill

Many accidents happen while riding on hills and as a result of the ATV rolling or flipping. So, obviously, use extreme caution and follow this method for riding uphill.



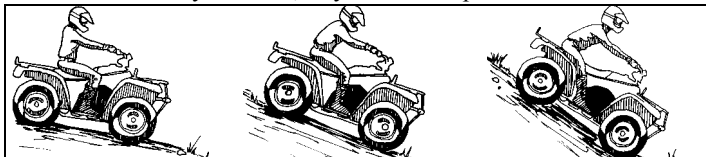
1. Shift down and accelerate before you start climbing; then maintain a steady pace.
2. Lean as far forward as possible. For steeper hills, come off your seat to stand and lean forward.
3. If you lose speed, release the throttle (so your front tires don't lift), **OR**
4. If that doesn't work and you still have forward motion and the terrain permits, do a U-turn, go back down, and try climbing again, **OR**
5. If you have lost all forward motion, follow the K-turn procedure.

**Never Operate Up
Or Down Hills
Steeper Than 25°**

25° MAX.

Riding Downhill

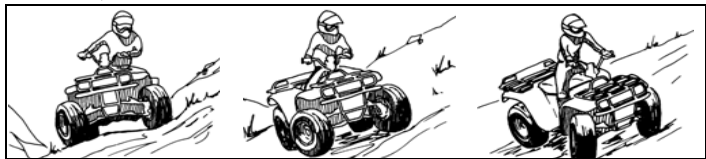
Success in riding downhill depends on how well you know your brakes—take it easy on them, or you could flip over.



1. Shift your body weight as far back on the seat as possible.
2. Keep it in low range; stay out of neutral.
3. Lightly apply the brake and ease up on the throttle.

Sidehilling/Traversing

Sidehilling is considered an advanced skill; it's really tricky and unpredictable. So, whether your skills are advanced or not, try to avoid this kind of riding. If you're in a situation where you absolutely have to sidehill, follow this method:



1. Keep your speed low and consistent.
2. Shift all your body weight to the uphill side of the seat; also, support your weight on the uphill footrest.
3. Steer like you're driving into the hill.

4. If the ATV feels like it's tipping, turn the handlebar downhill. If that's not possible because of the terrain or other conditions or if it just doesn't work, stop and get off. Dismount the ATV on the uphill side.

Swerving

Swerving is usually an emergency reaction to avoid an obstacle.

1. Ease off the throttle as you approach the obstacle.
2. Turn the handlebar. At the same time, shift your weight and balance as you swerve. Use the principles of leaning, weight shifting, and balancing—shift your body weight to the inside of the turn.
3. Keep your hand off the brake until the emergency is over and you're back in control.



Crossing Obstacles

Crossing obstacles is risky; avoid it if possible. Riding over logs, rocks, and ruts means combining all the active riding skills into one big motion. Your ATV will respond differently for different obstacles (logs, ruts, etc.), but these are general guidelines for overcoming two-track (both tires contacting the obstacle at the same time) obstacles:



1. Keep your speed way down; less than 5 mph.
2. Approach the obstacle head-on.
3. Come up off the seat.
4. Keep your weight on the footrests.
5. Apply a little throttle when the front tires make contact with the obstacle.
6. Lean forward and release the throttle when the front tires clear the obstacle.
7. Keep your body loose to absorb any shock.
8. If the ATV starts tipping, shift your weight to keep it in balance.

To clear a single-track (only one tire contacts) obstacle, follow the same rules except:

1. Use the ATV's momentum to clear the obstacle.
2. Don't pull up on the handlebar.
3. Don't apply the throttle.

Tips

Driving an ATV and a car have some similarities; however, there are a few situations that require special attention:

- Reversing
- Skidding or Sliding
- Parking on a Hill
- Stalling on a Hill
- Crossing Water
- Crossing Roads
- Stopping the ATV
- Stopping the Engine

Reversing

It's tough to see things behind you.

1. Go slowly. It's hard to see behind you.
2. Keep your handlebar straight.
3. Backing down hills is a bad idea; do a U-turn or K-turn instead to turn around.

WARNING

Never activate the override while the throttle is open as a loss of control may result. Use caution when using the override switch as reverse speed can greatly increase.

Skidding or Sliding

If you lose control after hitting sand, ice, mud, or water:

1. Turn your handlebar into the direction of the slide.
2. Keep your hand off the brakes until you're out of the skid.
3. Shift your weight forward.

Sometimes your ATV may not respond and goes straight ahead instead of letting you turn. Here's how to handle it:

1. Slow down.
2. Move forward on the seat.
3. Lean to inside of turn.
4. Turn handlebar.

Parking on a Hill

This shouldn't be necessary, but if it is:

1. Keep it in gear.
2. Engage the brake lever lock.
3. Find something to block the rear tires.

Stalling on a Hill

If you use the right method for riding uphill, this shouldn't happen. But if you have a problem, do this:

1. If the ATV hasn't started rolling backwards yet, follow the procedure for the K-Turn, **OR**
2. If the ATV is already rolling backward, lean as far forward as possible standing up on the footrests.
3. Nice and easy, apply the hand brake lever.
4. When you come to a stop, follow the procedure for the K-turn.
5. If the ATV continues to roll backward, dismount immediately on the uphill side.

Crossing Water

Your ATV can only handle water up to its footrests. Any more than that and you risk engine damage and/or injury. Stay away from fast moving rivers. ATV tires can be buoyant, so if the water is too deep, you might find the ATV suddenly afloat.

CAUTION

Riding through water deeper than the footrests may lead to severe engine damage due to water ingestion.

■ **NOTE: Engine damage caused by water ingestion or immersion will not be covered by Arctic Cat warranty.**

1. Physically check the depth and current of the water, especially if you can't see the bottom. You're also checking for boulders, logs, or any other hidden obstacles.
2. Keep your speed slow.
3. Make sure you have a way out on the other side of the water.
4. If you get stuck in the sludge or mud, try rocking the ATV from side to side.
5. Once you've cleared the water, briefly apply the brakes to make sure they work.



WARNING

Do not operate this vehicle on a frozen body of water unless you have first verified the ice is sufficiently thick to support the vehicle, cargo, and participants. The vehicle could break through the ice causing serious injury or death.

Crossing Roads

Crossing roads on your ATV is also a bad idea, so avoid it. If you can't:

1. Stop completely on the shoulder of the road.
2. Check both directions for traffic.
3. Crossing near a blind corner or intersection is dangerous; don't do it.
4. Drive straight across to the opposite shoulder.
5. Take into account that your ATV could stall while crossing; give yourself enough time to get off the road.
6. You have to assume that oncoming cars don't see you, and if they do, they won't be able to predict your actions.
7. It's illegal to cross public roads in some places. Know your local laws.

Stopping the ATV

To stop the ATV, first release the throttle lever. Next, apply the brake.

Stopping the Engine

To stop the engine, turn the ignition switch key to the OFF position or set the emergency stop switch to the OFF position.

■ **NOTE:** Leaving the ignition switch key in the ON position could result in a discharged battery.

General Information

Control Locations and Functions

Ignition Switch Key

Two keys come with the ATV. Keep the spare key in a safe place. An identifying number is stamped on each key. Use this number when ordering a replacement key.

Ignition Switch

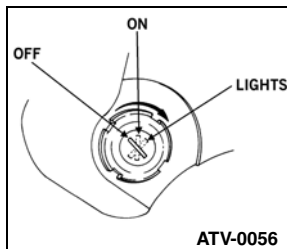
The ignition switch has three positions.

OFF position — All electrical circuits except the accessory plug are off. The engine will not start. The key can be removed in this position.

■ **NOTE:** The accessory plug is powered by the battery at all times.

ON position — The ignition circuit is complete and the engine can run. The key cannot be removed in this position.

LIGHTS position — The ignition circuit is complete and the running lights and taillights are on. The key cannot be removed in this position.

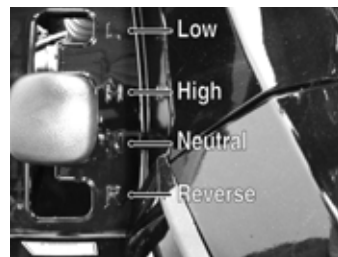


CAUTION

Leaving the ignition switch in the ON or LIGHTS position for a long period of time when the engine is not running may cause the battery to discharge. Always leave the ignition switch in the OFF position when engine is not running.

Shift Lever

This ATV has a dual-range automatic transmission with reverse.



Drive Select Switch

This switch allows the operator to operate the ATV in either two-wheel drive (rear wheels) or four-wheel drive (all wheels). For normal riding on flat, dry, hard surfaces, two-wheel drive should be sufficient. In situations of aggressive trail conditions, four-wheel drive would be the desired choice.



To either engage or disengage the front wheels, move the switch to the 4WD position or to the 2WD position.

CAUTION

Do not attempt to either engage or disengage 4WD while the ATV is moving.

Hand Brake Levers/ Brake Lever Lock

The left hand brake is used to apply braking to the rear wheels when in two wheel drive; however, when operating in four wheel drive, braking will be applied to all four wheels.



KC377A

Apply the brake by compressing the brake lever toward the handlebar.

The right hand brake is used to apply braking to the front wheels when in two wheel drive; however, when operating in four wheel drive, braking will be applied to all four wheels.

The right hand brake also is equipped with a brake lever lock. To engage and release the brake lever lock, use the following procedure.

1. Squeeze the hand brake lever two or three times and release it.
2. Depress and hold the brake lever lock.
3. While holding in on the brake lever lock, squeeze the brake lever.

■ **NOTE:** It will click as it engages and the brake lever will not return to its released position.

4. Attempt to push the ATV. Check to make sure the brake lever lock engages properly and that the brake (when engaged) locks the wheels.

■ **NOTE:** The brake lever lock must lock the front wheels. If it doesn't, take the ATV to an authorized Arctic Cat ATV dealer for service.

WARNING

Always check to be sure that the brake lever lock has been disengaged before operating the ATV. An accident could result if the brake lever lock is left engaged while the ATV is operated. The brake may relax if left engaged for a long period of time. This could cause an accident; therefore, do not leave the ATV on a hill depending on the brake lever lock. Always block the downhill side of the wheels if leaving the ATV on a hill or park the ATV in a sidehill position.

■ **NOTE:** To lock all four wheel with the brake lever lock, turn the ignition switch to the ON position and select four wheel drive on the drive select switch (4WD); then engage the brake lever lock.

5. Release the brake lever lock by squeezing the brake lever. It will return to its released position.

Rear Foot Brake

Pressing the rear foot brake downward will apply the brake to the rear wheels.



CF117

Headlight HI/LO Switch

Use the headlight HI/LO switch to select the running lights/taillight and high or low headlight beam when the ignition switch is in the LIGHTS position. When the switch is in the HI position, the high beam will illuminate. When the switch is in the LO position, the low beam will illuminate. When the switch is in the Running Light position, the taillights and running lights will illuminate.



KM850A

Emergency Stop Switch

OFF position — The ignition circuit is off. The engine cannot be started or will not run. If the emergency stop switch is used to stop engine without turning off ignition switch, the battery may discharge.

RUN position — The ignition circuit is on. The engine can start and run.

In an emergency, slide the switch to the OFF position to stop the engine. Apply the brakes to stop the wheels.

Starter Button

Pushing in on this button activates the starter motor. Before starting the engine, make sure the ignition switch is in the ON position, the transmission is in neutral, and the brake lever lock is engaged.

■ **NOTE:** This ATV has safety interlock switches preventing the starter motor from activating when the transmission is not in neutral.

Reverse Override Switch

This ATV is equipped with a reverse speed limiter system. When additional RPM is needed in reverse, depress and hold the override switch.

WARNING

Never activate the override switch while the throttle is open as a loss of control may result. Use caution when using the override switch as reverse speed can greatly increase.

Throttle Lever

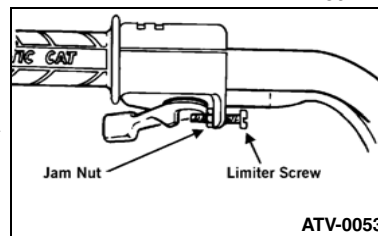
Control engine RPM with the position of the throttle lever. Operate this lever with the thumb. Pushing it forward increases engine RPM and allowing it to retract decreases engine RPM.



KC342A

Throttle Limiter Screw

Throttle lever travel may be limited by adjusting the throttle limiter screw. The throttle limiter should be adjusted according to the operator's skill and experience. To adjust the throttle limiter, use the following procedure.



ATV-0053

1. Loosen the jam nut.
2. Turn the throttle limiter screw clockwise to decrease engine RPM maximum or counterclockwise to increase engine RPM maximum.

3. Tighten the jam nut securely.

■ **NOTE:** The ATV is equipped with an RPM limiter that retards ignition timing when maximum RPM is approached. When the RPM limiter is activated, it could be misinterpreted as a high-speed misfire.

Speedometer/LCD (Digital)

1. Clock/Engine Hour Meter - The clock function indicates time in the 12-hour mode; the hour meter indicates the total time the ATV has run and cannot be reset to zero. To set the clock, use the following procedure.



EFI-011A

- A. With the ignition switch ON, press and release the Set Button (4) until the Clock (1) is displayed; then press and hold the Set Button (4) to activate the set mode (clock display flashing).
- B. Press and release the Set Button (4) to set minutes or the Mode Button (3) to set hours. Holding the respective button down will scroll the display.

■ **NOTE:** Clock memory power is supplied through the 15-amp accessory fuse and verified during gauge “power-up” and reset. In the event of clock memory power failure (blown fuse, etc.), the gauge will “power-up,” reset, and shut down repeatedly until clock memory power is restored. Always check the 15-amp accessory fuse if this gauge condition is noted.

■ **NOTE:** The engine hour meter will not activate until engine speed exceeds 500 RPM.

2. Temperature Indicator - If the engine coolant temperature exceeds the normal operating range, the temperature icon will begin flashing and the LCD will go blank for 30 seconds; then the LCD will return to normal. However, the temperature icon will continue to flash (see Liquid Cooling System for more information).
3. Mode Button - Shifts the gauge through two operating modes: speedometer/tachometer and MPH/KPH.

■ **NOTE:** The Mode Button must be pressed and released to shift speedometer/tachometer modes. It must be pressed and held to shift MPH/KPH modes.

4. Set Button - The Set Button is used to select the gauge display of clock, hour meter, trip 1, trip 2, and odometer. It is also used to activate the clock set function and adjust the minute display on the clock.
5. Fuel Level Indicator - Indicates approximate amount of gasoline in the gas tank.

■ **NOTE:** When the bottom segment flashes, approximately 3.5 L (0.92 U.S. gal.) of gasoline remains in the tank.

6. Oil Pressure Indicator - Will be displayed during self-test at start-up. It will not be displayed during normal operation as oil pressure is not monitored on these models.
7. Odometer/Trip Meter - Odometer registers the total distance the vehicle has traveled. The trip meter is resetable and can be used to measure trip or trip legs. The odometer cannot be reset.
8. Gear Position Indicator - Indicates which gear is currently selected - R (reverse)/N (neutral)/L (low range)/H (high range).

9. High Beam Indicator - The High Beam icon will appear only when the headlights are on high beam.
10. 4WD Lock Indicator - Displays LOCK when the front differential lock has been engaged. Not utilized on this model.
11. Drive Select Indicator - Displays 4WD when selected by the drive select switch or when the 4WD lock is engaged. The display is blank when in 2WD.
12. Speedometer/Tachometer - Indicates the approximate vehicle speed in miles per hour (MPH), kilometers per hour (KPH), or RPM.

Condition Warning Display - Uses odometer/trip meter display of the LCD to warn of a system error condition requiring attention.

- A. Volt - The LCD will go blank except the word VOLT will flash on the LCD whenever a low voltage (<9 DC volts) or a high voltage (>16 DC volts) is detected. When voltage returns to normal, the gauge must be reset by turning the ignition key to the OFF position and then to the ON position.
- B. EFI - The LCD will go blank except a diagnostic trouble code (DTC) code will flash on the LCD and a wrench icon will be displayed whenever an electronic fuel injection malfunction is detected. After 30 seconds, the LCD will return to normal; however, the DTC and wrench icon will continue to be displayed until the malfunction is corrected.

■ **NOTE:** Take the ATV to an authorized Arctic Cat ATV dealer to have the EFI error corrected and to have the ECM reset as soon as possible.

Oil Level Stick

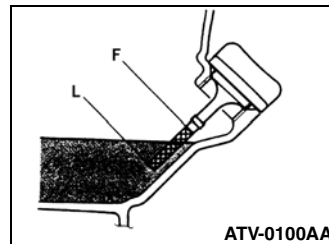
There is an oil level stick for checking the engine oil level. To check the oil level, use the following procedure.

■ **NOTE:** The ATV should be on level ground when checking the engine oil level.

1. Unscrew the oil level stick and wipe it with a clean cloth.
2. Install the oil level stick and thread it into the engine case.
3. Remove the oil level stick; the engine oil level should be above the "L" mark but not higher than the "F" mark.



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ATV-0100AA

CAUTION

Do not overfill the engine with oil. Always make sure the oil level is above the "L" mark but not higher than the "F" mark.

Seat Latch

1. To remove the seat, pull back on the latch release (located under the right rear of the seat); then raise the rear of the seat and slide it rearward.



KC376A

2. To lock the seat into position, slide the front of the seat into the seat retainers and push down firmly on the rear of seat. The seat should automatically lock into position.

⚠ WARNING

Make sure the seat is secure before mounting the ATV. Serious injury may result if the seat is not properly secured.

Safety Flag Bracket

A bracket is provided for mounting a flag at the rear of the ATV.

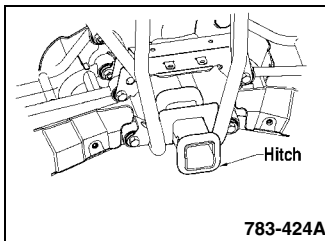
Trailering and Towing

⚠ WARNING

Never use the racks as a towing or trailering point.

Arctic Cat ATV's are equipped with a frame-mounted receiver for a standard 5.1 cm (2 in.) receiver hitch. The standard receiver hitch must be purchased separately.

When loading a trailer properly, two items are critical: Gross Trailer Weight (the weight of the trailer plus cargo) and Trailer Tongue Weight.



⚠ WARNING

Make sure that the load in the trailer is properly secured and will not shift while moving. Also, do not overload the trailer.

⚠ WARNING

Never exceed any of the ATV weight restrictions.

Trailer Tongue Weight is the downward force exerted on the hitch by the trailer coupler when the trailer is fully loaded and the coupler is at its normal towing height. Refer to the Load Capacity Ratings chart for tongue weight information.

Always maintain a slow speed when trailering and towing and avoid sudden accelerations, quick maneuvers, and sudden stops. Braking distance will be affected when towing a trailer. When towing a trailer, always maintain slow speed and allow more stopping distance than when not towing a trailer.

⚠ WARNING

Riding an ATV without extra caution when towing a trailer will be hazardous. Trailer towing can affect the handling and braking of the ATV. Never tow a trailer without a rigid tongue and never exceed 10 MPH. Avoid sudden accelerations and stopping of the ATV. Do not make quick maneuvers. Avoid uneven surfaces and do not tow on hills.

⚠ WARNING

Never tow people in or on any device except when towing a disabled vehicle with operable brakes and steering or on a trailer designed for passengers that has a rigid tow bar.

Transporting

When transporting the ATV, the ATV must be in its normal operating position (on all four wheels) and the following procedure must be used.

1. Engage the brake lever lock and place the transmission in gear.

CAUTION

Failure to engage the brake lever lock and place the transmission in gear could result in the ATV rolling off the trailer in the event of tie-down strap failure.

2. Secure the ATV with load rated hold-down straps.

■ **NOTE:** Suitable hold-down straps are available from your Arctic Cat ATV dealer. Ordinary rope is not recommended because it can stretch under load.

CAUTION

When using hold-down straps, care must be taken not to damage the ATV.

Gasoline-Oil-Lubricant

Filling Gas Tank

WARNING

Always fill the gas tank in a well-ventilated area. Never add gasoline to the ATV gas tank near any open flames or with the engine running or hot. **DO NOT SMOKE** while filling the gas tank.

Since gasoline expands as its temperature increases, the gas tank must be filled to its rated capacity only. Expansion room must be maintained in the tank particularly if the tank is filled with cold gasoline and then moved to a warm area.

Allow the engine to cool before filling the gas tank. Care must be taken not to overfill the tank. If overfilled, gas may leak onto the engine creating a fire hazard.

WARNING

Do not over-flow gasoline when filling the gas tank. A fire hazard could materialize. Always allow the engine to cool before filling the gas tank.

WARNING

Do not overfill the gas tank.

Tighten the gas tank cap securely after filling the tank.

Recommended Gasoline

The recommended gasoline to use in this ATV is 87 minimum octane regular unleaded. In many areas, oxygenates are added to the gasoline. Oxygenated gasolines containing up to 10% ethanol or 5% methane are acceptable gasolines.

When using ethanol blended gasoline, it is not necessary to add a gasoline antifreeze since ethanol will prevent the accumulation of moisture in the fuel system.

CAUTION

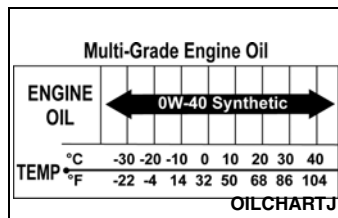
Do not use white gas. Only Arctic Cat approved gasoline additives should be used.

Recommended Engine/Transmission Oil

CAUTION

Any oil used in place of the recommended oil could cause serious engine damage. Do not use oils which contain graphite or molybdenum additives. These oils can adversely affect clutch operation. Also, not recommended are racing, vegetable, non-detergent, and castor-based oils.

The recommended oil to use is Arctic Cat ACX All Weather synthetic engine oil, which has been specifically formulated for use in this Arctic Cat engine. Although Arctic Cat ACX All Weather synthetic engine oil is the only oil recommended for use in this engine, use of any API certified SM 0W-40 oil is acceptable.



Recommended Front Differential/Rear Drive Lubricant

■ **NOTE:** Arctic Cat recommends the use of genuine Arctic Cat lubricants. The recommended lubricant (front differential and rear drive) is SAE approved 80W-90 hypoid. This lubricant meets all of the lubrication requirements of the Arctic Cat ATV.

CAUTION

Any lubricant used in place of the recommended lubricant could cause serious front differential/rear drive damage.

Engine Break-In

After the completion of the break-in period, the engine oil and oil filter should be changed. Other maintenance after break-in should include checking of all prescribed adjustments and tightening of all fasteners. At the discretion and expense of the owner/operator, the ATV may be taken to an authorized Arctic Cat ATV dealer for this initial service.

New ATV's and renewed ATV engines require a "break-in" period. The first month is most critical to the life of the ATV. Proper operation during the break-in period helps assure maximum life and performance from the ATV.

During the first 10 hours of operation, always use less than ½ throttle. Varying the engine RPM during the break-in period allows the components to "load" (aiding the engine/transmission component mating process) and then "unload" (allowing components to cool). Although it is essential to place some stress on the engine components during break-in, care should be taken not to overload the engine too often. Do not pull a trailer during the break-in period.

When the engine starts, allow it to warm up properly. Idle the engine several minutes until the engine has reached normal operating temperature. Do not idle the engine for excessively long periods of time.

Burnishing Brake Pads

Brake pads must be burnished to achieve full braking effectiveness. Braking distance will be extended until brake pads are properly burnished.

⚠ WARNING

Do not attempt sudden stops or put yourself into a situation where a sudden stop will be required until the brake pads are properly burnished.

To properly burnish the brakes, use the following procedure:

1. Choose an area sufficiently large to safely accelerate ATV to 30 mph and to brake to a stop.
2. Accelerate to 30 mph; then compress brake lever to decelerate to 0-5 mph.
3. Repeat procedure twenty times.

General Maintenance

■ **NOTE:** Proper maintenance of the ATV is important for optimum performance. Follow the Maintenance Schedule and all ensuing maintenance and care instructions/information.

■ **NOTE:** Proper maintenance procedures for each item can be found on the corresponding page indicated.

If, at any time, abnormal noises, vibrations, or improper functioning of any component of this ATV is detected, DO NOT OPERATE THE ATV. Take the ATV to an authorized Arctic Cat ATV dealer for inspection and adjustment or repair.

If the owner/operator does not feel qualified to perform any of these maintenance procedures or checks, take the ATV to an authorized Arctic Cat ATV dealer for professional service.

Maintenance Schedule					
Item	Page	Initial Service (100 miles)	Monthly	Quarterly	Annually
Battery	49	I	I		
* Engine nuts and bolts	-	I			I
* Valve clearance	-	I			I
Spark plug	52	I		I	I
	52	Replace every 4000 miles or 18 months			
Liquid cooling system	45	I	Inspect every time before riding		
Throttle cable	52	I	Inspect every time before riding		
Gas Hoses	40	I	Inspect every time before riding		
Engine/transmission oil and filter	46	R		R**	
Air filter	52	I		I	
Air filter housing drain	53	I	Inspect every time before riding		

Item	Page	Initial Service (100 miles)	Monthly	Quarterly	Annually
Gear lubricant (Front differential - rear drive)	46	I		I	
	46		Replace every 4 years		
V-belt	53	I			I
Muffler/spark arrester	54				C
Tires/air pressure	53/25	I	Inspect every time before riding		
* Brake components	47	I	Inspect every time before riding		
Brake fluid	47	I	Inspect every time before riding		
Brake hoses	48	I	Inspect every time before riding		
* Steering	-	I	Inspect every time before riding		
* Suspension (Ball joint boots, drive axle boots front and rear, tie rods, differential and rear drive bellows)	-	I	Inspect every time before riding		
* Chassis nuts and bolts	-	I	T		
Frame/welds/racks	-	I			I
Electrical connections	-	I			I
Headlight/taillight-brakelight	55	I	Inspect every time before riding		
Wheel nuts	54	I	I		

I = Inspect and clean, adjust, lubricate, replace as necessary

T = Tighten R = Replace C = Clean * Dealer maintenance

** When using Arctic Cat ACX All Weather synthetic oil, oil change and strainer inspection interval can be increased to every 1000 miles or every year.

Liquid Cooling System

■ **NOTE:** Debris in front of the engine or packed between the cooling fins of the radiator can reduce cooling capability. Using a garden hose, wash the radiator to remove any debris preventing air flow.

CAUTION

Arctic Cat does not recommend using a pressure washer to clean the radiator core. The pressure may bend or flatten the fins causing restricted air flow, and electrical components on the radiator could be damaged. Use only a garden hose with spray nozzle at normal tap pressure.

The cooling system capacity can be found in the specifications chart. The cooling system should be inspected daily for leakage and damage. If leakage or damage is detected, take the ATV to an authorized Arctic Cat ATV dealer for service. Also, the coolant level should be checked periodically.

CAUTION

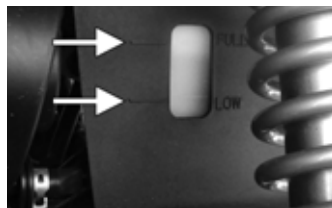
Continued operation of the ATV with high engine temperature may result in engine damage or premature wear.

■ **NOTE:** High engine RPM, low vehicle speed, or heavy load can raise engine temperature. Decreasing engine RPM, reducing load, and selecting an appropriate transmission gear can lower the temperature.

When filling the cooling system, use a coolant/water mixture which will satisfy the coldest anticipated weather conditions of the area in accordance with the coolant manufacturer's recommendations. While the cooling system is being filled, air pockets may develop; therefore, run the engine for five minutes after the initial fill, shut the engine off, and then fill the cooling system to the bottom of the stand pipe in the radiator neck.

Checking/Filling

1. Locate the coolant reservoir on the right side behind the radiator.
2. Remove the cap and fill with the appropriate coolant until coolant level is between the LOW and FULL lines. Do not overfill.
3. Install the cap on the reservoir.



KC338B

Shock Absorbers

Each shock absorber should be visibly checked weekly for excessive fluid leakage (some seal leakage may be observed but it does not indicate the shock is in need of replacement), cracks or breaks in the lower case, or a bent shock rod. If any one of these conditions is detected, replacement is necessary.



KC0102

■ **NOTE:** When the ATV is operated in extremely cold weather (-23°C/-10°F or colder), a small amount of leakage may be present. Unless leakage is excessive, replacement is not necessary.

The shock absorber has a spring force adjustment sleeve with five adjustment positions to allow the spring to be adjusted for different riding and loading conditions. If the spring action is too soft or too stiff, adjust it according to the chart.

Position	Spring Force	Setting	Load
1	↓ Stronger	Soft	Light
2		↑ ↓	↑ ↓
3			
4			
5		Stiff	Heavy

■ **NOTE:** Before attempting to adjust suspension, clean dirt and debris from sleeve and remove load from the suspension; then use the spanner wrench to adjust sleeve to desired position (clockwise for stiffer; counterclockwise for softer).

General Lubrication

Cables

None of the cables require lubrication; however, it is advisable to lubricate the ends of the cables periodically with a good cable lubricant.

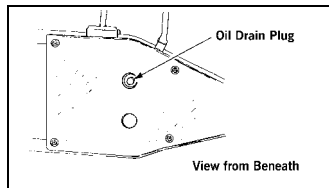
Engine/Transmission Oil and Filter

Change the engine oil and oil filter at the scheduled intervals. The engine should always be warm when the oil is changed so the oil will drain easily and completely.

1. Park the ATV on level ground.
2. Remove the oil level stick. Be careful not to allow contaminants to enter the opening.
3. Remove the drain plug from the bottom of the engine and drain the oil into a drain pan.
4. Remove the oil filter plug from the filter mounting boss (located on the front-right side of the transmission case) and allow the filter to drain completely.



KC0051A



733-441A

5. Using the oil filter wrench and a ratchet handle (or a socket or box-end wrench), remove the old oil filter and dispose of properly. Do not re-use oil filter.

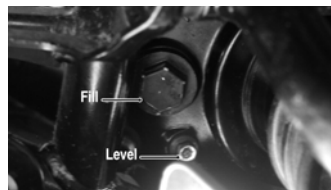
■ **NOTE:** Clean up any excess oil after removing the filter.

6. Apply oil to the new filter O-ring and check to make sure it is positioned correctly; then install the new oil filter. Tighten securely.
7. Install the oil filter drain plug and tighten securely.
8. Install the engine drain plug and tighten it securely. Pour ACX All-Weather Synthetic oil in the filler hole. Install filler plug.
9. Start the engine (while the ATV is outside on level ground) and allow it to idle for a few minutes.
10. Turn the engine off and wait approximately one minute. Recheck the oil level.
11. Inspect the area around the drain plug and oil filter for leaks.

Front Differential and Rear Drive Gear Lubricant (Inspecting/Changing)

Inspect and change the gear lubricant in each according to the Maintenance Schedule. When changing the lubricant, use approved SAE 80W-90 hypoid oil and use the following procedure.

1. With the ATV on level ground, remove each oil filler plug.



CF113A

2. Drain the oil into a drain pan by removing in turn the drain plug from each.
3. After all the oil has been drained, install the drain plugs and tighten securely.

CAUTION

Inspect the oil for any signs of metal filings or water. If found, take the ATV to an authorized Arctic Cat ATV dealer for servicing.

4. Pour recommended oil into each filler hole.

■ **NOTE:** If the gear case has a level plug, fill to the threads of the level plug. If the gear case has only a fill plug, fill to within 1 in. of the threads of the fill plug.

■ **NOTE:** Arctic Cat recommends the use of genuine Arctic Cat lubricants.

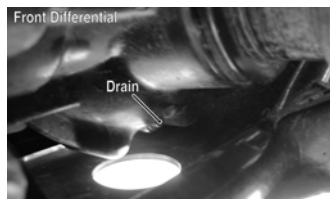
5. Install the filler plugs and level plugs.

Hydraulic Brakes



WARNING

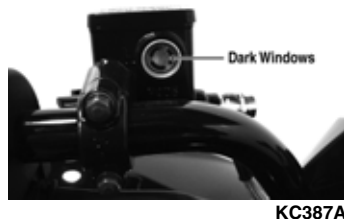
Be sure to inspect the hydraulic brake system before each use. Always maintain brakes according to the Maintenance Schedule.



Brake Fluid

Check the brake fluid level in the brake fluid reservoir. If the level in the reservoir is not visible in the sight glass, add DOT 4 brake fluid.

■ **NOTE:** If the sight glass windows appear dark, there is a sufficient amount of fluid in the reservoir.



CAUTION

Be careful not to spill any fluid when filling the brake fluid reservoir. Wipe away spilled fluid immediately.

Brake Lever Lock (Right Hand Brake)

Check to make sure the brake lever lock engages properly and that the brake (when engaged) locks the front wheels.

1. Pump the brake lever 2 or 3 times.
2. Engage the brake lever lock.
3. Attempt to push the ATV.

■ **NOTE:** The brake lever lock must lock the wheels. If it doesn't, take the ATV to an authorized Arctic Cat ATV dealer for service.



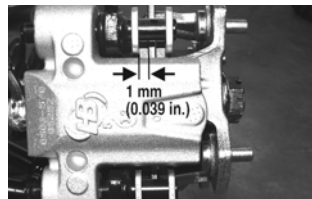
Brake Hoses

Carefully inspect the hydraulic brake hoses for cracks or other damage. If found, take the ATV to an authorized Arctic Cat ATV dealer to have the brake hoses replaced.

Brake Pads

The clearance between the brake pads and brake discs is adjusted automatically as the brake pads wear. The only maintenance that is required is replacement of the brake pads when they show excessive wear. Check the thickness of each of the brake pads as follows:

1. Remove the respective wheels.
2. Measure the thickness of each brake pad.
3. If thickness of any brake pad is less than 1.0 mm (0.039 in.), take the ATV to an authorized Arctic Cat ATV dealer to have brake pads replaced.



PR376B

4. Tighten the nuts in a crisscross pattern in 20 ft-lb increments to 80 ft-lb.

Gas Hoses

Inspect the gas hose. Damage from aging may not always be visible.

Protective Rubber Boots

The protective boots should be inspected periodically according to the Maintenance Schedule.

Ball Joint Boots (Upper and Lower/ Right and Left)

1. Secure the ATV on a support stand to elevate the front wheels.
2. Remove both front wheels.
3. Inspect the four ball joint boots for cracks, tears, or perforations.
4. Check the ball joint for free-play by grasping the steering knuckle and turning it from side to side and up and down.
5. If boot damage is present or ball joint free-play seems excessive, contact an authorized Arctic Cat ATV dealer for service.



CC791

Tie Rod Boots (Inner and Outer/Right and Left)

1. Secure the ATV on a support stand to elevate the front wheels.
2. Remove both front wheels.
3. Inspect the four tie rod boots for cracks, tears, or perforations.
4. Check the tie rod end free-play by grasping the tie rod near the end and attempting to move it up and down.
5. If boot damage is present or tie rod end free-play seems excessive, contact an authorized Arctic Cat ATV dealer for service.



CC792

Drive Axle Boots

1. Inspect all drive axle boots for cracks, tears, or perforations.
2. If boot damage is present, contact an authorized Arctic Cat ATV dealer for service.



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Battery

The battery is located under the right rear fender.

After being in service, batteries require regular cleaning and recharging in order to deliver peak performance and maximum service life. The following procedures are recommended for cleaning and maintaining lead-acid batteries. Always read and follow instructions provided with battery chargers and battery products.

■ NOTE: Refer to all warnings and cautions provided with the battery or battery maintainer/charger.



KC375A

Loss of battery charge may be caused by ambient temperature, ignition OFF current draw, corroded terminals, self discharge, frequent start/stops, and short engine run times. Frequent winch usage, snowplowing, extended low RPM operation, short trips, and high amperage accessory usage are also reasons for battery discharge.

Charging/ Maintenance Charging

■ NOTE: Arctic Cat recommends the use of the CTEK Multi US 800 for charging or the CTEK Multi US 3300 for battery maintenance charging. Maintenance charging is required on all batteries not used for more than two weeks or as required by battery drain.



800E

■ NOTE: When charging a battery in the vehicle, be sure the ignition switch is in the OFF position.

1. Clean the battery terminals with a solution of baking soda and water.
- NOTE:** The sealing strip should NOT be removed and NO fluid should be added.
2. Be sure the charger and battery are in a well-ventilated area. Be sure the charger is unplugged from the 110-volt electrical outlet.
3. Connect the red terminal lead from the charger to the positive terminal of the battery; then connect the black terminal lead of the charger to the negative terminal of the battery.

■ **NOTE:** Optional battery charging adapters are available from your authorized Arctic Cat dealer to connect directly to your vehicle from the recommended chargers to simplify the maintenance charging process. Check with your authorized Arctic Cat dealer for proper installation of these charging adapter connectors.

4. Plug the battery charger into a 110-volt electrical outlet.

5. If using the CTEK Multi US 800, there are no further buttons to push. If using the CTEK Multi US 3300, press the Mode button (A) at the left of the charger until the Maintenance Charge Icon (B) or Normal Charge Icon (E) at the bottom illuminates. The Normal Charge Indicator (C) should illuminate on the upper portion of the battery charger.



3300A

■ **NOTE:** For optimal charge and performance, leave the charger connected to the battery for a minimum 1 hour after the Maintenance Charge Indicator (D) illuminates. The maintainer/charger will charge the battery to 95% capacity at which time the Maintenance Charge Indicator (D) will illuminate and the maintainer/charger will change to pulse/float maintenance. If the battery falls below 12.9 DC volts, the charger will automatically start again at the first step of the charge sequence. If the battery becomes hot to the touch, stop charging. Resume after it has cooled.

■ **NOTE:** Not using a battery charger with the proper float maintenance will damage the battery if connected over extended periods.

6. Once the battery has reached full charge, unplug the charger from the 110-volt electrical outlet.

■ **NOTE:** If, after charging, the battery does not perform to operator expectations, bring the battery to an authorized Arctic Cat dealer for further troubleshooting.

Jump-Starting

■ **NOTE:** Arctic Cat does not recommend jump-starting a vehicle with a dead battery but rather to remove the battery, service it, and correctly charge it; however, in an emergency, it may be necessary to jump-start a vehicle. If so, use the following procedure to carefully and safely complete this procedure.

⚠ WARNING

Improper handling or connecting of a battery may result in serious injury including acid burns, electrical burns, or blindness as a result of an explosion. Always remove rings and watches.

1. On the vehicle to be jump-started, remove the battery cover and any terminal boots.

⚠ WARNING

Any time service is performed on a battery, the following must be observed: keep sparks, open flame, cigarettes, or any other flame away. Always wear safety glasses. Protect skin and clothing when handling a battery. When servicing battery in enclosed space, keep the area well-ventilated. Make sure battery venting is not obstructed.

2. Inspect the battery for any signs of electrolyte leaks, loose terminals, or bulging sides. Leaking or bulging battery cases may indicate a frozen or shorted battery.

WARNING

If any of these conditions exist, DO NOT attempt a jump-start, boost, or charge the battery. An explosion could occur causing serious injury.

3. Inspect the vehicle to be used for jump-starting to determine if voltage and ground polarity are compatible. The vehicle must have a 12-volt DC, negative ground electrical system.

CAUTION

Always make sure the electrical systems are of the same voltage and ground polarity prior to connecting jumper cables. If not, severe electrical damage may occur.

4. Move the vehicle used for the jump-start close enough to ensure the jumper cables easily reach; then shift into neutral, set and lock the brakes, shut off all electrical accessories, and turn ignition switch OFF.

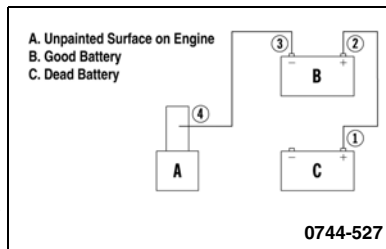
■ **NOTE: Make sure all switches on the vehicle to be jump-started are turned OFF.**

5. Disconnect all external accessories such as cell phones, GPS units, and radios on both vehicles.

CAUTION

Failure to disconnect electronic accessories during jump-starting may cause system damage due to power spikes.

6. Attach one clamp of positive (red) jumper cable to positive (+) terminal (1) of dead battery (C) being careful not to touch any metal with the other clamp; then attach the other clamp of the positive (red) jumper cable to the positive (+) terminal (2) of the good battery (B).



■ **NOTE: Some jumper cables may be the same color but the clamps or ends will be color-coded red and black.**

7. Attach one clamp of the negative (black) jumper cable to the negative (-) terminal (3) of the good battery (B); then attach the other clamp of the negative (black) jumper cable (4) to an unpainted metal surface (A) on the engine or frame well away from the dead battery and fuel system components.

WARNING

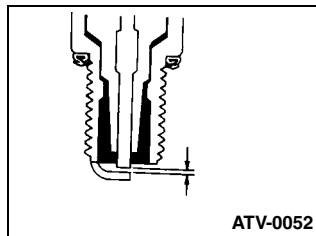
Never make the final connection to a battery as a spark could ignite hydrogen gases causing an explosion of the battery resulting in acid burns or blindness.

8. Stand well away from the dead battery and start the vehicle with the good battery. Allow the vehicle to run for several minutes applying some charge to the dead battery.
9. Start the vehicle with the dead battery and allow it to run for several minutes before disconnecting the jumper cables.
10. Remove the jumper cables in opposite order of hook-up (4, 3, 2, 1). Be careful not to short cables against bare metal.

■ **NOTE:** Have the battery and electrical system checked prior to operating the vehicle again.

Spark Plug

The ATV comes equipped with a specified spark plug. See the Specifications chart for the correct spark plug and the correct gap. A light brown insulator indicates that the plug is correct. A white or dark insulator indicates that the engine may need to be serviced. Consult an authorized Arctic Cat ATV dealer if the plug insulator is not a light brown color.



To help prevent cold weather fouling, make sure to thoroughly warm up the engine before operating. To maintain a hot, strong spark, keep the plug free of carbon.

Before removing the spark plug, be sure to clean the area around the spark plug. If you do not, dirt could enter engine when removing or installing the spark plug.

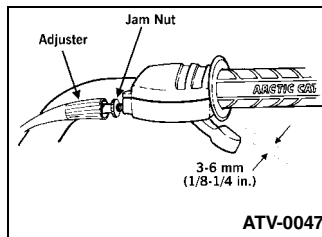
Adjust to the recommended gap for proper ignition. Use a wire-type feeler gauge to check the gap.

A new spark plug should be tightened 1/2 turn once the washer contacts the cylinder head. A used spark plug should be tightened 1/8-1/4 turn once the washer contacts the cylinder head.

Throttle Cable Adjustment

To adjust the throttle cable free-play:

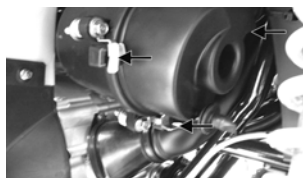
1. Loosen the jam nut from the throttle cable adjuster.
2. Slide the rubber boot away and turn the adjuster until the throttle lever has the proper free-play of 3-6 mm (1/8-1/4 in.).
3. Tighten the jam nut against the throttle cable adjuster securely; then slide the rubber boot over the adjuster.



Air Filter

The air filter inside the air filter housing must be kept clean to provide good engine power and gas mileage. If the ATV is used under normal conditions, service the filter at the intervals specified. If operated in dusty, wet, or muddy conditions, inspect and service the filter more frequently. Use the following procedure to remove the filter and inspect and/or clean it.

1. Rotate the three latches to release the filter housing cover; then loosen the inlet boot clamp.
2. Remove the filter housing cover and air filter element.
3. Fill a wash pan larger than the element with a non-flammable solvent; then dip the element in the solvent and wash it.
4. Squeeze the element by pressing it between the palms of both hands to remove excess solvent. Do not twist or ring the element or it will develop cracks.
5. Dry the element.



KC0056A



KC0056B

CAUTION

A torn air filter can cause damage to the ATV engine. Dirt and dust may get inside the engine if the element is torn. Carefully examine the element for tears before and after cleaning it. Replace the element with a new one if it is torn.

6. Put the element in a plastic bag; then pour in air filter oil and work the oil into the element.
7. Squeeze the element to remove excess oil.
8. Clean any dirt or debris from inside the air cleaner. Be sure no dirt enters the throttle body.
9. Install the air filter and cover.
10. Connect the inlet boot and tighten the clamp securely.

Air Filter Housing Drain

Inspect the “duck bill” drain in front of the main housing for debris and for proper sealing.

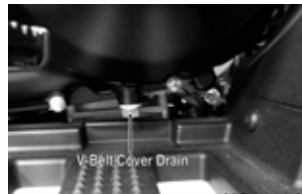


KC0056C

Draining V-Belt Cover

NOTE: If the ATV has been driven through water, the V-belt cover must be drained of any water.

1. Place the ATV on a level surface.
2. Remove the drain bolt from the cover and allow water to drain out.
3. Shift the range lever to the neutral position; then start the engine.
4. Increase and decrease engine RPM several times to “blow out” any water; then stop the engine.
5. Install the drain bolt and tighten securely.



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NOTE: The V-belt and pulleys should be inspected every 500 miles and the belt replaced (if necessary).

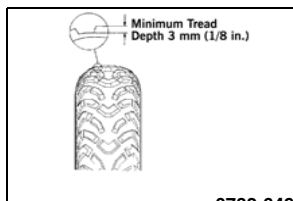
Tires

WARNING

Always use the size and type of tires as specified. Refer to the Specifications chart for proper tire inflation pressure, and always maintain proper tire inflation pressure.

Tire Tread Condition

The use of worn-out tires on an ATV is very dangerous. A tire is considered to be worn out when the depth of the tread is less than 3 mm (1/8 in.). Be sure to replace the tires before reaching this minimum specification.



WARNING

The use of worn-out tires is dangerous and can increase the risk of an accident.

Tire Replacement

The ATV has low-pressure tubeless tires. Have this maintenance performed by an authorized Arctic Cat ATV dealer or a qualified tire repair station.

WARNING

Use only Arctic Cat approved tires when replacing tires. Failure to do so could result in unstable ATV operation.

Tubeless Tire Repair

Should a leak or flat tire occur due to a puncture, the tire may be repaired using a plug-type repair. If the damage is from a cut or if the puncture cannot be repaired using a plug, the tire must be replaced. When operating the ATV in areas where transportation or service facilities are not readily available, it is strongly recommended to carry a plug-type repair kit and a tire pump along.

Wheels

1. Park the ATV on level ground and engage the brake lever lock.
2. Loosen the lug nuts on the wheel to be removed.

3. Elevate the ATV.
4. Remove the lug nuts.
5. Remove the wheel.
6. Install the wheel and install the lug nuts.
7. Tighten the nuts in a crisscross pattern in 20 ft-lb increments to 80 ft-lb.
8. Remove the jack.

Muffler/Spark Arrester

The muffler has a spark arrester which must be periodically cleaned. At the intervals shown in the Maintenance Schedule, clean the spark arrester using the following procedure.

WARNING

Wait until the muffler cools to avoid burns.

1. Remove the cap screws securing the spark arrester assembly to the muffler; then remove the spark arrester.
2. Using a suitable brush, clean the carbon deposits from the screen taking care not to damage the screen.



■ NOTE: If the screen or gasket is damaged in any way, it must be replaced.

KC374A

3. Install the spark arrester assembly and secure with the cap screws. Tighten securely.

Light Bulb Replacement

The wattage rating of each bulb is shown in the chart. When replacing a burned bulb, always use the same wattage rating.

Headlight	12V/35W (4)
Taillight/Brakelight	12V/5W/21W

CAUTION

Use only specified bulbs indicated in the chart as replacement bulbs.

■ **NOTE:** The bulb portion of the headlight is fragile. **HANDLE WITH CARE.** When replacing the headlight bulb, do not touch the glass portion of the bulb. If the glass is touched, it must be cleaned with a dry cloth before installing. Skin oil residue on the bulb will shorten the life of the bulb.

To replace the headlight bulb, use the following procedure.

1. Remove the wiring harness connector from the back of the headlight.
2. Grasp the bulb housing, turn it counterclockwise, and remove the bulb.
3. Install the new bulb into the housing and rotate it completely clockwise.
4. Install the wiring harness connector.

CAUTION

When replacing the headlight bulb, be careful not to touch the glass portion of the bulb. Grasp the new bulb with a clean cloth.

To replace the taillight/brakelight bulb, use the following procedure.

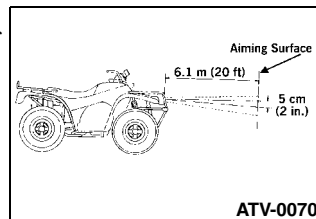
1. Rotate the socket counterclockwise and remove it from the housing.

2. To remove the bulb from the socket, push in and rotate counterclockwise.
3. To install the bulb, push in and turn clockwise.
4. Insert the socket into the housing and rotate it clockwise.

Checking/Adjusting Headlight Aim

The headlights can be adjusted vertically and horizontally. The geometric center of the HIGH beam light zone is to be used for vertical and horizontal aiming.

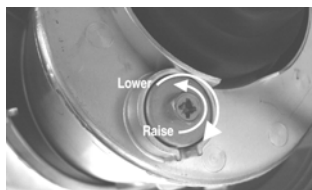
1. Position the ATV on a level floor so the headlights are approximately 6.1 m (20 ft) from an aiming surface (wall or similar aiming surface).



■ **NOTE:** There should be an average operating load on the ATV when adjusting the headlight aim.

2. Measure the distance from the floor to the mid-point of each headlight.
3. Using the measurements obtained in step 2, make horizontal marks on the aiming surface.
4. Make vertical marks which intersect the horizontal marks on the aiming surface directly in front of the headlights.
5. Switch on the lights. Make sure the HIGH beam is on. **DO NOT USE LOW BEAM.**

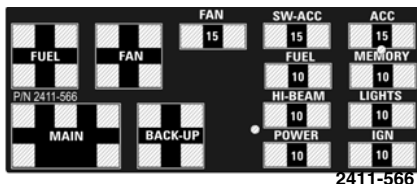
6. Observe each headlight beam aim. Proper aim is when the most intense beam is centered on the vertical mark 5 cm (2 in.) below the horizontal mark on the aiming surface.
7. Adjust each headlight until correct aim is obtained by turning the adjuster clockwise to lower or counterclockwise to raise the beam.



KC0108A

Fuses

The fuses are located in a power distribution module in front of the steering post under the electrical access panel. If there is any type of electrical system failure, always check the fuses first.



■ **NOTE:** To remove the fuse, compress the locking tabs on either side of the fuse cover and lift out.

CAUTION

Always replace a blown fuse with a fuse of the same type and rating. If the new fuse blows after a short period of use, consult an authorized Arctic Cat ATV dealer immediately.

Electrical Output Terminals

Two output terminals for electrical accessories are located on the front and rear wiring harnesses. The accessory plug is located on the front body panel.

CAUTION

Always use electrical accessories less than 180W.

Tools

A basic tool kit is provided with the ATV. Maintain the tool kit with the ATV at all times. The tool kit is located under the seat.

Preparation for Storage

CAUTION

Prior to storing the ATV, it must be properly serviced to prevent rusting and component deterioration.

Arctic Cat recommends the following procedure to prepare the ATV for storage. An authorized Arctic Cat ATV dealer should perform this service; however, the owner/operator may perform this service if desired.

1. Clean the seat cushion (cover and base) with a damp cloth and allow to dry.
2. Clean the ATV thoroughly by washing dirt, oil, grass, and other foreign matter from the entire ATV. Allow the ATV to dry thoroughly. DO NOT get water into any part of the engine or air intake.
3. Either drain the gas tank or add a fuel stabilizer to the gas in the gas tank.
4. Clean the interior of the air filter housing.
5. Plug the hole in the exhaust system with a clean cloth.

6. Apply light oil to the upper steering post bushing and plungers of the shock absorbers.
7. Tighten all nuts, bolts, cap screws, and screws. Make sure rivets holding components together are tight. Replace all loose rivets. Care must be taken that all calibrated nuts, cap screws, and bolts are tightened to specifications.
8. Fill the cooling system to the bottom of the stand pipe in the radiator neck with properly mixed coolant.
9. Disconnect the battery cables (negative cable first); then remove the battery, clean the battery posts and cables, and store in a clean, dry area.

■ **NOTE: For storage, use a battery maintainer or make sure the battery is fully charged (see Battery section in this manual).**

10. Store the ATV indoors in a level position.

CAUTION

Avoid storing outside in direct sunlight and avoid using a plastic cover as moisture will collect on the ATV causing rusting.

Preparation after Storage

Taking the ATV out of storage and correctly preparing it will assure many miles and hours of trouble-free riding. Arctic Cat recommends the following procedure to prepare the ATV.

1. Clean the ATV thoroughly.
2. Clean the engine. Remove the cloth from the exhaust system.
3. Check all control wires and cables for signs of wear or fraying. Replace if necessary.
4. Change the engine/transmission oil and filter.
5. Check the coolant level and add properly mixed coolant as necessary.
6. Charge the battery; then install. Connect the battery cables making sure to connect the positive cable first.

CAUTION

Before installing the battery, make sure the ignition switch is in the OFF position.

7. Check the entire brake systems (fluid level, pads, etc.), all controls, headlights, taillight, brakelight, and headlight aim; adjust or replace if necessary.
8. Check the tire pressure. Inflate to recommended pressure as necessary.
9. Tighten all nuts, bolts, cap screws, and screws making sure all calibrated nuts, cap screws, and bolts are tightened to specifications.
10. Make sure the steering moves freely and does not bind.
11. Check the spark plug. Clean or replace as necessary.
12. Check the air filter and the air filter housing. Clean or replace as necessary.

Limited Warranty

Arctic Cat Inc. (hereinafter referred to as Arctic Cat) extends a limited warranty as described below on each new Arctic Cat ATV it assembles and on each genuine Arctic Cat ATV part and accessory assembled and sold by an authorized Arctic Cat ATV dealer. The limited warranty on an Arctic Cat ATV is extended to the original retail purchaser for the time periods described below; however, the balance of the remaining warranty may be transferred to another party unless the purchase is for commercial use (see below). Warranty coverage is only available in the country in which the original retail purchase occurs to the original retail purchaser resident in that country or to a transferee resident in that country of the balance of the remaining warranty.

Arctic Cat warrants only the products it assembles and/or sells and does not warrant that other products will function properly when used with an Arctic Cat ATV or will not damage the ATV. Arctic Cat does not assume any liability for incidental or consequential damages.

Arctic Cat will repair or replace, at its option, free of charge (including any related labor charges), any parts that are found to be warrantable in material or workmanship. This repair work MUST be done by an authorized Arctic Cat ATV dealer. No transportation charges, rental charges, or inconvenience costs will be paid by Arctic Cat. The warranty is validated upon examination of said parts by Arctic Cat or an authorized Arctic Cat ATV dealer. Arctic Cat reserves the right to inspect such parts at its factory for final determination if warranty should apply.

The warranty periods are as follows:

1. Six months from the date of sale — for an Arctic Cat ATV used for recreational purposes.
2. Ninety days from date of invoice — for an Arctic Cat ATV used for commercial purposes, including rental operations (non-transferable).
3. Thirty days from date of sale of ATV on Arctic Cat supplied batteries.

Exclusions to this warranty include normal wear, abuse, or corrosion and the following parts and items:

Tires	CV Boots	Torn or Punctured Upholstery
Oil Filter	Drive Belt	Cracks or Gouges in Body Panels
Air Filter	Brake Pads	Drive/Driven Clutch Wear Parts
Light Bulbs	Spark Plug(s)	Windshield

The following will VOID Arctic Cat's warranty:

1. Failure to perform the proper break-in procedure and all related maintenance, storage procedures (if stored for extended periods), and/or service as recommended in the Operator's Manual.
2. Repairs and/or adjustments by anyone other than an authorized Arctic Cat ATV dealer.
3. Use of improper carburetor jets.
4. Use of improper gasoline, lubricating oils, or spark plug(s).
5. An accident or subjecting the ATV to misuse, abuse, or negligent operation.
6. Any modification, addition, or removal of parts unless instructed to do so by Arctic Cat.
7. Use of the ATV in any way for racing purposes.
8. Removal of the engine for use in another vehicle.
9. Removal or mutilation of the Vehicle Identification Number or Engine Serial Number.
10. Use of parts not sold or approved by Arctic Cat.
11. Damage due to improper transportation.

Arctic Cat shall not be responsible for and this limited warranty excludes recovery of economic, punitive, consequential and incidental damages, lost profits, and loss of use. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. Arctic Cat's aggregate liability may not exceed the price of the product. The law of the State of Minnesota shall apply to all claims or disputes, exclusive of its conflicts of law provisions.

IMPLIED WARRANTY EXCLUSION AND DISCLAIMER

To the fullest extent permitted by law, Arctic Cat excludes and disclaims all implied warranties of merchantability and fitness for a particular purpose.

If you are not satisfied with warranty service or repairs, you should contact Arctic Cat at (U.S.) 1-218-681-9851 or (Canada) 1-204-982-1656.

Warranty Procedure/Owner Responsibility

At the time of sale, an ATV Rider Training Certificate and Owner Registration form is to be completed by the selling dealer and consumer. The receipt of the form by Arctic Cat is a condition precedent to warranty coverage. It is the selling dealer's responsibility to retain and/or submit appropriate copies of the form to the appropriate place(s) to initiate warranty coverage.

The dealer will furnish to the consumer a signed copy of the form which must be presented to the dealer when requesting warranty service. The registration form is the consumer's proof of ownership and warranty eligibility. The form is used by the dealer to validate the warranty claim. Retain your copy of the form and keep it in a safe place.

When warranty repair is suspected, the ATV should be taken to the selling dealer, who has the primary responsibility to perform warranty repairs. Subject to the limitations set forth in the Limited Warranty, in the event the selling dealer has ceased to do business, you have moved, or you are in a location away from your selling dealer, warranty may be performed by any authorized Arctic Cat ATV dealer.

The authorized Arctic Cat ATV dealer will examine the ATV or part to determine if, in his opinion, a warrantable condition exists. If a warrantable condition appears to exist, the dealer will repair or replace, at Arctic Cat's option, free of charge, including any related labor costs, all parts that are found to be warrantable and any other parts which the warrantable part caused to be damaged. You, the owner, will then be asked to sign a warranty form to ensure Arctic Cat that the warranty work was actually performed.

It is the owner's responsibility to maintain and service the ATV in accordance with Arctic Cat's recommendations in the Operator's Manual. To protect yourself and your ATV, follow all safety and service tips. Arctic Cat will NOT warrant repairs required as a result of not performing standard operator maintenance, storage procedures, and service as outlined in the Operator's Manual.

Should you have any questions concerning the warranty, contact an authorized Arctic Cat ATV dealer.

Arctic Cat ATV Emission Control Warranty Statement

Warranty Rights and Obligations

Arctic Cat Inc. (hereinafter referred to as Arctic Cat) and the California Air Resources Board are pleased to explain the emission control system warranty for each new Arctic Cat ATV sold in the state of California. In California, a new ATV must be designed, built, and equipped to meet the state's stringent anti-smog standards.

Arctic Cat warrants the emission control system on the Arctic Cat ATV for the periods listed below provided there has been no abuse, neglect, or improper maintenance of the ATV.

The emission control system may include components such as the carburetor, ignition system, and crankcase ventilation system. Also included may be hoses, belts, connectors, and other emission-related assemblies.

When a warrantable condition exists, Arctic Cat will repair the ATV at no cost to the owner, including diagnosis, parts, and labor.

Emission Control Warranty Coverage

A new Arctic Cat ATV manufactured after January 1, 1997 has a two (2) year warranty on its emissions control components.

If an emission-related component on the ATV is defective, the component will be repaired or replaced by any authorized Arctic Cat ATV dealer.

Owner's Emission Control Warranty Responsibilities

It is the owner's responsibility to perform the required maintenance listed in the Operator's Manual. Arctic Cat recommends the retention of all receipts covering maintenance performed on the ATV, but Arctic Cat cannot deny warranty solely for the lack of receipts or for failure to ensure the performance of all scheduled maintenance on the emission control system.

It is the owner's responsibility to present the ATV to an authorized Arctic Cat ATV dealer as soon as a problem exists. The undisputed warranty repairs should be completed within a reasonable period of time, not to exceed thirty days.

The ATV owner should be aware that Arctic Cat may deny warranty coverage if either the ATV or a component has failed due to abuse, neglect, improper maintenance, or any unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, contact either Arctic Cat Inc., P.O. Box 810, Thief River Falls, MN 56701, (218) 681-4999 or the California Air Resources Board, 9528 Telstar Avenue, El Monte, CA 91731, (818) 575-6800.

Arctic Cat Emission Control System Limited Warranty

Arctic Cat Inc., P.O. Box 810, Thief River Falls, MN 56701 (hereinafter referred to as Arctic Cat) warrants that this new Arctic Cat ATV manufactured on or after January 1st, 1997:

- A. Is designed, built, and equipped so as to conform at the time of initial purchase with all applicable regulations of the California Air Resources Board and
- B. Is free from defects in material and workmanship which could cause such ATV to fail to conform with applicable regulations of the California Air Resources Board for a period of use of two (2) years from the date of initial retail delivery.

Coverage

Warranty defects shall be remedied during customary business hours at any authorized Arctic Cat ATV dealer located within the state of California in compliance with applicable regulations of the California Air Resources Board. Any component or components replaced under this warranty shall become the property of Arctic Cat.

In California, emission related warranted components are specifically defined by the state's Emission Warranty Parts List. These warranted components are carburetor and internal components, intake manifold, fuel injection system, spark advance mechanism, crankcase breather, air cutoff valve, fuel/vapor separator, canister, igniters, breaker governors, ignition coils, ignition wires, ignition points, condensers and spark plugs if failure occurs prior to the first scheduled replacement, and hoses, clamps, and fittings used directly in these parts. Since emission related components may vary from model to model, certain models may not contain all of these components, and certain models may contain functionally equivalent components.

In California, emission control system emergency repairs, as provided for in the California Administrative Code, may also be performed by other than an authorized Arctic Cat ATV dealer. An emergency situation occurs when an authorized Arctic Cat ATV dealer is not reasonably available, a component is not available within thirty (30) days, or a repair is not complete within thirty (30) days. Any replacement component can be used in an emergency repair. Arctic Cat will reimburse the owner for the expenses, including diagnosis, not to exceed suggested retail price as set forth by Arctic Cat for all warranted components replaced and labor charges based on the recommended time allowance set forth by Arctic Cat for the warranty repair and the geographically appropriate hourly labor rate. The owner may be required to keep receipts and failed components in order to receive compensation.

Limitations

This Emission Control System Warranty shall not cover any of the following:

- A. Repair or replacement required as a result of
 - (1) accident,
 - (2) misuse,
 - (3) lack of required maintenance,
 - (4) repairs improperly performed or replacements improperly installed,

- (5) use of replacement components or accessories not conforming to Arctic Cat specifications which adversely affect performance, and/or
- (6) use in competitive racing or related events.

- B. Inspections, replacement of components, and other services or adjustments necessary for required maintenance.

Limited Liability

The liability of Arctic Cat under this Emission Control System Warranty is limited solely to the remedying of defects in material and workmanship by an authorized Arctic Cat ATV dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the ATV or transportation of the ATV to or from the Arctic Cat ATV dealer.

ARCTIC CAT SHALL NOT BE LIABLE FOR ANY OTHER EXPENSES, LOSS, OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY, ARISING IN CONNECTION WITH THE SALE OR USE OF, OR INABILITY TO USE THE ARCTIC CAT ATV FOR ANY PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE MAY NOT APPLY TO YOU.

NO EXPRESS EMISSION CONTROL SYSTEM WARRANTY IS GIVEN BY ARCTIC CAT EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY EMISSION CONTROL SYSTEM WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE EXPRESS EMISSION CONTROL SYSTEM WARRANTY TERMS STATED IN THIS WARRANTY. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES.

No dealer is authorized to modify this Arctic Cat Inc. Limited Emission Control System Warranty.

Legal Rights

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

THIS WARRANTY IS IN ADDITION TO THE ARCTIC CAT INC. LIMITED ATV WARRANTY.

Additional Information

Any replacement component that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, Arctic Cat is not liable for these components. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the ATV is delivered to the owner.

U.S. EPA Emission Control Statement/Warranty Coverage - ATV (U.S. Only)

STATEMENT/WARRANTY

Arctic Cat warrants to the original retail purchaser, and each subsequent purchaser, that all U.S. EPA-certified Arctic Cat ATV's are designed, built, and equipped to conform to all U.S. EPA Emission Control Regulations. Please read the following information completely.

Your authorized Arctic Cat ATV dealer will repair or replace any defective emission-related component at no cost to you during the warranty period. You may have non-warranty service performed by any repair establishment that uses equivalent components. The regulations provide significant civil penalties for tampering that causes your ATV to no longer meet U.S. EPA emission standards.

Arctic Cat further warrants that the engine and its emission-related components are free from defects in materials or workmanship that could cause the engine to fail to comply with applicable regulations during the warranty period.

If you have any questions about this information, or the emission warranty coverage statement, contact your local authorized Arctic Cat ATV dealer.

WARRANTY PERIOD

The emission warranty period for this ATV begins on the same date as the standard warranty coverage and continues for 30 months or 3100 miles, whichever comes first.

COMPONENTS COVERED

The emissions warranty covers major emissions control components and emission-related components listed as follows

Engine Management and Sensors

Barometric Pressure Sensor
Camshaft Position Sensor
Engine Control Module (ECM)
Engine Coolant Temperature Sensor
Intake Air Temperature Sensor
Manifold Absolute Pressure Sensor
Oxygen Sensor
Throttle Position Sensor
Crankshaft Position Sensor
Exhaust Temperature Sensor

Fuel/Air System

Fuel Injectors
Fuel Pressure Regulator
Fuel Pump
Carburetor(s)
Turbocharger Assembly
Air Bypass Valve
Turbo Waste Gate Control Valve
Crankcase Ventilation System
ISC Valve

Ignition System

Ignition Coil
Knock Sensor System
Spark Plugs
Capacitive Discharge Ignition (CDI) Module
Magnet Pick-Up

Miscellaneous Items Used in Aforementioned Systems

Connectors
Switches
Grommets
Clamps
Hoses
Ties
Gaskets
Wiring

OWNER'S RESPONSIBILITIES

The owner of any ATV warranted under this Arctic Cat Emission Control Statement is responsible for the proper maintenance and use of the ATV as stated in the Operator's Manual. Proper maintenance generally includes replacement and service, at the owner's choosing, such items as air filter, oil and oil filter, or any other part, item, or device related to emissions control as specified in the Operator's Manual. It is the owner's responsibility to ensure that the ATV is used in a manner for which it was designed.

Maintenance Record

DATE	MILEAGE	SERVICE PERFORMED/NOTES

Change of Address, Ownership, or Warranty Transfer

Arctic Cat Inc. keeps on file the current name and address of the owner of this vehicle. This allows Arctic Cat to reach the current owner with any important safety information which may be necessary to protect customers from personal injury or property damage. Please make sure a copy of this form is completed and returned to Arctic Cat Inc. if you move or if the vehicle is sold to another party.

This form may also be used to transfer the unused portion of the original warranty to a second party. In order to transfer warranty, fill out this form completely; then return a copy of this form to Arctic Cat Inc. Arctic Cat will then process the application and issue warranty for the balance of the time remaining of the original warranty. Warranty coverage is only available in the country in which the original retail purchase occurs to the original retail purchaser resident in that country or to a transferee resident in that country of the balance of the remaining warranty.



Address Change



Ownership Change



Warranty Transfer

CHANGE OF ADDRESS/OWNERSHIP/ WARRANTY TRANSFER TO:

Name _____

Address _____

City/State (Province)/Zip Code (Postal Code) _____

Phone # () _____

Email _____

Year and Model _____

Vehicle Identification Number (VIN) _____

Before operating, you should take an ATV Rider Course to learn ATV riding skills or reinforce your current good riding skills. In U.S.A., call 1-800-887-2887 to enroll in the half-day ATV Rider Course nearest you or ask your dealer for assistance. The course instructor will charge a small fee for each person taking the course. In Canada, call (613) 739-1535.

Fold Back

Place
Stamp
Here

CHANGE OF ADDRESS/OWNERSHIP

ARCTIC CAT INC.
PRODUCT SERVICE AND
WARRANTY DEPT.
P.O. BOX 810
THIEF RIVER FALLS, MN 56701

NOTES

Declaration Of Conformity

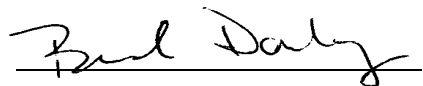
Application of council directives: EMC Directive 97/24/EC
Date of Issue: June, 1997
EC Machinery Directive 2006/42/EC
Date of Issue: May, 2006

Issued by European Commission.
Type of Equipment: All-Terrain Vehicles
Brand Name: Arctic Cat
Model: XC 450 4x4

Standards to which conformity is
declared: EN 61000-6-2:2005
EN 55012:2007

Manufacturer (if not issuing agent): Arctic Cat Inc.
601 Brooks Ave S.
Thief River Falls, MN
56701 USA

I, the undersigned, hereby declare that the equipment specified above
conforms to the directive(s) and standard(s) as specified.

A handwritten signature in black ink, appearing to read "Brad Darling", is written over a horizontal line.

Brad Darling
Vice President/General Manager

Identification Numbers Record

Identification Numbers

The Arctic Cat ATV has two identification numbers: Vehicle Identification Number (VIN) and Engine Serial Number (ESN).

The VIN is located on the lower-front crossmember.

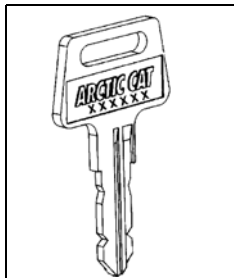


The ESN is located on the rear of the engine crankcase and is visible from the side.



These numbers are required by the dealer to complete warranty claims properly. No warranty will be allowed by Arctic Cat if the VIN or ESN is removed or mutilated in any way.

Always provide the ATV name, Vehicle Identification Number, and Engine Serial Number when contacting an authorized Arctic Cat ATV dealer for parts, service, accessories, or warranty. If a complete engine must be replaced, ask the dealer to notify Arctic Cat for correct registration information.



1. KEY IDENTIFICATION NUMBER:

The key identification number is stamped on the key as shown in the illustration. Record this number in the space provided for reference if you ever need a new key.

2. VEHICLE IDENTIFICATION NUMBER:

3. ENGINE SERIAL NUMBER:

Record the Vehicle Identification Number and Engine Serial Number in the spaces provided to assist you in ordering parts from your authorized Arctic Cat ATV dealer or for reference in case the ATV is stolen.

WARNING

Improper ATV use can result in **SEVERE INJURY** or **DEATH**



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



**NEVER USE
ON PUBLIC
ROADS**



**NEVER CARRY
PASSENGERS**



**NEVER USE
WITH DRUGS
OR ALCOHOL**

NEVER operate:

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

ALWAYS:

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

**LOCATE AND READ OPERATOR'S MANUAL
FOLLOW ALL INSTRUCTIONS AND WARNINGS**

1411-932

